

### January 18, 2021

### Via Federal Express

Mr. Bill Childress District Manager, Las Cruces District Office Bureau of Land Management 1800 Marquess Street Las Cruces, NM 88005

Mr. Holland Shepherd Program Manager, Mining Act Reclamation Program New Mexico Energy, Minerals and Natural Resources Department Mining and Minerals Division 1220 South St. Francis Drive Santa Fe, NM 87505

### **RE: Permit Tracking No. LU035MN**

Submittal of American Magnesium, LLC's Revised Financial Assurance Cost Estimates, Foothill Dolomite Mine

Dear Messrs. Childress and Shepherd:

American Magnesium, LLC (AmMg) is pleased to submit the enclosed revised financial assurance cost estimates for the proposed Foothill Dolomite Mine. Daniel B. Stephens & Associates, Inc. (DBS&A) revised the original cost estimates to address comments received from the New Mexico Energy, Minerals and Natural Resources Department, Mining and Minerals Division (MMD).

Enclosed is a letter prepared by DBS&A that provides responses to the MMD comments and the revised cost estimates. The cost estimates are being submitted to the Bureau of Land Management and MMD to support AmMg's Minimal Impact New Mine Permit Application (permit tracking number LU035MN).

AmMg hopes that the revised financial assurance cost estimates are sufficient for BLM and MMD to issue the required permits for AmMg to operate a new minimal impact dolomite mine near Deming, New Mexico. Magnesium has been identified as a critical mineral under Presidential Executive Order 13817 signed December 20, 2017 and the Final List of Critical Minerals issued by the U.S. Geological Survey on May 18, 2018. The AmMg Foothill Dolomite Mine will provide the nation with a reliable source of this critical mineral.



Should you have any questions, please contact AmMg's permitting lead, Mr. John Ayarbe, PG, with DBS&A at 505-822-9400 or by e-mail at jayarbe@geo-logic.com.

Regards,

American Magnesium, LLC

Can Pleas Breaken

Carol Ness Brewka, Managing Member

Enclosure: Financial Assurance Cost Estimates (Revision 1)



Mr. Bill Childress
District Manager, Las Cruces District Office
Bureau of Land Management
1800 Marquess Street
Las Cruces, NM 88005

Mr. Holland Shepherd
Program Manager, Mining Act Reclamation Program
New Mexico Energy, Minerals and Natural Resources Department
Mining and Minerals Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Permit Tracking No. LU035MN
Submittal of American Magnesium, LLC's
Revised Financial Assurance Cost Estimates, Foothill Dolomite Mine

Dear Messrs. Childress and Shepherd:

On December 9, 2020, the Mining and Minerals Division (MMD) of the New Mexico Energy, Minerals and Natural Resources Department issued a letter to American Magnesium, LLC (AmMg) providing technical comments on the financial assurance cost estimates for AmMg's Foothill Dolomite Mine dated October 16, 2020. On behalf of AmMg, Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this letter responding to each of MMD's technical comments. DBS&A developed the original and revised cost estimates using the Standardized Reclamation Cost Estimator (SRCE) Version 1.4.1, Build 17b (revised May 16, 2019).

MMD's letter required that AmMg submit responses to comments within 15 days of receipt of this letter, which would have been December 24, 2020. DBS&A contacted Jennifer Johnson, MMD Permit Lead, and requested an extension of time to respond to comments. In an e-mail dated December 16, 2020, MMD kindly extended the response deadline to January 23, 2021.

Although some of MMD's comments refer to the Plan of Operations for the Foothill Dolomite Mine (Revision 5) dated August 27, 2020, those comments do not require any changes to the Plan of Operations. MMD's complete comment is provided in italics, followed by AmMg's response in regular text.

1. American Magnesium provided a cost estimate for a 20-year mine plan. MMD only requires financial assurance for a 5-year mine plan. American Magnesium can provide a cost estimate for the 5-year plan mentioned in section 3.4 of the Plan of Operations ("PoO") if they would like.

AmMg understands that MMD only requires financial assurance for a 5-year mine plan. Following discussions with MMD, it was decided that AmMg would submit financial assurance

Daniel B. Stephens & Associates, Inc.

cost estimates for reclamation of disturbed areas at the site at two points in time: (1) following completion of the resource verification drilling program and (2) at the end of mine life (20-year mine plan).

- 2. Cost Data File: In the tab "Equipment Costs" the costs for the following equipment should be changed in accordance with the costs currently in EquipmentWatch:
  - a. The D6R dozer should be changed to \$7,222.35/month from \$6,570.00/month.
  - b. The D7R dozer should be changed to \$10,466.40/month from \$18,300/month.
  - c. The 966G loader should be changed to \$5,856.20/month from \$11,500.00/month.
  - d. The 725 truck should be changed to \$9,300.06/month from \$10,824.00/month.
  - e. The 120H motor grader should be changed to \$3,964.95/month from \$8,670.00/month.
  - f. The 325C track excavator should be changed to \$10,047.96/month from \$10,750.00/month.

Rates for the equipment identified in the tab "Equipment Costs" and used in the AmMg SRCEs have been revised in accordance with the rates currently in EquipmentWatch. The revisions are consistent with the rates listed above.

- 3. In the tab "Labor Rates" the labor rates for the following equipment should be changed in accordance with the New Mexico Department of Workforce Solutions prevailing wage rates for Type H Heavy Engineering:
  - a. The labor rates for the D6R and D7R bulldozers should be changed to \$28.02/hour from \$21.14/hour.
  - b. The 966G loader labor rate should be changed to \$28.02/hour from \$27.12/hour.
  - c. The 725 truck labor rate should be changed to \$28.02/hour from \$18.97/hour.
  - d. The 120H motor grader labor rate should be changed to \$30.23/hour (or \$28.31/hour) from \$21.14/hour.
  - e. The 325C track excavator labor rate should be changed to \$30.23/hour from \$27.12/hour.
  - f. Any remaining labor rates for equipment not mentioned in this letter should be adjusted to the New Mexico Department Workforce Solutions Type H Heavy Engineering labor rates.

Labor rates for the operators of the equipment identified in the tab "Labor Rates" and used in the AmMg SRCEs have been revised in accordance with the New Mexico Department of Workforce Solutions prevailing wage rates for Type H – Heavy Engineering. The revisions are consistent with the rates listed above.

In addition, the following labor rate changes were made: (1) scraper operators from \$14.03/hour to \$28.02/hour, (2) backhoe operators from \$14.03/hour to \$28.02/hour, (3) vibratory roller operators from \$14.03/hour to \$28.02/hour, (4) compressor + tools operators from \$14.03/hour to \$27.69/hour, (5) welding equipment operators from \$27.12/hour to \$27.88/hour, (6) heavy

duty drill rig and pump (plugging) drill rig operators from \$14.03/hour to \$27.88/hour, (7) dump truck (10 to 12 cubic yard) from \$11.90/hour to \$24.92/hour, (8) general laborer from \$12.37/hour to \$23.88/hour, (9) skilled laborer from \$17.97/hour to \$26.14/hour, (10) driller's helper from \$17.83/hour to \$26.14/hour, (11) rodmen (reinforcing concrete) from \$17.74/hour to \$23.88/hour, (12) cement finisher from \$17.83/hour to \$26.14/hour, and (13) carpenter from \$22.26/hour to \$36.47/hour. Labor groups and base pay rate fringe benefits have been included.

4. Cost Estimate for Reclamation After Exploration: The cost in tab "Exploration" for plugging the boreholes is not calculated and included in the overall total. Please fix this error in the excel file so it is added to the total cost.

SRCE for reclamation after exploration has been updated to include plugging and abandonment of the exploration boreholes.

5. The cost for the access road in the "Roads" tab can be removed because the exact same cost is in the Cost Estimate for Reclamation at End of Mining and since section 2.16 of the PoO states "improvement of the BLM road and final construction of the mine site access road will occur within 6 months of completion of verification drilling".

The cost for the access road in the "Roads" tab has been removed.

6. Cost Estimate for Reclamation at End of Mining: Please include the costs to reclaim the improvements to the BLM road in the "Roads" tab in the SRCE. Unless the BLM approves that the improvements to the BLM road can stay after mining has ceased, the costs must be included in the cost estimate.

SRCE for reclamation at end of mining has been updated to include costs to reclaim improvements to the unnamed BLM road. Reclamation of the road will consist of ripping and revegetating approximately 3 feet on each side of the road to bring the road back to its original width. The revision was made in the "Roads" tab.

7. The ungraded slope in the tab "Quarries & Borrow Pits" should be 2:1 not 3:1 to reflect section 2.4.6 of the PoO. Please correct this in the SRCE.

The ungraded slope in the "Quarries & Borrow Pits" tab has been changed from 3:1 to 2:1.

8. Section 2.4.1 of the PoO states "a cattle guard will be installed at the swing gate currently located in the upper portion of the BLM road". Please include the cost to remove this cattle guard at the end of operations in the SRCE.

Removal and disposal of the cattle guard has been added to the "Waste Disposal" tab.

9. Section 2.4.2 of the PoO states "the proposed alignment will require the installation of single culverts to cross two or three narrow, steep-sided gullies". Please provide culvert removal costs in SRCE.

Removal and disposal of three culverts has been added to the "Misc. Costs" tab.

10. Section 2.4.3 of the PoO mentions that portable sanitation facilities will be on site but is not included in tab "Other Demo & Equip Removal". Please provide these costs in the SRCE.

The "Other Demo & Equip Removal" tab has been revised to include the cost to remove portable sanitation facilities (two units).

11. Section 2.4.6 state that the maximum amount of staged ore will be 15 cubic yards. Please provide costs to remove this pile in the cost estimate.

The "Waste Disposal" tab has been revised to include disposal of 15 cubic yards of unprocessed ore.

12. Tab "Foundations & Buildings" does not include the cost for the demolition of the concrete slab ford across the arroyo. Please fix the excel file to include this cost.

The "Foundations & Buildings" tab has been revised to include the cost to demolish and remove the concrete slab ford.

13. Section 3.3 states that "seed will be planted along contour using a rangeland drill or similar equipment. When drill seeding cannot be accomplished, broadcast seeding will be employed". Please include the costs for drill seeding in the SRCE.

The seed application method has been revised to include drill seeding for all disturbance types. This change was also made to the Exploration SRCE so that the two SRCEs are consistent.

14. Both Cost Estimates: The Monitoring & Maintenance table in tab "Constr. Mgmt" has one water truck and one grader for a duration of 36 months but there is no value provided for the Hours/Month. Please clarify the number of hours/month the water truck and grader are needed for Monitoring & Maintenance and include it in the excel file.

The anticipated rate for both pieces of equipment is 1 hour per month for monitoring and maintenance. Both SRCEs have been updated.

### **Closing**

DBS&A revised the financial assurance cost estimates for AmMg's Foothill Dolomite Mine. Revisions to estimated costs for reclamation following (1) completion of the resource verification drilling program and (2) at the end of mine life are provided as Attachments 1 and 2, respectively. The estimated cost for reclamation of disturbances related to resource verification

activities is \$518,589 (Attachment 1). The estimated cost for reclamation of disturbances related to mining operations at is \$892,483 (Attachment 2).

If you have any questions or comments regarding our approach, please contact us at (505) 822-9400.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Bill Casadevall, C.P.G.

Senior Geologist

John Ayarbe, P.G.

Senior Hydrologist

BC/JA/rpf Attachments

cc: Carol Ness Brewka, AmMg (cnbrewka@msn.com)

# **Attachment 1**

Cost Estimate for Reclamation of Disturbance from Resource Verification Program Enter Data Below in Green and Blue Spaces

### STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019)

Approved for use in Nevada, August 1, 2012

| COST DATA FILE INFORMATIO | N .  |
|---------------------------|--|
| File Name:                | Att 1_Cost 20200820_SRCE_Version_1_4_1_017b_NV_2020 Exploration Rev 2.xlsm             |
| Cost Data File:           | SRCE_Cost_data-Am_Mg_Foothill_Dolomite_ Mine_1_12 Rev 1.xlsm                           |
| Cost Data Date:           | January 6, 2021  |
| Cost Data Basis:          | User Data Cost Units: Imperial   |
| Author/Source:            | New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H |
| PROJECT INFORMATION       |  |
| Property/Mine Name:       | Foothill Dolomite Mine Property Code: N/A  |
| Project Name:             | Foothill Dolomite Mine   |
| Date of Submittal:        | 01/18/2021 Average Altitude: 4865 ft.  |
| Select One:               | ○ Notice or Sm Exploration Plan ○ Lg Exploration Plan ○ Mine Operation                 |
| Select One:               | Private Land     Public or Public/Private  |
| Cost Estimate Type:       | Surety   |
| Cost Basis Category:      | American Magnesium - Option 1 Revised  |
| Cost Basis Description:   | American Magnesium - Foothill Dolomite Mine - Northern Nevada Equipment                |

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### **Closure Cost Estimate Cost Summary**

# Project Name: Foothill Dolomite Mine Project Date: 01/18/2021 Model Version: Version 1.4.1 File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

|  | 1 //   | (8)   |   |   |
|--|--|---|---|---|
| A. Earthwork/Recontouring  | Labor (1)  | Equipment (2)   | Materials   | Total   |
| Exploration  | \$29,627   | \$191,491   | \$844   | \$221,962   |
| Exploration Roads & Drill Pads Roads   | \$3,716<br>\$0   | \$12,009<br>\$0   | \$0<br>\$0  | \$15,725<br>\$0   |
| Well Abandonment   | \$0  | \$0   | \$0   | \$0   |
| Pits   | \$0  | \$0   | N/A   | \$0   |
| Quarries & Borrow Areas  | \$0  | \$0   | \$0   | \$0   |
| Underground Openings   | \$0  | \$0   | \$0   | \$0   |
| Process Ponds Heaps  | \$0<br>\$0   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  |
| Waste Rock Dumps   | \$0  | \$0<br>\$0  | \$0   | \$0   |
| Landfills  | \$0  | \$0   | \$0   | \$0   |
| Tailings   | \$0  | \$0   | \$0   | \$0   |
| Foundation & Buildings Areas   | \$0  | \$0   | \$0   | \$0   |
| Yards, Etc.  | \$172  | \$532   | \$0   | \$704   |
| Drainage & Sediment Control  | \$0  | \$0   | \$0   | \$0   |
| Generic Material Hauling   | \$0  | \$0   | \$0   | \$0   |
| Other User Costs (from Other User sheet) Other**   | \$0  | \$0   | \$59,427  | \$59,427<br>\$0   |
| Subtotal   | \$33,515   | \$204.032   | \$60,271  | \$297,818   |
|  | , ,,,,,,,,,  | <del></del>   | <b>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</b>  | <del></del>   |
| Mob/Demob if included in Other User sheet  | \$0  | \$0   | \$0   | \$0   |
| Mob/Demob  |  |   |   | \$0   |
| Subtotal "A"   | \$33,515   | \$204,032   | \$60,271  | \$297,818   |
|  |  |   |   |   |
| B. Revegetation/Stabilization  | Labor (1)  | Equipment (2)   | Materials   | Total   |
| Exploration  | \$0  | \$0   | \$0   | \$0   |
| Exploration Roads & Drill Pads   | \$410  | \$352   | \$18,755  | \$19,517  |
| Roads  | \$0  | \$0   | \$0   | \$0   |
| Well Abandonment   |  |   |   | N/A   |
| Pits   | \$0  | \$0   | \$0   | \$0   |
| Quarries & Borrow Areas  | \$0  | \$0   | \$0   | \$0<br>N/A  |
| Underground Openings Process Ponds   | \$0  | \$0   | \$0   | N/A<br>\$0  |
| Heaps  | \$0  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  |
| Waste Rock Dumps   | \$0  | \$0   | \$0   | \$0   |
| Landfills  | \$0  | \$0   | \$0   | \$0   |
| Tailings   | \$0  | \$0   | \$0   | \$0   |
| Foundation & Buildings Areas   | \$0  | \$0   | \$0   | \$0   |
| Yards, Etc.  | \$140  | \$120   | \$1,601   | \$1,861   |
| Drainage & Sediment Control  | \$0  | \$0   | \$0   | \$0   |
| Generic Material Hauling Other User Costs (from Other User sheet)  | \$0<br>\$0   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  |
| Other**  | Φυ   | φυ  | \$0   | \$0   |
| Subtotal "B"   | \$550  | \$472   | \$20,356  | \$21,378  |
| Subtotal B   | \$330  | φ41 Z   | \$20,330  | \$21,370  |
| C. Detoxification/Water Treatment/Disposal of Wastes**   | Labor (1)  | Equipment (2)   | Materials   | Total   |
|  | Labor  | Equipment   | Materiais   | 10tai<br>\$0  |
| Process Ponds/Sludge   |  |   |   |   |
|  |  |   |   |   |
| Heaps  |  |   |   | \$0   |
|  |  |   |   | \$0   |
| Heaps Dumps (Waste & Landfill)   |  |   |   | \$0<br>\$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring  |  |   |   | \$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous  |  |   |   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site  | \$0  | \$0   | N/A   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Soild Waste - On Site Soild Waste - Off Site   | \$0  | \$0   | N/A   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                            |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials   |  |   |   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Taillings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils   | \$0  | \$0   | \$0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials   |  |   |   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other"  | \$0<br>\$0   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other"  Subtotal "C"  | \$0<br>\$0   | \$0   | \$0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other"  Subtotal "C"  | \$0<br>\$0   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other "  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc.  | \$0<br>\$0<br>\$0<br>Labor <sup>(1)</sup>  | \$0<br>\$0<br>\$0<br>Equipment <sup>(2)</sup>   | \$0<br>\$0<br>Materials   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other" Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas   | \$0<br>\$0<br>\$0<br>Labor (1)   | \$0<br>\$0<br>Equipment <sup>(2)</sup>  | \$0<br>\$0<br>\$0<br>Materials  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other "  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc.  | \$0<br>\$0<br>\$0<br>Labor <sup>(1)</sup>  | \$0<br>\$0<br>\$0<br>Equipment <sup>(2)</sup>   | \$0<br>\$0<br>Materials   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal   | \$0<br>\$0<br>\$0<br>Labor (1)<br>\$0<br>\$0<br>\$0<br>\$0   | \$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0  | \$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$0<br>\$0<br>\$0<br><b>Equipment</b> (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$0<br>\$0                      | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other'*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal   | \$0<br>\$0<br>\$0<br><b>Labor</b> (1)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0<br>\$0                                    | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other'* Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal   | \$0<br>\$0<br>\$0<br><b>Labor</b> (1)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0 | \$0<br>\$0<br>\$0<br><b>Equipment</b> (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$0<br>\$0                      | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other'* Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Denotition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Flee Removal Powerline Removal   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0<br>\$0                                    | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Powerline Removal Powerline Removal  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br><b>Equipment</b> (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0<br>\$0<br>\$0<br>N/A                      | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Denotition Equipment Removal Fence Removal Fence Removal Powerline Removal Pips Removal Powerline Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Powerline Removal Transformer Removal  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br><b>Equipment</b> (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0<br>\$0<br>N/A<br>N/A                      | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Powerline Removal Powerline Removal  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br><b>Equipment</b> (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0<br>\$0<br>\$0<br>N/A                      | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other"  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0 | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$0<br>\$0<br>\$0<br>N/A<br>N/A        | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other'*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet)   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0 | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$0<br>\$0<br>\$0<br>N/A<br>N/A        | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pence Installation Culvert Removal Pipe Removal Powerline Removal Transformer Removal  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0               | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>N/A<br>N/A                     | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Removal Removal Removal Removal Pipe Removal Other Misc. Costs Other User Solid Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other** Subtotal "D"  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0               | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other" Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other " Subtotal "D"  E. Monitoring  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0               | \$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$0<br>N/A<br>N/A<br>\$0<br>\$0<br>\$0               | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Removal Removal Removal Removal Pipe Removal Other Misc. Costs Other User Solid Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other** Subtotal "D"  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>Equipment (2)<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0               | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet)  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other* Subtotal "C"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other* Subtotal "C"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other'*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other'* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Removal Pipe Removal Pipe Removal Prowerline Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other'* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other" Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Management Construction Management Road Maintenance   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                    | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Powerline Removal Transformer Removal T | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0 \$0 \$0 \$0 \$0 \$0 \$0 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0   | \$0 \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0            | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other'' Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet)  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  | \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Powerline Removal Transformer Removal T | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other'*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Transformer Removal Riprap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other'* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other'*  Subtotal "F"  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other'' Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet)  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other'*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Transformer Removal Riprap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other'* Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other'*  Subtotal "F"  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                                    | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  | \$0 \$0 \$0 \$0  Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0                | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |

 $<sup>\</sup>ensuremath{^{**}}$  Other Operator supplied costs - additional documentation required.

### **Closure Cost Estimate Cost Summary**

**Project Name: Foothill Dolomite Mine** Project Date: 01/18/2021 Model Version: Version 1.4.1

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

| Indirect Costs  |  |  |  | Include?   | Total                        |
|---|--|--|--|--|------------------------------|
| Engineering, Design and Construction (ED&C) Plan (7)  |  |  |  |  | \$28,94                      |
| 2. Contingency (8)  |  |  |  |  | \$36,17                      |
| 3. Insurance (9)  |  | \$872  |  |  | \$87                         |
| 4. Performance Bond (10)  |  |  |  |  | \$10,85                      |
| Contractor Profit (11)  |  |  |  |  | \$36,17                      |
| Contract Administration (12)  |  |  |  |  | \$36,17                      |
| 7. Government Indirect Cost (13)  |  |  |  |  | \$7,59                       |
| Subtotal Add-On Costs   |  |  |  |  | \$156,80                     |
| Total Indirect Costs as % of Direct Cost  |  |  |  |  | 439                          |
|   |  |  |  |  | A=10 =0                      |
| GRAND TOTAL   |  |  |  |  | \$518,589                    |
| GRAND TOTAL Administrative Cost Rates (%)   |  |  |  |  | \$518,589                    |
|   |  | Cost Rang  | jes for Indirect Cos                                 | st Percentages                                     | \$518,589                    |
|   | <b>&lt;=</b>   | Cost Rang  | ges for Indirect Cos                                 | st Percentages                                     | \$518,58                     |
|   | <=<br>\$1,000,000  |  |  |  |                              |
| Administrative Cost Rates (%)   |  | <=   |  | >  | \$518,588                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate   | \$1,000,000<br>8%  | <=<br>\$25,000,000<br>6%<br><=   | <= <=  | \$25,000,000<br>4%                                 | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate 2. Contingency (8)  | \$1,000,000<br>8%<br><=<br>\$500,000                               | \$25,000,000<br>6%<br><=<br>\$5,000,000  | <=<br><=<br>\$50,000,000                             | \$25,000,000<br>4%<br>><br>\$50,000,000            | Small Pla<br>0°<br>Small Pla |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%                        | <=<br>\$25,000,000<br>6%<br><=<br>\$5,000,000<br>8%  | <= <=  | \$25,000,000<br>4%                                 | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%                | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs  | <=<br><=<br>\$50,000,000<br>6%                       | \$25,000,000<br>4%<br>><br>\$50,000,000            | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  3. Insurance (9)  4. Bond (10)   | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%        | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if                     | <=<br><=<br>\$50,000,000                             | \$25,000,000<br>4%<br>><br>\$50,000,000            | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%        | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if<br>of the O&M costs | <=<br>\$50,000,000<br>6%<br>O&M costs are >\$100,000 | ><br>\$25,000,000<br>4%<br>><br>\$50,000,000<br>4% | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)  5. Contractor Profit (11) | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%<br>10% | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if<br>of the O&M costs | <=<br><=<br>\$50,000,000<br>6%                       | \$25,000,000<br>4%<br>\$50,000,000<br>4%           | Small Pla<br>0°<br>Small Pla |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  3. Insurance (9)  4. Bond (10)   | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%<br>10% | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if<br>of the O&M costs | <=<br>\$50,000,000<br>6%<br>O&M costs are >\$100,000 | ><br>\$25,000,000<br>4%<br>><br>\$50,000,000<br>4% | Small Pla                    |

### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

- RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

  1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading,
  2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the
  3. Miscellaneous items should be itemized on accompanying worksheets.
  4. Fluid management represents the costs of maintaining proper
  5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced,
  6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,
  7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To
  8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the
  9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.
  10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is
  11. For Federal construction contracts, use 10% of estimated 0&M cost for the contractor's promium (D&M) cost. Calculate the contract administration cost as a

- 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a 13. Government indirect cost rate is 21% of the contract administration costs.

### **Closure Cost Estimate** Other User

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Eatimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Oth | Other Cost Items Calculated Elsewhere |         |                           |          |       |             |          |       |                         |              |          |          |
|-----|---------------------------------------|---------|---------------------------|----------|-------|-------------|----------|-------|-------------------------|--------------|----------|----------|
|     |                                       |         |                           |          |       |             |          |       |                         |              |          |          |
|     |                                       |         |                           |          |       | Total       | Material | Labor | Equipment/<br>Operating |              |          |          |
|     | Description                           |         |                           |          |       | Capital     | Unit     | Unit  | Unit                    |              | Total    |          |
|     | (required)                            | ID Code | Facility Type             | Quantity | Units | Cost        | Cost     | Cost  | Cost                    | Cost Type    | Cost     | Comments |
|     |                                       |         |                           |          |       | \$          | \$       | \$    | \$                      | (select)     | \$       |          |
| 1   | Topdressing Purchase and Hauling      |         | Off Site - Other Load Out | 4,055    | 1     | \$15,503.60 | \$10.83  |       |                         | A. Earthwork | \$59,427 |          |
|     |                                       |         |                           |          |       | \$15 504    | \$43 924 | \$0   | 90                      |              | \$59 427 |          |

Notes: Capital cost is lump sum (i.e. not multiplied by the quantity).

Material, Labor and Equipment/Operating costs are unit costs (i.e. multiplied by the quantity).

Note: Assumes 20% discount on purchased soil for bulk discount at \$13.54/cy original Cost

Note: Assumes Capitol Cost as Delivery cost at \$3.50 per mile using an 18 cy dump truck at 19.6 miles for delivery.

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### **Closure Cost Estimate Reclamation Quantities**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Data Cost File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm

Cost Data: User Data

Cost Data Data
Cost Data File: SRCE Cost \_data-Am \_Mg \_Foothill \_Dolomite \_ Mine \_1 \_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Reclamation Quantity Sum     | mary  |   |                                |                                  |                                       |   |                                   |                                |                                   |              |                               |  |                             |                                       |                               |                                       |
|------------------------------|---|---|--------------------------------|----------------------------------|---------------------------------------|---|-----------------------------------|--------------------------------|-----------------------------------|--------------|-------------------------------|--|-----------------------------|---------------------------------------|-------------------------------|---------------------------------------|
|                              |   |   |                                |                                  |                                       |   |                                   |                                |                                   |              |                               |  | Unit Costs                  |                                       |                               |                                       |
| Description                  | Total<br>Regrade<br>or Haul<br>Volume<br>cy | Total<br>Regrade<br>or Haul<br>Cost<br>\$ | Total<br>Cover<br>Volume<br>cy | Cover<br>Placement<br>Cost<br>\$ | Total<br>Growth Media<br>Volume<br>cy | Growth Media<br>Placement<br>Cost<br>\$ | Total<br>Surface<br>Area<br>acres | Total<br>Scarify<br>Cost<br>\$ | Total<br>Revetation<br>Cost<br>\$ | TOTALS<br>\$ | Regrade<br>Unit Cost<br>\$/CY | Material Haul<br>or Backfill<br>Unit Cost<br>\$/CY | Cover<br>Unit Cost<br>\$/CY | Growth<br>Media<br>Unit Cost<br>\$/CY | Scarify<br>Unit Cost<br>\$/CY | Area<br>Unit Cost<br>\$/acre          |
| 1 Waste Rock Dumps           |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 2 Tailings Impoundments      |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 3 Heap Leach Pads            |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               | i                                     |
| 5 Open Pits                  |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 4 Quarries & Borrow Pits     |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 6 Roads                      |   | \$ -                                      |                                |                                  |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 7 Landfills                  |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               | i                                     |
| 8 Buildings                  |   |   |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 9 Yards                      |   | \$ -                                      |                                | \$ -                             | 484                                   | \$ 582                                  | 0.25                              | \$ 122                         | \$ 1,861                          | \$ 2,565     |                               | N/A  |                             | \$1.20                                | \$488.00                      | \$10,260.00                           |
| 10 Ponds                     |   | \$ -                                      |                                |                                  |                                       | \$ -                                    |                                   |                                | \$ -                              | \$ -         | N/A                           |  |                             |                                       |                               |                                       |
| 11 Exploration Roads         | 1,653                                       | \$ 5,218                                  |                                |                                  | 4,722                                 | \$ 10,261                               | 2.93                              | \$ 246                         | \$ 19,517                         | \$ 35,242    | \$3.16                        | N/A  |                             | \$2.17                                | \$83.96                       | \$12,027.99                           |
| 12 Exploration Trenches      |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 13 Diversion Ditches         |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                                       |
| 14 Sediment Ponds            |   | \$ -                                      |                                |                                  |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               |  |                             |                                       |                               |                                       |
| 15 Generic Haulage/Backfill  |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         | N/A                           |  |                             |                                       |                               |                                       |
| 16 Adit/Decline Backfilling1 |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                |                                   | \$ -         | N/A                           |  |                             |                                       |                               |                                       |
| 17 Shaft Backfilling         |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                |                                   | \$ -         | N/A                           |  |                             |                                       |                               |                                       |
| TOTALS                       | 1,653                                       |   |                                | \$ -                             | 5,206                                 |   | 3.18                              |                                |                                   |              |                               |  |                             |                                       |                               | · · · · · · · · · · · · · · · · · · · |
| Average Costs                | per CY                                      | \$3.16                                    | per CY                         |                                  | per CY                                | \$2.08                                  | per acre                          | \$115.72                       | \$58.09                           | \$11,889     | per acre                      | I  |                             |                                       |                               |                                       |

1 of 1 Reclamation Quantities

### **Closure Cost Estimate Exploration**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Basis: American Magnesium - Option 1 Revised Cost Estimate Type: Surety

| Exploration - Cost Summary |          |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|
|                            | Labor    | Equipment | Materials | Totals    |
| Hole Abandonment Costs     | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Backfilling Costs   | \$0      | \$0       |           | \$0       |
| Subtotal Earthworks        | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Revegetation Costs  | \$0      | \$0       | \$0       | \$0       |
| TOTALS                     | \$29,627 | \$191,491 | \$844     | \$221,962 |

| Exp | Exploration Drillhole Abandonment - User Input |         |                       |                       |                             |                                  |                           |  |                          |                                    |  |  |  |
|-----|--|---------|-----------------------|-----------------------|-----------------------------|----------------------------------|---------------------------|--|--------------------------|------------------------------------|--|--|--|
|     | Facility Description Hole Plugging             |         |                       |                       |                             |                                  |                           |  |                          |                                    |  |  |  |
|     | Description<br>(required)                      | ID Code | Hole Type<br>(select) | <b>Diameter</b><br>in | Total<br>Number<br>of Holes | Max Holes<br>Open at One<br>Time | Casing to<br>Remove<br>ft | Average<br>Depth of<br>Hole <sup>(1)</sup><br>ft bgs | Depth to Water<br>ft bgs | Hole<br>Plug<br>Method<br>(select) |  |  |  |
| 1   | Exploration Boreholes                          | N/A     | Rotary Pre-drill      | 3.0                   | 86.0                        | 86.0                             | 100.0                     | 100.0  | 250.0                    | Grout Only                         |  |  |  |

1. If core holes are pre-drilled, use length of hole below pre-drilled length

1. If total flotes are pre-united, use length or flote points pre-united tength
 2. If Top Plug is selected, assumes maximum 1/2hr laborer time to place plug and backfill with cuttings/soil (including move-to/set up time).

NOTE: Exploration Boreholes and casings will be removed and backfilled with grout upon drilling completion of each exploration borehole.

1/14/2021

Page 1 of 6 Exploration

### **Closure Cost Estimate Exploration**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Basis: American Magnesium - Option 1 Revised Cost Estimate Type: Surety

| Exploration - Cost Summary |          |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|
|                            | Labor    | Equipment | Materials | Totals    |
| Hole Abandonment Costs     | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Backfilling Costs   | \$0      | \$0       |           | \$0       |
| Subtotal Earthworks        | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Revegetation Costs  | \$0      | \$0       | \$0       | \$0       |
| TOTALS                     | \$29,627 | \$191,491 | \$844     | \$221,962 |

| Ī | Exploration Trenches - User Input |         |                        |                       |                                 |                                |   |                                  |                                     |                                  |                      |                   |                        |  |
|---|-----------------------------------|---------|------------------------|-----------------------|---------------------------------|--------------------------------|---|----------------------------------|-------------------------------------|----------------------------------|----------------------|-------------------|------------------------|--|
| Г | Facility Description              |         |                        | Tre                   | nch Paramet                     | ers                            |   |                                  | Backfill                            |                                  |                      | Revegetation      |                        |  |
|   | Description<br>(required)         | ID Code | Trench<br>Length<br>ft | Trench<br>Depth<br>ft | Trench<br>Bottom<br>Width<br>ft | Trench Sideslope Angle degrees | Additional<br>Hrs<br>for Walk-in <sup>(1)</sup><br>hr | Backfill<br>Material<br>(select) | Cut<br>Material<br>Type<br>(select) | Backfilling<br>Fleet<br>(select) | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) |  |

- Notes:

  1. Include <u>one-way</u> hours necessary to walk equipment in from drop-off point to work area
- 2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

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### **Closure Cost Estimate Exploration**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |          |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|
|                            | Labor    | Equipment | Materials | Totals    |
| Hole Abandonment Costs     | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Backfilling Costs   | \$0      | \$0       |           | \$0       |
| Subtotal Earthworks        | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Revegetation Costs  | \$0      | \$0       | \$0       | \$0       |
| TOTALS                     | \$29,627 | \$191,491 | \$844     | \$221,962 |

| E | Exploration Drillhole Abandonment |                             |   |   |                                   |  |   |   |  |                                 |                                     |                                    |   |                                |
|---|-----------------------------------|-----------------------------|---|---|-----------------------------------|--|---|---|--|---------------------------------|-------------------------------------|------------------------------------|---|--------------------------------|
|   |                                   |                             |   |   |                                   |  |   |   |  |                                 |                                     |                                    |   |                                |
|   | Description<br>(required)         | Vol/foot of<br>depth<br>ft3 | Hole<br>Plugging<br>Material <sup>(1)</sup> | Total<br>Grout<br>Volume <sup>(2)</sup><br>cy | Total<br>Cuttings<br>Volume<br>cy | Total<br>Top Seal<br>Volume <sup>(3,4)</sup><br>Cy | Total<br>Drillhole<br>Abandon.<br>Hours <sup>(6,7)</sup><br>hrs | Casing<br>Removal<br>Labor<br>Cost <sup>(5)</sup> | Casing<br>Removal<br>Equipment<br>Cost<br>\$ | Plugging<br>Labor<br>Cost<br>\$ | Plugging<br>Equipment<br>Cost<br>\$ | Plugging<br>Material<br>Cost<br>\$ | Top Seal<br>Material<br>Cost <sup>(2,3)</sup><br>\$ | Total<br>Cost <sup>(6,7)</sup> |
|   | 1 Exploration Boreholes           | 0.050                       | Cuttings                                    | 0.19  |                                   | 0.05   | 4   | \$4,232   | \$27,517                                     | \$25,395                        | \$163,974                           | \$689                              | \$155   | \$221,962                      |
|   |                                   |                             |   | 0.19  |                                   | 0.05   | 4   | \$4,232   | \$27,517                                     | \$25,395                        | \$163,974                           | \$689                              | \$155   | \$221,962                      |

### Notes:

- 1. Assumes grout backfill from bottom of hole to 50' (15.24m) above static water level, up to 10' (3m) from top of hole
- 2. Assumes 25% loss to formation for grout backfill
- 3. If "Top Plug" hole plug method is used, assumes physical plug installed without backfill, grout or cement. Not available option for Nevada projects
  4. Assumes top 20' (6 m) of hole is plugged with cement if "Grout Only", "Backfill + Grout", or "Cement Plug" hole plug method are chosen.
- 5. Assumes that a) casing is not cemented entire length, b) does not include temporary surface casing
- 6. Assumes minimum 1 hr per hole for abandonment (excluding move-to and casing removal)
- 7. Assumes fixed hours per hole for setup & tear-down and moving between holes (see Productivty Sheet) per drill hole (includes rig time if grouting required, labor crew only if cuttings backfill only)

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### Closure Cost Estimate Exploration

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |          |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|
|                            | Labor    | Equipment | Materials | Totals    |
| Hole Abandonment Costs     | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Backfilling Costs   | \$0      | \$0       |           | \$0       |
| Subtotal Earthworks        | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Revegetation Costs  | \$0      | \$0       | \$0       | \$0       |
| TOTALS                     | \$29,627 | \$191,491 | \$844     | \$221,962 |

## 

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### Closure Cost Estimate Exploration

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |          |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|
|                            | Labor    | Equipment | Materials | Totals    |
| Hole Abandonment Costs     | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Backfilling Costs   | \$0      | \$0       |           | \$0       |
| Subtotal Earthworks        | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Revegetation Costs  | \$0      | \$0       | \$0       | \$0       |
| TOTALS                     | \$29,627 | \$191,491 | \$844     | \$221,962 |

| Exploration Trenches - Backfill/Regrading Costs  Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) |   |                                 |                                     |                    |                       |                      |   |                               |  |  |  |  |
|--|---|---------------------------------|-------------------------------------|--------------------|-----------------------|----------------------|---|-------------------------------|--|--|--|--|
| Description<br>(required)  | Trench<br>Backfill<br>Volume<br>LCY (BCY+30%) | Dozer<br>Push<br>Distance<br>ft | Equipment<br>Productivity<br>yd3/hr | Dozing<br>Material | Density<br>Correction | Backfilling<br>Fleet | Corrected<br>Hourly<br>Productivity<br>yd3/hr | Total<br>Dozer<br>Hours<br>hr | Trench Backfill<br>Labor<br>Cost<br>\$ | Trench Backfill<br>Equipment<br>Cost<br>\$ | Total<br>Trench Backfill<br>Cost<br>\$ |  |
| <u> </u>   |   |                                 |                                     |                    |                       |                      |   |                               | \$0                                    | \$0  | \$0                                    |  |

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Cappright 2004-2009
Page 5 of 6
Exploration

### Closure Cost Estimate Exploration

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |          |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|
|                            | Labor    | Equipment | Materials | Totals    |
| Hole Abandonment Costs     | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Backfilling Costs   | \$0      | \$0       |           | \$0       |
| Subtotal Earthworks        | \$29,627 | \$191,491 | \$844     | \$221,962 |
| Trench Revegetation Costs  | \$0      | \$0       | \$0       | \$0       |
| TOTALS                     | \$29,627 | \$191,491 | \$844     | \$221,962 |

| Ехр | Ioration Trenches - Revegetation Costs |         |              |              |             |              |
|-----|--|---------|--------------|--------------|-------------|--------------|
|     |  |         |              |              |             |              |
|     |  |         | Revegetation | Revegetation | Revgetation | Total        |
|     | Description                            | Surface | Labor        | Equipment    | Material    | Revegetation |
|     | (required)                             | Area    | Cost         | Cost         | Cost        | Cost         |
|     |  | acres   | \$           | \$           | \$          | \$           |
|     |  |         | \$0          | \$0          | \$0         | \$0          |

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### **Closure Cost Estimate** Expl. Roads & Pads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Exploration Roads & Pads - Cost Summary |         |           |           |          |
|---|---------|-----------|-----------|----------|
|   | Labor   | Equipment | Materials | Totals   |
| Grading Costs                           | \$1,376 | \$3,842   | N/A       | \$5,218  |
| Cover Placement Cost                    | \$2,271 | \$7,990   | N/A       | \$10,261 |
| Ripping/Scarifying Cost                 | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks                     | \$3,716 | \$12,009  |           | \$15,725 |
| Revegetation Cost                       | \$410   | \$352     | \$18,755  | \$19,517 |
| TOTALS                                  | \$4,126 | \$12,361  | \$18,755  | \$35,242 |

| Ī | Exploration Roads & Pads - User Input You must fill in ALL green cells and relevant blue cells in this section for each road |                      |  |  |                            |                         |                                     |                     |                            |                                    |                             |                              |                                      |   |   |                                    |  |   |
|---|--|----------------------|--|--|----------------------------|-------------------------|-------------------------------------|---------------------|----------------------------|------------------------------------|-----------------------------|------------------------------|--------------------------------------|---|---|------------------------------------|--|---|
| П |  | Facility Description |  |  | Physical (1) - MANDATORY   |                         |                                     |                     |                            |                                    |                             |                              | User O                               | User Overrides                              |   | Growth Media                       |  |   |
| ſ | Description (required) ID Code   |                      |  | Underlying<br>Ground<br>Slope<br>% grade | Ungraded<br>Slope<br>_H:1V | Cut<br>Slope<br>degrees | Road +<br>Drill Pad<br>Length<br>ft | Road<br>Width<br>ft | Number<br>of Drill<br>Pads | Individual<br>Sump<br>Volume<br>cy | Drill<br>Pad<br>Width<br>ft | Drill<br>Pad<br>Length<br>ft | Slope<br>Replacement<br>Percent<br>% | Regrade Volume (if calculated elsewhere) Cy | Disturbed Area<br>(if calculated<br>elsewhere)<br>acres | Growth<br>Media<br>Thickness<br>in | Distance to<br>Growth Media<br>Stockpile<br>ft | Slope from<br>Road to<br>Stockpile<br>% grade |
|   | 1  | Exploration Roads    |  | 15.0                                     | 2.0                        | 66.7                    | 10,626                              | 12.0                | 86                         | 0                                  | 12.0                        | 10                           | 115%                                 |   | 2.93  | 12                                 | 1,379  | 15.0  |

- Notes:

  1. All Physical parameters must be input even if manual overrides for volume or area are used.

  2. Slope replacement refers to the percentage of cut volumn replaced during regrading.

  3. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

  4. Sump volume will be applied to all roads on slopes <20%. On slopes >20% pad width (i.e. cut volume) should be adequate to account for sump volume.

### **Closure Cost Estimate** Expl. Roads & Pads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| xploration Roads & Pads - Cost Summary |         |           |           |          |
|--|---------|-----------|-----------|----------|
|  | Labor   | Equipment | Materials | Totals   |
| Grading Costs                          | \$1,376 | \$3,842   | N/A       | \$5,218  |
| Cover Placement Cost                   | \$2,271 | \$7,990   | N/A       | \$10,261 |
| Ripping/Scarifying Cost                | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks                    | \$3,716 | \$12,009  |           | \$15,725 |
| Revegetation Cost                      | \$410   | \$352     | \$18,755  | \$19,517 |
| TOTALS                                 | \$4,126 | \$12,361  | \$18,755  | \$35,242 |

| Exp | Exploration Roads & Pads - User Input (cont.)  You must fill in ALL green cells and relevant blue cells in this section for each road |  |                               |   |   |   |                                    |  |   |                      |                   |                        |                                     |                           |
|-----|---|--|-------------------------------|---|---|---|------------------------------------|--|---|----------------------|-------------------|------------------------|-------------------------------------|---------------------------|
|     |   |  | Grading Growth Media          |   |   |   |                                    |  | Revegetation                                    |                      |                   |                        |                                     |                           |
|     | Description<br>(required)   | Regrade<br>Material<br>Condition<br>(select) | Cut Material Type<br>(select) | Recontouring<br>Equipment Fleet<br>(select) | Additional<br>Hrs<br>for Walk-in <sup>(1)</sup> | Growth Media<br>Material Type<br>(select) | Placement Equipment Fleet (select) | Maximum<br>Fleet Size<br>(user override) | Additional<br>Hrs<br>for Walk-in <sup>(1)</sup> | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) | Scarifying/<br>Ripping?<br>(select) | Ripping Fleet<br>(select) |
| 1   | Exploration Roads   | 0.8  | LS - broken                   | Small Dozer                                 | 1.0   | Alluvium                                  | Small Truck                        |  | 1.0   | User Mix 1           | Straw Mulch       | None                   | Yes                                 | Small Dozer               |

Notes:

1. Inclue one-way hours necessary to walk equipment in from drop-off point to work area

2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Project Name: Foothill Dolomite Mine - Reclamation Plan

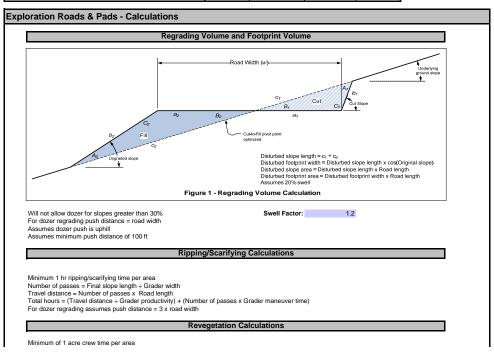
Date of Submittal: 01/18/2021

File Name: Att 1 Cost 20200820 SRCE Version 1 4 1 017b NV 2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |         |           |           |          |
|---|---------|-----------|-----------|----------|
|   | Labor   | Equipment | Materials | Totals   |
| Grading Costs                           | \$1,376 | \$3,842   | N/A       | \$5,218  |
| Cover Placement Cost                    | \$2,271 | \$7,990   | N/A       | \$10,261 |
| Ripping/Scarifying Cost                 | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks                     | \$3,716 | \$12,009  |           | \$15,725 |
| Revegetation Cost                       | \$410   | \$352     | \$18,755  | \$19,517 |
| TOTALS                                  | \$4,126 | \$12,361  | \$18,755  | \$35,242 |



Project Name: Foothill Dolomite Mine - Reclamation Plan

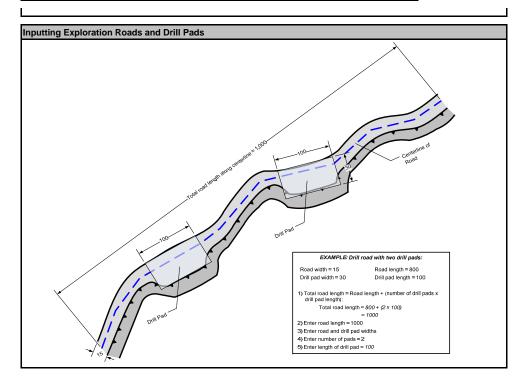
Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |         |           |           |          |
|---|---------|-----------|-----------|----------|
|   | Labor   | Equipment | Materials | Totals   |
| Grading Costs                           | \$1,376 | \$3,842   | N/A       | \$5,218  |
| Cover Placement Cost                    | \$2,271 | \$7,990   | N/A       | \$10,261 |
| Ripping/Scarifying Cost                 | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks                     | \$3,716 | \$12,009  |           | \$15,725 |
| Revegetation Cost                       | \$410   | \$352     | \$18,755  | \$19,517 |
| TOTALS                                  | \$4,126 | \$12,361  | \$18,755  | \$35,242 |



### Closure Cost Estimate Expl. Roads & Pads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| xploration Roads & Pads - Cost Summary |         |           |           |          |
|--|---------|-----------|-----------|----------|
|  | Labor   | Equipment | Materials | Totals   |
| Grading Costs                          | \$1,376 | \$3,842   | N/A       | \$5,218  |
| Cover Placement Cost                   | \$2,271 | \$7,990   | N/A       | \$10,261 |
| Ripping/Scarifying Cost                | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks                    | \$3,716 | \$12,009  |           | \$15,725 |
| Revegetation Cost                      | \$410   | \$352     | \$18,755  | \$19,517 |
| TOTALS                                 | \$4,126 | \$12,361  | \$18,755  | \$35,242 |

| Expl | Exploration Roads & Pads - Regrading Costs |                               |                                    |                           |                       |                                    |  |                              |                                  |                                  |  |  |  |
|------|--|-------------------------------|------------------------------------|---------------------------|-----------------------|------------------------------------|--|------------------------------|----------------------------------|----------------------------------|--|--|--|
|      |  |                               |                                    |                           |                       |                                    |  |                              |                                  |                                  |  |  |  |
|      | Description<br>(required)                  | Total<br>Road<br>Length<br>ft | Total<br>Drill Pad<br>Length<br>ft | Regrading<br>Volume<br>cy | Recontouring<br>Fleet | Equipment<br>Productivity<br>cy/hr | Total<br>Equipment<br>Hours <sup>(1)</sup><br>hr | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Regrading<br>Cost<br>\$ |  |  |  |
| 1    | Exploration Roads                          | 9,766                         | 860                                | 1,653                     | D6R                   | 43                                 | 40   | \$1,376                      | \$3,842                          | \$5,218                          |  |  |  |
|      |  | 9,766                         | 860                                | 1,653                     |                       |                                    | 40   | \$1,376                      | \$3,842                          | \$5,218                          |  |  |  |

<sup>(1)</sup> Includes walk-in time based on distance and travel speed (see Productivity sheet for speeds)

### **Closure Cost Estimate** Expl. Roads & Pads

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| oloration Roads & Pads - Cost Summary |         |           |           |         |
|---------------------------------------|---------|-----------|-----------|---------|
|                                       | Labor   | Equipment | Materials | Totals  |
| Grading Costs                         | \$1,376 | \$3,842   | N/A       | \$5,21  |
| Cover Placement Cost                  | \$2,271 | \$7,990   | N/A       | \$10,26 |
| Ripping/Scarifying Cost               | \$69    | \$177     | N/A       | \$24    |
| Subtotal Earthworks                   | \$3,716 | \$12,009  |           | \$15,72 |
| Revegetation Cost                     | \$410   | \$352     | \$18,755  | \$19,51 |
| TOTALS                                | \$4,126 | \$12,361  | \$18,755  | \$35,24 |

| Expl | Exploration Roads & Pads - Growth Media Costs |                                 |   |                                 |                                  |                         |                              |                                  |  |  |  |  |
|------|---|---------------------------------|---|---------------------------------|----------------------------------|-------------------------|------------------------------|----------------------------------|--|--|--|--|
|      | Description<br>(required)                     | Growth<br>Media<br>Volume<br>Cy | Growth<br>Media<br>Replacement<br>Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total<br>Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth<br>Media<br>Cost<br>\$ |  |  |  |
| 1    | Exploration Roads                             | 4,722                           | 725/966G/D7R                            | 515                             | 4                                | 11                      | \$2,271                      | \$7,990                          | \$10,261                               |  |  |  |
|      |   | 4,722                           |   |                                 |                                  | 11                      | \$2,271                      | \$7,990                          | \$10,261                               |  |  |  |

### **Closure Cost Estimate** Expl. Roads & Pads

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| oloration Roads & Pads - Cost Summary |         |           |           |         |
|---------------------------------------|---------|-----------|-----------|---------|
|                                       | Labor   | Equipment | Materials | Totals  |
| Grading Costs                         | \$1,376 | \$3,842   | N/A       | \$5,218 |
| Cover Placement Cost                  | \$2,271 | \$7,990   | N/A       | \$10,26 |
| Ripping/Scarifying Cost               | \$69    | \$177     | N/A       | \$24    |
| Subtotal Earthworks                   | \$3,716 | \$12,009  |           | \$15,72 |
| Revegetation Cost                     | \$410   | \$352     | \$18,755  | \$19,51 |
| TOTALS                                | \$4,126 | \$12,361  | \$18,755  | \$35,24 |

| Expl | oration Roads & Pads - Scarifying/Reveget | ation Cost    | s                   |              |                  |                      |                  |                       |                           |                         |                       |
|------|---|---------------|---------------------|--------------|------------------|----------------------|------------------|-----------------------|---------------------------|-------------------------|-----------------------|
|      |   |               |                     |              |                  |                      |                  |                       |                           |                         |                       |
|      | Description                               | Surface       | Ripping/ Scarifying |              | Ripping<br>Labor | Ripping<br>Equipment | Total<br>Ripping | Revegetation<br>Labor | Revegetation<br>Equipment | Revgetation<br>Material | Total<br>Revegetation |
|      | (required)                                | Area<br>acres | Fleet               | Hours<br>hrs | Costs<br>\$      | Cost<br>\$           | Costs<br>\$      | Cost<br>\$            | Cost<br>\$                | Cost<br>\$              | Cost<br>\$            |
| 1    | Exploration Roads                         | 2.93          | D7R                 | 2            | \$69             | \$177                | \$246            |                       | \$352                     | \$18,755                |                       |
|      |   | 2.93          |                     | 2            | \$69             | \$177                | \$246            | \$410                 | \$352                     | \$18,755                | \$19,517              |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Color Code Key                  |                                    |  |  |  |  |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|--|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |  |  |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |  |  |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |  |  |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |  |  |  |  |  |

Maximum slope grade allowed for dozer: 20 % (max 40%)

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Page 1 of 8 Roads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| pads - Cost Summary     |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$(    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Roads - User Input                |                          |  | You must fill in ALL green cells and relevant blue cells in this section for each road |                      |            |             |                                      |  |   |                                    |   |   |
|-----------------------------------|--------------------------|--|--|----------------------|------------|-------------|--------------------------------------|--|---|------------------------------------|---|---|
| Facility Description              | Physical (1) - MANDATORY |  |  |                      |            |             | User Overrides                       |  | Growth Media  |                                    |   |   |
| Description<br>(required) ID Code | Туре                     | Underlying<br>Ground<br>Slope<br>% grade | Ungraded<br>Slope<br>_H:1V   | Cut Slope<br>degrees | Road Width | Road Length | Slope<br>Replacement<br>Percent<br>% | Regrade Volume<br>(if calculated<br>elsewhere) | Disturbed Area<br>(if calculated<br>elsewhere)<br>acres | Growth<br>Media<br>Thickness<br>in | Haul Distance<br>from Growth<br>Media Stockpile<br>ft | Slope from<br>Road to<br>Stockpile<br>% grade |

- All Physical parameters must be input even if manual overrides for volume or area are used.
   If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
- 3. Because the work required for building roads with a dozer is similar to that required to regrade a road with a dozer, this sheet could be used to provide a rough estimate of road construction costs if a dozer is selected as the grading fleet.

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Page 2 of 8 Roads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| ads - Cost Summary      |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$(    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Road                   | ls - User Input (cont.)   |                      |                      |                             |                                     |  |  |  |  |
|------------------------|---------------------------|----------------------|----------------------|-----------------------------|-------------------------------------|--|--|--|--|
| Haul Road Safety Berms |                           |                      |                      |                             |                                     |  |  |  |  |
|                        | Description<br>(required) | Berm<br>Length<br>ft | Berm<br>Height<br>ft | Berm<br>Base<br>Width<br>ft | Berm<br>Sideslope<br>Angle<br>_H:1V | Number of<br>Berms (2)<br>(1 or 2 sides) |  |  |  |

<sup>(2)</sup> Enter 1 if berm on only one side of road, 2 if both sides of road are bermed.

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Roads - User Input (cont.) You must fill in ALL green cells and relevant blue |                           |  |   |  |  |              | cells in this section for each road            |  |                      |                   |                        |                                     |                           |
|---|---------------------------|--|---|--|--|--------------|--|--|----------------------|-------------------|------------------------|-------------------------------------|---------------------------|
|   |                           |  | Gra                                       | nding                                    |  | Growth Media |  |  | Revegetation         | Revegetation      |                        |                                     |                           |
|   | Description<br>(required) | Regrading<br>Material<br>Condition<br>(select) | Regrading<br>Material<br>Type<br>(select) | Regrading<br>Equipment Fleet<br>(select) | No. of Excavators<br>if grade >30%<br>(select) |              | Cover Placement<br>Equipment Fleet<br>(select) | Maximum<br>Fleet Size<br>(user override) | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) | Scarifying/<br>Ripping?<br>(select) | Ripping Fleet<br>(select) |

### Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

2. If original slope >30% only excavators are allowed.

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

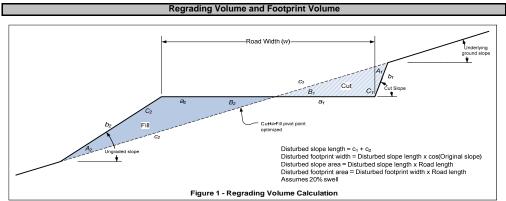
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

### Roads - Calculations



Will not allow dozer for slopes greater than 30% For dozer regrading push distance = road width Assumes dozer push is uphill

Assumes dozer push is upnili
Assumes minimum push distance of 100 ft

### Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per area Number of passes = Final slope length + Grader width Travel distance = Number of passes x Road length

Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)

For dozer regrading assumes push distance = 3 x road width

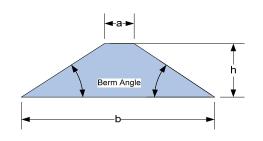
### Revegetation Calculations

Minimum of 1 acre crew time per area

### Safety Berm Volume Calculation

Cross Sectional Area =  $\frac{(a+b)}{2} \times h$ 

Berm Volume = Berm Length x Cross Sectional Area x No. Sides



Total berm volume doubled if both sides of road are bermed.

If length of berm on each side of road is different, input total length of both berms and input 1 for number of sides

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Road | ls - Regrading Costs |           |              |              |                          |       |           |                 |
|------|----------------------|-----------|--------------|--------------|--------------------------|-------|-----------|-----------------|
|      |                      |           |              |              |                          |       |           |                 |
|      |                      |           |              |              |                          | Total | Total     |                 |
|      | Description          | Regrading | Recontouring | Fleet        |                          | Labor | Equipment | Total Regrading |
|      | (required)           | Volume    | Fleet        | Productivity | <b>Total Fleet Hours</b> | Cost  | Cost      | Cost            |
|      |                      | су        |              | cy/hr        | hr                       | \$    | \$        | \$              |
|      |                      |           |              |              |                          | \$0   | \$0       | \$0             |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Road | ls - Growth Media Costs   |                              |                                      |                              |                               |                   |                              |                                  |                                     |
|------|---------------------------|------------------------------|--------------------------------------|------------------------------|-------------------------------|-------------------|------------------------------|----------------------------------|-------------------------------------|
|      |                           |                              |                                      |                              |                               |                   |                              |                                  |                                     |
|      | Description<br>(required) | Growth Media<br>Volume<br>cy | Growth Media<br>Replacement<br>Fleet | Fleet Productivity<br>LCY/hr | Number of<br>Trucks/ Scrapers | Total Fleet Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth Media<br>Cost<br>\$ |
|      |                           |                              |                                      |                              |                               |                   | \$0                          | \$0                              | \$0                                 |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |       |           |           |        |
|-------------------------|-------|-----------|-----------|--------|
|                         | Labor | Equipment | Materials | Totals |
| Grading Costs           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks     | \$0   | \$0       |           | \$0    |
| Revegetation Cost       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                  | \$0   | \$0       | \$0       | \$0    |

| Road | ls - Scarifying/Revegetation Costs |                                |                             |                              |                      |                                 |                                    |                                 |                                     |   |                                       |                                     |
|------|------------------------------------|--------------------------------|-----------------------------|------------------------------|----------------------|---------------------------------|------------------------------------|---------------------------------|-------------------------------------|---|---------------------------------------|-------------------------------------|
|      |                                    |                                |                             |                              |                      |                                 |                                    |                                 |                                     |   |                                       |                                     |
|      | Description<br>(required)          | Total Surface<br>Area<br>acres | Final Slope<br>Length<br>ft | Ripping/<br>Scarifying Fleet | Ripping Hours<br>hrs | Ripping<br>Labor<br>Costs<br>\$ | Ripping<br>Equipment<br>Cost<br>\$ | Total<br>Ripping<br>Costs<br>\$ | Revegetation<br>Labor<br>Cost<br>\$ | Revegetation<br>Equipment<br>Cost<br>\$ | Revgetation<br>Material<br>Cost<br>\$ | Total<br>Revegetation<br>Cost<br>\$ |
|      | ·                                  |                                |                             |                              |                      | \$0                             | \$0                                | \$0                             | \$0                                 | \$0                                     | \$0                                   | \$0                                 |

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### **Closure Cost Estimate** Yards, Etc.

1 of 6

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

|                             | Labor | Equipment | Materials | Totals  |
|-----------------------------|-------|-----------|-----------|---------|
| Regrading Cost              | \$0   | \$0       | N/A       | \$0     |
| Cover Placement Cost        | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost | \$138 | \$444     | N/A       | \$582   |
| Ripping/Scarifying Cost     | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks         | \$172 | \$532     |           | \$704   |
| Revegetation Cost           | \$140 | \$120     | \$1,601   | \$1,861 |
| TOTALS                      | \$312 | \$652     | \$1,601   | \$2,565 |

| Color Code Key                  |                                    |  |  |  |  |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|--|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |  |  |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |  |  |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |  |  |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |  |  |  |  |  |

| Ya | rds, Etc User Input                 |  |                  | You must fill in ALL green cells and relevant blue cells in this section for each building or facility |  |  |                          |  |   |                                    |   |   |  |
|----|-------------------------------------|--|------------------|--|--|--|--------------------------|--|---|------------------------------------|---|---|--|
|    | Facility Description                |  |                  | Physical   |  |  | Cover                    |  |   |                                    | Growth Media  |   |  |
|    | Description (required) ID Code Type |  |                  | Area<br>acres  | Average Flat Area Long Dimension (ripping distance) ft | Regrade<br>Volume<br>(calculated<br>elsewhere) | Cover<br>Thickness<br>in | Distance<br>from<br>Cover<br>Borrow Area<br>ft | Slope from<br>Facility to<br>Borrow Area<br>% grade | Growth<br>Media<br>Thickness<br>in | Distance<br>from<br>Growth Media<br>Stockpile<br>ft | Slope from<br>Facility to<br>Stockpile<br>% grade |  |
| 1  | Laydown Yard                        |  | Other Facilities | 0.25   | 100  |  | 0                        | 100  | 0.1   | 12                                 | 100   | 0.1   |  |

Notes:

1. All Physical parameters must be input even if manual overrides for volume or area are used.

2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Note: A portion of the Laydown Yard will be used during reclamation as a temporary staging area for equipment and topdressing.

Yards, Etc.

### Closure Cost Estimate Yards, Etc.

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |       |           |           |         |
|-----------------------------|-------|-----------|-----------|---------|
|                             | Labor | Equipment | Materials | Totals  |
| Regrading Cost              | \$0   | \$0       | N/A       | \$0     |
| Cover Placement Cost        | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost | \$138 | \$444     | N/A       | \$582   |
| Ripping/Scarifying Cost     | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks         | \$172 | \$532     |           | \$704   |
| Revegetation Cost           | \$140 | \$120     | \$1,601   | \$1,861 |
| TOTALS                      | \$312 | \$652     | \$1,601   | \$2,565 |

| ١       | Yards, Etc User Input (cont.) |  | You must fill in A                        | ALL green cells                             | and relevant b                        | lue cells in this                        | section for each                   | ch building or                                  | facility                              |  |                      |                   |                        |               |                           |
|---------|-------------------------------|--|---|---|---------------------------------------|--|------------------------------------|---|---------------------------------------|--|----------------------|-------------------|------------------------|---------------|---------------------------|
| Grading |                               |  |   |   |                                       | Cover                                    |                                    |   | Growth Media                          |  |                      | Revegetation      |                        |               |                           |
|         | Description<br>(required)     | Regrading<br>Material<br>Condition<br>(select) | Regrading<br>Material<br>Type<br>(select) | Regrading<br>Equipment<br>Fleet<br>(select) | Cover<br>Material<br>Type<br>(select) | Cover Placement Equipment Fleet (select) | Maximum Fleet Size (user override) | Growth<br>Media<br>Material<br>Type<br>(select) | Growth Media Equipment Fleet (select) | Maximum<br>Fleet Size<br>(user override) | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) | Scarify/ Rip? | Ripping Fleet<br>(select) |
| H       | 1 Laydown Yard                | 1  | Alluvium                                  | Small                                       | Alluvium                              | Small Truck                              | (                                  | Alluvium  | Small Truck                           | (user override)                          |                      | Straw Mulch       |                        | Yes           | Small Dozer               |

2 of 6

Yards, Etc.

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

3 of 6

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data: User Data
Cost Data File: SRCE Cost \_data-Am \_Mg \_Foothill \_Dolomite \_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |       |           |           |         |
|-----------------------------|-------|-----------|-----------|---------|
|                             | Labor | Equipment | Materials | Totals  |
| Regrading Cost              | \$0   | \$0       | N/A       | \$0     |
| Cover Placement Cost        | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost | \$138 | \$444     | N/A       | \$582   |
| Ripping/Scarifying Cost     | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks         | \$172 | \$532     |           | \$704   |
| Revegetation Cost           | \$140 | \$120     | \$1,601   | \$1,861 |
| TOTALS                      | \$312 | \$652     | \$1,601   | \$2,565 |

#### Yards, Etc. - Calculations

#### Grading Calculations

Average push distance assumed to be 2/3 of the 600 feet maximum from Catepillar Handbook or 400 feet Material assumed to be loose stockile (1.2 productivity factor)

Slope assumed to be 0 to 5% (1.0 productivity factor)

#### Cover Volume Calculation

Yard area x cover thickness

#### Ripping/Scarifying Calculations

Flat area width = Final flat area ÷ Average long dimensions

Number of passes = Flat area width + Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
Minimum 1 hr ripping/scarifying per area

#### Revegetation

Minimum 1 acre revegetation crew time per area

#### Closure Cost Estimate Yards, Etc.

4 of 6

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| ards, Etc Cost Summary      |       |           |           |         |
|-----------------------------|-------|-----------|-----------|---------|
|                             | Labor | Equipment | Materials | Totals  |
| Regrading Cost              | \$0   | \$0       | N/A       | \$0     |
| Cover Placement Cost        | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost | \$138 | \$444     | N/A       | \$582   |
| Ripping/Scarifying Cost     | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks         | \$172 | \$532     |           | \$704   |
| Revegetation Cost           | \$140 | \$120     | \$1,601   | \$1,861 |
| TOTALS                      | \$312 | \$652     | \$1,601   | \$2,565 |

|      | Yards, Etc Regrading Costs  Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) |                     |                                |                    |                                      |                     |                    |                       |                                 |                            |                              |                                  |                                  |
|------|---|---------------------|--------------------------------|--------------------|--------------------------------------|---------------------|--------------------|-----------------------|---------------------------------|----------------------------|------------------------------|----------------------------------|----------------------------------|
| 1100 | Description (required)  | Regrading<br>Volume | Dozing Distance<br>(see above) | Regrading<br>Fleet | Uncorrected Dozer Productivity cy/hr | Grade<br>Correction | Dozing<br>Material | Density<br>Correction | Total Hourly Productivity cy/hr | Total Dozer<br>Hours<br>hr | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Regrading<br>Cost<br>\$ |
| 1    | Laydown Yard  |                     |                                | D7R                |                                      |                     |                    |                       |                                 |                            | \$0                          | \$0                              | \$0<br><b>\$0</b>                |

Yards, Etc.

#### Closure Cost Estimate Yards, Etc.

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |       |           |           |         |
|-----------------------------|-------|-----------|-----------|---------|
|                             | Labor | Equipment | Materials | Totals  |
| Regrading Cost              | \$0   | \$0       | N/A       | \$0     |
| Cover Placement Cost        | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost | \$138 | \$444     | N/A       | \$582   |
| Ripping/Scarifying Cost     | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks         | \$172 | \$532     |           | \$704   |
| Revegetation Cost           | \$140 | \$120     | \$1,601   | \$1,861 |
| TOTALS                      | \$312 | \$652     | \$1,601   | \$2,565 |

| Yar | Yards, Etc Cover and Growth Media Costs |                       |                             |                                 |                                  |                      |                              |                                  |                           |                              |                       |                                 |                                  |                      |                              |                                  |                                     |
|-----|---|-----------------------|-----------------------------|---------------------------------|----------------------------------|----------------------|------------------------------|----------------------------------|---------------------------|------------------------------|-----------------------|---------------------------------|----------------------------------|----------------------|------------------------------|----------------------------------|-------------------------------------|
|     | Cover Growth Media                      |                       |                             |                                 |                                  |                      |                              |                                  |                           |                              |                       |                                 |                                  |                      |                              |                                  |                                     |
|     | Description<br>(required)               | Cover<br>Volume<br>cy | Topsoil<br>Repacement Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Cover<br>Cost<br>\$ | Growth Media<br>Volume<br>cy | Growth Media<br>Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth Media<br>Cost<br>\$ |
| 1   | Laydown Yard                            |                       |                             |                                 |                                  |                      | \$0                          | \$0                              | \$0                       | 484                          | 725/966G/D7R          | 483                             | 2                                | 1                    | \$138                        | \$444                            |                                     |
|     |   |                       |                             |                                 |                                  |                      | \$0                          | \$0                              | \$0                       | 484                          |                       |                                 |                                  | 1                    | \$138                        | \$444                            | \$582                               |

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Yards, Etc.

#### Closure Cost Estimate Yards, Etc.

6 of 6

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |       |           |           |         |
|-----------------------------|-------|-----------|-----------|---------|
|                             | Labor | Equipment | Materials | Totals  |
| Regrading Cost              | \$0   | \$0       | N/A       | \$0     |
| Cover Placement Cost        | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost | \$138 | \$444     | N/A       | \$582   |
| Ripping/Scarifying Cost     | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks         | \$172 | \$532     |           | \$704   |
| Revegetation Cost           | \$140 | \$120     | \$1,601   | \$1,861 |
| TOTALS                      | \$312 | \$652     | \$1,601   | \$2,565 |

| Ya | rds, Etc Scarifying/Revegetation Costs |                          |                              |                                 |  |  |   |  |                                     |   |                              |                                     |
|----|--|--------------------------|------------------------------|---------------------------------|--|--|---|--|-------------------------------------|---|------------------------------|-------------------------------------|
| Γ  | Description<br>(required)              | Surface<br>Area<br>acres | Area Long<br>Dimension<br>ft | Ripping/<br>Scarifying<br>Fleet | Scarifying/<br>Ripping<br>Hours<br>hrs | Scarifying/<br>Ripping<br>Labor<br>Costs<br>\$ | Scarifying/<br>Ripping<br>Equipment<br>Cost<br>\$ | Total<br>Scarifying/<br>Ripping<br>Costs<br>\$ | Revegetation<br>Labor<br>Cost<br>\$ | Revegetation<br>Equipment<br>Cost<br>\$ | Revgetation<br>Material Cost | Total<br>Revegetation<br>Cost<br>\$ |
| 1  | Laydown Yard                           | 0.25                     | 100                          | D7R                             | 1                                      | \$34   | \$88  | \$122  | \$140                               | \$120                                   | \$1,601                      | \$1,861                             |
|    |  | 0.25                     |                              |                                 | 1                                      | \$34   | \$88  | \$122  | \$140                               | \$120                                   | \$1,601                      | \$1,861                             |

Yards, Etc.

1 of 2

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Eats File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_01 Revised

| Reclamation Monitoring & Maintenance - Cost | Summary |           |                    |          |
|---|---------|-----------|--------------------|----------|
|   | Labor   | Equipment | Lab &<br>Materials | Totals   |
| Revegetation Maintenance                    | \$111   | \$95      | \$199              | \$405    |
| Erosion Maintenance                         | \$541   | \$1,624   | N/A                | \$2,165  |
| Reclamation Monitoring                      | \$8,910 | \$374     | N/A                | \$9,284  |
| Subtotal Reclamation Monitoring             | \$9,562 | \$2,093   | \$199              | \$11,854 |
| Water Quality Monitoring                    | \$0     | \$0       | \$0                | \$0      |
| TOTAL MONITORING                            | \$9,562 | \$2,093   | \$199              | \$11,854 |

| Description                                  | Total<br>Revegetation<br>Surface Area (1,2)<br>acres | % Area<br>Requiring<br>Reseeding     | Seed Mix<br>(select)                               | Area<br>Requiring<br>Reseeding<br>acres  | Seed<br>\$/acres  | Labor<br>\$/acres                  | Equipment<br>\$/acres                  | Totals<br>\$                               |
|--|--|--------------------------------------|--|--|-------------------|------------------------------------|--|--|
| Revegetation Maintenance                     | 3  | 25%                                  | User Mix 1   | 0.8                                      | \$250.00          | \$140.00                           | \$120.00                               |  |
| Labor<br>Equipment<br>Materials<br>Cost/Acre |  |                                      |  |  |                   |                                    | Subtotal                               | \$11<br>\$9<br>\$19<br>\$51<br><b>\$40</b> |
| Notes:                                       | 1) Surface area is                                   | NOT the same as                      | footprint disturba                                 | nce area typical                         | ly used for permi | tting purposes.                    |  |  |
|  |  |                                      |  |  |                   |                                    |  |  |
|  |  |                                      |  |  |                   |                                    |  |  |
|  | Total<br>Volume<br>Growth Media<br>cy                | % Volume<br>Requiring<br>Maintenance | Average<br>Growth Media<br>Placement Cost<br>\$/CY | Volume<br>Requiring<br>Replacement<br>cy |                   | Labor<br>(assume: 25%)<br>\$/acres | Equipment<br>(assume: 75%)<br>\$/acres | Total<br>\$                                |
| Erosion Maintenance                          | Volume<br>Growth Media                               | Requiring                            | Growth Media<br>Placement Cost                     | Requiring<br>Replacement                 |                   | (assume: 25%)                      | (assume: 75%)<br>\$/acres              |  |

| Reclamation Monitoring  |                |            |                    |                      |                              |                           |  |  |  |  |
|---|----------------|------------|--------------------|----------------------|------------------------------|---------------------------|--|--|--|--|
| Description   | Hrs/Day        | Days/Year  | Number of<br>Years | Rate<br>\$/hr        |                              |                           |  |  |  |  |
| Field Work  |                |            |                    |                      |                              |                           |  |  |  |  |
| Field Geologist/Engineer<br>Range Scientist   | 8              | 1          | 3                  | \$134.99<br>\$119.42 |                              | \$3,240<br>\$0            |  |  |  |  |
| Reporting   |                |            |                    |                      |                              |                           |  |  |  |  |
| Field Geologist/Engineer<br>Range Scientist   | 14             | 1          | 3                  | \$134.99<br>\$119.42 | Subtotal                     | \$5,670<br>\$0<br>\$8,910 |  |  |  |  |
| Travel  | l              |            |                    |                      | Subtotal                     | \$6,910                   |  |  |  |  |
|   | Hrs/Trip<br>hr | Trips/Year | Years              | Truck Cost<br>\$/hr  |                              |                           |  |  |  |  |
| Travel  | 4              | 1          | 3                  | \$31.13              |                              | \$374                     |  |  |  |  |
|   |                |            |                    |                      | Subtotal                     | \$374                     |  |  |  |  |
|   |                |            |                    |                      | Total Reclamation Monitoring | \$9,284                   |  |  |  |  |
| Notes: Assumes Engineer will travel from Silver City, NM Assumes 10 hours for reporting and 4 hours for mobilization and demobilization |                |            |                    |                      |                              |                           |  |  |  |  |

#### Closure Cost Estimate Monitoring

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

File Name: Att 1\_Cost 20/20/82/0 SKCE\_Version\_1\_4\_1\_01/b\_NV\_20/20 Exploration Rev Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Reclamation Monitoring & Maintenance - Cost | Summary |           |                    |          |
|---|---------|-----------|--------------------|----------|
|   | Labor   | Equipment | Lab &<br>Materials | Totals   |
| Revegetation Maintenance                    | \$111   | \$95      | \$199              | \$405    |
| Erosion Maintenance                         | \$541   | \$1,624   | N/A                | \$2,165  |
| Reclamation Monitoring                      | \$8,910 | \$374     | N/A                | \$9,284  |
| Subtotal Reclamation Monitoring             | \$9,562 | \$2,093   | \$199              | \$11,854 |
| Water Quality Monitoring                    | \$0     | \$0       | \$0                | \$0      |
| TOTAL MONITORING                            | \$9,562 | \$2,093   | \$199              | \$11,854 |

| Water and Rock Sample A | ter and Rock Sample Analysis |             |           |   |                    |            |         |                            |                       |          |               |                   |              |            |          |
|-------------------------|------------------------------|-------------|-----------|---|--------------------|------------|---------|----------------------------|-----------------------|----------|---------------|-------------------|--------------|------------|----------|
| Description             | Samples                      | Events/Year | No. Years | First Sample<br>Year<br>closure year<br>(1-100) | No. of<br>Samplers | Days/Event | Hrs/Day | Analysis Cost<br>\$/sample | Supplies<br>\$/sample | Lab Cost | Material Cost | Equipment<br>Cost | Labor Cost   | Cost<br>\$ | Comments |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | ĢL         |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               |                   |              | \$0        |          |
|                         |                              |             |           |   |                    |            |         |                            |                       | \$0.00   | \$0.00        |                   |              |            |          |
|                         |                              |             |           |   |                    |            |         |                            |                       |          |               | Subtotal Sa       | mpling Costs | \$0        | 1        |

Notes: Sampling labor cost = No. Samplers x Years x Events/year x Days/event x Hour/Day x Labor Rate Sampling equipment costs include 1 pickup truck for every two samplers

| Description              | No. of units |                   | Years         |           |   |
|--------------------------|--------------|-------------------|---------------|-----------|---|
|                          |              |                   |               | Cos<br>\$ | t |
|                          |              | Replacement       |               |           |   |
| Pump (purchased)         |              | period (yrs):     |               |           |   |
|                          |              |                   | Subtotal Fiel | d Work    |   |
| eporting<br>Description  | Hrs/Event    | Rate              | Cost          |           | _ |
|                          |              | \$/hr             | \$            |           |   |
| Field Geologist/Engineer |              |                   |               |           |   |
|                          | Su           | ubtotal Reporting |               |           |   |
| Not                      | es:          | _                 |               |           |   |
|                          |              |                   |               |           |   |
|                          |              |                   |               |           |   |
|                          |              |                   |               |           |   |
|                          |              |                   |               |           |   |
|                          |              |                   |               |           |   |

2 of 2 Monitoring

## **Closure Cost Estimate** Constr. Mgmt

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Construction Management & Road Maintenance - Cost Summary |          |           |           |          |  |  |  |
|---|----------|-----------|-----------|----------|--|--|--|
|   | Labor    | Equipment | Materials | Totals   |  |  |  |
| Construction Management                                   | \$9,979  | \$1,436   | N/A       | \$11,415 |  |  |  |
| Construction Support                                      |          | \$214     |           | \$214    |  |  |  |
| Road Maintenance  | \$4,545  | \$13,835  | \$726     | \$19,106 |  |  |  |
| TOTAL CONSTRUCTION MANAGEMENT                             | \$14,524 | \$15,485  | \$726     | \$30,735 |  |  |  |

|  |                           | Constr                 | uction Manager           | nent Staff                  |                            |                                  |                  |
|--|---------------------------|------------------------|--------------------------|-----------------------------|----------------------------|----------------------------------|------------------|
| Description                                  | Duration<br>mo.           | Hours/<br>Month<br>hr. | Number of<br>Supervisors | Supervisor<br>Rate<br>\$/hr | Labor<br>Cost<br>\$        | Equipment Cost <sup>(1)</sup> \$ | Totals<br>\$     |
| Active Reclamation  Monitoring & Maintenance | 0.5<br>36                 | 80<br>2                | 1                        | \$89.10<br>\$89.10          | \$3,564<br>\$6,415         | \$513<br>\$923                   | \$4,07<br>\$7,33 |
|  |                           | -                      |                          | Total Staff                 | \$9,979                    | \$1,436                          | 644 441          |
| Construction Manageme                        | nt Support                | Number of              |                          |                             | . ,                        | . ,                              | \$11,41          |
| Construction Manageme                        | ent Support  Duration mo. | Number of<br>Units     |                          | Rental<br>Rate<br>\$/mo     | Generator<br>Cost<br>\$/mo | Equipment Cost <sup>(1)</sup> \$ | Totals           |
| Description Temporary Office Rental          | Duration                  |                        |                          | Rental<br>Rate<br>\$/mo     | Generator<br>Cost          | Equipment Cost <sup>(1)</sup> \$ | Totals<br>\$     |
| <u> </u>                                     | Duration                  |                        |                          | Rental<br>Rate              | Generator<br>Cost          | Equipment Cost <sup>(1)</sup> \$ |                  |

| Description           | Fleet Size<br>(select) | Number         | Duration<br>mo. | Hours/<br>Month<br>hr. | Labor<br>Cost<br>\$ | Equipment<br>Cost<br>\$ | Totals<br>\$ |
|-----------------------|------------------------|----------------|-----------------|------------------------|---------------------|-------------------------|--------------|
| Active Reclamation    |                        |                |                 |                        |                     |                         |              |
| Water Truck           | Small                  | 1              | 1               | 40                     | \$1,376             | \$5,273                 | \$6,649      |
| Grader                | Small                  | 1              | 1               | 16                     | \$594               | \$1,174                 | \$1,768      |
| Monitoring & Maintena | ince                   |                |                 |                        |                     |                         |              |
| Water Truck           | Small                  | 1              | 36              | 1                      | \$1,239             | \$4,746                 | \$5,985      |
| Grader                | Small                  | 1              | 36              | 1                      | \$1,336             | \$2,642                 | \$3,978      |
| Description           | Gallons/<br>Day        | Days/<br>Month | Duration<br>mo. | Cost/<br>Gallon<br>\$  |                     |                         | Totals<br>\$ |
| Water Fees            |                        |                |                 | Ť                      |                     |                         | ·            |
| Water Fees            | 6000                   | 14             | 1               | 0.01                   |                     |                         | \$726        |
|                       | -                      | •              | Total Pro       | ject Maintenance       | \$4,545             | \$13,835                | \$19,106     |

Notes: 1) Supervisor equipment = pickup truck
Note: Assumes water from City of Demning at \$8.64 per 1,000 gallons.

1 of 1 Constr. Mgmt

### **Closure Cost Estimate Labor Rates**

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Color Code Key                  |                                    |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |  |

| ZONE ADJUSTMENTS                    |                  |             |  |
|-------------------------------------|------------------|-------------|--|
|                                     | American         |             |  |
|                                     | Magnesium -      |             |  |
| Cost Basis/Project Region           | Option 1 Revised | American Ma | gnesium - Foothill Dolomite Mine - Northern Nevada Equipment |
| Power Equipment Operators           | 0-50 miles       | \$0.00      |  |
| Truck Drivers                       | 0-50 miles       | \$0.00      |  |
| Laborers                            | 0-50 miles       | \$0.00      |  |
| INDIRECT COSTS                      |                  |             |  |
| Unemployment (%)                    | 1.84%            |             |  |
| Retirement/SS/Medicare (%)          | 7.65%            |             |  |
| Workman's Compensation (%)          | 13.30%           |             |  |
| Other Indirects                     |                  |             |  |
| State Payroll Tax (13),(15),(17),(1 |                  |             |  |
|                                     |                  |             |  |
|                                     |                  |             |  |
| Total Other Indirects               | 0.00%            |             |  |

| ## Company  | Labor Group Base Rt (\$\(\frac{1}{3}\) the second of the se | (\$/h)  3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 | Fringe<br>(\$/hr) | Retirement/<br>Medicare<br>(\$/hr)  \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14 | Workman's<br>Compensation<br>(\$/hr)<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73 | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | Total<br>(\$/hr)<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4 |
|---|---|---|---|-------------------|---|--|--|--|--|
| DOB DESCRIPTION   | Base R (\$/hr)  | Adjustment (\$/hr)  3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 0.02 \$0.00 0.02 \$0.00 0.02 \$0.00 0.02 \$0.00 0.02 \$0.00 | Wage<br>(\$/hr)<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52                          | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14                     | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73                               | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00 | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4           |
| Bulldozers  | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3<br>\$3   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00               | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4                     |
| D6R D6R W/Winch D7R D7R D8R D9R D10R D110R D11R Wheeled Dozers 824G 834G 8444 854G Motor Graders 120H 14G/H 16G/H 14G/H 16G/H 24M Track Excavators 312C 320C 325C 330C 345B   | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00               | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4                     |
| D6R w/ Winch D7R D8R D9R D10R D11R Wheeled Dozers 824G 834G 8444 854G Motor Graders 120H 14G/H 16G/H 16G/H 24M Track Excavators 312C 320C 325C 330C 345B  | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00               | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4                     |
| D7R D8R D9R D10R D11R D11R Wheeled Dozers 824G 834G 844 854G Motor Graders 120H 14G/H 16G/H 24M Track Excavators 312C 320C 329C 330C 345B 365BL   | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3  | 3.02 \$0.00<br>5.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00                              | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02  |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00                               | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4                               |
| D8R D9R D10R D10R D11R  Wheeled Dozers  824G 834G 844 854G  Motor Graders  120H 14G/H 14G/H 16G/H 24M Track Excavators  312C 320C 325C 330C 345B 345B   | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00  | \$28.02<br>\$28.02<br>\$28.02   |                   | \$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00   | \$34.4<br>\$34.4<br>\$34.4   |
| D9R D10R D11R Wheeled Dozers 824G 834G 844 854G Motor Graders 120H 14G/H 14G/H 14G/H 24M Track Excavators 312C 320C 329C 339C 345B 365BL  | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3  | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00   | \$28.02<br>\$28.02  |                   | \$0.52<br>\$0.52  | \$2.14<br>\$2.14   | \$3.73<br>\$3.73   | \$0.00<br>\$0.00   | \$34.4<br>\$34.4   |
| D10R D11R Wheeled Dozers 824G 834G 8444 854G Motor Graders 120H 14G/H 16G/H 24M Track Excavators 312C 320C 325C 330C 345B 3658L   | \$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3<br>\$3   | 8.02 \$0.00<br>8.02 \$0.00  | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| ## Wheeled Dozers  ## 824G ## 834G ## 844 ## 854G  ## Motor Graders  ## 120H ## 14G/H ## 14G/H ## 14G/H ## 17rack Excavators  ## 312C ## 329C ## 329C ## 329C ## 339C ## 348B ## 348B ## 348B ## 348B ## 348G | \$2<br>\$3<br>\$3<br>\$3<br>\$3   | 8.02 \$0.00   |   |                   |   |  |  |  |  |
| 824G<br>834G<br>844<br>854G<br>Motor Graders<br>120H<br>14G/H<br>14G/H<br>16G/H<br>24M<br>Track Excavators<br>312C<br>320C<br>329C<br>329C<br>339C<br>345B  | \$3<br>\$3  |   |   |                   |   |  |  | ψ0.00  | \$34.4   |
| 834G 844 854G Motor Graders 120H 14G/H 16G/H 24M Track Excavators 312C 326C 326C 330C 345B  | \$3<br>\$3  |   |   |                   |   |  |  |  |  |
| 844 8549  Motor Graders 120H 14G/H 14G/H 24M  Track Excavators 312C 320C 325C 330C 345B 365BL   | \$3<br>\$3  | 200   |   |                   |   |  |  |  |  |
| ## Motor Graders    120H  | \$3<br>\$3  | 000   |   |                   |   |  |  | ļ  |  |
| Motor Graders 120H  | \$3<br>\$3  | 0.001 00.00   |   |                   |   |  |  | -  |  |
| 120H 14G/H 14G/H 16G/H 24M  Track Excavators 312C 320C 325C 330C 345B 365BL   | \$3<br>\$3  | 00 00   |   |                   |   |  |  |  |  |
| 14G/H 16G/H 24M  Track Excavators 312C 329C 329C 330C 345B 365BL  | \$3<br>\$3  | 17.31 \$0.00  | \$30.23   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 16G/H 24M  Track Excavators  312C 320C 325C 330C 345B 365BL   | \$3   |   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 24M Track Excavators 312C 320C 325C 330C 345B 365BL   |   | 0.23 \$0.00   | \$30.23   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 312C<br>320C<br>325C<br>330C<br>345B<br>365BL   | φο  | 0.23 \$0.00   | \$30.23   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.12  |
| 320C<br>325C<br>330C<br>345B<br>365BL   |   |   |   |                   |   |  |  |  |  |
| 325C<br>330C<br>345B<br>365BL   | \$3   |   |   |                   | \$0.56  | \$2.31   | \$4.02   |  | \$37.12  |
| 330C<br>345B<br>365BL   |   | 0.23 \$0.00   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.12  |
| 345B<br>365BL   | \$3   |   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 365BL   |   | 0.23 \$0.00   |   |                   | \$0.56<br>\$0.56  | \$2.31<br>\$2.31   | \$4.02<br>\$4.02   | \$0.00<br>\$0.00   | \$37.1:<br>\$37.1:   |
|   |   | 0.23 \$0.00   |   |                   | \$0.56  | \$2.31   | \$4.02<br>\$4.02   | \$0.00   | \$37.12  |
|   |   | 0.23 \$0.00   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.12  |
| Scrapers  |   |   |   |                   | •   |  |  |  |  |
| 631G  | \$2   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 637G  |   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| Wheeled Loaders   |   |   |   |                   |   |  |  |  |  |
| 924G  |   | 3.02 \$0.00   |   |                   | \$0.52  | \$2.14   | \$3.73   |  | \$34.4   |
| 928G  | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 950G  |   | 3.02 \$0.00   |   |                   | \$0.52  | \$2.14   | \$3.73   |  | \$34.4   |
| 966G  | \$2   | 3.02 \$0.00<br>3.02 \$0.00  |   |                   | \$0.52  | \$2.14<br>\$2.14   | \$3.73<br>\$3.73   | \$0.00<br>\$0.00   | \$34.4°<br>\$34.4°   |
| 972G<br>980G  | \$2   |   |   |                   | \$0.52<br>\$0.52  | \$2.14<br>\$2.14   | \$3.73   | \$0.00   | \$34.4<br>\$34.4   |
| 988G  | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 990   | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 992G  | \$2   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 994D  | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   |  | \$34.4   |
| L2350   | \$2   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| Shovels   |   |   | _   |                   |   |  |  |  |  |
| PC2000<br>PC3000  |   |   |   |                   | -   |  |  | <b></b>  |  |
| PC3000<br>PC4000  |   |   |   |                   |   |  |  | <del>                                     </del>                   |  |
| PC5500  |   |   |   |                   |   |  |  |  |  |
| PC8000  |   |   |   |                   |   |  |  |  |  |
| Hydraulic Hammers   |   |   |   |                   |   |  |  |  |  |
| H-120 (fits 325)  |   |   |   |                   |   |  |  |  |  |
| H-160 (fits 345)  |   |   |   |                   |   |  |  |  |  |
| H-180 (fits 365/385)  |   |   |   |                   |   |  |  |  |  |
| Demolition Shears   |   |   |   |                   |   |  |  |  |  |
| \$340 (fits 322/325/330)  |   |   |   |                   |   |  | <u> </u>   |  |  |
| S365 (fits 330/345)   |   |   |   |                   |   |  |  |  |  |
| S390 (fits 365/385)   |   |   |   |                   |   |  |  |  |  |
| Demolition Grapples   |   |   |   |                   |   |  |  |  |  |
| G315 (fits 322/325)<br>G320 (fits 325/330)  |   |   |   |                   |   |  |  |  |  |
| G320 (fits 325/330)<br>G330 (fits 345/365)  |   |   |   |                   |   |  |  |  |  |

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### **Closure Cost Estimate Labor Rates**

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Color Code Key                  |                                    |  |  |  |
|---------------------------------|------------------------------------|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |

| ZONE ADJUSTMENTS                    |                  |              |  |
|-------------------------------------|------------------|--------------|--|
|                                     | American         |              |  |
|                                     | Magnesium -      |              |  |
| Cost Basis/Project Region           | Option 1 Revised | American Mag | gnesium - Foothill Dolomite Mine - Northern Nevada Equipment |
| Power Equipment Operators           | 0-50 miles       | \$0.00       |  |
| Truck Drivers                       | 0-50 miles       | \$0.00       |  |
| Laborers                            | 0-50 miles       | \$0.00       |  |
| INDIRECT COSTS                      |                  |              |  |
| Unemployment (%)                    | 1.84%            |              |  |
| Retirement/SS/Medicare (%)          | 7.65%            |              |  |
| Workman's Compensation (%)          | 13.30%           |              |  |
| Other Indirects                     |                  |              |  |
| State Payroll Tax (13),(15),(17),(1 |                  |              |  |
|                                     |                  |              |  |
| •                                   |                  |              |  |
| Total Other Indirects               | 0.00%            |              |  |

| Total Other Indirects                            | 0.00%                    |   |                    |                    |            |        |        |        |        |       |
|--|--------------------------|---|--------------------|--------------------|------------|--------|--------|--------|--------|-------|
|  |                          |   |                    |                    |            |        |        |        |        |       |
| OURLY LABOR RATE                                 | TABLE                    |   |                    |                    |            |        |        |        |        |       |
| Other Equipment                                  |                          |   |                    |                    |            |        |        |        |        |       |
| 420D 4WD Backhoe                                 |                          | \$28.02   | \$0.00             | \$28.02            |            | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 428D 4WD Backhoe                                 |                          | \$28.02   | \$0.00             | \$28.02            |            | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| CS533E Vibratory Roller                          |                          | \$28.02   | \$0.00             | \$28.02            |            | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| CS633E Vibratory Roller                          |                          | \$28.02   | \$0.00             | \$28.02            |            | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| CP533E Sheepsfoot Compactor                      |                          | \$28.02   | \$0.00             | \$28.02            |            | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| CP633E Sheepsfoot Compactor                      |                          | \$28.02   | \$0.00             | \$28.02            |            | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| Light Truck - 1.5 Ton                            |                          | \$0.00  |                    | \$0.00             |            | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.  |
| Supervisor's Truck                               |                          | \$0.00  |                    | \$0.00             |            | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.  |
| Flatbed Truck                                    |                          |   |                    |                    |            |        |        |        |        |       |
| Air Compressor + tools                           |                          | \$27.69   | \$0.00             | \$27.69            |            | \$0.51 | \$2.12 | \$3.68 | \$0.00 | \$34. |
| Welding Equipment                                |                          | \$27.88   | \$0.00             | \$27.88            |            | \$0.51 | \$2.13 | \$3.71 | \$0.00 | \$34. |
| Heavy Duty Drill Rig                             |                          | \$27.88   | \$0.00             | \$27.88            |            | \$0.51 | \$2.13 | \$3.71 | \$0.00 | \$34. |
| Pump (plugging) Drill Rig                        |                          | \$27.88   | \$0.00             | \$27.88            |            | \$0.51 | \$2.13 | \$3.71 | \$0.00 | \$34. |
| Concrete Pump                                    |                          |   |                    |                    |            |        |        |        |        |       |
| Gas Engine Vibrator                              |                          | \$14.03   | \$0.00             | \$14.03            |            | \$0.26 | \$1.07 | \$1.87 | \$0.00 | \$17. |
| Generator 5KW                                    |                          |   |                    |                    |            |        |        |        |        |       |
| HDEP Welder (pipe or liner)                      |                          |   |                    |                    |            |        |        |        |        |       |
| 5 Ton Crane                                      |                          | \$27.12   | \$0.00             | \$27.12            |            | \$0.50 | \$2.07 | \$3.61 | \$0.00 | \$33. |
| 20 Ton Crane                                     |                          | \$27.12   | \$0.00             | \$27.12            |            | \$0.50 | \$2.07 | \$3.61 | \$0.00 | \$33. |
| 50 Ton Crane                                     |                          | \$27.12   | \$0.00             | \$27.12            |            | \$0.50 | \$2.07 | \$3.61 | \$0.00 | \$33. |
| 120 Ton Crane                                    |                          | \$27.12   | \$0.00             | \$27.12            |            | \$0.50 | \$2.07 | \$3.61 | \$0.00 | \$33. |
| IOTES: (1) Equipment Type                        |                          |   | Dublic Works Drov  | unilina Wasa Batas | Time H     |        |        |        |        |       |
| (2) Equipment Operator Source:<br>(3) Zone Basis | •                        | WORKIOICE SOLUTIONS                               | Fublic Works Flex  | alling wage Kales  | туре п -   |        |        |        |        |       |
| (1)  | From Deming              |   |                    |                    |            |        |        |        |        |       |
| Truck Drivers (\$/hr) (4)                        |                          |   |                    |                    |            |        |        |        |        |       |
| 725  | ruck Driver > 25 yds -   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 730  | ruck Driver > 25 yds -   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 735  | ruck Driver > 25 yds -   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 740  | ruck Driver > 25 yds -   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 769D   | ruck Driver > 25 yds -   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 773E   |                          | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 777D   | ruck Driver > 60 yds -   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 785C   |                          |   |                    |                    | \$0.00     |        |        |        |        |       |
| 793C   |                          |   |                    |                    | \$0.00     |        |        |        |        |       |
| 797B   |                          |   |                    |                    | \$0.00     |        |        |        |        |       |
| 613E (5,000 gal) Water Wagon                     | ter Truck > 2,500 gall   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 621E (8,000 gal) Water Wagon                     | ter Truck > 2,500 gall   | \$28.02   | \$0.00             | \$28.02            | \$0.00     | \$0.52 | \$2.14 | \$3.73 | \$0.00 | \$34. |
| 777D Water Truck                                 |                          |   |                    |                    | \$0.00     |        |        |        |        |       |
| 785C Water Truck                                 |                          |   |                    |                    | \$0.00     |        |        |        |        |       |
| Dump Truck (10-12 yd3 )                          | ruck Driver > 8 yds <    | \$24.92   | \$0.00             | \$24.92            | \$0.00     | \$0.46 | \$1.91 | \$3.31 | \$0.00 | \$30. |
| NOTES.   |                          |   |                    |                    |            |        |        |        |        |       |
| IOTES:  (4) Truck Driver Source                  | New Mexico Department of | Workforce Solutions                               | Public Works Prov  | vailing Wage Rates | Tyne H .   |        |        |        |        |       |
|  | From Deming              | TO A TO TO SO | . GOIL TYOIRS FIEL | uming vraye ivales | .,,,,,,,,, |        |        |        |        |       |
| (5) Zone Basis                                   | . I foll belling         |   |                    |                    |            |        |        |        |        |       |

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2 of 3 Labor Rates

### **Closure Cost Estimate Labor Rates**

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Color Code Key                  |                                    |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |  |

| ZONE ADJUSTMENTS                    |                  |              |  |
|-------------------------------------|------------------|--------------|--|
|                                     | American         |              |  |
|                                     | Magnesium -      |              |  |
| Cost Basis/Project Region           | Option 1 Revised | American Mag | gnesium - Foothill Dolomite Mine - Northern Nevada Equipment |
| Power Equipment Operators           | 0-50 miles       | \$0.00       |  |
| Truck Drivers                       | 0-50 miles       | \$0.00       |  |
| Laborers                            | 0-50 miles       | \$0.00       |  |
| INDIRECT COSTS                      |                  |              |  |
| Unemployment (%)                    | 1.84%            |              |  |
| Retirement/SS/Medicare (%)          | 7.65%            |              |  |
| Workman's Compensation (%)          | 13.30%           |              |  |
| Other Indirects                     |                  |              |  |
| State Payroll Tax (13),(15),(17),(1 |                  |              |  |
|                                     |                  |              |  |
|                                     |                  |              |  |
| Total Other Indirects               | 0.00%            |              |  |

| State Payroll Tax (13),(15),(17),    | (1                     |                          |                    |                  |             |        |        |         |        |        |
|--------------------------------------|------------------------|--------------------------|--------------------|------------------|-------------|--------|--------|---------|--------|--------|
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
| otal Other Indirects                 | 0.00%                  |                          |                    |                  |             |        |        |         |        |        |
| IOURLY LABOR RATI                    | TABLE                  |                          |                    |                  |             |        |        |         |        |        |
|                                      | IABLE                  |                          |                    |                  |             |        |        |         |        |        |
| aborers (\$/hr) (6,7)                |                        |                          |                    |                  |             |        |        |         |        |        |
| General Laborer                      | Group 1                | \$23.88                  | \$0.00             | \$23.88          | \$0.00      | \$0.44 | \$1.83 | \$3.18  | \$0.00 | \$29.  |
| Skilled Laborer                      | Group 4                | \$26.14                  | \$0.00             | \$26.14          | \$0.00      | \$0.48 | \$2.00 | \$3.48  | \$0.00 | \$32.  |
| Driller's Helper                     | Group 3                | \$26.14                  | \$0.00             | \$26.14          | \$0.00      | \$0.48 | \$2.00 | \$3.48  | \$0.00 | \$32.  |
| Rodmen (reinforcing concrete)        | Group 1                | \$23.88                  | \$0.00             | \$23.88          | \$0.00      | \$0.44 | \$1.83 | \$3.18  | \$0.00 | \$29.  |
| Cement finisher                      | Group 3                | \$26.14                  | \$0.00             | \$26.14          | \$0.00      | \$0.48 | \$2.00 | \$3.48  | \$0.00 | \$32.  |
| Carpenter                            |                        | \$36.47                  | \$0.00             | \$36.47          | \$0.00      | \$0.67 | \$2.79 | \$4.85  | \$0.00 | \$44.  |
| IOTES:                               |                        |                          |                    |                  |             |        |        |         |        |        |
| (6) Laborer Source                   |                        |                          |                    |                  |             |        |        |         |        |        |
| (7) Carpenter Source                 |                        | of Workforce Solutions F | Public Works Preva | ailing Wage Rate | es Type H - |        |        |         |        |        |
| (8) Zone Basis                       | From Deming            |                          |                    |                  |             |        |        |         |        |        |
| Project Management a                 | nd Technical L         | abor (\$/hr) (9          | )                  |                  |             |        |        |         |        |        |
| Project Manager                      |                        | \$72.56                  |                    | \$72.56          | \$0.00      | \$1.34 | \$5.55 | \$9.65  | \$0.00 | \$89.  |
| Foreman                              |                        | \$67.50                  |                    | \$67.50          | \$0.00      | \$1.24 | \$5.16 | \$8.98  | \$0.00 | \$82.  |
| Field Geologist/Engineer             |                        | \$109.94                 |                    | \$109.94         | \$0.00      | \$2.02 | \$8.41 | \$14.62 | \$0.00 | \$134. |
| Field Tech/Sampler                   |                        | \$76.11                  |                    | \$76.11          | \$0.00      | \$1.40 | \$5.82 | \$10.12 | \$0.00 | \$93.  |
| Range Scientist                      |                        | \$97.25                  |                    | \$97.25          | \$0.00      | \$1.79 | \$7.44 | \$12.93 | \$0.00 | \$119. |
| Senior Planning Engineer             |                        |                          |                    |                  | \$0.00      |        |        |         |        | •      |
| Project Engineer                     |                        |                          |                    |                  | \$0.00      |        |        |         |        |        |
| Mechanic/Fitter                      |                        |                          |                    |                  | \$0.00      |        |        |         |        |        |
|                                      |                        |                          |                    |                  | \$0.00      |        |        |         |        |        |
|                                      |                        |                          |                    |                  | \$0.00      |        |        |         |        |        |
|                                      |                        |                          |                    |                  | \$0.00      |        |        |         |        |        |
|                                      |                        |                          |                    |                  | \$0.00      |        |        |         |        |        |
|                                      |                        |                          |                    |                  | ,           |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |
| -                                    | ı                      |                          |                    |                  |             |        | l e    |         |        |        |
| OTES:                                |                        |                          |                    |                  |             |        |        |         |        |        |
| (9) Project Manager:                 | R.S.Means 2020 Q2 (01: |                          |                    |                  |             |        |        |         |        |        |
| (9) Foreman Source                   |                        |                          | O&P-10%) Adjuste   | ed for Elko, NV  |             |        |        |         |        |        |
| (9) Techical Labor Sourc             |                        | for Zone, Tax and Ins.   |                    |                  |             |        |        |         |        |        |
| Other Labor Source                   |                        |                          |                    |                  |             |        |        |         |        |        |
| Other Labor Source                   | 9:                     |                          |                    |                  |             |        |        |         |        |        |
| †Additional User Markup              |                        |                          |                    |                  |             |        |        |         |        |        |
| (These are added by the user to the  | е                      |                          |                    |                  |             |        |        |         |        |        |
| base rate to account for site-specif | ic                     |                          |                    | ,                |             |        |        |         |        |        |
|                                      |                        |                          |                    |                  |             |        |        |         |        |        |

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3 of 3 Labor Rates

## Closure Cost Estimate Equipment Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm
Monthly Rental Basis:

| EQUIPMENT TYPE (1)                                     | Monthly<br>Owner/Rental<br>Rate                  | Equipment Hourly<br>Rate | Fuel/Lube/ Wear      | Total Rate             |
|--|--|--------------------------|----------------------|------------------------|
| Bulldozers   | Rate   | Rate                     | Fuer/Lube/ Wear      | Total Rate             |
| D6R  | \$7,222.35                                       | \$45.14                  | \$50.90              | \$96.0                 |
| D6R w/ Winch   | \$7,222.35                                       | \$45.14                  | \$50.90              | \$96.0                 |
| D7R<br>D8R   | \$10,466.40<br>\$20,180.00                       | \$65.42<br>\$126.13      | \$22.95<br>\$29.70   | \$88.3<br>\$155.8      |
| D9R  | \$30,100.00                                      | \$188.13                 | \$41.41              | \$229.5                |
| D10R   | \$44,500.00                                      | \$278.13                 | \$51.43              | \$329.5                |
| D11R   | \$56,234.00                                      | \$351.46                 | \$235.44             | \$586.9                |
| Nheeled Dozers<br>824G                                 | 640.040.00                                       | 6404.00                  | 6440.00              | 6007.0                 |
| 834G   | \$19,849.00<br>\$24,929.00                       | \$124.06<br>\$155.81     | \$113.00<br>\$138.70 | \$237.0<br>\$294.5     |
| 844  | \$33,734.00                                      | \$210.84                 | \$184.06             | \$394.9                |
| 854G   | \$33,802.00                                      | \$211.26                 | \$221.85             | \$433.1                |
| Motor Graders  |  |                          |                      |                        |
| 120H<br>14G/H  | \$3,964.95                                       | \$24.78<br>\$92.44       | \$48.60<br>\$94.28   | \$73.3<br>\$186.7      |
| 16G/H  | \$14,790.00<br>\$18,806.00                       | \$92.44<br>\$117.54      | \$129.63             | \$186.7                |
| 24M  | \$20,686.00                                      | \$129.29                 | \$158.47             | \$287.7                |
| rack Excavators  |  |                          |                      |                        |
| 312C   | \$5,610.00                                       | \$35.06                  | \$7.59               | \$42.6                 |
| 320C<br>325C   | \$7,750.00<br>\$10,047.96                        | \$48.44<br>\$62.80       | \$15.05<br>\$18.57   | \$63.4<br>\$81.3       |
| 330C   | \$10,047.96                                      | \$71.88                  | \$23.64              | \$95.5                 |
| 345B   | \$16,730.00                                      | \$104.56                 | \$29.42              | \$133.9                |
| 365BL  | \$23,119.00                                      | \$144.49                 | \$113.51             | \$258.0                |
| 385BL  | \$28,472.00                                      | \$177.95                 | \$134.75             | \$312.7                |
| Scrapers<br>631G                                       | \$27.700.00                                      | \$479.40                 | \$70.04              | £040.7                 |
| 631G<br>637G   | \$27,700.00<br>\$36,819.00                       | \$173.13<br>\$230.12     | \$70.61<br>\$200.40  | \$243.7<br>\$430.5     |
| Vheeled Loaders  | ψου,010.00                                       | Ψ230.12                  | Ψ200.40              | \$400.C                |
| 924G   | \$5,610.00                                       | \$35.06                  | \$19.78              | \$54.8                 |
| 928G   | \$6,530.00                                       | \$40.81                  | \$36.90              | \$77.7                 |
| 950G   | \$9,520.00                                       | \$59.50                  | \$32.45              | \$91.9                 |
| 966G<br>972G   | \$5,856.20<br>\$13,480.00                        | \$36.60<br>\$84.25       | \$37.28<br>\$43.86   | \$73.8<br>\$128.1      |
| 980G   | \$15,690.00                                      | \$98.06                  | \$61.05              | \$159.1                |
| 988G   | \$19,589.00                                      | \$122.43                 | \$151.77             | \$274.2                |
| 990  | \$28,299.00                                      | \$176.87                 | \$233.36             | \$410.2                |
| 992G   | \$47,500.00                                      | \$296.88                 | \$225.73             | \$522.6                |
| 994D<br>L2350  | \$45,175.00<br>\$82,607.00                       | \$282.34<br>\$516.29     | \$350.03<br>\$625.53 | \$632.3<br>\$1,141.8   |
| Shovels  | ψ02,007.00                                       | \$010:E0                 | ψ020.00              | ψ1,141.0               |
| PC2000   | \$70,917.00                                      | \$443.23                 | \$278.28             | \$721.5                |
| PC3000   | \$72,526.00                                      | \$453.29                 | \$345.19             | \$798.4                |
| PC4000   | \$74,135.00                                      | \$463.34                 | \$427.42             | \$890.7                |
| PC5500<br>PC8000                                       | \$81,548.00<br>\$89,703.00                       | \$509.68<br>\$560.64     | \$562.14<br>\$658.00 | \$1,071.8<br>\$1,218.6 |
| Hydraulic Hammers                                      | φου, του.υυ                                      | \$000.04                 | φοσο.σσ              | ψ1,210.0               |
| H-120 (fits 325)                                       | \$3,420.00                                       | \$21.38                  | \$11.57              | \$32.9                 |
| H-160 (fits 345)                                       | \$7,028.00                                       | \$43.93                  | \$23.24              | \$67.1                 |
| H-180 (fits 365/385)                                   | \$8,168.00                                       | \$51.05                  | \$24.96              | \$76.0                 |
| Demolition Shears                                      | 20 504.00  | 200.00                   | 200 50               | 210.5                  |
| S340 (fits 322/325/330)<br>S365 (fits 330/345)         | \$3,524.00<br>\$4,131.00                         | \$22.03<br>\$25.82       | \$20.50<br>\$25.23   | \$42.5<br>\$51.0       |
| S390 (fits 365/385)                                    | \$6,593.00                                       | \$41.21                  | \$31.61              | \$72.8                 |
| Demolition Grapples                                    |  |                          |                      |                        |
| G315 (fits 322/325)                                    |  |                          |                      | \$0.0                  |
| G320 (fits 325/330)<br>G330 (fits 345/365)             |  |                          |                      | \$0.0<br>\$0.0         |
| Other Equipment  |  |                          |                      | <b>\$</b> 0.0          |
| 420D 4WD Backhoe                                       | \$3,240.00                                       | \$20.25                  | \$22.10              | \$42.3                 |
| 428D 4WD Backhoe                                       | \$3,870.00                                       | \$24.19                  | \$22.59              | \$46.7                 |
| CS533E Vibratory Roller                                | \$4,402.00                                       | \$27.51                  | \$27.54              | \$55.0                 |
| CS633E Vibratory Roller<br>CP533E Sheepsfoot Compactor | \$4,291.00<br>\$4,085.00                         | \$26.82<br>\$25.53       | \$31.05<br>\$33.08   | \$57.8<br>\$58.6       |
| CP633E Sheepsfoot Compactor                            | \$6,588.00                                       | \$41.18                  | \$40.18              | \$81.3                 |
| Light Truck - 1.5 Ton                                  | \$2,184.00                                       | \$13.65                  | \$17.48              | \$31.1                 |
| Supervisor's Truck                                     | \$834.00   | \$5.21                   | \$7.61               | \$12.8                 |
| Flatbed Truck  | \$621.00   | \$3.88                   | \$21.62              | \$25.5                 |
| Air Compressor + tools Welding Equipment               | \$597.00<br>\$405.00                             | \$3.73<br>\$2.53         | \$5.57<br>\$6.30     | \$9.3<br>\$8.8         |
| Heavy Duty Drill Rig                                   | \$405.00<br>\$52,018.00                          | \$2.53<br>\$325.11       | \$6.30<br>\$314.83   | \$8.8<br>\$639.9       |
| Pump (plugging) Drill Rig                              | \$52,018.00                                      | \$325.11                 | \$310.45             | \$635.5                |
| Concrete Pump  | \$14,864.20                                      | \$92.90                  | \$21.90              | \$114.8                |
| Gas Engine Vibrator                                    | \$357.00   | \$2.23                   | \$3.65               | \$5.8                  |
| Generator 5KW HDEP Welder (pipe or liner)              | \$938.00<br>\$7,022.96                           | \$5.86<br>\$43.89        | \$6.87<br>\$4.38     | \$12.7<br>\$48.2       |
| 5 Ton Crane  | \$7,022.96                                       | \$43.89<br>\$44.75       | \$42.14              | \$46.2                 |
| 20 Ton Crane   | \$7,955.00                                       | \$49.72                  | \$48.28              | \$98.0                 |
| 50 Ton Crane   | \$15,154.00                                      | \$94.71                  | \$88.82              | \$183.5                |
| 120 Ton Crane  | \$28,943.00                                      | \$180.89                 | \$177.03             | \$357.9                |
| 725  | ¢0 300 0e  | \$58.13                  | \$82.89              | \$141.0                |
| 730  | \$9,300.06<br>\$14,640.00                        | \$91.50                  | \$62.31              | \$141.0                |
| 735  | \$16,730.00                                      | \$104.56                 | \$70.00              | \$174.5                |
| 740  | \$18,820.00                                      | \$117.63                 | \$74.01              | \$191.6                |
| 769D   |  |                          | \$23.86              | \$23.8                 |
| 773E<br>777D   | \$18,267.00<br>\$37,750.00                       | \$114.17<br>\$235.94     | \$160.85<br>\$325.91 | \$275.0<br>\$561.8     |
| 777D<br>785C   | \$40,948.00                                      | \$235.94<br>\$255.93     | \$325.91<br>\$366.30 | \$561.8<br>\$622.2     |
| 793C   | \$49,547.00                                      | \$309.67                 | \$470.39             | \$780.0                |
| 797B   | \$89,160.00                                      | \$557.25                 | \$817.64             | \$1,374.8              |
| 613E (5,000 gal) Water Wagon                           | \$8,726.00                                       | \$54.54                  | \$77.29              | \$131.8                |
| 621E (8,000 gal) Water Wagon                           | \$10,006.00                                      | \$62.54                  | \$103.42             | \$165.9                |
| 777D Water Truck<br>785C Water Truck                   | \$37,226.00<br>\$40,948.00                       | \$232.66<br>\$255.93     | \$321.40<br>\$366.30 | \$554.0<br>\$622.2     |
| Dump Truck (10-12 yd <sup>3</sup> )                    | \$3,752.00                                       | \$23.45                  | \$32.89              | \$56.3                 |
| IOTES:   | ψο,1 02.00                                       | \$20.40                  | <b>402.00</b>        | 400.0                  |
| (1) Power Equipment Source                             |  |                          |                      |                        |
| (2) Power Equipment Typ                                | e: Catepillar model or equ                       |                          | loader, Komatsu sho  | /els                   |
|  |  |                          |                      |                        |
| (3) Drilliing Equipment Source                         | e: RS Means Heavy Con:<br>e: RS Means Heavy Con: |                          |                      |                        |

## Closure Cost Estimate Equipment Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data: User Data

| EQUIPMENT TYPE   | PM Cost<br>Per Hour <sup>(1)</sup> | Under carriage or<br>Tires (2) | G.E.T Consumption (3) | Fuel Use Rate<br>gal/hr (4) | Cost@<br>2.19/gal   | Total Hourly<br>Equipment Cost |
|--|------------------------------------|--------------------------------|-----------------------|-----------------------------|---------------------|--------------------------------|
| Bulldozers   |                                    |                                |                       |                             |                     |                                |
| D6R w/ Winch   | \$34.60<br>\$34.60                 |                                | \$2.61<br>\$2.61      | 6.25<br>6.25                | \$13.69<br>\$13.69  | \$50.<br>\$50.                 |
| D7R  | \$2.69                             |                                | \$3.84                | 7.50                        | \$16.43             | \$22.                          |
| D8R  | \$3.49                             |                                | \$4.86                | 9.75                        | \$21.35             | \$29.                          |
| D9R  | \$3.61                             |                                | \$6.59                | 14.25                       | \$31.21             | \$41.                          |
| D10R<br>D11R   | \$3.79<br>\$160.74                 |                                | \$8.22<br>\$16.66     | 18.00<br>26.50              | \$39.42<br>\$58.04  | \$51.<br>\$235.                |
| Wheeled Dozers   | \$100.74                           |                                | \$10.00               | 20.00                       | <del>\$00.04</del>  | <b>\$200</b> .                 |
| 824G   | \$49.58                            | \$38.56                        | \$1.32                | 10.75                       | \$23.54             | \$113.                         |
| 834G   | \$59.69                            | \$49.72                        | \$1.70                | 12.60                       | \$27.59             | \$138.                         |
| 844<br>854G  | \$77.91<br>\$90.20                 | \$70.88<br>\$87.64             | \$2.42<br>\$2.40      | 15.00<br>19.00              | \$32.85<br>\$41.61  | \$184.<br>\$221.               |
| Motor Graders  |                                    |                                |                       |                             |                     |                                |
| 120H   | \$20.32                            | \$18.90                        | \$0.62                | 4.00                        | \$8.76              | \$48.                          |
| 14G/H  | \$37.21                            | \$42.00                        | \$1.38                | 6.25<br>7.50                | \$13.69             | \$94.                          |
| 16G/H<br>24M   | \$50.42<br>\$55.46                 | \$60.78<br>\$66.86             | \$2.00<br>\$2.20      | 15.50                       | \$16.43<br>\$33.95  | \$129.<br>\$158.               |
| rack Excavators  |                                    |                                |                       |                             |                     |                                |
| 312C   | \$2.14                             |                                | \$1.33                | 1.88                        | \$4.12              | \$7.                           |
| 320C   | \$2.38                             |                                | \$1.94                | 4.90                        | \$10.73             | \$15.                          |
| 325C<br>330C   | \$2.64<br>\$3.01                   |                                | \$1.48<br>\$2.67      | 6.60<br>8.20                | \$14.45<br>\$17.96  | \$18.<br>\$23.                 |
| 345B   | \$3.36                             |                                | \$2.85                | 10.60                       | \$23.21             | \$29.                          |
| 365BL  | \$80.63                            |                                | \$3.97                | 13.20                       | \$28.91             | \$113.                         |
| 385BL  | \$91.31                            |                                | \$5.11                | 17.50                       | \$38.33             | \$134.                         |
| GCTAPETS<br>631G                                       | \$3.22                             | \$32.68                        | \$1.86                | 15.00                       | \$32.85             | \$70.                          |
| 637G   | \$3.22<br>\$116.00                 | \$32.68<br>\$30.28             | \$1.86<br>\$2.11      | 23.75                       | \$32.85<br>\$52.01  | \$70.<br>\$200.                |
| /heeled Loaders  |                                    |                                |                       |                             |                     |                                |
| 924G   | \$9.33                             | \$4.24                         | \$0.19                | 2.75                        | \$6.02              | \$19.                          |
| 928G   | \$16.35                            | \$12.28                        | \$0.60                | 3.50                        | \$7.67              | \$36.                          |
| 950G<br>966G   | \$2.30<br>\$2.42                   | \$20.52<br>\$21.40             | \$0.87<br>\$0.87      | 4.00<br>5.75                | \$8.76<br>\$12.59   | \$32.<br>\$37.                 |
| 972G   | \$2.53                             | \$26.56                        | \$1.08                | 6.25                        | \$12.59             | \$43.                          |
| 980G   | \$2.57                             | \$40.64                        | \$1.41                | 7.50                        | \$16.43             | \$61.                          |
| 988G   | \$57.81                            | \$65.20                        | \$2.26                | 12.10                       | \$26.50             | \$151.                         |
| 990<br>992G  | \$85.58<br>\$11.87                 | \$106.84<br>\$130.76           | \$3.71<br>\$32.73     | 17.00<br>23.00              | \$37.23<br>\$50.37  | \$233.<br>\$225.               |
| 994D   | \$122.36                           | \$143.84                       | \$4.99                | 36.00                       | \$78.84             | \$350.                         |
| L2350  | \$203.53                           | \$268.16                       | \$9.30                | 66.00                       | \$144.54            | \$625.                         |
| hovels   |                                    |                                |                       |                             |                     |                                |
| PC2000<br>PC3000                                       | \$183.38<br>\$218.80               |                                | \$13.87<br>\$16.89    | 37.00<br>50.00              | \$81.03<br>\$109.50 | \$278.                         |
| PC4000   | \$254.21                           |                                | \$19.91               | 70.00                       | \$153.30            | \$345.<br>\$427.               |
| PC5500   | \$279.63                           |                                | \$21.90               | 119.00                      | \$260.61            | \$562.                         |
| PC8000   | \$307.59                           |                                | \$24.09               | 149.00                      | \$326.31            | \$658.                         |
| H-120 (fits 325)                                       | NI/A                               |                                | \$11.57               |                             |                     | \$11.                          |
| H-160 (fits 345)                                       | N/A<br>N/A                         |                                | \$23.24               |                             |                     | \$23.                          |
| H-180 (fits 365/385)                                   | N/A                                |                                | \$24.96               |                             |                     | \$24.                          |
| Demolition Shears                                      |                                    |                                |                       |                             |                     |                                |
| S340 (fits 322/325/330)<br>S365 (fits 330/345)         | N/A<br>N/A                         |                                | \$20.50               |                             |                     | \$20.<br>\$25.                 |
| S390 (fits 365/385)                                    | N/A                                |                                | \$25.23<br>\$31.61    |                             |                     | \$31.                          |
| Demolition Grapples                                    |                                    |                                |                       |                             |                     |                                |
| G315 (fits 322/325)                                    | N/A                                |                                |                       |                             |                     | \$0.                           |
| G320 (fits 325/330)<br>G330 (fits 345/365)             | N/A<br>N/A                         |                                |                       |                             |                     | \$0.<br>\$0.                   |
| Other Equipment  | 14/71                              |                                |                       | _                           |                     | ψ0.                            |
| 420D 4WD Backhoe                                       | \$11.81                            | \$3.18                         | \$0.54                | 3.00                        | \$6.57              | \$22.                          |
| 428D 4WD Backhoe                                       | \$12.20                            | \$3.22                         | \$0.60                | 3.00                        | \$6.57              | \$22.                          |
| CS533E Vibratory Roller                                | \$19.33                            |                                |                       | 3.75                        | \$8.21<br>\$10.40   | \$27.<br>\$31.                 |
| CS633E Vibratory Roller<br>CP533E Sheepsfoot Compactor | \$20.65<br>\$24.87                 |                                |                       | 4.75<br>3.75                | \$10.40<br>\$8.21   | \$31.<br>\$33.                 |
| CP633E Sheepsfoot Compactor                            | \$29.78                            |                                |                       | 4.75                        | \$10.40             | \$40.                          |
| Light Truck - 1.5 Ton                                  | \$8.67                             | \$5.52                         |                       | 1.50                        | \$3.29              | \$17.                          |
| Supervisor's Truck<br>Flatbed Truck                    | \$3.62<br>\$3.85                   | \$1.80<br>\$7.48               |                       | 1.00<br>4.70                | \$2.19<br>\$10.29   | \$7.<br>\$21.                  |
| Air Compressor + tools                                 | \$3.85                             | \$1.48                         | N/A                   | 1.00                        | \$10.29<br>\$2.19   | \$21.<br>\$5.                  |
| Welding Equipment                                      | \$1.92                             |                                | N/A                   | 2.00                        | \$4.38              | \$6.                           |
| Heavy Duty Drill Rig                                   | \$278.95                           |                                | \$9.60                | 12.00                       | \$26.28             | \$314.                         |
| Pump (plugging) Drill Rig<br>Concrete Pump             | \$278.95                           |                                | \$9.60<br>N/A         | 10.00                       | \$21.90<br>\$21.90  | \$310.<br>\$21.                |
| Gas Engine Vibrator                                    | \$1.46                             |                                | N/A<br>N/A            | 1.00                        | \$21.90<br>\$2.19   | \$21.<br>\$3.                  |
| Generator 5KW  | \$3.58                             |                                | N/A                   | 1.50                        | \$3.29              | \$6.                           |
| HDEP Welder (pipe or liner)                            |                                    |                                | N/A                   | 2.00                        | \$4.38              | \$4                            |
| 5 Ton Crane<br>20 Ton Crane                            | \$23.22<br>\$25.80                 | \$12.35<br>\$13.72             |                       | 3.00<br>4.00                | \$6.57<br>\$8.76    | \$42.<br>\$48.                 |
| 50 Ton Crane   | \$45.47                            | \$33.06                        |                       | 4.70                        | \$10.29             | \$88.                          |
| 120 Ton Crane  | \$80.14                            | \$85.50                        |                       | 5.20                        | \$11.39             | \$177.                         |
| rucks  |                                    |                                |                       | 0                           | 2                   |                                |
| 725<br>730   | \$28.22<br>\$2.76                  | \$41.16<br>\$44.94             | \$3.22<br>\$3.22      | 4.70<br>5.20                | \$10.29<br>\$11.39  | \$82.<br>\$62.                 |
| 735  | \$2.76                             | \$44.94<br>\$47.82             | \$3.22                | 7.35                        | \$16.10             | \$70                           |
| 740  | \$2.97                             | \$51.72                        | \$3.22                | 7.35                        | \$16.10             | \$74.                          |
| 769D   | 0.07                               | ***                            | \$3.60                | 9.25                        | \$20.26             | \$23.                          |
| 773E<br>777D   | \$47.92<br>\$95.60                 | \$83.16<br>\$189.12            | \$4.04<br>\$4.51      | 11.75<br>16.75              | \$25.73<br>\$36.68  | \$160.<br>\$325.               |
| 785C   | \$105.16                           | \$208.03                       | φ4.51                 | 24.25                       | \$53.11             | \$325.<br>\$366.               |
| 793C   | \$127.24                           | \$251.72                       |                       | 41.75                       | \$91.43             | \$470.                         |
| 797B   | \$204.78                           | \$484.20                       |                       | 58.75                       | \$128.66            | \$817.                         |
| 613E (5,000 gal) Water Wagon                           | \$45.31<br>\$50.66                 | \$18.84<br>\$20.22             |                       | 6.00                        | \$13.14<br>\$23.54  | \$77.<br>\$103                 |
| 621E (8,000 gal) Water Wagon<br>777D Water Truck       | \$50.66<br>\$95.60                 | \$29.22<br>\$189.12            |                       | 10.75<br>16.75              | \$23.54<br>\$36.68  | \$103<br>\$321                 |
| 785C Water Truck                                       | \$105.16                           | \$208.03                       |                       | 24.25                       | \$53.11             | \$366.                         |
| Dump Truck (10-12 yd3 ) (5)                            | N/A                                | \$21.50                        | N/A                   | 5.20                        | \$11.39             | \$32.                          |
| otes:  | .1                                 |                                |                       |                             |                     |                                |
| (1) PM Source<br>(2) Undercarriage Source              |                                    |                                |                       |                             |                     |                                |
| (3) G.E.T. Source                                      |                                    |                                |                       |                             |                     |                                |
|  |                                    |                                |                       | or smaller vehicles         |                     |                                |

## Closure Cost Estimate Equipment Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 1.xlsm

| Number   N  | Equipment                                  | Tire Size           | # of Tires Per Piece of Equipment | Cost<br>Per Tire | Tire Cost (1)(2) | Hours (Low/Zone A) (3) | Tire Cost per<br>Hour |
|---|--|---------------------|-----------------------------------|------------------|------------------|------------------------|-----------------------|
| DREW WINCH   NA   |  |                     |                                   |                  |                  |                        |                       |
| DECORATION   NA   |  |                     |                                   |                  |                  |                        |                       |
| DER     NA   NA   |  |                     |                                   |                  |                  |                        |                       |
| Process   | D8R  |                     |                                   | N/A              |                  |                        |                       |
| DITE     NA   |  |                     |                                   |                  |                  |                        |                       |
| Seed  |  |                     |                                   |                  |                  |                        |                       |
| 298   298   4   |  |                     |                                   | IN/A             |                  |                        |                       |
| 8346  |  | 29.5R25             | 4                                 | \$33,740.00      | \$134,960.00     | 3,500                  | \$38                  |
| SEASO   |  |                     |                                   |                  |                  |                        | \$49                  |
|   |  |                     |                                   |                  |                  |                        | \$70<br>\$87          |
| 139PC4  |  | 43/03-1443          |                                   | \$70,000.00      | \$300,740.00     | 3,300                  | φον                   |
| 1404H   |  | 13PR24              | 6                                 | \$11,025.00      | \$66,150.00      | 3,500                  | \$18                  |
| Section   Sect  | 14G/H                                      | 20.5R25             |                                   |                  |                  | 3,500                  | \$42                  |
| Table   Tabl  |  |                     |                                   | \$35,455.00      |                  |                        | \$60                  |
| 3126   NA   NA   S   S   S   S   S   S   S   S   S  |  | 23.5K25             | ь                                 | \$39,000.50      | \$234,003.00     | 3,500                  | \$66                  |
| 230C  |  |                     |                                   | N/A              |                  |                        |                       |
| NA  |  |                     |                                   |                  |                  |                        |                       |
| SASE   NA   | 325C                                       |                     |                                   |                  |                  |                        |                       |
| 1988   1989   |  |                     |                                   |                  |                  |                        |                       |
| STATE   STAT  |  |                     |                                   |                  |                  |                        |                       |
| STORED  |  |                     |                                   |                  |                  |                        |                       |
| 831G  |  | •                   |                                   |                  |                  | -                      |                       |
| The Field Loaders   | 631G                                       |                     |                                   |                  |                  |                        | \$32                  |
| 17.5R25   |  | 37.25R35            | 4                                 | \$30,280.00      | \$121,120.00     | 4,000                  | \$30                  |
| 9290  |  | 17 5005             | , ,                               | 64 770 00        | \$40,000,00      | 4.500                  |                       |
| 9896  |  |                     |                                   |                  |                  |                        | \$4<br>\$12           |
| 9866  |  |                     |                                   |                  |                  |                        | \$12<br>\$20          |
| 9726  | 966G                                       | 26.5R25             | 4                                 | \$24,075.00      | \$96,300.00      | 4,500                  | \$21                  |
| 9896   \$365-33   4   \$73,350,00   \$233,400,00   4,500   \$8,900   4,12570-39   4   \$120,195,00   \$48,00   \$10,00              | 972G                                       |                     |                                   | \$29,880.00      | \$119,520.00     | 4,500                  | \$26                  |
| 990   |  |                     |                                   |                  |                  |                        | \$40                  |
| 992G  |  |                     |                                   |                  |                  |                        | \$65<br>\$106         |
| 9940   55989R67   4   \$161,815,50   \$47,262.00   4,500   \$12.  |  |                     |                                   |                  |                  |                        | \$130                 |
| PC-2000   |  |                     |                                   | \$161,815.50     | \$647,262.00     |                        | \$143                 |
| PC2000  |  | 55/85R57            | 4                                 | \$301,680.00     | \$1,206,720.00   | 4,500                  | \$268                 |
| PC3000   NNA   PC5000  |  |                     | 1                                 | NIA              |                  |                        |                       |
| PC4000  |  |                     |                                   |                  |                  |                        |                       |
| MA  |  |                     |                                   |                  |                  |                        |                       |
|   |  |                     |                                   |                  |                  |                        |                       |
| H-120 (Ris 345)   |  |                     |                                   | N/A              |                  |                        |                       |
| H-160 (its 345)   |  | 1                   | 1                                 | NI/A             |                  |                        |                       |
| MA  |  |                     |                                   |                  |                  |                        |                       |
| \$340 (fits 322/325330) \$303(45) \$303(45) \$N/A \$ \$300 (fits 365:365) \$N/A \$ \$300 (fits 365:365) \$N/A \$ \$303 (fits 345:335) \$N/A \$ \$330 (fits 345:335) \$N/A \$ \$N/A \$ \$303 (fits 345:335) \$N/A \$ \$N/A \$ \$303 (fits 345:335) \$N/A \$ \$N/A \$ \$303 (fits 345:335) \$N/A \$ \$300 (fits 345:335) \$N/A \$ \$N/A \$ \$300 (fits 345:335) \$N/A \$ \$N/A \$ \$000 (fits 345:335) \$N/A |  |                     |                                   |                  |                  |                        |                       |
| S385 (file 330/345)   |  |                     |                                   |                  |                  |                        |                       |
| Sa90 (fits 365/365)   N/A   |  |                     |                                   |                  |                  |                        |                       |
| NA   Separation   | S365 (fits 330/345)<br>S390 (fits 365/385) |                     |                                   |                  |                  |                        |                       |
| S315 (fits 322/325)   |  |                     |                                   |                  |                  |                        |                       |
| MA  |  |                     |                                   |                  |                  |                        |                       |
| ### 24200 4WD Backhoe   |  |                     |                                   |                  |                  |                        |                       |
| 4200 4V/D Backhoe   |  |                     |                                   | N/A              |                  |                        |                       |
| 428D 4VID Backhoe   340/80R18-16.9R28   2   \$4,830.00   \$9,660.00   3,000   \$1,000                 |  | 340/80R18-19 5I R24 | 2                                 | \$4 770 00       | \$9.540.00       | 3,000                  | \$3                   |
| CSS33E Vibratory Roller   |  |                     |                                   |                  |                  |                        | \$3                   |
| CP633E Sheepstont Compactor   |  |                     |                                   |                  |                  |                        |                       |
| CP633E Sheepsloot Compactor   Light Truck - 1.5 Ton   |  |                     |                                   |                  |                  |                        |                       |
| Light Truck - 1,5 Ton   |  |                     |                                   |                  |                  |                        |                       |
| Supervisor's Truck   4  |  |                     | 4                                 |                  | \$16,560.00      | 3.000                  | \$5                   |
| Air Compressor + tools   N/A   Welding Equipment   N/A   S0.00   3.000   Heavy Duty Drill Rig   | Supervisor's Truck                         |                     | 4                                 | 1350             | \$5,400.00       |                        | \$1                   |
| Welding Equipment   |  |                     | 22                                |                  | \$22,440.00      | 3,000                  | \$7                   |
| Heavy Dury Drill Rig  |  |                     |                                   |                  |                  |                        |                       |
| Pump (plugging) Drill Rig         4         \$0.00         3,000           Concrete Pump         N/A         N/A           Gas Engine Vibrator         N/A         N/A           Generator SKW         N/A         N/A           MEDE Welder (pipe or liner)         N/A         S37,044.00         3,000         \$1           5 Ton Crane         4         \$9,261.00         \$37,044.00         3,000         \$1           20 Ton Crane         4         \$10,290.00         \$41,160.00         3,000         \$5           20 Ton Crane         6         \$16,530.00         \$99,180.00         3,000         \$5           120 Ton Crane         6         \$42,750.00         \$25,500.00         3,000         \$5           120 Ton Crane         6         \$13,720.00         \$82,820.00         2,000         \$6           725         23,5R25         6         \$11,980.00         \$89,880.00         2,000         \$6           730         23,5R25         6         \$15,940.00         \$89,8640.00         2,000         \$6           740         29,5R25         6         \$17,240.00         \$103,440.00         \$0           779E         24,00R35         6         \$69,300.00  |  |                     | 4                                 | INA              | \$0.00           | 3,000                  |                       |
| Concrete Pump   |  |                     |                                   |                  |                  |                        |                       |
| Senerator SKW   | Concrete Pump                              |                     |                                   |                  |                  | _                      |                       |
| MDEP Welder (pipe or liner)   |  |                     |                                   |                  |                  |                        |                       |
| \$ 5 Ton Crane  |  |                     |                                   |                  |                  |                        |                       |
| 20 Ton Crane  |  |                     | 4                                 |                  | \$37.044.00      | 3,000                  | \$12                  |
| 50 Ton Crane  | 20 Ton Crane                               |                     | 4                                 | \$10,290.00      | \$41,160.00      | 3,000                  | \$13                  |
|   | 50 Ton Crane                               |                     |                                   | \$16,530.00      |                  |                        | \$33                  |
| 725         23 5R25         6         \$13,720,00         \$82,320,00         2,000         \$9.           730         23 5R25         6         \$14,880,00         \$88,880,00         2,000         \$9.           735         26,5825         6         \$15,940,00         \$95,640,00         2,000         \$9.           740         29,5825         6         \$17,240,00         \$103,440,00         2,000         \$1.           769D         18,00833         6         \$96,900,00         \$10,440,00         2,000         \$1.           773E         24,00835         6         \$89,300,00         \$41,580,00         5,000         \$1.           785C         33,00R51         6         \$136,888,00         \$94,560,00         5,000         \$2.           787B         40,00857         6         \$167,812,00         \$1,008,674,00         \$2.           787B         40,00857         6         \$182,2800,00         \$1,008,674,00         \$2.           787B         40,00857         6         \$322,800,00         \$1,308,600,00         4,000         \$2.           787B         40,00857         6         \$322,800,00         \$1,308,600,00         4,000         \$3.           621E (8,000   |  |                     | б                                 | \$42,750.00      | \$256,500.00     | 3,000                  | \$85                  |
| 730         23.5R25         6         \$14,980.00         \$89,880.00         2.000         \$  |  | 23 5R26             | 6                                 | \$13,720,00      | \$82 320 00      | 2 000                  | \$41                  |
| 735         26.5R25         6         \$15.940.00         \$96.640.00         2.000         \$4.740           740         29.5R25         6         \$17.240.00         \$103.440.00         2.000         \$5.7680           768D         18.00R33         6         \$0.00         \$0.000         <  |  |                     |                                   |                  |                  |                        | \$44                  |
| 740 29.5R25 6 \$17,240.00 \$103,440.00 2,000 \$\$ 7789D 18.00R33 6 \$0.00 \$0.00 \$1 779E 24.00R35 6 \$69,300.00 \$415,800.00 5.000 \$\$ 777D 27.00R49 6 \$157,600.00 \$945,600.00 5.000 \$1 786C 33.00R51 6 \$138,868.00 \$93,2128.0 \$1 793C 40.00R57 6 \$167,812.48 \$1,006,874.88 4,000 \$22 793C 40.00R57 6 \$167,812.48 \$1,006,874.88 4,000 \$22 797B 40,00R57 6 \$322,800.00 \$1,398,600.00 4,000 \$44 80.00R57 6 \$322,800.00 \$13,938,600.00 4,000 \$44 80.00R57 6 \$322,800.00 \$13,938,600.00 \$10,000 \$44 80.00R57 6 \$322,800.00 \$13,938,600.00 \$10,000 \$44 80.00R57 6 \$18,840.00 \$113,040.00 \$13,000 \$13,000 \$10          | 735  |                     |                                   |                  | \$95,640.00      |                        | \$47                  |
| 773E         24,00R35         6         \$69,300.00         \$415,800.00         5,000         \$85           777D         27,00R49         6         \$157,600.00         \$945,600.00         5,000         \$118           785C         33,00R51         6         \$136,888.00         \$832,128.00         \$4,000         \$22           793C         40,00R57         6         \$167,812.48         \$1,006,874.88         4,000         \$22           797B         40,00R57         6         \$322,800.00         \$1,336,800.00         4,000         \$46           613E (5,000 gal) Water Wagon         23,5R25         6         \$18,840.00         \$130,400.00         6,000         \$110,400.00         \$100,400.  | 740  |                     | 6                                 |                  | \$103,440.00     | 2,000                  | \$51                  |
| 777D         27.00R49         6         \$157,600.00         \$945,600.00         5.000         \$118           785C         33.00R51         6         \$138,688.00         \$832,128.00         4.000         \$2           793C         40.00R57         6         \$167,812.48         \$1,006,874.88         4.000         \$2           797B         40.00R57         6         \$322,800.00         \$1,39,800.00         4,000         \$44           613E (6,000 gal) Water Wagon         23,582.5         6         \$18,840.00         \$113,040.00         \$6           621E (8,000 gal) Water Wagon         33,25R29         6         \$38,960.00         \$233,760.00         8,000         \$7           777D Water Truck         27,00R49         6         \$157,600.00         \$842,600.00         500         \$118           785C Water Truck         33,00R51         6         \$138,640.00         \$832,128.00         4,000         \$20  |  |                     |                                   | eco 200 22       |                  |                        | 600                   |
| 785C         33.00R51         6         \$138.688.00         \$832.128.00         4.000         \$22           793C         40.00R57         6         \$167.8124.8         \$1.008.674.8         4.000         \$22           797B         40.00R57         6         \$322.200.00         \$19.86.00.00         4.000         \$44           613E (5.000 gal) Water Wagon         23.5R25         6         \$18,640.00         \$113.040.00         6.000         \$1           62TE (8.000 gal) Water Wagon         33.25R29         6         \$38,960.00         \$233.760.00         8.00         \$27.77D Water Truck         27.00R49         6         \$157,600.00         \$832,128.00         5.000         \$118.00         \$10.00         \$1   |  |                     |                                   |                  |                  |                        | \$83<br>\$189         |
| 793C         40.00R57         6         \$167.812.48         \$1.008.874.88         4.000         \$22           797B         40.00R57         6         \$322,800.00         \$1,936,800.00         4.000         \$46           613E (5,000 gal) Water Wagon         23.5R25         6         \$18,840.00         \$113,040.00         6.000         \$15           621E (8,000 gal) Water Wagon         33.25R29         6         \$38,980.00         \$23,760.00         8,000         \$2           77TD Water Truck         27,00R49         6         \$157,600.00         \$945,600.00         \$0.00         \$11           78SC Water Truck         33.00R51         6         \$138,688.00         \$832,128.00         4,000         \$26   |  |                     |                                   |                  |                  |                        | \$208                 |
| 797B         40.00R57         6         \$322,800.00         \$1,396,800.00         4,000         \$44           6 6132 (5.000 gal) Water Wagon         23.5R25         6         \$18,840.00         \$113,040.00         \$10<  | 793C                                       | 40.00R57            |                                   | \$167,812.48     | \$1,006,874.88   | 4,000                  | \$251                 |
| 621E (8,000 gal) Water Wagon         33.25R29         6         \$38,960.00         \$233,760.00         8,000         \$277D Water Truck         27,00R49         6         \$157,600.00         \$945,600.00         5,000         \$118           785C Water Truck         33,00R51         6         \$136,688.00         \$832,128.00         4,000         \$20           820 Year Truck         33,00R51         6         \$136,688.00         \$832,128.00         4,000         \$20  | 797B                                       |                     | 6                                 | \$322,800.00     | \$1,936,800.00   |                        | \$484                 |
| 777D Water Truck         27.00R49         6         \$157,600.00         \$945,600.00         5,000         \$18           785C Water Truck         33.00R51         6         \$138,688.00         \$32,128.00         4,000         \$20  |  |                     |                                   |                  |                  |                        | \$18                  |
| 785C Water Truck 33.00R51 6 \$138,688.00 \$832,128.00 4,000 \$20  |  |                     |                                   |                  |                  |                        | \$29<br>\$189         |
|   |  |                     |                                   |                  |                  |                        | \$208                 |
|   | Dump Truck (10-12 yd3 )                    |                     | 10                                | \$12,900.00      | \$129,000.00     | 6,000                  | \$21                  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev

Model Version: Version 1.4.1

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

|   | Seed Mixes            |           |                      |  |  |  |  |  |
|---|-----------------------|-----------|----------------------|--|--|--|--|--|
| Seed Mix                                      |                       |           |                      |  |  |  |  |  |
|   |                       |           |                      |  |  |  |  |  |
| None  |                       |           |                      |  |  |  |  |  |
| Mix 1   | Basins                |           | \$302.50             |  |  |  |  |  |
| Mix 2   | Low Hills             |           | \$332.75             |  |  |  |  |  |
| Mix 3   | Uplands               |           | \$363.00             |  |  |  |  |  |
| ∕lix 4  | Riparian or Custom    |           | \$393.25             |  |  |  |  |  |
| User Mix 1                                    | Site Specific Seed Mi | х         | \$250.00             |  |  |  |  |  |
| User Mix 2                                    |                       |           |                      |  |  |  |  |  |
| User Mix 3                                    |                       |           |                      |  |  |  |  |  |
| User Mix 4                                    | Coat/llb              | Uha/A aua | Cootthana            |  |  |  |  |  |
|   | Cost/lb               | lbs/Acre  | Cost/Acre            |  |  |  |  |  |
| User Mix 5 (from Seed Mix sheet)              |                       | \$9.18    | \$0.00               |  |  |  |  |  |
| Notes:  |                       |           |                      |  |  |  |  |  |
|   |                       |           |                      |  |  |  |  |  |
|   |                       |           |                      |  |  |  |  |  |
|   |                       |           |                      |  |  |  |  |  |
|   |                       |           |                      |  |  |  |  |  |
|   | Mulch                 |           |                      |  |  |  |  |  |
| ltem  | Mulch<br>Cost/lb      | lbs/Acre  | Cost/Acre            |  |  |  |  |  |
| Item  |                       | lbs/Acre  | Cost/Acre            |  |  |  |  |  |
|   |                       | Ibs/Acre  | Cost/Acre            |  |  |  |  |  |
| None  |                       | Ibs/Acre  | Cost/Acre \$6,150.83 |  |  |  |  |  |
| lone<br>Straw Mulch                           | Cost/lb               |           |                      |  |  |  |  |  |
| lone<br>traw Mulch<br>ydro Mulch              | Cost/lb \$0.17        |           |                      |  |  |  |  |  |
| Item None Straw Mulch Hydro Mulch imber Mulch | Cost/lb \$0.17        |           |                      |  |  |  |  |  |
| lone<br>straw Mulch<br>lydro Mulch            | Cost/lb \$0.17        |           |                      |  |  |  |  |  |
| lone<br>Straw Mulch<br>Hydro Mulch            | Cost/lb \$0.17        |           |                      |  |  |  |  |  |
| lone<br>straw Mulch<br>lydro Mulch            | Cost/lb \$0.17        |           |                      |  |  |  |  |  |
| one<br>traw Mulch<br>ydro Mulch<br>nber Mulch | \$0.17<br>\$0.25      |           |                      |  |  |  |  |  |
| one<br>traw Mulch<br>ydro Mulch               | \$0.17<br>\$0.25      | 36300     | \$6,150.83           |  |  |  |  |  |
| one<br>traw Mulch<br>ydro Mulch<br>mber Mulch | \$0.17<br>\$0.25      | 36300     | \$6,150.83           |  |  |  |  |  |
| one<br>traw Mulch<br>ydro Mulch<br>mber Mulch | \$0.17<br>\$0.25      | 36300     | \$6,150.83           |  |  |  |  |  |
| one<br>traw Mulch<br>ydro Mulch<br>nber Mulch | \$0.17<br>\$0.25      | 36300     | \$6,150.83           |  |  |  |  |  |
| one<br>raw Mulch<br>ydro Mulch<br>nber Mulch  | \$0.17<br>\$0.25      | 36300     | \$6,150.83           |  |  |  |  |  |

1 of 5 Material Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev

**Model Version: Version 1.4.1** 

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

|                | Amendment          | S                       |                        |
|----------------|--------------------|-------------------------|------------------------|
| Item           | Cost/lb            | lbs/Acre                | Cost/Acre              |
|                |                    |                         |                        |
| None           |                    |                         |                        |
| Organic Matter | \$0.70             |                         | \$0.00                 |
| Treated Sludge |                    |                         |                        |
| Chemical       | \$0.59             |                         | \$0.00                 |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |
| Notes:         | Western Nevada Sur | oply \$29.34 per 50 lb. | bag 15-15-15 (June 20. |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |
|                |                    |                         |                        |

2 of 5

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev

Model Version: Version 1.4.1

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Well Abandonment Materials  |               |       |            |  |  |  |  |  |  |
|-----------------------------|---------------|-------|------------|--|--|--|--|--|--|
| Description                 | Cost/50lb bag | Units | Cost/unit* |  |  |  |  |  |  |
| Cement                      | \$7.57        | су    | \$36.07    |  |  |  |  |  |  |
| Grout (Low Grade Bentonite) | \$8.85        | су    | \$42.14    |  |  |  |  |  |  |
| Inert Material/Cuttings     |               | су    |            |  |  |  |  |  |  |
|                             |               | су    |            |  |  |  |  |  |  |
|                             |               | су    |            |  |  |  |  |  |  |

(1) Jentech Drilling Supply quote (June 2020) Type I,II Cement at \$14.24 per 94 lb. bag

(2) Jentech Drilling Supply (June 2020) 3/8 in. Chunk Bentonite Hole Plug at \$8.85 per 50 lb. bag (5.75 cf/bag at 4

Assumes 1 bag mixes with water to make 0.21 y3 or 0.16 m3 of grout/cement slurry.

| Monitoring Costs                  |                      |            |
|-----------------------------------|----------------------|------------|
| Description                       | Units                | Cost/unit  |
|                                   |                      |            |
| Monitor Well Pump                 | ea.                  | \$2,788.41 |
| Sampling Supplies                 | ea.                  | \$6.51     |
|                                   |                      |            |
| Water Analysis (Profile I) (1)    | ea.                  | \$411.00   |
| Leach Test (MWMP) w/ analysis     | ea.                  | \$483.40   |
| ABA + S speciation                | ea.                  | \$150.00   |
| WAD Cyanide in water              | ea.                  | \$56.00    |
| Water Analysis (Profile II) (1)   | ea.                  | \$461.00   |
|                                   | ea.                  |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |
| (1) WET Lab, Reno, Nevada (July 2 |                      |            |
| Well pump and Sample supply cost  | ts adjusted to 2020. |            |
| Original source unknown.          |                      |            |
|                                   |                      |            |
|                                   |                      |            |
|                                   |                      |            |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev

Model Version: Version 1.4.1

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Fuel, Etc.                            |                     |                          |  |  |  |  |  |  |
|---------------------------------------|---------------------|--------------------------|--|--|--|--|--|--|
| Description                           | Units               | Cost/unit                |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
| Off-road Diesel - delivered (1)       | \$/gal              | \$2.190                  |  |  |  |  |  |  |
| Pickup Truck Mileage                  | \$/mi               | \$0.575                  |  |  |  |  |  |  |
| Electical Power                       | \$/kWh              | \$0.079                  |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
|                                       |                     |                          |  |  |  |  |  |  |
| (1) Source: Oil Price Infomration Ser | rvice average annua | al cost including freigh |  |  |  |  |  |  |

(1) Source: Oil Price Infomration Service, average annual cost including freight to Nevada (July 2020).

Source: Federal Government Vehicle Allowance Rate 2020
Source: NV Energy (July 2020) \$0.07872

4 of 5 Material Costs

| Revegetation Method        |                         |                           |                        |                    |  |  |  |  |  |
|----------------------------|-------------------------|---------------------------|------------------------|--------------------|--|--|--|--|--|
| Slopes                     |                         |                           |                        |                    |  |  |  |  |  |
| Disturbance Type           | Seed Application Method | <b>Labor</b><br>Cost/Acre | Equipment<br>Cost/Acre | Total<br>Cost/Acre |  |  |  |  |  |
| Waste Rock Dumps           | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Heap Leach                 | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Tailings                   | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Quarries & Borrow Pits     | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
|                            | Flat Areas and Und      | ifferentiated             |                        |                    |  |  |  |  |  |
| Disturbance Type           | Seed Application Method | <b>Labor</b><br>Cost/Acre | Equipment<br>Cost/Acre | Total<br>Cost/Acre |  |  |  |  |  |
| Exploration Trenches       | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Exploration Roads          | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Waste Rock Dumps           | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Heap Leach                 | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Tailings                   | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Quarries & Borrow Pits     | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Roads                      | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Pits                       | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Haul Material              | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Foundations & Buildings    | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Sediment & Drainge Control | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Process Ponds              | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Landfills                  | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Yards, Etc.                | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |
| Revegetation Maintenance   | Drill                   | \$140.00                  | \$120.00               | \$260.0            |  |  |  |  |  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Revegetation  | vegetation             |             |            |                 |                      |           |          |           |          |       |  |
|---|------------------------|-------------|------------|-----------------|----------------------|-----------|----------|-----------|----------|-------|--|
|   | Means Number           | Unit        | Crew       | Daily<br>Output | Daily Output<br>User | Materials | Labor    | Equipment | Total    | Notes |  |
| Seeding - Broadcast Hand (1)                        |                        | acres       |            |                 |                      |           | \$140.00 |           | \$190.00 |       |  |
| Seeding - Broadcast Mechanical (1)                  |                        | acres       |            |                 |                      |           | \$140.00 | \$50.00   | \$190.00 |       |  |
| Seeding - Drill (1)                                 |                        | acres       |            | 365             |                      |           | \$140.00 | \$120.00  | \$260.00 |       |  |
| Seeding - Hydroseeding (1)                          |                        |             |            | 365             |                      |           | \$250.00 | \$150.00  | \$400.00 |       |  |
| Shrub Planting - bare root 6-10 in (150- 250mm) (2) | 02910-400-0561         | ea.         | 1 Clab     | 365             |                      |           |          |           | \$0.00   |       |  |
| Tree Planting - bare root 11-16 in (270- 400mm) (3) | 02910-400-0562         | ea.         | 1 Clab     | 260             |                      |           |          |           | \$0.00   |       |  |
| Cactus Planting (4)                                 |                        | ea.         | 1 Clab     |                 |                      |           |          |           | \$0.00   |       |  |
| NOTES:  |                        |             |            |                 |                      |           |          |           |          |       |  |
| (1) Seeding Source:                                 | Source: Kelley Erosion | Control (Ju | ıly 2020). |                 |                      |           |          |           |          |       |  |
| (2) Shrub Source:                                   | (2) Shrub Source:      |             |            |                 |                      |           |          |           |          |       |  |
| (3) Tree Source:                                    |                        |             |            |                 |                      |           |          |           |          |       |  |
| (4) Cactus Source:                                  |                        |             |            |                 |                      |           |          |           |          |       |  |

### **Building and Wall Demolition**

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data . All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

|                            | Means Number   | Unit | Crew   | Daily<br>Output | Daily Output<br>User | Labor   | Equipment | Premium | Total   | Notes |  |  |
|----------------------------|----------------|------|--------|-----------------|----------------------|---------|-----------|---------|---------|-------|--|--|
| uilding Demolition         |                |      |        |                 |                      |         |           |         |         |       |  |  |
| Lg. steel                  | 02220-110-0012 | C.F. | B-8    | 21500           |                      | \$0.10  | \$0.11    |         | \$0.21  |       |  |  |
| Lg. concrete               | 02220-110-0050 | C.F. | B-8    | 15300           |                      | \$0.14  | \$0.15    |         | \$0.29  |       |  |  |
| Lg. masonry                | 02220-110-0080 | C.F. | B-8    | 20100           |                      | \$0.11  | \$0.11    |         | \$0.22  |       |  |  |
| Lg. mixed                  | 02220-110-0100 | C.F. | B-8    | 20100           |                      | \$0.11  | \$0.11    |         | \$0.22  |       |  |  |
| Sm. steel                  | 02220-110-0500 | C.F. | B-3    | 14800           |                      | \$0.13  | \$0.10    |         | \$0.23  |       |  |  |
| Sm. concrete               | 02220-110-0600 | C.F. | B-3    | 11300           |                      | \$0.17  | \$0.13    |         | \$0.30  |       |  |  |
| Sm. masonry                | 02220-110-0650 | C.F. | B-3    | 14800           |                      | \$0.13  | \$0.10    |         | \$0.23  |       |  |  |
| Sm. wood                   | 02220-110-0700 | C.F. | B-3    | 14800           |                      | \$0.13  | \$0.10    |         | \$0.23  |       |  |  |
|                            |                |      |        |                 |                      |         |           |         |         |       |  |  |
| Wall Demolition            |                |      |        |                 |                      |         |           |         |         |       |  |  |
| Block 4 in (100 mm) thick  | 02220-130-2000 | S.F. | 1 Clab | 180             |                      | \$1.30  | \$0.00    | 20%     | \$1.56  |       |  |  |
| Block 6 in (150 mm) thick  | 02220-130-2040 | S.F. | 1 Clab | 170             |                      | \$1.38  | \$0.00    | 20%     | \$1.66  |       |  |  |
| Block 8 in (200 mm) thick  | 02220-130-2080 | S.F. | 1 Clab | 150             |                      | \$1.56  | \$0.00    | 20%     | \$1.87  |       |  |  |
| Block 12 in (300 mm) thick | 02220-130-2100 | S.F. | 1 Clab | 150             |                      | \$1.56  | \$0.00    | 20%     | \$1.87  |       |  |  |
| Conc 6 in (150 mm) thick   | 02220-130-2400 | S.F. | B-9    | 160             |                      | \$11.71 | \$0.47    | 10%     | \$13.40 |       |  |  |
| Conc 8 in (200 mm) thick   | 02220-130-2420 | S.F. | B-9    | 140             |                      | \$13.38 | \$0.53    | 10%     | \$15.30 |       |  |  |
| Conc 10 in (250 mm) thick  | 02220-130-2440 | S.F. | B-9    | 120             |                      | \$15.61 | \$0.62    | 10%     | \$17.85 |       |  |  |
| Conc 12 in (300 mm) thick  | 02220-130-2500 | S.F. | B-9    | 100             |                      | \$18.73 | \$0.74    | 10%     | \$21.42 |       |  |  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal   |                         |             |             |            |           |       |           |       |       |
|--|-------------------------|-------------|-------------|------------|-----------|-------|-----------|-------|-------|
| Unit rates from Means Heavy Construction 2006 Edition I    | by permission of R.S.Me | ans/Reed    | Construct   | ion Data . |           |       |           |       |       |
| ,  |                         |             |             | Daily      |           |       |           |       |       |
|  | Means Number            | Unit        | Crew        | Output     | Materials | Labor | Equipment | Total | Notes |
| Rubbish Handling   |                         |             |             |            |           |       |           |       |       |
| Dumpster delivery (average for all sizes)                  |                         | ea.         |             |            | \$51.50   |       |           | \$51  | .50   |
| Haul (average for all sizes)                               |                         | ea.         |             |            | \$161.00  |       |           | \$161 |       |
| Rent per month (average for all sizes)                     |                         | ea.         |             |            | \$55.00   |       |           | \$55  |       |
| Disposal fee per ton (tonne) (average for all sizes)       | 02220-350-0950          | ton         |             |            | \$60.50   |       |           | \$60  | .50   |
| NOTES:   |                         |             |             |            |           |       |           |       | _     |
|  | R.S. Means Heavy Cons   |             |             |            |           |       |           |       |       |
| Dumpster Disposal Fee Source:                              |                         | struction ( | 2020 Q2).   |            |           |       |           |       |       |
| Hazardous Material Handling - Solids (+ Liqui              | •                       |             |             |            |           |       |           |       |       |
| Pickup fees 55 gal (200 L). drums                          |                         | ea.         |             |            | \$251.00  |       |           | \$251 |       |
| Bulk material (average)                                    |                         | ton         |             |            | \$409.50  |       |           | \$409 |       |
| Transport - truck load (80 drums, 25 cy (m3), 18 tons)     |                         | mile        |             |            | \$5.88    |       |           |       | .88   |
| Dump site solid disposal fee                               | 02110-300-6000/6020     | ton         |             |            | \$288.50  |       |           | \$288 | .50   |
| NOTES:   |                         |             |             |            |           |       |           |       |       |
| Solid Handling Cost Source                                 | R.S. Means Heavy Cons   | struction ( | 2019 Q2).   | 24         |           |       |           |       |       |
| Solid Disposal Fee Source:                                 | 2019 Q2 R.S. Means He   | avy Cons    | t. ave. 02  | 81         |           |       |           |       |       |
| Hazardous Material Handling - Liquids                      |                         |             |             |            |           |       |           |       |       |
| Vacuum Truck Pickup (2200 gal/8300 L)                      |                         | hr.         |             |            | \$147.00  |       |           | \$147 |       |
| Vacuum Truck Pickup (5000 gal/19000 L)                     |                         | hr.         |             |            | \$213.00  |       |           | \$213 |       |
| Dump site liquid disposal fee                              | 02110-300-6000/6020     | ton         |             |            | \$288.50  |       |           | \$288 | .50   |
| NOTES:   |                         |             | 2000 00)    |            |           |       |           |       |       |
| Liquid Handling Cost Source<br>Liquid Disposal Fee Source: | R.S. Means Heavy Cons   | struction ( | 2020 Q2).   | 0.4        |           |       |           |       |       |
|  | 2020 QZ R.S. Means ne   | avy Cons    | i. ave. uz  | 51         |           |       |           |       |       |
| Hydrocarbon Contaminated Soils (HCS)                       |                         |             |             |            | · ·       |       | 1         | 1     |       |
|  | 02115-200-2020/2021     | C.Y.        |             |            | \$17.64   |       |           | \$17  |       |
|  | 02115-200-2050/2055     | C.Y.        |             |            | \$278.50  |       |           | \$278 | .50   |
| NOTES:   | 0000 00 D C M 11        | 0-          | 4 00        | <b>CF</b>  |           |       |           |       |       |
| Insitu Treatement Cost Source<br>HCS Disposal Fee Source:  | 2020 Q2 R.S. Means He   | avy Cons    | t., ave. 02 | 65         |           |       |           |       |       |
| HUS Disposal Fee Source:                                   | 2020 Q2 R.S. Means He   | avy Cons    | t., ave. 02 | 00         |           |       |           |       |       |
|  |                         |             |             |            |           |       |           |       |       |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

## Concrete Structure Installation

Weekly dumpster rental rates from Means Heavy Construction 2005 Edition with permission by R.S.Means/Reed Construction Data

| Weekly dumpster rental rates include haul to off-site dispos | sal site and disposal fee | es        |            |                 |                    |               |                   |         |          |                            |
|--|---------------------------|-----------|------------|-----------------|--------------------|---------------|-------------------|---------|----------|----------------------------|
|  | Means Number              | Unit      | Crew       | Daily<br>Output | Materials          | Labor         | Equipment         | Premium | Total    | Notes                      |
| Reinforced Concrete Bulkheads and Shaft Co                   | vers                      |           |            |                 |                    |               |                   |         |          |                            |
| Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high          | 03310-240-4300            | C.Y.      | C-14D      | 80.02           | \$163.00           | \$105.53      | \$13.35           |         | \$281.88 | includes reinforcing       |
| Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high         | 03310-240-4350            | C.Y.      | C-14D      | 26.2            | \$163.00           | \$322.30      | \$40.76           |         | \$526.06 | includes reinforcing       |
| Elevated conc, 1-way beam & slab - 15ft (4.6m) span          |                           | C.Y.      | C-14B      | 20.59           | \$278.00           | \$410.57      | \$51.87           |         | \$740.44 |                            |
| Elevated conc, 1-way beam & slab - 25ft (7.5m) span          | 03310-240-2750            | C.Y.      | C-14B      | 28.36           | \$265.00           | \$298.08      | \$37.66           |         | \$600.74 | includes reinforcing       |
| Bat Gate/Foam Plug Installation                              |                           |           |            |                 |                    |               |                   |         |          |                            |
|  |                           |           |            |                 |                    |               |                   |         |          |                            |
| Bat Gate (5)   |                           | ea.       |            |                 | \$3,367.61         |               |                   |         |          | materials \$/ea. Installed |
| Culvert Gate (5)   |                           | ea.       |            |                 | \$6,735.21         |               |                   |         |          | materials \$/ea. Installed |
| Adit Foam Plug (6)   |                           | ea./C.Y.  |            |                 | \$336.76           |               |                   |         |          | materials \$/cy placed     |
| Production Opening Foam Plug (6)                             |                           | ea./C.Y.  |            |                 | \$336.76           |               |                   |         |          | materials \$/cy placed     |
| NOTES:   |                           |           |            |                 |                    |               |                   |         |          |                            |
| (5) Bat Gate Source: I                                       | NV BLM, 2/2006: 8 hr +    | 1hr mob/c | demob + 11 | nr setup per    | gate (adjusted to  | 2020)         |                   |         |          |                            |
| (6) Foam Plug Source: I                                      | NV BLM, 2/2006: 8 hr+     | 1hr mob/d | emob + 1h  | r setup per a   | adit; 16 hrs per p | roduction ope | ning (adjusted to | 2020)   |          |                            |
| · · · · · · · · · · · · · · · · · · ·                        |                           |           |            |                 |                    |               |                   |         |          | •                          |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

## Misc. Linear Projects

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

| All equipment, labor and material unit costs are nom Labo | or Coolo, Equipment Co | Toto and w | I I    | Daily  | 1         |        |           |         | 1       |       |
|---|------------------------|------------|--------|--------|-----------|--------|-----------|---------|---------|-------|
|   | Means Number           | Unit       | Crew   | Output | Materials | Labor  | Equipment | Premium | Total   | Notes |
| Fencing Installation                                      |                        | •          |        |        |           |        |           |         |         |       |
| Barbed 3-strand   | 02820-170-1650         | L.F.       | B-80A  | 760    | \$0.51    | \$0.93 | \$0.33    |         | \$1.77  |       |
| Barbed 4-strand   | extrapolated           | L.F.       | B-80A  | 570    | \$0.68    | \$1.23 | \$0.44    |         | \$2.35  |       |
| Barbed 5-strand   | 02820-130-0920         | L.F.       | B-80A  | 456    | \$0.85    | \$1.54 | \$0.55    |         | \$2.94  |       |
| Chain link 8-10ft (2.5-3m) Install                        | 02820-130-0920         | L.F.       | B-80C  | 180    | \$38.00   | \$3.91 | \$1.38    |         | \$43.29 |       |
| Wood stockade fence 6 ft (2 m) high - Install             | 02820-510-1240         | L.F.       | B-80C  | 150    | \$16.00   | \$4.69 | \$1.66    |         | \$22.35 |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
| Fencing Removal   |                        |            |        |        |           |        |           |         |         |       |
| Barbed 3-strand Removal                                   | 02220-220-1600         | L.F.       | 2 Clab | 430    |           | \$1.09 | \$0.58    |         | \$1.67  |       |
| Barbed 4-strand Removal                                   | extrapolated           | L.F.       | 2 Clab | 355    |           | \$1.32 | \$0.70    |         | \$2.02  |       |
| Barbed 5-strand Removal                                   | 02220-220-1650         | L.F.       | 2 Clab | 280    |           | \$1.68 | \$0.89    |         | \$2.57  |       |
| Chain link 8-10 ft (2.5-3 m) Removal                      | 02220-220-1700         | L.F.       | B-6    | 445    |           | \$1.67 | \$1.40    |         | \$3.07  |       |
| Wood, all types 4-6 ft ("1.5-2 m) high - Removal          | 02220-220-1775         | L.F.       | 2 Clab | 430    |           | \$1.09 | \$0.58    |         | \$1.67  |       |
|   | user                   | L.F.       |        |        |           |        |           |         |         |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
| Culvert Removal   |                        |            |        |        |           |        |           |         |         |       |
| 12 in (300 mm ) Diameter                                  | 02220-220-2900         | L.F.       | B-6    | 175    |           | \$4.25 | \$3.55    |         | \$7.80  |       |
| 18 in (450 mm) Diameter                                   | 02220-220-2930         | L.F.       | B-6    | 150    |           | \$4.96 | \$4.14    |         | \$9.10  |       |
| 24 in (600 mm) Diameter                                   | 02220-220-2960         | L.F.       | B-6    | 120    |           | \$6.20 | \$5.18    |         | \$11.38 |       |
| 36 in (1m) Diameter                                       | 02220-220-3000         | L.F.       | B-6    | 90     |           | \$8.27 | \$6.91    |         | \$15.18 |       |
| Pipeline Removal  |                        |            |        |        |           |        |           |         |         |       |
| 0.75 in (20mm) - 4 in (100 mm) diameter                   | 02220-381-1600         | L.F.       | B-20   | 700    |           | \$1.65 | \$0.36    |         | \$2.01  |       |
| 6 in (150 mm) - 8 in (200 mm)                             | 02220-381-1700         | L.F.       | B-20   | 500    |           | \$2.31 | \$0.50    |         | \$2.81  |       |
| 10 in (250 mm) - 18 in (450 mm)                           | 02220-381-1800         | L.F.       | B-20   | 300    |           | \$3.85 | \$0.83    |         | \$4.68  |       |
| 20 in (500 mm) - 36 in (1 m)                              | 02220-381-1900         | L.F.       | B-20   | 200    |           | \$5.77 | \$1.25    |         | \$7.02  |       |
| Pipe and Drainpipe Installation                           |                        |            |        |        |           |        |           |         |         |       |
| Water 4in (100mm ) 40ft (12m) length, welded HDPE         | 02510-760-0100         | L.F.       | B-22A  | 400    | \$2.70    | \$3.19 | \$4.46    |         | \$10.35 |       |
| Water 6in (150mm) 40ft (12m) length, welded HDPE          | 02510-760-0200         | L.F.       | B-22A  | 380    | \$5.85    | \$3.36 | \$4.69    |         | \$13.90 |       |
| Water 12in (300mm) 40ft (12m) length, welded HDPE         | 02510-760-0500         | L.F.       | B-22A  | 260    |           | \$4.91 | \$6.86    |         | \$11.77 |       |
| Drain 4in (100mm) perforated PVC                          | 02620-630-2100         | L.F.       | B-14   | 315    | \$1.74    | \$5.96 | \$1.87    |         | \$9.57  |       |
| Drain 6in (150mm) perforated PVC                          | 02620-630-2110         | L.F.       | B-14   | 300    | \$4.22    | \$6.26 | \$1.96    |         | \$12.44 |       |
| Drain 4in (100mm) corrugated, perf or plain               | 02620-660-0040         | L.F.       | 2 Clab | 1200   | \$0.78    | \$0.39 | \$0.21    |         | \$1.38  |       |
| Drain 6in (150mm) corrugated., perf or plain              | 02620-660-0060         | L.F.       | 2 Clab | 900    | \$2.18    | \$0.52 | \$0.28    |         | \$2.98  |       |
|   |                        |            |        |        |           |        |           |         |         |       |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Drain Rock Preparation            |  |              |    |        |         |             |  |
|-----------------------------------|--|--------------|----|--------|---------|-------------|--|
| Crushing                          | C.Y.   |              |    |        |         | \$0.50      |  |
| Screening                         | C.Y.   |              |    |        |         | \$0.50      |  |
| TOTAL                             | •  |              |    | •      |         | \$1.00      |  |
| Misc.                             |  |              |    |        |         |             |  |
| Backhoe work                      | 02210-700-0120 C.Y.  | B-11M        | 28 | \$9.83 | \$12.10 | \$21.93     |  |
| Powerline and Transformer Removal |  |              |    |        |         |             |  |
| Single Pole                       | mile   |              |    |        |         | \$46,803.69 |  |
| Double Pole                       | mile   |              |    |        |         | \$53,489.93 |  |
| Transformer (9)                   | ea.  |              |    |        |         | \$58,997.31 |  |
|                                   |  |              |    |        |         |             |  |
| NOTES:                            |  |              |    |        |         |             |  |
| (7) Single Pole Source:           | NV Energy estimate (2009) Adjus                                    | sted to 2020 |    |        |         |             |  |
| (8) Double Pole Source:           | NV Energy estimate (2009) Adjus<br>NV Energy estimate (2018) adjus | sted to 2020 |    |        |         |             |  |
| (9) Transformer Source:           | NV Energy estimate (2018) adjus                                    | sted to 2020 |    |        |         |             |  |
| F : 10 " ( " 0 ( )                | ·  |              |    |        |         | ·           |  |

#### Erosion and Sedimentation Control

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

|  |                |      | _      | Daily  |           |         |           |         |         |  |
|--|----------------|------|--------|--------|-----------|---------|-----------|---------|---------|--|
|  | Means Number   | Unit | Crew   | Output | Materials | Labor   | Equipment | Premium | Total   | Notes  |
| Rip-Rap & Rock Lining                                    |                |      |        |        |           |         |           |         |         |  |
| Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted               | 02370-450-0110 | S.Y. | B-13   | 80     | \$25.00   | \$23.35 | \$9.80    |         | \$58.15 | assumes on-site source of rip-rap            |
| Rip-Rap 18 in (450 mm) min thick, no grout               | 02370-450-0200 | S.Y. | B-13   | 53     | \$7.65    | \$35.24 | \$14.79   |         | \$57.68 | assumes on-site source of rip-rap            |
| Gabions, 6 in (150 mm) deep                              | 02370-450-0400 | S.Y. | B-13   | 200    | \$7.05    | \$9.34  | \$3.92    |         | \$20.31 | assumes on-site source rock fill for gabions |
| Gabions, 9 in (250 mm) deep                              | 02370-450-0500 | S.Y. | B-13   | 163    | \$9.85    | \$11.46 | \$4.81    |         | \$26.12 | assumes on-site source rock fill for gabions |
| Gabions, 12 in (300 mm) deep                             | 02370-450-0200 | S.Y. | B-13   | 153    | \$14.30   |         | \$5.12    |         | \$31.63 |  |
| Gabions, 18 in (450 mm) deep                             | 02370-450-0200 | S.Y. | B-13   | 102    | \$18.35   |         | \$7.69    |         | \$44.35 |  |
| Gabions, 36 in (1m) deep                                 | 02370-450-0200 | S.Y. | B-13   | 60     | \$31.00   | \$31.13 | \$13.07   |         | \$75.20 | assumes on-site source rock fill for gabions |
| HDEP Liner Installation                                  |                |      |        |        |           |         |           |         |         |  |
| Finish grading large area                                | 2310-100-0100  | S.F. | B-11L  | 18000  |           | \$0.03  | \$0.08    |         | \$0.11  |  |
| Compaction-riding, vibrating roller - 12in (300mm) lifts | 2315-310-5100  | C.Y. | B-10Y  | 2600   |           | \$0.20  | \$0.17    |         | \$0.37  |  |
| 60 mil HDPE  | 2660-610-0010  | S.F. | 3 Skwk | 1600   | \$0.57    | \$0.65  | \$0.45    |         | \$1.67  |  |
| 80 mil HDPE  | user           | S.F. | 3 Skwk | 149    |           | \$7.02  | \$4.87    |         | \$11.89 |  |
| 40 mil VLDPE   | user           | S.F. | 3 Skwk | 150    |           | \$6.97  | \$4.83    |         | \$11.80 |  |
|  | user           | S.F. | 3 Skwk | 149    |           | \$7.02  | \$4.87    |         | \$11.89 |  |
|  | user           | S.F. | 3 Skwk | 149    |           | \$7.02  | \$4.87    | •       | \$11.89 |  |
|  |                |      | ·      |        |           | ·       |           |         |         | _  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| <b>Construction Manag</b> | ement Support              |                       |           |   |          |        |           |   |          |       |
|---------------------------|----------------------------|-----------------------|-----------|---|----------|--------|-----------|---|----------|-------|
| Office Trail              | er, Furnished, no hook-ups | 0150-500-0250         | mo.       |   | \$198.00 |        |           |   | \$198.00 |       |
|                           | Toilet Portable, chemical  | 1590-400-6410         | mo.       |   | \$214.20 |        |           |   | \$214.20 |       |
|                           | TOTAL                      | •                     |           |   | \$412.20 |        |           | • | \$412.20 |       |
| Pump and Casing Remo      | oval                       |                       |           |   |          |        |           |   |          |       |
|                           | Pump Type                  | Measurement           | Unit      |   |          | Labor  | Equipment |   | Total    | Notes |
| Pump Removal              |                            |                       |           |   |          |        |           |   |          |       |
|                           | Submersible                | ft to pump            | L.F.      |   |          | \$7.65 | \$18.86   |   | \$26.51  |       |
|                           | Line Shaft                 | ft to pump            | L.F.      |   |          | \$7.65 | \$18.86   |   | \$26.51  |       |
|                           |                            |                       |           |   |          |        |           |   |          |       |
|                           | NOTES:                     |                       |           |   |          |        |           |   |          |       |
| (1)                       | 0) Pump Removal Source:    | Boart Longyear Quote: | June 2020 | ) |          |        |           |   |          |       |
|                           | •                          |                       |           |   |          |        |           | · |          |       |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

|   |                |                                 | Standard  | EQUIPMENT<br>UNIT COST  | TOTAL LABOR<br>UNIT COST  | TOTAL  |
|---|----------------|---------------------------------|---|---|---|--|
| ACTIVITY AND FLEET  |                |                                 | Crew Size   | (Hourly)  | (Hourly)  | (Hourly)   |
| Rip road  |                |                                 |   |   |   |  |
| Waste rock dumps, heaps, tails - rip flat surfaces<br>Surface preparation<br>Scarify  |                |                                 |   |   |   |  |
|   | Sma            | ıll Dozer w/                    | / multi-sha   | nk  |   |  |
| D7R   | T-4-1-         |                                 | 1   | \$88.37   | \$34.41   | \$122.   |
|   | Totals         |                                 |   | \$88.37   | \$34.41   | \$122.   |
|   | Mediu          | ım Dozer w                      |   |   |   |  |
| D9R   | Totals         |                                 | 1   | \$229.54<br>\$229.54  | \$34.41<br>\$34.41  | \$263.9<br>\$263.9   |
|   | Totals         |                                 | l   | Ψ223.54   | Ψ54.41  | Ψ200.  |
|   | Larg           | e Dozer w/                      |   |   |   |  |
| D10R  | Totals         |                                 | 1   | \$329.55<br>\$329.55  | \$34.41<br>\$34.41  | \$363.9<br>\$363.9   |
|   |                |                                 | Į.  | ψ020.00   | ψ04.41  | φοσο.  |
|   | G              | rader w/ m                      |   |   |   |  |
| 16G/H   | Totals         |                                 | 1   | \$247.16<br>\$247.16  | \$37.12<br>\$37.12  | \$284.2<br>\$284.2   |
|   |                |                                 | I   | <b>*</b> =•   | ******  | <del></del>  |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  |                |                                 |   |   |   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills  |                | Small Doz                       | er Fleet  |   |   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills  |                | Small Doz                       | zer Fleet   | \$88.37   | \$34.41   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills<br>Constructing pit safety berms   | Totals         | Small Doz                       |   | \$88.37<br>\$88.37  | \$34.41<br>\$34.41  |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills<br>Constructing pit safety berms   |                | Small Doz                       | 1   |   |   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills<br>Constructing pit safety berms   |                |                                 | 1   | \$88.37<br>\$229.54   | \$34.41<br>\$34.41  | \$122.<br>\$122.   |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R   |                |                                 | 1<br>ozer Fleet   | \$88.37   | \$34.41   | \$122.<br>\$263.   |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  |                |                                 | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54   | \$34.41<br>\$34.41<br>\$34.41   | \$122.<br>\$263.<br>\$263.   |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R   | Totals         | Medium Do                       | ozer Fleet  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55                                   | \$34.41<br>\$34.41<br>\$34.41   | \$122.<br>\$263.<br>\$263.<br>\$263.                               |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  |                | Medium Do                       | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54   | \$34.41<br>\$34.41<br>\$34.41   | \$122.7  |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING   | Totals         | Medium Do                       | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55                                   | \$34.41<br>\$34.41<br>\$34.41   | \$122.1<br>\$263.9<br>\$263.9<br>\$363.9                           |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  | Totals         | Medium Do                       | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55                                   | \$34.41<br>\$34.41<br>\$34.41   | \$122.<br>\$263.<br>\$263.<br>\$263.                               |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads           | Totals         | Medium Do                       | ozer Fleet  1  ter Fleet  1                                       | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55                       | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches  | Totals         | Medium Do                       | ozer Fleet 1 ter Fleet 1  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55                       | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41                                  | \$122.3<br>\$263.4<br>\$263.4<br>\$363.4<br>\$363.5                |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads           | Totals  Totals | Medium Doz                      | zer Fleet  1  zer Fleet  1  zer Fleet  1                          | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55                       | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R      | Totals  Totals | Medium Do                       | zer Fleet  1  zer Fleet  1  zer Fleet  1                          | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$329.55           | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads           | Totals         | Medium Doz                      | zer Fleet  1  zer Fleet  1  zer Fleet  1                          | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$96.04<br>\$96.04 | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41            | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.<br>\$130.<br>\$130. |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R      | Totals  Totals | Medium Do  Large Doz  Small Doz | zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet  1            | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$329.55           | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R  D7R | Totals         | Medium Doz                      | zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$96.04<br>\$96.04 | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41 | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.<br>\$130.<br>\$122. |
| Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R  | Totals         | Medium Do  Large Doz  Small Doz | zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet  1            | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$96.04<br>\$96.04 | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41            | \$122<br>\$263<br>\$263<br>\$363<br>\$363<br>\$130<br>\$130        |

Project Name: Foothill Dolomite Mine - Reclamation Plan

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Model Version: Version 1.4.1

Cost Data: User Data

|   |   | FOLUDMENT   | TOTAL LABOR  | TOTAL   |
|---|---|---|--|---|
| ACTIVITY AND FLEET  | Standard<br>Crew Size   | EQUIPMENT<br>UNIT COST<br>(Hourly)  | TOTAL LABOR<br>UNIT COST<br>(Hourly)                           | TOTAL<br>COST<br>(Hourly)                                   |
| XCAVATING   |   |   |  |   |
| Earthen Berms Diversion ditch excavation and backfill Underground openings backfill - excavate and place Pit berm construction (excavator option)                                   |   |   |  |   |
|   | Small Excavator   |   |  |   |
| 325C Totals   | 1   | \$81.37<br>\$81.37  | \$37.12<br>\$37.12   | \$118<br>\$118  |
|   | ledium Excavator  |   |  |   |
| 345B  | 1   | \$133.99  | \$37.12  | \$171   |
| Totals  |   | \$133.99  | \$37.12  | \$171   |
|   | Large Excavator   |   |  |   |
| 385BL Totals  | 1   | \$312.70<br>\$312.70  | \$37.12<br>\$37.12   | \$349<br>\$349  |
| <u> </u>  | <u> </u>  | ***************************************                                       | *****  | 7   |
| (CAVATE AND RECONTOUR  Recontour large roads (haul roads, access roads, etc.)   |   |   |  |   |
| Ponds - Excavate and pull liner and bury  |   |   |  |   |
|   |   |   |  |   |
|   | II Excavator + Doze   |   |  | •   |
| 325C<br>D7R   | 1   | \$81.37<br>\$88.37  | \$37.12<br>\$34.41   | \$118<br>\$122  |
| Total Equipment   | '   | \$169.74  | \$71.53  | \$241   |
| Modiu   | ım Excavator + Doz  | ror .   |  |   |
| 345B  | 1   | \$133.99  | \$37.12  | \$171   |
| D9R   | 1   | \$229.54  | \$34.41  | \$263   |
| Totals  |   | \$363.53  | \$71.53  | \$435   |
|   | e Excavator + Doze  |   |  | •   |
| 385BL<br>D10R   | 1   | \$312.70<br>\$329.55  | \$37.12<br>\$34.41   | \$349<br>\$363  |
| Totals  | ·   | \$642.25  | \$71.53  | \$713   |
| (DI ODATION DOAD/DAD DECONTOUR  |   |   |  |   |
| KPLUKATION KOAD/PAD RECONTOUR   |   |   |  |   |
| Recontour small roads (exploration roads, service roads, etc  | c.)   |   |  |   |
| Recontour small roads (exploration roads, service roads, etc<br>Cut and Fill reclamation on slopes  | :.)   |   |  |   |
| Recontour small roads (exploration roads, service roads, etc  | :.)   |   |  |   |
| Recontour small roads (exploration roads, service roads, etc<br>Cut and Fill reclamation on slopes<br>Drill pad recountour  | ,   |   |  |   |
| Recontour small roads (exploration roads, service roads, etc<br>Cut and Fill reclamation on slopes<br>Drill pad recountour  | Small Dozer   | \$96.04   | \$34.41  | \$130   |
| Recontour small roads (exploration roads, service roads, etc<br>Cut and Fill reclamation on slopes<br>Drill pad recountour<br>Drill sump backfill                                   | Small Dozer   | \$96.04<br>\$96.04  | \$34.41<br>\$34.41   |   |
| Recontour small roads (exploration roads, service roads, etc<br>Cut and Fill reclamation on slopes<br>Drill pad recountour<br>Drill sump backfill                                   | Small Dozer   |   |  |   |
| Recontour small roads (exploration roads, service roads, etc Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals                               | Small Dozer   | \$96.04<br>\$155.83   | \$34.41<br>\$34.41   | \$130<br>\$190  |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals                              | Small Dozer   | \$96.04   | \$34.41  | \$130<br>\$130<br>\$190<br>\$190                            |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  Totals                      | Small Dozer   | \$96.04<br>\$155.83   | \$34.41<br>\$34.41   | \$130<br>\$190  |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  Totals  14G/H               | Small Dozer  1  Large Dozer  1                                | \$96.04<br>\$155.83<br>\$155.83   | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12                       | \$130<br>\$190<br>\$190<br>\$223                            |
| Recontour small roads (exploration roads, service roads, etc Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  Totals                       | Small Dozer  1  Large Dozer  1  Grader                        | \$96.04<br>\$155.83<br>\$155.83   | \$34.41<br>\$34.41<br>\$34.41                                  | \$130<br>\$190<br>\$190<br>\$223                            |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R  Totals  Totals         | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator    | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72                       | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12<br>\$37.12            | \$130<br>\$190<br>\$190<br>\$223<br>\$223                   |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  14G/H  Totals  320C         | Small Dozer  1  Large Dozer  1  Grader                        | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72                       | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12<br>\$37.12            | \$130<br>\$190<br>\$190<br>\$223<br>\$223                   |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R  Totals  Totals         | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator    | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72                       | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12<br>\$37.12            | \$130<br>\$190<br>\$190<br>\$223<br>\$223                   |
| Recontour small roads (exploration roads, service roads, etc. Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  14G/H  Totals  320C  Totals | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator  1 | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72<br>\$63.49<br>\$63.49 | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12<br>\$37.12<br>\$37.12 | \$130<br>\$190<br>\$190<br>\$223<br>\$223<br>\$100<br>\$100 |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  14G/H  Totals  320C  Totals   | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator    | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72                       | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12<br>\$37.12            | \$1<br>\$1<br>\$2<br>\$2<br>\$2                             |

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Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS   |             |                         |   |  |   |
|--|-------------|-------------------------|---|--|---|
| ACTIVITY AND FLEET   |             | Standard<br>Crew Size   | EQUIPMENT<br>UNIT COST<br>(Hourly)  | TOTAL LABOR<br>UNIT COST<br>(Hourly)     | TOTAL<br>COST<br>(Hourly)   |
| LOAD, HAUL AND PLACE MATERIAL  |             |                         |   |  |   |
| Rock placement<br>Haul overburden for backfill<br>Haul borrow for backfill<br>Haul cover or growth media |             |                         |   |  |   |
|  | all Truck/l | ₋oader Flee             |   |  |   |
| 725  |             | Calculated              | \$141.02  | \$34.41                                  | \$175.43  |
| 966G<br>D7R  | Loader      | 1                       | \$73.88<br>\$88.37  | \$34.41<br>\$34.41                       | \$108.29<br>\$122.78  |
| Totals   |             | -                       | \$303.27  | \$103.23                                 | \$406.50  |
| Med  | ium Truck   | /Loader Fle             | et  |  |   |
| 740  | iaiii iraok | Calculated              | \$191.63  | \$34.41                                  | \$226.04  |
| 988G   | Loader      | 1                       | \$274.20  | \$34.41                                  | \$308.61  |
| D8R  |             | 1                       | \$155.83  | \$34.41                                  | \$190.24  |
| Totals   |             |                         | \$621.66  | \$103.23                                 | \$724.89  |
|  | ge Truck/l  | ₋oader Flee             | t   |  |   |
| 769D   |             | Calculated              | \$23.86   | \$34.41                                  | \$58.27   |
| 988G   | Loader      | 1                       | \$274.20<br>\$88.37   | \$34.41                                  | \$308.61  |
| D7R Totals   |             | 1                       | \$386.43  | \$34.41<br>\$103.23                      | \$122.78<br>\$489.66  |
| Evtra  | argo True   | ck/Loader F             | loot  | <u> </u>                                 |   |
| 777D   | Large Truc  | Calculated              | \$561.85  | \$34.41                                  | \$596.26  |
| 992G   | Loader      | 1                       | \$522.61  | \$34.41                                  | \$557.02  |
| D7R  |             | 1                       | \$88.37   | \$34.41                                  | \$122.78  |
| Totals   |             |                         | \$1,172.83  | \$103.23                                 | \$1,276.06  |
|  | Scraper/Do  | zer Fleet               |   |  |   |
| 631G   |             | Calculated              | \$243.74  | \$34.41                                  | \$278.15  |
| D10R   |             | 1                       | \$329.55  | \$34.41                                  | \$363.96  |
| D7R Totals   |             | 1                       | \$88.37<br>\$661.66   | \$34.41<br>\$103.23                      | \$122.78<br>\$764.89  |
| ,  |             |                         | ***************************************   | ¥  | 7.0   |
|  | andem Sci   | raper Fleet             | 0.400.00  |  | 0.10.1.01   |
| 637G<br>D7R  |             | 1                       | \$430.52<br>\$88.37   | \$34.41<br>\$34.41                       | \$464.93<br>\$122.78  |
| Totals   |             | '                       | \$518.89  | \$68.82                                  | \$587.71  |
| MISC. LOAD AND HAUL AND EARTHWORKS   |             |                         |   |  |   |
| Sludge removal   |             |                         |   |  |   |
| Drainage controls  |             |                         |   |  |   |
| Misc Cat 32  | 25B Excav   | ator / 10-12            | vd3 Truck   |  |   |
| 325C   | LOD LXCGV   | 1                       | \$81.37   | \$37.12                                  | \$118.49  |
| Dump Truck (10-12 yd3 )  |             | 1                       | \$56.34   | \$30.60                                  | \$86.94   |
| Totals   |             |                         | \$137.71  | \$67.72                                  | \$205.43  |
|  |             | or /E val2\ /           | 10-12 vd3 Truck   |  |   |
| Misc Cat D9R Do  | ozer/ Load  | er (o yus) /            | 10-12 yus iluch   |  |   |
| D9R  | ozer/ Load  | 1                       | \$229.54  | \$34.41                                  |   |
| D9R<br>966G  | ozer/ Load  | 1                       | \$229.54<br>\$73.88   | \$34.41<br>\$34.41                       | \$108.29  |
| D9R  | ozer/ Load  | 1                       | \$229.54  | \$34.41                                  | \$108.29<br>\$86.94   |
| D9R<br>966G<br>Dump Truck (10-12 yd3 )   |             | 1 1 1                   | \$229.54<br>\$73.88<br>\$56.34<br>\$359.76                                      | \$34.41<br>\$34.41<br>\$30.60<br>\$99.42 | \$108.29<br>\$86.94   |
| D9R<br>966G<br>Dump Truck (10-12 yd3 )  Totals  Misc Cat D6 Doz  |             | 1 1 1                   | \$229.54<br>\$73.88<br>\$56.34<br>\$359.76                                      | \$34.41<br>\$34.41<br>\$30.60<br>\$99.42 | \$108.29<br>\$86.94<br>\$459.18                                     |
| D9R 966G Dump Truck (10-12 yd3 )  Totals  Misc Cat D6 Doz  |             | 1 1 1 1 1 66 Loader / 1 | \$229.54<br>\$73.88<br>\$56.34<br>\$359.76                                      | \$34.41<br>\$34.41<br>\$30.60<br>\$99.42 | \$263.95<br>\$108.29<br>\$86.94<br>\$459.18<br>\$130.45<br>\$108.29 |
| D9R<br>966G<br>Dump Truck (10-12 yd3 )<br>Totals<br>Misc Cat D6 Doz                                      |             | 1 1 1                   | \$229.54<br>\$73.88<br>\$56.34<br>\$359.76<br><b>10-12 yd3 Truck</b><br>\$96.04 | \$34.41<br>\$34.41<br>\$30.60<br>\$99.42 | \$108.29<br>\$86.94<br>\$459.18                                     |

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Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS   |                       |                                    |                                      |  |
|--|-----------------------|------------------------------------|--------------------------------------|--|
| ACTIVITY AND FLEET   | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly)                  |
| CONCRETE BREAKING  |                       | , ,,                               | , ,,                                 | <u> </u>                                   |
| Slab demolition  |                       |                                    |                                      |  |
| Footing demolition<br>Wall demolition                            |                       |                                    |                                      |  |
| Small - Cat 325B Exc   | cavator w/ H140       | D s Hammer                         |                                      |  |
| 325C   | 1                     | \$81.37                            | \$37.12                              | \$118.49                                   |
| H-120 (fits 325)<br>D9R  | 1                     | \$32.95<br>\$229.54                | \$0.00<br>\$34.41                    | \$32.9<br>\$263.9                          |
| Totals   | '                     | \$343.86                           | \$71.53                              | \$415.3                                    |
| Medium - Cat 345B Ex   | cavator w/ H18        | OD's Hammer                        |                                      |  |
| 345B   | 1                     | \$133.99                           | \$37.12                              | \$171.1                                    |
| H-160 (fits 345)   | 1                     | \$67.17                            | \$0.00                               | \$67.1                                     |
| D9R Totals   | 1                     | \$229.54<br>\$430.70               | \$34.41<br>\$71.53                   | \$263.95<br>\$502.23                       |
|  |                       | ·                                  | ţ                                    | <b>\$002.2</b>                             |
| Large - Cat 385B Exc   | avator w/ H180        | <b>S Hammer</b><br>\$312.70        | \$37.12                              | \$349.8                                    |
| H-180 (fits 365/385)   | 1                     | \$76.01                            | \$0.00                               | \$76.0                                     |
| D9R  | 1                     | \$229.54                           | \$34.41                              | \$263.9                                    |
| Totals   |                       | \$618.25                           | \$71.53                              | \$689.78                                   |
| DRILL HOLE ABANDONMENT   |                       |                                    |                                      |  |
| Pump (plugging) Drill Rig  | - Grout or Ceme       | ent<br>\$635.56                    | £24.22I                              | \$660.7t                                   |
| Driller's Helper   | 1 2                   | \$0.00                             | \$34.23<br>\$64.20                   | \$669.79<br>\$64.20                        |
| Totals   |                       | \$635.56                           | \$98.43                              | \$733.99                                   |
| Drill Hole - Inert Media (I                                      | Means Crew B.         | 11M± 1 Laborer                     |                                      |  |
| 420D 4WD Backhoe   | 1                     | \$42.35                            | \$34.41                              | \$76.76                                    |
| General Laborer  | 1                     | \$0.00                             | \$29.32                              | \$29.3                                     |
| Totals   |                       | \$42.35                            | \$63.73                              | \$106.08                                   |
| Drill Hole - Casing  | Perforation or        | Removal                            |                                      |  |
| Heavy Duty Drill Rig   | 1                     | \$639.94                           | \$34.23                              | \$674.17                                   |
| Driller's Helper  Totals   | 2                     | \$0.00<br>\$639.94                 | \$64.20<br>\$98.43                   | \$64.20<br>\$738.3                         |
| Totals   |                       | \$039.94                           | \$96.43                              | \$130.31                                   |
| MAINTENANCE FLEET  |                       |                                    |                                      |  |
| Road Grading, Dust Suppression, Clean Up  Maintenance - Small Wa | ater Truck and (      | Cat 14G Grader                     |                                      |  |
| 613E (5,000 gal) Water Wagon                                     | 1                     | \$131.83                           | \$34.41                              | \$166.2                                    |
| 120H   | 1                     | \$73.38                            | \$37.12                              | \$110.5                                    |
| Totals   |                       | \$205.21                           | \$71.53                              | \$276.7                                    |
| Maintenance - Medium V   | Vater Truck and       |                                    |                                      |  |
| 613E (5,000 gal) Water Wagon                                     | 1                     | \$131.83                           | \$34.41                              | \$166.2                                    |
| 14G/H Totals   | 1                     | \$186.72<br>\$318.55               | \$37.12<br>\$71.53                   | \$223.8<br>\$390.0                         |
|  |                       |                                    | ψ11.00                               | φοσο.σ                                     |
|  | ater Truck and (      | Cat 16G Grader<br>\$165.96         | \$34.41                              | <b>#</b> 000 0:                            |
| Maintenance - Large Wa   | 4                     |                                    |                                      | \$200.3                                    |
| 621E (8,000 gal) Water Wagon                                     | 1                     |                                    |                                      | \$284 2                                    |
|  | 1                     | \$247.16<br>\$413.12               | \$37.12<br>\$71.53                   |  |
| 621E (8,000 gal) Water Wagon 16G/H Totals                        | 1                     | \$247.16                           | \$37.12                              |  |
| 621E (8,000 gal) Water Wagon 16G/H Totals PROJECT SUPERVISION    | 1 1                   | \$247.16<br>\$413.12               | \$37.12<br>\$71.53                   | \$484.6                                    |
| 621E (8,000 gal) Water Wagon 16G/H Totals                        |                       | \$247.16                           | \$37.12                              | \$284.2i<br>\$484.6i<br>\$82.8i<br>\$12.8i |

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Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS   |                       |                                    |                                      |                           |
|--|-----------------------|------------------------------------|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET   | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| MEANS CREW DEFINITIONS   |                       | , ,,                               | , ,,                                 | , ,,                      |
| Crew composition from Means Heavy Construction 2005 Edition      | by permission of R.S  | .Means/Reed Cons                   | truction Data .                      |                           |
| For use with misc. unit costs where Means is the source for prod | uctivity              |                                    |                                      |                           |
| 4 Olak Ozadkan Di  |                       | II D I'ii'                         |                                      |                           |
| 1 Clab - Seedling Pla  | anting/Block wa       | \$0.00                             | \$29.32                              | \$29.32                   |
| Totals   | '                     | \$0.00                             | \$29.32                              | \$29.32                   |
| 1.014.10   | I                     | ψ0.00                              | <b>\$20.02</b>                       | <b>\$20.02</b>            |
| 2 Clab - Barbed Wire/Wood Fence Remo                             | val, Drainpipe In     | stallation, Pum                    | ping, Evaporatior                    | 1                         |
| General Laborer  | 2                     | \$0.00                             | \$58.64                              | \$58.64                   |
| Light Truck - 1.5 Ton  | 1                     | \$31.13                            | \$0.00                               | \$31.13                   |
| Totals   |                       | \$31.13                            | \$58.64                              | \$89.77                   |
| 2 Clab + Excavato  | r - Pond Liner Cu     | ut and Fold                        |                                      |                           |
| General Laborer  | 2                     | \$0.00                             | \$58.64                              | \$58.64                   |
| 325C   | 1                     | \$81.37                            | \$37.12                              | \$118.49                  |
| Totals   |                       | \$81.37                            | \$95.76                              | \$177.13                  |
|  |                       |                                    |                                      |                           |
|  | Welder - Bat Gate     |                                    | 050.041                              | 050.04                    |
| General Laborer Welding Equipment                                | 2                     | \$0.00<br>\$8.83                   | \$58.64<br>\$34.23                   | \$58.64<br>\$43.06        |
| Light Truck - 1.5 Ton  | 1                     | \$31.13                            | \$0.00                               | \$31.13                   |
| Totals   | ·                     | \$39.96                            | \$92.87                              | \$132.83                  |
|  |                       |                                    |                                      |                           |
|  | Foam Adit Plugs       |                                    |                                      |                           |
| General Laborer  | 2                     | \$0.00                             |                                      | \$58.64                   |
| 420D 4WD Backhoe<br>Light Truck - 1.5 Ton                        | 1 1                   | \$42.35<br>\$31.13                 | \$34.41<br>\$0.00                    | \$76.76<br>\$31.13        |
| Totals   | '                     | \$73.48                            | \$93.05                              | \$166.53                  |
| 1 State  | l l                   | ψ. σ. το                           | \$00.00                              | ψ.00.00                   |
| 3 Clab + Wel   | der - Culvert Bat     | Gate                               |                                      |                           |
| General Laborer  | 2                     | \$0.00                             | \$58.64                              | \$58.64                   |
| Welding Equipment  | 1                     | \$8.83                             | \$34.23                              | \$43.06                   |
| 420D 4WD Backhoe<br>Light Truck - 1.5 Ton                        | 1 1                   | \$42.35<br>\$31.13                 | \$34.41<br>\$0.00                    | \$76.76<br>\$31.13        |
| Totals   | '                     | \$82.31                            | \$127.28                             | \$209.59                  |
|  | I                     | ¥0=.0.                             | ¥ :=::==                             | <b>V</b> =11111           |
| 3 Clab D - 3 Laborers  | + Foreman - Dec       | contamination                      |                                      |                           |
| General Laborer  | 3                     | \$0.00                             | \$87.96                              | \$87.96                   |
| Foreman<br>Supervisor's Truck                                    | 1                     | \$0.00                             | \$82.88<br>\$0.00                    | \$82.88                   |
| Light Truck - 1.5 Ton  | 1                     | \$12.82<br>\$31.13                 | \$0.00                               | \$12.82<br>\$31.13        |
| Totals   | '                     | \$43.95                            | \$170.84                             | \$214.79                  |
|  |                       |                                    |                                      |                           |
|  | - Liner Installatio   |                                    |                                      |                           |
| Skilled Laborer  | 3                     | \$0.00                             | \$96.30                              | \$96.30                   |
| HDEP Welder (pipe or liner) 420D 4WD Backhoe                     | 1 1                   | \$48.27<br>\$42.35                 | \$0.00<br>\$34.41                    | \$48.27<br>\$76.76        |
| TEOD TITO DISCRIDE   | '                     | \$0.00                             | Ψ54.41                               | \$0.00                    |
|  |                       | \$0.00                             |                                      | \$0.00                    |
| <b>*</b> ***   |                       | \$0.00                             | 01007:                               | \$0.00                    |
| Totals   | 1                     | \$90.62                            | \$130.71                             | \$221.33                  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

|                         |                       | EQUIPMENT.                         | T0T41 1 4 D0 =                       | T0T4:                     |
|-------------------------|-----------------------|------------------------------------|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET      | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| -                       | Building Demol        |                                    | (1.52.1.)                            | (********)                |
| 200                     | LABOR                 |                                    |                                      |                           |
| General Laborer         | 2                     | \$0.00                             | \$58.64                              | \$58                      |
| Foreman                 | 1                     | \$0.00                             | \$82.88                              | \$82                      |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
| F                       | QUIPMENT              | \$0.00                             |                                      | \$(                       |
| 928G                    | 1 1                   | \$77.71                            | \$34.41                              | \$112                     |
| Dump Truck (10-12 yd3 ) | 2                     | \$112.68                           | \$61.20                              | \$173                     |
| ·                       |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$0                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(<br>\$(                |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
| Totals                  |                       | \$190.39                           | \$237.13                             | \$427                     |
|                         |                       |                                    |                                      |                           |
| B-6 - Chain Link        |                       |                                    |                                      |                           |
| General Laborer         | 2                     | \$0.00                             | \$58.64                              | \$58                      |
| 928G Totals             | 1                     | \$77.71<br>\$77.71                 | \$34.41<br>\$93.05                   | \$112<br>\$170            |
| l otals                 |                       | \$11.11                            | \$93.03                              | \$170                     |
| B-8 - Large I           | Building Demoli       | tion                               |                                      |                           |
|                         | LABOR                 |                                    |                                      |                           |
| General Laborer         | 2                     | \$0.00                             | \$58.64                              | \$58                      |
| Foreman                 | 1                     | \$0.00                             | \$82.88                              | \$82                      |
|                         |                       | \$0.00                             |                                      | \$(<br>\$(                |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(                       |
| E(                      | QUIPMENT              | ψ0.00                              |                                      | Ψ                         |
| 928G                    | 1                     | \$77.71                            | \$34.41                              | \$112                     |
| 20 Ton Crane            | 1                     | \$98.00                            | \$33.30                              | \$13                      |
| Dump Truck (10-12 yd3 ) | 2                     | \$112.68                           | \$61.20                              | \$173                     |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(<br>\$(                |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$0                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$0                       |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(<br>\$(                |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
| Totals                  |                       | \$288.39                           | \$270.43                             | \$558                     |
|                         |                       | •                                  | <u>'</u>                             |                           |
| R-9 - Concre            | ete Wall Demoli       |                                    |                                      |                           |
|                         |                       |                                    | A447.00                              | \$117                     |
| General Laborer         | 4                     | \$0.00                             | \$117.28                             |                           |
|                         | 1                     | \$0.00<br>\$0.00<br>\$9.30         | \$117.28<br>\$82.88<br>\$34.00       | \$82<br>\$43              |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS                |               |              |                        |                          |                    |
|---------------------------------|---------------|--------------|------------------------|--------------------------|--------------------|
|                                 |               | Standard     | EQUIPMENT<br>UNIT COST | TOTAL LABOR<br>UNIT COST | TOTAL<br>COST      |
| ACTIVITY AND FLEET              |               | Crew Size    | (Hourly)               | (Hourly)                 | (Hourly)           |
| B-10\                           | r - General   | Compacti     | on                     |                          |                    |
| General Laborer                 |               | 1            | \$0.00                 | \$29.32                  | \$29.32            |
| CS533E Vibratory Roller         |               | 1            | \$55.06                | \$34.41                  | \$89.47            |
| Totals                          |               |              | \$55.06                | \$63.73                  | \$118.79           |
| B-11L - Fine Gradi              | ng for Eva    | poration P   | ond Liner Base         |                          |                    |
| General Laborer                 |               | 1            | \$0.00                 | \$29.32                  | \$29.3             |
| 14G/H                           |               | 1            | \$186.72               | \$37.12                  | \$223.8            |
| Totals                          |               |              | \$186.72               | \$66.44                  | \$253.1            |
| D.                              | 11M - Back    | rhaa Wark    |                        |                          |                    |
| 420D 4WD Backhoe                | I IIVI - Dack | 1            | \$42.35                | \$34.41                  | \$76.7             |
| Totals                          |               | -            | \$42.35                | \$34.41                  | \$76.7             |
|                                 |               |              | ¥ :=:•••               | **                       | *                  |
| B-12G - Rip-F                   | Rap Machii    | ne Placed    | (Modified)             |                          |                    |
| 966G                            |               | 1            | \$73.88                | \$34.41                  | \$108.2            |
| 325C                            |               | 1            | \$81.37                | \$37.12                  | \$118.4            |
| Light Truck - 1.5 Ton           |               | 1            | \$31.13                | \$0.00                   | \$31.1             |
| Totals                          |               |              | \$186.38               | \$71.53                  | \$257.9            |
| B-13 - Grout                    | od Rin-Rai    | n & Gahior   | n Rackote              |                          |                    |
| General Laborer                 | eu Nip-Na     | 4            | \$0.00                 | \$117.28                 | \$117.2            |
| Foreman                         |               | 1            | \$0.00                 | \$82.88                  | \$82.8             |
| 20 Ton Crane                    |               | 1            | \$98.00                | \$33.30                  | \$131.3            |
| Totals                          |               |              | \$98.00                | \$233.46                 | \$331.46           |
| R-14 P\                         | VC Drain P    | ina Installa | ation                  |                          |                    |
| Foreman                         | JO DIAMITI    | 1            | \$0.00                 | \$82.88                  | \$82.88            |
| General Laborer                 |               | 4            | \$0.00                 | \$117.28                 | \$117.2            |
| 420D 4WD Backhoe                |               | 1            | \$42.35                | \$34.41                  | \$76.7             |
| Light Truck - 1.5 Ton           |               | 1            | \$31.13                | \$0.00                   | \$31.13            |
| Totals                          |               |              | \$73.48                | \$234.57                 | \$308.0            |
| D.O.                            | Δ             | . Di         |                        |                          |                    |
| Foreman B-2                     | 0 - Remov     | e Pipelines  | \$0.00                 | \$82.88                  | \$82.8             |
| Skilled Laborer                 |               | 1            | \$0.00                 | \$32.10                  | \$32.1             |
| General Laborer                 |               | 1            | \$0.00                 | \$29.32                  | \$29.3             |
| Light Truck - 1.5 Ton           |               | 1            | \$31.13                | \$0.00                   | \$31.1             |
| Totals                          |               |              | \$31.13                | \$144.30                 | \$175.43           |
|                                 | II            | B:           |                        |                          |                    |
| B-22A - HD                      | EP Installa   |              |                        | 000.40                   | 000.44             |
| Skilled Laborer General Laborer |               | 2            | \$0.00<br>\$0.00       | \$32.10<br>\$58.64       | \$32.10<br>\$58.64 |
| D7R                             |               | 1            | \$88.37                | \$34.41                  | \$122.7            |
| Light Truck - 1.5 Ton           |               | 1            | \$31.13                | \$0.00                   | \$31.1             |
| 420D 4WD Backhoe                |               | 1            | \$42.35                | \$34.41                  | \$76.76            |
| Generator 5KW                   |               | 1            | \$12.73                | \$0.00                   | \$12.7             |
| HDEP Welder (pipe or liner)     |               | 1            | \$48.27                | \$0.00                   | \$48.27            |
| Totals                          |               |              | \$222.85               | \$159.56                 | \$382.4            |
| D 00A                           | Install Bar   | had Wire F   | oneo                   |                          |                    |
| General Laborer                 | mstall Bar    | 3            | -ence<br>\$0.00        | \$87.96                  | \$87.9             |
| Light Truck - 1.5 Ton           |               | 1            | \$31.13                | \$0.00                   | \$31.13            |
| Totals                          |               | •            | \$31.13                | \$87.96                  | \$119.0            |
| iotais                          |               |              | Ψ01.10                 | ψ07.50                   | Ψ110.0             |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021
File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| EQUIPMENT FLEETS              |             |                       |                                    |                                      |                           |
|-------------------------------|-------------|-----------------------|------------------------------------|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET            |             | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| B-80C - Install Chain Li      | nk Fence (  | Flatbed tru           | ick has small cr                   | ane)                                 |                           |
| General Laborer               |             | 3                     | \$0.00                             | \$87.96                              | \$87.9                    |
| Light Truck - 1.5 Ton         |             | 1                     | \$31.13                            | \$0.00                               | \$31.1                    |
| Totals                        |             |                       | \$31.13                            | \$87.96                              | \$119.0                   |
|                               |             |                       |                                    |                                      |                           |
| C-14B - Elevated Concrete     | e Slabs (Re | einforced C           | Concrete Shaft (                   |                                      |                           |
| Foreman                       |             | 1                     | \$0.00                             | \$82.88                              | \$82.8                    |
| Supervisor's Truck            |             | 1                     | \$12.82                            | \$0.00                               | \$12.8                    |
| Carpenter                     |             | 16                    | \$0.00                             | \$716.48                             | \$716.4                   |
| General Laborer               |             | 2                     | \$0.00                             | \$58.64                              | \$58.6                    |
| Rodmen (reinforcing concrete) |             | 4                     | \$0.00                             | \$117.28                             | \$117.2                   |
| Cement finisher               |             | 2                     | \$0.00                             | \$64.20                              | \$64.2                    |
| Gas Engine Vibrator           |             | 1                     | \$5.88                             | \$17.23                              | \$23.1                    |
| Concrete Pump                 |             | 1                     | \$114.80                           | \$0.00                               | \$114.8                   |
| Totals                        |             |                       | \$133.50                           | \$1,056.71                           | \$1,190.2                 |
| C-14D - Concrete Walls Formed | d in Place  | (Reinforce            | d Concrete Adit                    | Bulkheads)                           |                           |
| Foreman                       |             | 1                     | \$0.00                             | \$82.88                              | \$82.8                    |
| Supervisor's Truck            |             | 1                     | \$12.82                            | \$0.00                               | \$12.8                    |
| Carpenter                     |             | 18                    | \$0.00                             | \$806.04                             | \$806.0                   |
| General Laborer               |             | 2                     | \$0.00                             | \$58.64                              | \$58.6                    |
| Rodmen (reinforcing concrete) |             | 2                     | \$0.00                             | \$58.64                              | \$58.6                    |
| Cement finisher               |             | 1                     | \$0.00                             | \$32.10                              | \$32.1                    |
| Gas Engine Vibrator           |             | 1                     | \$5.88                             | \$17.23                              | \$23.1                    |
| Concrete Pump                 |             | 1                     | \$114.80                           | \$0.00                               | \$114.8                   |
| Totals                        |             |                       | \$133.50                           | \$1.055.53                           | \$1,189.0                 |

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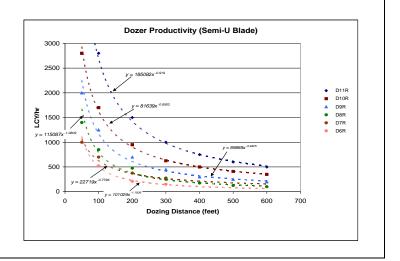
#### Closure Cost Estimate Productivity

### Productivity - Bulldozers

| Dozer Specifications                   |       |       |       |       |       |       |  |  |
|--|-------|-------|-------|-------|-------|-------|--|--|
| Description                            | D11R  | D10R  | D9R   | D8R   | D7R   | D6R   |  |  |
| Blade Width (SU) (ft)                  | 18.33 | 15.92 | 14.17 | 12.92 | 12.08 | 10.67 |  |  |
| Shank Guage (3 shanks) (ft)            | 9.83  | 8.67  | 7.67  | 7.08  | 6.5   | 6.5   |  |  |
| Pocket Spacing (ft)                    | 4.75  | 4.33  | 3.87  | 3.58  | 3.25  | 3.25  |  |  |
| Ripping Width (Ripper + 1 Pocket) (ft) | 14.58 | 13    | 11.54 | 10.66 | 9.75  | 9.75  |  |  |
| Ripping Speed (mph)                    | 1     | 1     | 1     | 1     | 1     | 1     |  |  |
| Ripping Maneuver (turn) Time (min)     | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  |  |  |
| Altitude Deration Factor               | 1     | 1     | 1     | 1     | 1     | 1     |  |  |
| Ripping Hourly Production (excluding   |       |       |       |       |       |       |  |  |
| maneuvering time) (ft)                 | 5,280 | 5,280 | 5,280 | 5,280 | 5,280 | 5,280 |  |  |

Source: Caterpillar Performance Handbook Edition 35

| Dozer Productivity vs. Grading Distance |                                    |         |               |                    |               |              |  |  |  |
|---|------------------------------------|---------|---------------|--------------------|---------------|--------------|--|--|--|
| A                                       |                                    |         | Production (L | CY/hr)             |               |              |  |  |  |
| Average<br>Dozing<br>Distance<br>(feet) | D11R                               | D10R    | D9R           | D8R                | D7R           | D6R          |  |  |  |
| 50                                      | 4,800                              | 2,800   | 2,000         | 1,400              | 1,000         |              |  |  |  |
| 100                                     | 2,800                              | 1,700   | 1,250         | 850                | 700           | 520          |  |  |  |
| 200                                     | 1,500                              | 950     | 700           | 475                | 375           | 210          |  |  |  |
| 300                                     | 1,000                              | 625     | 450           | 275                | 250           | 150          |  |  |  |
| 400                                     | 750                                | 500     | 300           | 175                |               |              |  |  |  |
| 500                                     | 600                                | 410     | 250           | 125                |               |              |  |  |  |
| 600                                     | 500                                | 350     | 200           | 100                |               |              |  |  |  |
|   |                                    |         | Source:       | Caterpillar Perfor | mance Handboo | k Edition 35 |  |  |  |
| dozer productivity                      | = k x Dozing Distance <sup>p</sup> |         |               |                    |               |              |  |  |  |
| (see graph                              |                                    |         |               |                    |               |              |  |  |  |
| k                                       | = 185082                           | 81639   | 89889         | 115087             | 22719         | 101029       |  |  |  |
| P                                       | = -0.919                           | -0.8502 | -0.9425       | -1.0809            | -0.7796       | -1.1506      |  |  |  |



#### Closure Cost Estimate Productivity

### Productivity - Bulldozers (cont.)

| % Grade vs. Dozing Factor                           |                   |  |  |  |  |  |  |
|---|-------------------|--|--|--|--|--|--|
| % Grade   | Dozing Factor     |  |  |  |  |  |  |
| -30   | 1.6               |  |  |  |  |  |  |
| -20   | 1.4               |  |  |  |  |  |  |
| -10   | 1.2               |  |  |  |  |  |  |
| 0   | 1                 |  |  |  |  |  |  |
| 10  | 8.0               |  |  |  |  |  |  |
| 20  | 0.55              |  |  |  |  |  |  |
| 30  | 0.3               |  |  |  |  |  |  |
|   |                   |  |  |  |  |  |  |
| Source: Caterpillar Performance Handbook Edition 35 |                   |  |  |  |  |  |  |
| % Grade Dozing Factor =                             | -0.0214x + 0.9786 |  |  |  |  |  |  |
| (see graph)   |                   |  |  |  |  |  |  |

| Job Condition Correction Factors - Bulldozers        |                          |  |  |  |  |  |  |
|--|--------------------------|--|--|--|--|--|--|
| OPERATOR   |                          |  |  |  |  |  |  |
| Average  | 0.75                     |  |  |  |  |  |  |
| MATERIAL (1)   |                          |  |  |  |  |  |  |
| Loose stockpile                                      | 1.2                      |  |  |  |  |  |  |
| Normal   | 1                        |  |  |  |  |  |  |
| Hard to cut; frozen —                                |                          |  |  |  |  |  |  |
| with tilt cylinder                                   | 0.8                      |  |  |  |  |  |  |
| Hard to drift; "dead" (dry,non-cohesive              |                          |  |  |  |  |  |  |
| material) or very sticky material                    | 0.8                      |  |  |  |  |  |  |
| Rock, ripped or blasted                              | 0.6                      |  |  |  |  |  |  |
| SLOT DOZING OR SIDE BY SIDE (1)                      | 1.2                      |  |  |  |  |  |  |
| VISIBILITY   |                          |  |  |  |  |  |  |
| Good conditions                                      | 1                        |  |  |  |  |  |  |
| JOB EFFICIENCY                                       |                          |  |  |  |  |  |  |
| 50 min/hr  | 0.83                     |  |  |  |  |  |  |
| <ol> <li>Selected in facility worksheets.</li> </ol> |                          |  |  |  |  |  |  |
| Other factors included as standard factors.          |                          |  |  |  |  |  |  |
| Source: Caterpillar Perform                          | ance Handbook Edition 35 |  |  |  |  |  |  |

| Material Densities(1)  Material lb/cy kg/m <sup>3</sup> |                           |                       |  |  |  |  |  |  |  |
|---|---------------------------|-----------------------|--|--|--|--|--|--|--|
|   | ,                         |                       |  |  |  |  |  |  |  |
| Alluvium  | 2,900                     | 1,720                 |  |  |  |  |  |  |  |
| Basalt  | 3,300                     | 1,960                 |  |  |  |  |  |  |  |
| Clay - Dry  | 2,500                     | 1,480                 |  |  |  |  |  |  |  |
| Granite - broken  | 2,800                     | 1,660                 |  |  |  |  |  |  |  |
| Gravel  | 2,550                     | 1,510                 |  |  |  |  |  |  |  |
| LS - broken   | 2,600                     | 1,540                 |  |  |  |  |  |  |  |
| LS - crushed  | 2,600                     | 1,540                 |  |  |  |  |  |  |  |
| Sandstone   | 2,550                     | 1,510                 |  |  |  |  |  |  |  |
| Shale   | 2,100                     | 1,250                 |  |  |  |  |  |  |  |
| Stone - crushed   | 2,700                     | 1,600                 |  |  |  |  |  |  |  |
| Tailings - Coarse (dry, loose sand)                     | 2,400                     | 1,420                 |  |  |  |  |  |  |  |
| Tailings - Slimes (loose sand & clay)                   | 2,700                     | 1,600                 |  |  |  |  |  |  |  |
| Topsoil   | 1,600                     | 950                   |  |  |  |  |  |  |  |
| (1) Source  | : Caterpillar Performance | e Handbook Edition 35 |  |  |  |  |  |  |  |

Note: uses Sand & Gravel - Dry from Caterpillar Handbook

#### Closure Cost Estimate Productivity

### Productivity - Scrapers

| Scraper Specifications Description 631G 637G |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| 631G   | 637G  |  |  |  |  |  |  |
| 100,600                                      | 112,760   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |
| 24   | 24  |  |  |  |  |  |  |
| 34   | 34  |  |  |  |  |  |  |
| 29   | 29  |  |  |  |  |  |  |
| One D10R                                     | Self*   |  |  |  |  |  |  |
| 1  | 1   |  |  |  |  |  |  |
| 1  | 1   |  |  |  |  |  |  |
| 1  | 1   |  |  |  |  |  |  |
| 3  | 3   |  |  |  |  |  |  |
| 1  | 1   |  |  |  |  |  |  |
|  | 631G<br>100,600<br>24<br>34<br>29<br>One D10R<br>1<br>1 |  |  |  |  |  |  |

\* Requires pair

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

|  |           |              |                        | Dov | vnhill Scrape | r Speed - Gr   | ade Retardin | g vs. Effect | ive Grade                 | (Grade - R | olling Res | istance) |    |    |
|--|-----------|--------------|------------------------|-----|---------------|----------------|--------------|--------------|---------------------------|------------|------------|----------|----|----|
| Weight of M                                      | Materials |              |                        |     | 63            | 1G             |              |              | 637G PP                   |            |            |          |    |    |
| Material   | lb/cy     | Scraper Load | Loaded<br>Weight (lbs) | 22  | 16            | 10             | 5            | 1            | Loaded<br>Weight<br>(lbs) | 25         | 15         | 10       | 5  | 1  |
| Alluvium   | 2,900     | 84,100       | 184,700                | 7.5 | 10            | 13             | 33           | 33           | 196,860                   | 7          | 10         | 18.5     | 34 | 34 |
| Basalt   | 3,300     | 95,700       | 196,300                | 7.5 | 10            | 13             | 24.5         | 33           | 208,460                   | 7          | 10         | 18.5     | 25 | 34 |
| Clay - Dry                                       | 2,500     | 72,500       | 173,100                | 7.5 | 10            | 13             | 33           | 33           | 185,260                   | 7          | 10         | 18.5     | 34 | 34 |
| Granite - broken                                 | 2,800     | 81,200       | 181,800                | 7.5 | 10            | 13             | 33           | 33           | 193,960                   | 7          | 10         | 18.5     | 34 | 34 |
| Gravel   | 2,550     | 73,950       | 174,550                | 7.5 | 10            | 13             | 33           | 33           | 186,710                   | 7          | 10         | 18.5     | 34 | 34 |
| LS - broken                                      | 2,600     | 75,400       | 176,000                | 7.5 | 10            | 13             | 33           | 33           | 188,160                   | 7          | 10         | 18.5     | 34 | 34 |
| LS - crushed                                     | 2,600     | 75,400       | 176,000                | 7.5 | 10            | 13             | 33           | 33           | 188,160                   | 7          | 10         | 18.5     | 34 | 34 |
| Sandstone  | 2,550     | 73,950       | 174,550                | 7.5 | 10            | 13             | 33           | 33           | 186,710                   | 7          | 10         | 18.5     | 34 | 34 |
| Shale  | 2,100     | 60,900       | 161,500                | 7.5 | 10            | 18             | 33           | 33           | 173,660                   | 10         | 13.5       | 18.5     | 34 | 34 |
| Stone - crushed                                  | 2,700     | 78,300       | 178,900                | 7.5 | 10            | 13             | 33           | 33           | 191,060                   | 7          | 10         | 18.5     | 34 | 34 |
| Tailings - Coarse (dry, loose sand)              | 2,400     | 69,600       | 170,200                | 7.5 | 10            | 13             | 33           | 33           | 182,360                   | 7          | 10         | 18.5     | 34 | 34 |
| Tailings - Slimes (loose sand & clay)            | 2,700     | 78,300       | 178,900                | 7.5 | 10            | 13             | 33           | 33           | 191,060                   | 7          | 10         | 18.5     | 34 | 34 |
| Topsoil  | 1,600     | 46,400       | 147,000                | 7.5 | 10            | 18             | 33           | 33           | 159,160                   | 10         | 13.5       | 18.5     | 34 | 34 |
|  | •         | •            | Empty                  | 10  | 18            | 24.5           | 33           | 33           | Empty                     | 10         | 13.5       | 18.5     | 34 | 34 |
| Source: Caterpillar Performance Handbook Edition |           |              |                        |     |               | ook Edition 34 |              |              |                           |            |            |          |    |    |

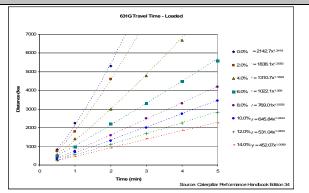
#### Closure Cost Estimate Productivity

Source: Caterpillar Performance Handbook Edition 35

Source: Caterpillar Performance Handbook Edition 35

#### Productivity - Scrapers (cont.) 631G Scraper Travel Time - Uphill Loaded Total Resistance (%) (rolling + grade) 2142.7 1838.1 1310.7 1022.1 769.01 645.84 531.04 452.07 825 750 550 2,250 5,300 4,600 1.3418 3,000 2,200 1,600 1,300 1,100 6,700 4,500 3,300 2,750 2,250 1,850 1.1893 490 375 300 1,000 750 700 3,300 2,500 2,000 1,700 1,400 5,600 4,200 3,450 2,800 2,250 1.066 1.0558 1.0424 1.0453 1.0089 250 225 550 450 900 distance Travel Time (min) =

k



|   | 631G Scraper Travel Time - Uphill Empty |       |       |       |       |       |        |        |  |
|---|---|-------|-------|-------|-------|-------|--------|--------|--|
| Total Resistance (%)  |   |       |       |       |       |       |        |        |  |
| (rolling + grade)   | 0.5                                     | 1     | 2     | 3     | 4     | 5     | k      | р      |  |
| 0   | 1,100                                   | 2,550 | 5,550 |       |       |       | 2496.9 | 1.1675 |  |
| 2   | 950                                     | 2,400 | 5,300 |       |       |       | 2294.8 | 1.24   |  |
| 4   | 800                                     | 2,100 | 4,750 |       |       |       | 1998.3 | 1.2849 |  |
| 6   | 700                                     | 1,600 | 3,550 | 5,550 |       |       | 1557.5 | 1.1566 |  |
| 8   | 600                                     | 1,300 | 2,750 | 4,300 | 5,750 |       | 1287.8 | 1.0891 |  |
| 10  | 500                                     | 1,100 | 2,250 | 3,450 | 4,550 | 5,750 | 1068.1 | 1.0552 |  |
| 12  | 450                                     | 900   | 1,950 | 2,950 | 3,950 | 4,950 | 923.56 | 1.0492 |  |
| 14  | 375                                     | 800   | 1,600 | 2,500 | 3,300 | 4,200 | 783.37 | 1.0444 |  |
| Travel Time (min) = $\sqrt[2]{\frac{\text{distance}}{K}}$ Source: Caterollar Performance Handbook Edition 35. |   |       |       |       |       |       |        |        |  |

7000 ◆ 0.0% y = 2496.9x<sup>1.1675</sup> 6000 ■ 2.0% y = 2294.8x1.24 5000 ▲ 4.0% y = 1998.3x1.2849 ■ 6.0% y = 1577.5x1.1586 • 8.0% y = 1287.8x1.0891 3000 • 10.0% y = 1068.1x1.0552 2000 + 12.0% y = 923.56x1.0492 - 14.0% y = 783.37x1.044 Time (min) Source: Caterpillar Performance Handbook Edition 34

631G Travel Time - Uphill Empty

#### Productivity - Scrapers (cont.)

|                      | 637G Push-Pull Scraper Travel Time - Uphill Loaded |       |          |       |       |       |        |        |  |  |  |  |  |
|----------------------|--|-------|----------|-------|-------|-------|--------|--------|--|--|--|--|--|
| Total Resistance (%) |  |       | Time (mi | n)    |       |       |        |        |  |  |  |  |  |
| (rolling + grade)    | 0.5  | 1     | 2        | 3     | 4     | 5     | k      | р      |  |  |  |  |  |
| 0                    | 1,000  | 2,500 | 5,550    |       |       |       | 2402.9 | 1.2362 |  |  |  |  |  |
| 2                    | 850  | 2,200 | 5,150    |       |       |       | 2127.6 | 1.2995 |  |  |  |  |  |
| 4                    | 700  | 1,700 | 3,900    | 6,250 |       |       | 1659.4 | 1.2212 |  |  |  |  |  |
| 6                    | 600  | 1,300 | 2,750    | 4,300 | 5,750 |       | 1287.8 | 1.0891 |  |  |  |  |  |
| 8                    | 500  | 1,100 | 2,200    | 3,300 | 4,500 | 5,600 | 1059.1 | 1.0421 |  |  |  |  |  |
| 10                   | 400  | 850   | 1,750    | 2,700 | 3,600 | 4,475 | 839.89 | 1.0503 |  |  |  |  |  |
| 12                   | 375  | 750   | 1,500    | 2,300 | 3,000 | 3,800 | 751.58 | 1.0055 |  |  |  |  |  |
| 14                   | 275  | 600   | 1,300    | 2,000 | 2,650 | 3,250 | 595.28 | 1.0794 |  |  |  |  |  |
|                      |  |       | •        |       |       |       |        |        |  |  |  |  |  |

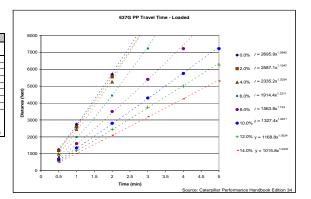
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

|               |        | 637G PP Travel Time - Loaded                                   |
|---------------|--------|--|
|               | 8000 T | 77   |
|               | 7000   | ◆ 0.00% y = 2402.9x <sup>1.2802</sup>                          |
|               | 6000   | ■ 2.0% y = 2127.6x <sup>1.2066</sup>                           |
| _             | 5000   | ▲ 4.0% V = 1659.4x12212  |
| Distance (fee | 4000   | ■ 6.0% y = 1287.8×1×1000                                       |
| Dista         | 3000   | • a.0% y = 1059.1xt.oss1 • 10.0% y = 839.88xt.oss3             |
|               | 2000   | 10.0% 7  |
|               | 1000   | -14.0% y = 595.28x <sup>1.0794</sup>                           |
|               | ۰      | <b>₽</b> HPP   |
|               | 0      | 1 2 3 4 5  |
|               |        | Time (min) Source: Caterpillar Performance Handbook Edition 34 |

|                      | 637G Push-Pull Scraper Travel Time - Uphill Empty  Total Resistance (%)  Time (min) |       |       |       |       |       |        |        |  |  |
|----------------------|---|-------|-------|-------|-------|-------|--------|--------|--|--|
| Total Resistance (%) |   |       |       |       |       |       |        |        |  |  |
| (rolling + grade)    | 0.5   | 1     | 2     | 3     | 4     | 5     | k      | р      |  |  |
| 0                    | 1,250   | 2,750 | 5,700 |       |       |       | 2695.9 | 1.0945 |  |  |
| 2                    | 1,200   | 2,600 | 5,550 |       |       |       | 2587.1 | 1.1047 |  |  |
| 4                    | 990   | 2,450 | 5,250 |       |       |       | 2335.2 | 1.0234 |  |  |
| 6                    | 800   | 2,000 | 4,450 | 7,216 |       |       | 1914.4 | 1.2211 |  |  |
| 8                    | 700   | 1,600 | 3,500 | 5,400 | 7,216 |       | 1563.8 | 1.124  |  |  |
| 10                   | 625   | 1,350 | 2,800 | 4,300 | 5,750 | 7,216 | 1327.4 | 1.0611 |  |  |
| 12                   | 550   | 1,200 | 2,450 | 3,750 | 5,000 | 6,250 | 1168.8 | 1.0524 |  |  |
| 14                   | 495   | 1,010 | 2,100 | 3,200 | 4,250 | 5,300 | 1015.8 | 1.0337 |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 



#### Productivity - Haul Trucks

| Haul Truck Specifications    |        |        |         |         |         |         |  |  |  |  |  |  |
|------------------------------|--------|--------|---------|---------|---------|---------|--|--|--|--|--|--|
| Description                  | 769D   | 773E   | 777D    | 785C    | 793C    | 797B    |  |  |  |  |  |  |
| Chassis Weight (lb)          | 53,506 | 70,330 | 113,160 | 170,000 | 259,500 | 473,600 |  |  |  |  |  |  |
| Body Weight (lb)             | 17,350 | 20,300 | 34,785  | 36,788  | 70,785  | 104,200 |  |  |  |  |  |  |
| Standard Liner Weight (lb)   | 7,000  | 8,600  | 12,040  | 16,846  | 24,418  | 8,800   |  |  |  |  |  |  |
| Total Truck Weight (lb)      | 77,856 | 99,230 | 159,985 | 223,634 | 354,703 | 586,600 |  |  |  |  |  |  |
| Payload Capacity (cy)        |        |        |         |         |         |         |  |  |  |  |  |  |
| Struck                       | 21.6   | 34.8   | 55      | 78.5    | 126     | 228     |  |  |  |  |  |  |
| Heaped                       | 31.7   | 46     | 78.6    | 102     | 169     | 290     |  |  |  |  |  |  |
| Average                      | 26.65  | 40.4   | 66.8    | 90.25   | 147.5   | 259     |  |  |  |  |  |  |
| Maneuver to Load Time (min)  | 0.7    | 0.7    | 0.7     | 0.7     | 0.7     | 0.7     |  |  |  |  |  |  |
| Maneuver and Dump Time (min) | 1.1    | 1.1    | 1.1     | 1.1     | 1.1     | 1.1     |  |  |  |  |  |  |
| Job Efficiency               | 0.83   | 0.83   | 0.83    | 0.83    | 0.83    | 0.83    |  |  |  |  |  |  |
| Rolling Resistance**         | 2.5    | 2.5    | 2.5     | 2.5     | 2.5     | 2.5     |  |  |  |  |  |  |
| Altitude Deration Factor     | 1      | 1      | 1       | 1       | 1       | 1       |  |  |  |  |  |  |
|                              |        |        |         | 1       | l       | 1       |  |  |  |  |  |  |

"A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

|                                       |                |                         |                         |                         |                        |    | Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance) |    |    |                           |    |      |    |    |                 |    |      |    |    |
|---------------------------------------|----------------|-------------------------|-------------------------|-------------------------|------------------------|----|--|----|----|---------------------------|----|------|----|----|-----------------|----|------|----|----|
|                                       | Weight of Mate | rials                   |                         |                         |                        |    | 769D   |    |    |                           |    | 773E |    |    |                 |    | 777D |    |    |
| Material                              | lb/cy          | Truck (769D)<br>Load lb | Truck (773E)<br>Load lb | Truck (777D)<br>Load Ib | Loaded<br>Weight (lbs) | 20 | 15   | 10 | 5  | Loaded<br>Weight<br>(lbs) | 20 | 15   | 10 | 5  | Weight<br>(lbs) | 20 | 15   | 10 | 5  |
| Alluvium                              | 2,900          | 77,285                  | 117,160                 | 193,720                 | 155,141                | 11 | 11   | 15 | 26 | 216,390                   | 7  | 7    | 13 | 23 | 353,705         | 7  | 9    | 12 | 29 |
| Basalt                                | 3,300          | 87,945                  | 133,320                 | 220,440                 | 165,801                | 11 | 11   | 11 | 20 | 232,550                   | 7  | 7    | 13 | 23 | 380,425         | 7  | 7    | 12 | 21 |
| Clay - Dry                            | 2,500          | 66,625                  | 101,000                 | 167,000                 | 144,481                | 11 | 11   | 15 | 26 | 200,230                   | 7  | 9    | 13 | 23 | 326,985         | 7  | 9    | 16 | 29 |
| Granite - broken                      | 2,800          | 74,620                  | 113,120                 | 187,040                 | 152,476                | 11 | 11   | 15 | 26 | 212,350                   | 7  | 7    | 13 | 23 | 347,025         | 7  | 9    | 12 | 29 |
| Gravel                                | 2,550          | 67,958                  | 103,020                 | 170,340                 | 145,814                | 11 | 11   | 15 | 26 | 202,250                   | 7  | 9    | 13 | 23 | 330,325         | 7  | 9    | 16 | 29 |
| LS - broken                           | 2,600          | 69,290                  | 105,040                 | 173,680                 | 147,146                | 11 | 11   | 15 | 26 | 204,270                   | 7  | 9    | 13 | 23 | 333,665         | 7  | 9    | 12 | 29 |
| LS - crushed                          | 2,600          | 69,290                  | 105,040                 | 173,680                 | 147,146                | 11 | 11   | 15 | 26 | 204,270                   | 7  | 9    | 13 | 23 | 333,665         | 7  | 9    | 12 | 29 |
| Sandstone                             | 2,550          | 67,958                  | 103,020                 | 170,340                 | 145,814                | 11 | 11   | 15 | 26 | 202,250                   | 7  | 9    | 13 | 23 | 330,325         | 7  | 9    | 16 | 29 |
| Shale                                 | 2,100          | 55,965                  | 84,840                  | 140,280                 | 133,821                | 11 | 11   | 15 | 26 | 184,070                   | 7  | 9    | 13 | 31 | 300,265         | 7  | 9    | 16 | 29 |
| Stone - crushed                       | 2,700          | 71,955                  | 109,080                 | 180,360                 | 149,811                | 11 | 11   | 15 | 26 | 208,310                   | 7  | 7    | 13 | 23 | 340,345         | 7  | 9    | 12 | 29 |
| Tailings - Coarse (dry, loose sand)   | 2,400          | 63,960                  | 96,960                  | 160,320                 | 141,816                | 11 | 11   | 15 | 26 | 196,190                   | 7  | 9    | 13 | 23 | 320,305         | 7  | 9    | 16 | 29 |
| Tailings - Slimes (loose sand & clay) | 2,700          | 71,955                  | 109,080                 | 180,360                 | 149,811                | 11 | 11   | 15 | 26 | 208,310                   | 7  | 7    | 13 | 23 | 340,345         | 7  | 9    | 12 | 29 |
| Topsoil                               | 1,600          | 42,640                  | 64,640                  | 106,880                 | 120,496                | 11 | 11   | 15 | 26 | 163,870                   | 7  | 9    | 17 | 31 | 266,865         | 9  | 12   | 16 | 29 |
|                                       |                |                         | •                       | •                       | Empty                  | 15 | 15   | 26 | 36 | Empty                     | 13 | 17   | 23 | 42 | Empty           | 16 | 16   | 29 | 39 |

Source: Caterpillar Performance Handbook Edition 35

|                                       |                 |                         |                         |                         |                        |    | Downhil | Haul Truck | k Speed - C | Grade Retar               | rding vs. I | Effective ( | Grade (Gra | ide - Rolli | ing Resista               | ance)       |                 |               |               |
|---------------------------------------|-----------------|-------------------------|-------------------------|-------------------------|------------------------|----|---------|------------|-------------|---------------------------|-------------|-------------|------------|-------------|---------------------------|-------------|-----------------|---------------|---------------|
|                                       | Weight of Mater | rials                   |                         |                         |                        |    | 785C    |            |             |                           |             | 793C        |            |             |                           |             | 797B            |               | $\neg$        |
| Material                              | lb/cy           | Truck (785C)<br>Load lb | Truck (793C)<br>Load lb | Truck (797B)<br>Load lb | Loaded<br>Weight (lbs) | 20 | 15      | 10         | 5           | Loaded<br>Weight<br>(lbs) | 20          | 15          | 10         | 5           | Loaded<br>Weight<br>(lbs) | 20          | 15              | 10            | 5             |
| Alluvium                              | 2,900           | 261,725                 | 427,750                 | 751,100                 | 485,359                | 8  | 8       | 14         | 27          | 782,453                   | 7           | 7           | 10         | 17          | 1,337,700                 | 7           | 7               | 9             | 17            |
| Basalt                                | 3,300           | 297,825                 | 486,750                 | 854,700                 | 521,459                | 8  | 8       | 14         | 27          | 841,453                   | 7           | 7           | 10         | 17          | 1,441,300                 | 7           | 7               | 9             | 17            |
| Clay - Dry                            | 2,500           | 225,625                 | 368,750                 | 647,500                 | 449,259                | 8  | 11      | 14         | 36          | 723,453                   | 7           | 7           | 10         | 25          | 1,234,100                 | 7           | 7               | 9             | 23            |
| Granite - broken                      | 2,800           | 252,700                 | 413,000                 | 725,200                 | 476,334                | 8  | 8       | 14         | 27          | 767,703                   | 7           | 7           | 10         | 17          | 1,311,800                 | 7           | 7               | 9             | 17            |
| Gravel                                | 2,550           | 230,138                 | 376,125                 | 660,450                 | 453,772                | 8  | 8       | 14         | 36          | 730,828                   | 7           | 7           | 10         | 25          | 1,247,050                 | 7           | 7               | 9             | 23            |
| LS - broken                           | 2,600           | 234,650                 | 383,500                 | 673,400                 | 458,284                | 8  | 8       | 14         | 27          | 738,203                   | 7           | 7           | 10         | 25          | 1,260,000                 | 7           | 7               | 9             | 23            |
| LS - crushed                          | 2,600           | 234,650                 | 383,500                 | 673,400                 | 458,284                | 8  | 8       | 14         | 27          | 738,203                   | 7           | 7           | 10         | 25          | 1,260,000                 | 7           | 7               | 9             | 23            |
| Sandstone                             | 2,550           | 230,138                 | 376,125                 | 660,450                 | 453,772                | 8  | 8       | 14         | 36          | 730,828                   | 7           | 7           | 10         | 25          | 1,247,050                 | 7           | 7               | 9             | 23            |
| Shale                                 | 2,100           | 189,525                 | 309,750                 | 543,900                 | 413,159                | 8  | 11      | 14         | 36          | 664,453                   | 7           | 7           | 10         | 25          | 1,130,500                 | 7           | 7               | 13            | 23            |
| Stone - crushed                       | 2,700           | 243,675                 | 398,250                 | 699,300                 | 467,309                | 8  | 8       | 14         | 27          | 752,953                   | 7           | 7           | 10         | 17          | 1,285,900                 | 7           | 7               | 9             | 23            |
| Tailings - Coarse (dry, loose sand)   | 2,400           | 216,600                 | 354,000                 | 621,600                 | 440,234                | 8  | 11      | 14         | 36          | 708,703                   | 7           | 7           | 10         | 25          | 1,208,200                 | 7           | 7               | 9             | 23            |
| Tailings - Slimes (loose sand & clay) | 2,700           | 243,675                 | 398,250                 | 699,300                 | 467,309                | 8  | 8       | 14         | 27          | 752,953                   | 7           | 7           | 10         | 17          | 1,285,900                 | 7           | 7               | 9             | 23            |
| Topsoil                               | 1,600           | 144,400                 | 236,000                 | 414,400                 | 368,034                | 8  | 11      | 19         | 36          | 590,703                   | 7           | 10          | 13         | 25          | 1,001,000                 | 7           | 9               | 13            | 23            |
|                                       |                 |                         |                         |                         | Empty                  | 14 | 19      | 36         | 36          | Empty                     | 10          | 13          | 17         | 33          | Empty                     | 13          | 17              | 23            | 42            |
|                                       |                 |                         |                         |                         |                        |    |         |            |             |                           |             |             |            |             | s                         | ource: Cate | rpillar Perfori | mance Handboo | ok Edition 35 |

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#### Productivity - Haul Trucks (cont.)

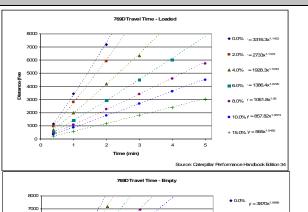
| 769D Haul Truck Travel Time - Uphill Loaded |       |       |          |       |       |       |        |        |  |  |  |  |
|---|-------|-------|----------|-------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%)                        |       |       | Time (mi | n)    |       |       |        |        |  |  |  |  |
| (rolling + grade)                           | 0.4   | 1     | 2        | 3     | 4     | 5     | k      | р      |  |  |  |  |
| 0   | 1,148 | 3,428 | 7,183    |       |       |       | 3316.3 | 1.1422 |  |  |  |  |
| 4   | 689   | 1,984 | 4,198    | 6,330 |       |       | 1928.3 | 1.1033 |  |  |  |  |
| 6   | 508   | 1,427 | 2,952    | 4,510 | 6,002 |       | 1386.4 | 1.0725 |  |  |  |  |
| 8   | 394   | 1,082 | 2,263    | 3,411 | 4,592 | 5,740 | 1061.8 | 1.06   |  |  |  |  |
| 10  | 328   | 869   | 1,771    | 2,690 | 3,608 | 4,510 | 857.82 | 1.0373 |  |  |  |  |
| 15  | 213   | 574   | 1,181    | 1,804 | 2,394 | 3,018 | 565    | 1.0482 |  |  |  |  |

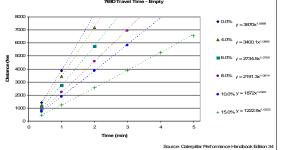
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

| Total Resistance (%) |       |       | Time (mi | n)    |       |       |        | р     |
|----------------------|-------|-------|----------|-------|-------|-------|--------|-------|
| (rolling + grade)    | 0.4   | 1     | 2        | 3     | 4     | 5     | k      |       |
| 0                    | 1,427 | 3,870 |          |       |       |       | 3870   | 1.088 |
| 4                    | 1,246 | 3,444 | 7,183    |       |       |       | 3400.1 | 1.089 |
| 6                    | 1,017 | 2,755 | 5,740    |       |       |       | 2734.5 | 1.07  |
| 8                    | 820   | 2,230 | 4,592    | 6,954 |       |       | 2191.3 | 1.06  |
| 10                   | 722   | 1,870 | 3,870    | 5,838 |       |       | 1872   | 1.039 |
| 15                   | 459   | 1,246 | 2,558    | 3,903 | 5,248 | 6,560 | 1222.9 | 1.05  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 





#### Productivity - Haul Trucks (cont.)

|                      | 773E Haul Truck Travel Time - Uphill Loaded |       |          |       |       |       |        |        |  |  |  |
|----------------------|---|-------|----------|-------|-------|-------|--------|--------|--|--|--|
| Total Resistance (%) |   |       | Time (mi | n)    |       |       |        |        |  |  |  |
| (rolling + grade)    | 0.4   | 1     | 2        | 3     | 4     | 5     | k      | р      |  |  |  |
| 0                    | 1,066                                       | 3,117 | 6,496    |       |       |       | 3027.4 | 1.1254 |  |  |  |
| 4                    | 656   | 1,952 | 4,035    | 6,168 |       |       | 1863.1 | 1.1109 |  |  |  |
| 6                    | 492   | 1,312 | 2,756    | 4,167 | 5,577 | 6,955 | 1304.2 | 1.0507 |  |  |  |
| 8                    | 394   | 1,017 | 2,100    | 3,182 | 4,265 | 5,315 | 1018.2 | 1.0326 |  |  |  |
| 10                   | 328   | 853   | 1,804    | 2,690 | 3,609 | 4,528 | 856.36 | 1.041  |  |  |  |
| 15                   | 226   | 525   | 1,083    | 1,673 | 2,231 | 2,789 | 549.25 | 1.0038 |  |  |  |

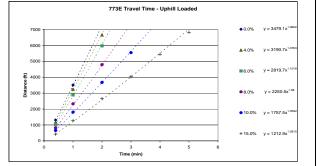
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

|                     | 7                  | 773E Travel Ti  | me - Uphil        | Loaded |   |        |                              |
|---------------------|--------------------|-----------------|-------------------|--------|---|--------|------------------------------|
| 7000                | 4                  |                 |                   |        |   | ♦0.0%  | y = 3027.4x <sup>1.125</sup> |
| 6000                | <del></del>        | <b>_</b>        |                   | ,•     |   | ▲4.0%  | y = 1863.1x <sup>1.110</sup> |
| \$ 4000             | 11                 |                 |                   |        |   | ■6.0%  | y = 1304.2x <sup>1.056</sup> |
| 3000 - Gistance (£) | <del>- / / -</del> |                 | , et <sup>®</sup> | *      |   | ●8.0%  | y = 1018.2x <sup>1.03</sup>  |
| 2000                |                    |                 | +                 |        |   | •10.0% | y = 856.36x <sup>1.0</sup>   |
| 1000                |                    |                 |                   |        |   | +15.0% | y = 549.25x <sup>1.00</sup>  |
| 0                   | 1 2                | 3<br>Time (min) | 4                 | 5      | 6 |        |                              |

| Total Resistance (%) |       |       | Time (mi | n)    |       |       |        |        |
|----------------------|-------|-------|----------|-------|-------|-------|--------|--------|
| (rolling + grade)    | 0.4   | 1     | 2        | 3     | 4     | 5     | k      | р      |
| 0                    | 1,312 | 3,510 | 7,218    |       |       |       | 3479.1 | 1.0602 |
| 4                    | 1,181 | 3,248 | 6,660    |       |       |       | 3190.7 | 1.0763 |
| 6                    | 1,017 | 2,887 | 5,971    |       |       |       | 2819.7 | 1.1018 |
| 8                    | 820   | 2,329 | 4,790    | 7,218 |       |       | 2250.5 | 1.08   |
| 10                   | 656   | 1,804 | 3,675    | 5,545 |       |       | 1757.5 | 1.0592 |
| 15                   | 427   | 1,280 | 2,657    | 4,035 | 5,446 | 6,824 | 1212.9 | 1.0915 |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{r}}$ 



#### Productivity - Haul Trucks (cont.)

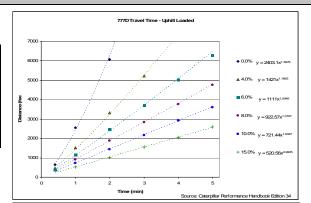
|                      | 777D Haul Truck Travel Time - Uphill Loaded |       |          |       |       |       |        |        |  |  |  |  |  |
|----------------------|---|-------|----------|-------|-------|-------|--------|--------|--|--|--|--|--|
| Total Resistance (%) |   |       | Time (mi | n)    |       |       |        |        |  |  |  |  |  |
| (rolling + grade)    | 0.4   | 1     | 2        | 3     | 4     | 5     | k      | р      |  |  |  |  |  |
| 0                    | 656   | 2,558 | 6,068    |       |       |       | 2403.1 | 1.3876 |  |  |  |  |  |
| 4                    | 459   | 1,509 | 3,313    | 5,215 | 7,085 |       | 1412   | 1.1863 |  |  |  |  |  |
| 6                    | 394   | 1,148 | 2,460    | 3,706 | 5,018 | 6,298 | 1111   | 1.0949 |  |  |  |  |  |
| 8                    |   | 918   | 1,886    | 2,837 | 3,772 | 4,756 | 922.57 | 1.0197 |  |  |  |  |  |
| 10                   |   | 722   | 1,443    | 2,165 | 2,919 | 3,608 | 721.44 | 1.0027 |  |  |  |  |  |
| 15                   |   | 525   | 1,017    | 1,558 | 2,034 | 2,591 | 520.56 | 0.9905 |  |  |  |  |  |

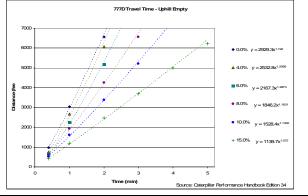
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

| 777D Haul Truck Travel Time - Uphill Empty |     |            |       |       |       |       |        |        |  |  |  |  |
|--|-----|------------|-------|-------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%)                       |     | Time (min) |       |       |       |       |        |        |  |  |  |  |
| (rolling + grade)                          | 0.4 | 1          | 2     | 3     | 4     | 5     | k      | р      |  |  |  |  |
| 0  | 968 | 3,034      | 6,560 |       |       |       | 2929.3 | 1.192  |  |  |  |  |
| 4  | 754 | 2,657      | 6,068 |       |       |       | 2532.8 | 1.2999 |  |  |  |  |
| 6  | 656 | 2,247      | 5,182 |       |       |       | 2167.3 | 1.2873 |  |  |  |  |
| 8  | 607 | 1,935      | 4,248 | 6,560 |       |       | 1846.2 | 1.1831 |  |  |  |  |
| 10   | 525 | 1,607      | 3,378 | 5,215 | 7,282 |       | 1528.4 | 1.1332 |  |  |  |  |
| 15   | 410 | 1,197      | 2,460 | 3,706 | 4,986 | 6,232 | 1139.7 | 1.072  |  |  |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 





#### Productivity - Haul Trucks (cont.) 785C Travel Time - Uphill Loaded 785C Haul Truck Travel Time - Uphill Loaded El Time - C, Time (min) 2 5,500 3,370 2,180 1,610 4 400 Total Resistance (%) ♦0.0% y = 2491.1x<sup>1.1872</sup> (rolling + grade) 2491.1 1524.4 923 719.64 820 530 300 240 2,630 1,600 1,000 790 ./i 5,040 3,270 2,480 1.1206 1.1469 1.1233 ▲ 4.0% y = 1524.4x<sup>1.120</sup> 4,400 3,380 5,570 4,200 500 630 370 1,400 770 2,180 1,200 2,920 1,590 3,650 2,000 590.43 227.29 1.1678 1.4863 190 40 ■6.0% y = 923x<sup>1.1409</sup> ● 8.0% y = 719.64x<sup>1.12</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 2000 ●10.0% y = 590.43x<sup>1.16</sup> Source: Caterpillar Performance Handbook Edition 35 + 15.0% y = 227.29x<sup>1.46</sup> 785C Travel Time - Uphill Empty 785C Haul Truck Travel Time - Uphill Empty rotal Resistance (%) (rolling + grade) 7000 Time (min) 0.4 k 8 P 3032.7 0.8852 2785.5 0.9264 2542.3 0.9645 2074.4 0.9446 1780.8 0.9606 1073.1 1.0209 5,780 5,400 5,020 4,000 1,380 1,210 1,060 900 2,870 2,690 2,490 1,960 ◆0.00% y = 3032.7x<sup>0.885</sup> 6,000 ▲4.00% y = 2785.5x<sup>0.92</sup> 1,670 1,030 3,410 2,200 5,190 3,320 6,910 4,410 ■6.00% y = 2542.3x<sup>0.96</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\nu}}$ 8.00% y = 2074.4x<sup>0.9</sup> Source: Caterpillar Performance Handbook Edition 35 • 10.00% y = 1780.8x<sup>0.960</sup> +15.00% y = 1073.1x<sup>1.020</sup> Time (min)

#### Productivity - Haul Trucks (cont.)

| Total Resistance (%) |       | Time (min) |       |       |       |       |        |        |  |  |  |
|----------------------|-------|------------|-------|-------|-------|-------|--------|--------|--|--|--|
| (rolling + grade)    | 0.5   | 1          | 2     | 3     | 4     | 5     | k      | р      |  |  |  |
| 0                    | 1,230 | 2,570      | 5,300 |       |       |       | 2558.8 | 1.0537 |  |  |  |
| 4                    | 800   | 1,600      | 3,400 | 5,190 | 7,000 |       | 1634.8 | 1.0485 |  |  |  |
| 6                    | 520   | 1,090      | 2,300 | 3,560 | 4,760 | 5,970 | 1091.9 | 1.0635 |  |  |  |
| 8                    | 390   | 810        | 1,760 | 2,700 | 3,630 | 4,570 | 820.99 | 1.0743 |  |  |  |
| 10                   | 260   | 630        | 1,200 | 2,180 | 2,930 | 3,690 | 589.82 | 1.1481 |  |  |  |
| 15                   | 150   | 380        | 810   | 1,300 | 1,760 | 2,210 | 355.44 | 1.1605 |  |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

#0.0% y = 2658.8x<sup>1.005</sup>

#0.0% y = 1634.8x<sup>1.000</sup>

#0.0% y = 1634.8x<sup>1.000</sup>

#0.0% y = 1091.9x<sup>1.0008</sup>

#0.0% y = 20.99x<sup>1.0008</sup>

#0.0% y = 20.99x<sup>1.0008</sup>

#0.0% y = 20.99x<sup>1.0008</sup>

#0.0% y = 30.4x<sup>1.0008</sup>

#0.0% y = 30.5.44x<sup>1.0008</sup>

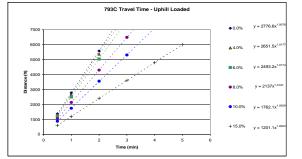
\*15.0% y = 355.44x<sup>1.0008</sup>

793C Travel Time - Uphill Loaded

| 793C Haul Truck Travel Time - Uphill Empty |       |       |       |       |       |       |        |        |  |  |  |  |
|--|-------|-------|-------|-------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%)                       |       | n)    |       |       |       |       |        |        |  |  |  |  |
| (rolling + grade)                          | 0.5   | 1     | 2     | 3     | 4     | 5     | k      | р      |  |  |  |  |
| 0  | 1,380 | 2,780 | 5,580 |       |       |       | 2776.6 | 1.0078 |  |  |  |  |
| 4  | 1,310 | 2,650 | 5,370 |       |       |       | 2651.5 | 1.0177 |  |  |  |  |
| 6  | 1,230 | 2,500 | 5,040 |       |       |       | 2493.2 | 1.0174 |  |  |  |  |
| 8  | 1,060 | 2,140 | 4,300 | 6,490 |       |       | 2137   | 1.0107 |  |  |  |  |
| 10   | 880   | 1,750 | 3,560 | 5,310 |       |       | 1762.1 | 1.0059 |  |  |  |  |
| 15   | 600   | 1,200 | 2,410 | 3,610 | 4,800 | 6,000 | 1201.1 | 1.0003 |  |  |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{\nu}}$ 

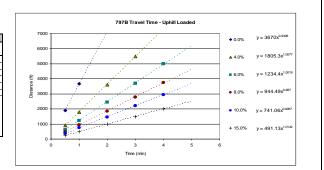
Source: Caterpillar Performance Handbook Edition 35



#### Productivity - Haul Trucks (cont.)

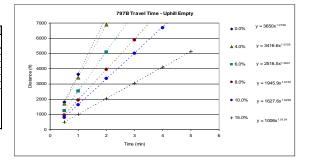
|                      | 797B Haul Truck Travel Time - Uphill Loaded |            |       |       |       |   |        |        |  |  |  |  |  |
|----------------------|---|------------|-------|-------|-------|---|--------|--------|--|--|--|--|--|
| Total Resistance (%) |   | Time (min) |       |       |       |   |        |        |  |  |  |  |  |
| (rolling + grade)    | 0.5   | 1          | 2     | 3     | 4     | 5 | k      | р      |  |  |  |  |  |
| 0                    | 1,900                                       | 3,670      |       |       |       |   | 3670   | 0.9498 |  |  |  |  |  |
| 4                    | 900   | 1,800      | 3,620 | 5,480 |       |   | 1805.3 | 1.0077 |  |  |  |  |  |
| 6                    | 620   | 1,230      | 2,450 | 3,700 | 5,000 |   | 1234.4 | 1.0019 |  |  |  |  |  |
| 8                    | 480   | 940        | 1,850 | 2,790 | 3,750 |   | 944.49 | 0.987  |  |  |  |  |  |
| 10                   | 370   | 750        | 1,460 | 2,220 | 2,950 |   | 741.06 | 0.9957 |  |  |  |  |  |
| 15                   | 240   | 500        | 1,000 | 1,480 | 2,000 |   | 491.13 | 1.0142 |  |  |  |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ Source: Caterpillar Performance Handbook Edition 35



| 797B Haul Truck Travel Time - Uphill Empty |       |            |       |       |       |       |        |        |  |  |  |  |
|--|-------|------------|-------|-------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%)                       |       | Time (min) |       |       |       |       |        |        |  |  |  |  |
| (rolling + grade)                          | 0.5   | 1          | 2     | 3     | 4     | 5     | k      | р      |  |  |  |  |
| 0  | 1,800 | 3,650      |       |       |       |       | 3650   | 1.0199 |  |  |  |  |
| 4  | 1,700 | 3,400      | 6,900 |       |       |       | 3416.6 | 1.0105 |  |  |  |  |
| 6  | 1,240 | 2,520      | 5,100 |       |       |       | 2516.5 | 1.0201 |  |  |  |  |
| 8  | 960   | 1,950      | 3,960 | 5,900 |       |       | 1945.9 | 1.0152 |  |  |  |  |
| 10   | 800   | 1,620      | 3,350 | 5,000 | 6,700 |       | 1627.6 | 1.0239 |  |  |  |  |
| 15   | 500   | 1,000      | 2,040 | 3,050 | 4,100 | 5,130 | 1006   | 1.0124 |  |  |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 



#### Productivity - Articulated Trucks

| Description                   | 725    | 730    | 735    | 740    |
|-------------------------------|--------|--------|--------|--------|
| Chassis Weight (lb)           |        |        |        |        |
| Body Weight (lb)              |        |        |        |        |
| Standard Liner Weight (lb)    |        |        |        |        |
| Operating Weight (Empty) (lb) | 50,120 | 51,220 | 65,830 | 72,070 |
| Payload Capacity (cy)         |        |        |        |        |
| Struck                        | 14.5   | 17.1   | 19.3   | 23.3   |
| Heaped                        | 18.8   | 22.1   | 31.8   | 30.2   |
| Average                       | 16.65  | 19.6   | 25.55  | 26.75  |
| Maneuver to Load Time (min)   | 0.7    | 0.7    | 0.7    | 0.7    |
| Maneuver and Dump Time (min)  | 1.1    | 1.1    | 1.1    | 1.1    |
| Job Efficiency                | 0.83   | 0.83   | 0.83   | 0.83   |
| Rolling Resistance**          | 2.5    | 2.5    | 2.5    | 2.5    |
| Altitude Deration Factor      | 1      | 1      | 1      | 1      |

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

|                                       |                 |                        |                        |                        | Downhill Hau | I Truck Speed | I - Grade Reta | rding vs. Eff | ective Grade    | (Grade - F | Rolling Resi | stance) |    |
|---------------------------------------|-----------------|------------------------|------------------------|------------------------|--------------|---------------|----------------|---------------|-----------------|------------|--------------|---------|----|
| Weig                                  | ht of Materials |                        |                        |                        |              | 725           |                |               |                 | 730        |              |         |    |
| Material                              | lb/cy           | Truck (725)<br>Load Ib | Truck (730)<br>Load lb | Loaded<br>Weight (lbs) | 20           | 15            | 10             | 5             | Weight<br>(lbs) | 20         | 15           | 10      | 5  |
| Alluvium                              | 2,900           | 48,285                 | 56,840                 | 98,405                 | 9            | 9             | 13             | 30            | 108,060         | 5          | 8            | 13      | 29 |
| Basalt                                | 3,300           | 54,945                 | 64,680                 | 105,065                | 5            | 9             | 13             | 22            | 115,900         | 5          | 8            | 13      | 29 |
| Clay - Dry                            | 2,500           | 41,625                 | 49,000                 | 91,745                 | 9            | 13            | 13             | 30            | 100,220         | 8          | 8            | 13      | 29 |
| Granite - broken                      | 2,800           | 46,620                 | 54,880                 | 96,740                 | 9            | 13            | 13             | 30            | 106,100         | 5          | 8            | 13      | 29 |
| Gravel                                | 2,550           | 42,458                 | 49,980                 | 92,578                 | 9            | 13            | 13             | 30            | 101,200         | 8          | 8            | 13      | 29 |
| LS - broken                           | 2,600           | 43,290                 | 50,960                 | 93,410                 | 9            | 13            | 13             | 30            | 102,180         | 8          | 8            | 13      | 29 |
| LS - crushed                          | 2,600           | 43,290                 | 50,960                 | 93,410                 | 9            | 13            | 13             | 30            | 102,180         | 8          | 8            | 13      | 29 |
| Sandstone                             | 2,550           | 42,458                 | 49,980                 | 92,578                 | 9            | 13            | 13             | 30            | 101,200         | 8          | 8            | 13      | 29 |
| Shale                                 | 2,100           | 34,965                 | 41,160                 | 85,085                 | 9            | 13            | 22             | 30            | 92,380          | 8          | 13           | 13      | 29 |
| Stone - crushed                       | 2,700           | 44,955                 | 52,920                 | 95,075                 | 9            | 13            | 13             | 30            | 104,140         | 8          | 8            | 13      | 29 |
| Tailings - Coarse (dry, loose sand)   | 2,400           | 39,960                 | 47,040                 | 90,080                 | 9            | 13            | 13             | 30            | 98,260          | 8          | 8            | 13      | 29 |
| Tailings - Slimes (loose sand & clay) | 2,700           | 44,955                 | 52,920                 | 95,075                 | 9            | 13            | 13             | 30            | 104,140         | 8          | 8            | 13      | 29 |
| Topsoil                               | 1,600           | 26,640                 | 31,360                 | 76,760                 | 9            | 13            | 22             | 30            | 82,580          | 8          | 13           | 22      | 35 |
|                                       |                 |                        |                        | Empty                  | 13           | 13            | 22             | 30            | Empty           | 13         | 13           | 22      | 35 |
|                                       |                 |                        |                        |                        |              |               |                | •             | •               |            |              | •       |    |

|                                       |                 | Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance) |                        |                        |    |     |    |    |                           |         |                   |              |                |
|---------------------------------------|-----------------|--|------------------------|------------------------|----|-----|----|----|---------------------------|---------|-------------------|--------------|----------------|
| Weig                                  | ht of Materials |  |                        |                        |    | 735 |    |    |                           |         | 740               |              |                |
| Material                              | lb/cy           | Truck (735)<br>Load lb   | Truck (740)<br>Load lb | Loaded<br>Weight (lbs) | 20 | 15  | 10 | 5  | Loaded<br>Weight<br>(lbs) | 20      | 15                | 10           | 5              |
| Alluvium                              | 2,900           | 74,095   | 77,575                 | 139,925                | 7  | 9   | 13 | 27 | 149,645                   | 7       | 9                 | 17           | 23             |
| Basalt                                | 3,300           | 84,315   | 88,275                 | 150,145                | 7  | 9   | 13 | 27 | 160,345                   | 7       | 9                 | 13           | 23             |
| Clay - Dry                            | 2,500           | 63,875   | 66,875                 | 129,705                | 7  | 9   | 13 | 27 | 138,945                   | 9       | 13                | 17           | 31             |
| Granite - broken                      | 2,800           | 71,540   | 74,900                 | 137,370                | 7  | 9   | 13 | 27 | 146,970                   | 7       | 9                 | 17           | 23             |
| Gravel                                | 2,550           | 65,153   | 68,213                 | 130,983                | 7  | 9   | 13 | 27 | 140,283                   | 7       | 9                 | 17           | 31             |
| LS - broken                           | 2,600           | 66,430   | 69,550                 | 132,260                | 7  | 9   | 13 | 27 | 141,620                   | 7       | 9                 | 17           | 31             |
| LS - crushed                          | 2,600           | 66,430   | 69,550                 | 132,260                | 7  | 9   | 13 | 27 | 141,620                   | 7       | 9                 | 17           | 31             |
| Sandstone                             | 2,550           | 65,153   | 68,213                 | 130,983                | 7  | 9   | 13 | 27 | 140,283                   | 7       | 9                 | 17           | 31             |
| Shale                                 | 2,100           | 53,655   | 56,175                 | 119,485                | 9  | 9   | 18 | 27 | 128,245                   | 7       | 13                | 17           | 31             |
| Stone - crushed                       | 2,700           | 68,985   | 72,225                 | 134,815                | 7  | 9   | 13 | 27 | 144,295                   | 7       | 9                 | 17           | 23             |
| Tailings - Coarse (dry, loose sand)   | 2,400           | 61,320   | 64,200                 | 127,150                | 7  | 9   | 13 | 27 | 136,270                   | 9       | 13                | 17           | 31             |
| Tailings - Slimes (loose sand & clay) | 2,700           | 68,985   | 72,225                 | 134,815                | 7  | 9   | 13 | 27 | 144,295                   | 7       | 9                 | 17           | 23             |
| Topsoil                               | 1,600           | 40,880   | 42,800                 | 106,710                | 9  | 13  | 18 | 36 | 114,870                   | 9       | 13                | 17           | 31             |
|                                       |                 |  |                        | Empty                  | 13 | 18  | 27 | 42 | Empty                     | 17      | 17                | 23           | 31             |
|                                       |                 |  |                        |                        |    |     |    |    |                           | Source: | Caterpillar Perfo | rmance Handb | ook Edition 35 |

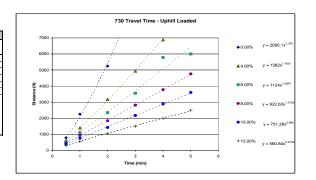
#### Productivity - Articulated Trucks (cont.) 725 Travel Time - Uphill Loaded 7000 725 Articulated Truck Travel Time - Uphill Loaded Total Resistance (%) ♦ 0.00% y = 2097.3x<sup>1.3455</sup> Time (min) (rolling + grade) 5,200 3,200 2,390 2097.3 1329.1 1091.2 1.3455 1.2109 1.0904 2,190 1,400 1,080 ▲ 4.00% y = 1329.1x<sup>1.2109</sup> 5,000 3,630 6,200 2,850 2,250 1,570 3,850 3,020 2,100 4,820 3,800 2,620 928.59 1.0158 741.09 1.0076 504.55 1.0225 880 729 500 1,850 1,450 380 300 200 ■6.00% y = 1091.2x<sup>1.0904</sup> ●8.00% y = 928.59x<sup>1.0158</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ ● 10.00% y = 741.09x<sup>1.0076</sup> Source: Caterpillar Performance Handbook Edition 35 +15.00% y = 504.55x<sup>1.02</sup> 725 Travel Time - Uphill Empty 725 Haul Truck Travel Time - Uphill Empty otal Resistance (%) 0.5 (rolling + grade) 5,570 4,700 3,900 3,250 2,740 2,000 2326.3 1999.4 1728 1487.8 2,480 2,070 1,770 1,490 1.3122 1.2616 1.1556 1.0986 680 620 ◆0.00% y = 2326.3x<sup>1.3122</sup> 6,020 4,970 590 540 6,730 ▲4.00% y = 1999.4x<sup>1.2616</sup> 1271.2 1.0754 979.82 1.0145 1,270 960 4,200 3,000 5,600 4,000 7,050 5,000 ■6.00% y = 1728x<sup>1.1556</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ ●8.00% y = 1487.8x<sup>1.098</sup> Source: Caterpillar Performance Handbook Edition 35 • 10.00% y = 1271.2x1.075 +15.00% y = 979.82x<sup>1.014</sup> 3 Time (min)

#### Productivity - Articulated Trucks (cont.)

|                      | 730 Articulated Truck Travel Time - Uphill Loaded |            |       |       |       |       |        |        |  |  |  |  |  |
|----------------------|---|------------|-------|-------|-------|-------|--------|--------|--|--|--|--|--|
| Total Resistance (%) |   | Time (min) |       |       |       |       |        |        |  |  |  |  |  |
| (rolling + grade)    | 0.5   | 1          | 2     | 3     | 4     | 5     | k      | р      |  |  |  |  |  |
| 0                    | 780   | 2,250      | 5,240 |       |       |       | 2095   | 1.374  |  |  |  |  |  |
| 4                    | 610   | 1,390      | 3,170 | 4,930 | 6,880 |       | 1382   | 1.1651 |  |  |  |  |  |
| 6                    | 540   | 1,100      | 2,340 | 3,550 | 5,780 | 6,000 | 112    | 1.0847 |  |  |  |  |  |
| 8                    | 460   | 920        | 1,840 | 2,810 | 3,770 | 4,760 | 922.63 | 1.0145 |  |  |  |  |  |
| 10                   | 390   | 750        | 1,420 | 2,170 | 2,880 | 3,600 | 751.26 | 0.965  |  |  |  |  |  |
| 15                   | 300   | 560        | 1,050 | 1,500 | 1,995 | 2,500 | 560.84 | 0.9152 |  |  |  |  |  |

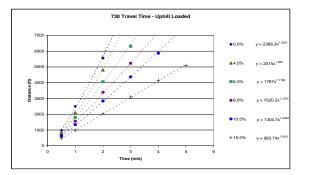
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35



|                      | 730 Haul Truck Travel Time - Uphill Empty |            |       |       |       |       |        |         |  |  |  |  |  |
|----------------------|---|------------|-------|-------|-------|-------|--------|---------|--|--|--|--|--|
| Total Resistance (%) |   | Time (min) |       |       |       |       |        |         |  |  |  |  |  |
| (rolling + grade)    | 0.5                                       | 1          | 2     | 3     | 4     | 5     | k      | р       |  |  |  |  |  |
| 0                    | 980                                       | 2,500      | 5,560 |       |       |       | 2388   | 1.25621 |  |  |  |  |  |
| 4                    | 810                                       | 2,100      | 4,810 |       |       |       | 2015   | 1.285   |  |  |  |  |  |
| 6                    | 770                                       | 1,800      | 4,060 | 6,310 |       |       | 1767   | 1.1766  |  |  |  |  |  |
| 8                    | 680                                       | 1,560      | 3,390 | 5,230 | 7,070 |       | 1520.2 | 1.1252  |  |  |  |  |  |
| 10                   | 595                                       | 1,340      | 2,840 | 4,370 | 5,870 |       | 1304.7 | 1.0994  |  |  |  |  |  |
| 15                   | 480                                       | 980        | 2,020 | 3,090 | 4,150 | 5,090 | 983.74 | 1.0321  |  |  |  |  |  |
|                      |   |            |       |       |       |       |        |         |  |  |  |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 



### Productivity - Articulated Trucks (cont.)

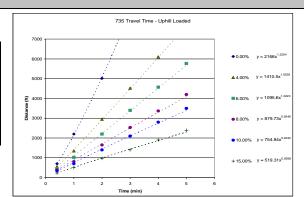
| 735 Articulated Truck Travel Time - Uphill Loaded |     |       |           |       |       |       |        |        |  |  |  |  |
|---|-----|-------|-----------|-------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%)                              |     |       | Time (mir | n)    |       |       |        |        |  |  |  |  |
| (rolling + grade)                                 | 0.5 | 1     | 2         | 3     | 4     | 5     | k      | р      |  |  |  |  |
| 0   | 700 | 2,200 | 5,020     |       |       |       | 2166   | 1.2254 |  |  |  |  |
| 4   | 550 | 1,350 | 2,950     | 4,520 | 6,100 |       | 1410.5 | 1.0528 |  |  |  |  |
| 6   | 450 | 1,020 | 2,200     | 3,400 | 4,570 | 5,770 | 1095.6 | 1.0223 |  |  |  |  |
| 8   | 390 | 810   | 1,650     | 2,530 | 3,370 | 4,200 | 879.73 | 0.9546 |  |  |  |  |
| 10  | 340 | 700   | 1,400     | 2,100 | 2,800 | 3,500 | 754.84 | 0.9332 |  |  |  |  |
| 15  | 230 | 500   | 970       | 1,400 | 1,900 | 2,390 | 519.31 | 0.9268 |  |  |  |  |

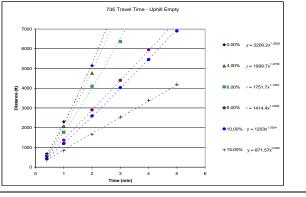
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

| 735 Haul Truck Travel Time - Uphill Empty |     |       |       |       |       |       |        |        |  |  |  |  |
|---|-----|-------|-------|-------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%)                      |     |       |       |       |       |       |        |        |  |  |  |  |
| (rolling + grade)                         | 0.5 | 1     | 2     | 3     | 4     | 5     | k      | p      |  |  |  |  |
| 0   | 680 | 2,300 | 5,140 |       |       |       | 2200.2 | 1.2606 |  |  |  |  |
| 4   | 610 | 2,070 | 4,760 |       |       |       | 1999.7 | 1.2795 |  |  |  |  |
| 6   | 580 | 1,770 | 4,100 | 6,370 |       |       | 1751.7 | 1.1953 |  |  |  |  |
| 8   | 560 | 1,370 | 2,900 | 4,400 | 5,950 |       | 1414.4 | 1.0306 |  |  |  |  |
| 10  | 440 | 1,200 | 2,600 | 4,030 | 5,450 | 6,900 | 1203   | 1.0924 |  |  |  |  |
| 15  | 370 | 840   | 1,660 | 2,540 | 3,390 | 4,200 | 871.57 | 0.969  |  |  |  |  |

 $\text{Travel Time (nin)} = \sqrt[6]{\frac{\text{distance}}{k}}$  Source: Caterpillar Performance Handbook Edition 35





#### Productivity - Articulated Trucks (cont.) 740 Travel Time - Uphill Loaded 740 Articulated Truck Travel Time - Uphill Loaded avel Time Time (min) 2 5,500 3,190 2,200 1,650 Total Resistance (%) ◆0.00% y = 2190.6x<sup>1.3823</sup> 6000 (rolling + grade) 2190.6 1415 1066.4 842.87 2,340 1,390 1,020 800 4,960 3,400 2,560 6,780 4,580 3,400 1.3823 1.1389 1.0438 1.0012 5,700 4,300 ▲4.00% y = 1415x<sup>1.1385</sup> 500 640 450 1,350 940 2,040 1,400 2,750 1,830 3,410 2,340 686.02 474.86 0.9889 0.9789 290 200 ■6.00% y = 1066.4x<sup>1.0</sup> ●8.00% y = 842.87x<sup>1.0</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 2000 • 10.00% y = 686.02x<sup>0</sup> Source: Caterpillar Performance Handbook Edition 35 740 Travel Time - Uphill Empty 740 Haul Truck Travel Time - Uphill Empty Time (min) (rolling + grade) 2413.6 5,820 ♦ 0.00% / = 2413.6x<sup>1.3214</sup> 5,820 5,400 4,230 3,400 2,790 1,900 590 560 500 390 2,230 1,840 1,510 1,250 2170.4 1804.5 1541.5 1308.2 1.3372 1.2048 1.1112 1.074 6,630 7,120 5,800 5,250 4,300 ▲4.00% /=2170.4x<sup>1.337</sup> 900 2,920 3,930 4.930 951.69 1.0146 ■6.00% /= 1804.5x<sup>1.2048</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 型 3000 ●8.00% /=1541.5x<sup>1.1</sup> Source: Caterpillar Performance Handbook Edition 35 +15.00% /=951.69x1.014 Time (min)

#### **Productivity - Wheel Loaders**

|                          | Wheel Loader Specifications |       |      |       |       |          |       |       |         |        |      |         |       |       |
|--------------------------|-----------------------------|-------|------|-------|-------|----------|-------|-------|---------|--------|------|---------|-------|-------|
| Description              | 924G                        | 928G  | 950G | 966G  | 972G  | 972G (2) | 980G  | 988G  | 988G(2) | 990    | 992G | 992G(2) | 994D  | L2350 |
| Payload Capacity (cy)    |                             |       |      |       |       |          |       |       |         |        |      |         |       |       |
| Struck                   | 2.2                         | 2.5   | 3.46 | 4.46  | 4.71  | 4.71     | 6.34  | 6.9   | 6.9     | 9.5    | 13.2 | 13.2    | 18    |       |
| Heaped                   | 2.7                         | 3.25  | 4    | 5.25  | 5.5   | 5.5      | 7.25  | 8.33  | 8.33    | 11.25  | 16   | 16      | 22.5  |       |
| Average                  | 2.45                        | 2.875 | 3.73 | 4.855 | 5.105 | 5.105    | 6.795 | 7.615 | 7.615   | 10.375 | 14.6 | 14.6    | 20.25 | 53    |
| Matched Truck            | N/A                         | N/A   | N/A  | 725   | 730   | 735      | N/A   | 740   | 769D    | 773D   | 777D | 785C    | 793C  | 797B  |
| Average Cycle Time (min) | 0.45                        | 0.45  | 0.5  | 0.5   | 0.5   | 0.5      | 0.55  | 0.55  | 0.55    | 0.55   | 0.6  | 0.6     | 0.6   | 0.75  |
| Passes to Fill Truck     | N/A                         | N/A   | N/A  | 3     | 4     | 5        | N/A   | 4     | 3       | 4      | 5    | 6       | 7     | 5     |
| Altitude Deration Factor | 1                           | 1     | 1    | 1     | 1     | 1        | 1     | 1     | 1       | 1      | 1    | 1       | 1     | 1     |
| Operator Efficiency      | 1                           | 1     | 1    | 1     | 1     | 1        | 1     | 1     | 1       | 1      | 1    | 1       | 1     | 1     |
| Job Efficiency           | 0.83                        | 0.83  | 0.83 | 0.83  | 0.83  | 0.83     | 0.83  | 0.83  | 0.83    | 0.83   | 0.83 | 0.83    | 0.83  | 0.83  |
| Time to Fill Truck       | N/A                         | N/A   | N/A  | 1.5   | 2     | 2.5      | N/A   | 2.2   | 1.65    | 2.2    | 3    | 3.6     | 4.2   | 3.75  |
| Rolling Resistance**     | 2.5                         | 2.5   | 2.5  | 2.5   | 2.5   | 2.5      | 2.5   | 2.5   | 2.5     | 2.5    | 2.5  | 2.5     | 2.5   | 2.5   |

Loader matched to small truck fleet Loader matched to medium truck fleet Loader matched to large truck fleet Loader matched to extra large truck fleet

"A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; LeTourneau/actual Chilean mine operating data for L2350.

| Wheeled Loaders | General Purpose | Spade Nose-<br>Rock |
|-----------------|-----------------|---------------------|
| 928G            | 3.25 cubic yard | not available       |
| 966G            | 5.0 cubic yard  | not available       |
| 972G            | 5.5 cubic yard  | not available       |
| 988G            | not available   | 8.3 cubic yard      |
| 992G            | not available   | 16.0 cubic yard     |

note: capacities are 2:1 heaped, SAE standards

NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo & available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, i.e., shot, loose, tight bank, stockpile, rock, etc. Typical Nevrada applications were used to determine above bucket capacities as related to materials & densities. Job site specific may after specific bucket requirements. (Cashman Equipment, Eko, Nevada - February 21, 2005)

#### Productivity - Shovels

| Shovel Specifications (Komatsu equivalent) |        |        |        |        |        |  |  |  |  |
|--|--------|--------|--------|--------|--------|--|--|--|--|
| Description                                | PC2000 | PC3000 | PC4000 | PC5500 | PC8000 |  |  |  |  |
| Payload Capacity (cy)                      |        |        |        |        |        |  |  |  |  |
| Struck                                     | 10.46  | 18.84  | 26.16  | 33.48  | 47.09  |  |  |  |  |
| Heaped                                     | 14.39  | 25.9   | 35.97  | 46.04  | 64.75  |  |  |  |  |
| Average                                    | 12.43  | 22.37  | 31.07  | 39.76  | 55.92  |  |  |  |  |
| Matched Truck                              | 740    | 777D   | 785C   | 793C   | 797B   |  |  |  |  |
| Average Cycle Time (min)                   | 0.49   | 0.49   | 0.59   | 0.59   | 0.69   |  |  |  |  |
| Passes to Fill Truck                       | 2.05   | 2.84   | 3.38   | 4.69   | 5.11   |  |  |  |  |
| Altitude Deration Factor                   | 1      | 1      | 0.9    | 1      | 1      |  |  |  |  |
| Operator Efficiency                        | 1      | 1      | 1      | 1      | 1      |  |  |  |  |
| Job Efficiency                             | 0.83   | 0.83   | 0.83   | 0.83   | 0.83   |  |  |  |  |
| Time to Fill Truck                         | 1.68   | 2.33   | 3.32   | 4.61   | 5.86   |  |  |  |  |
| Rolling Resistance**                       | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |  |  |  |  |

Shovel matched to small truck fleet Shovel matched to medium truck fleet Shovel matched to large truck fleet



\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes
Source: Caterpillar Performance Handbook Edition 35; Komatsu actual Peruvian mine (Lagunas Norte) operating data for PC4000.

1/14/2021

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#### **Productivity - Motor Graders**

| 8<br>12 | 14G/H<br>9.25                                    | 16G/H<br>10.08  | 24M  |
|---------|--|---|--|
| 12      |  | 10.08   |  |
|         |  |   | 14.04  |
|         | 14   | 16  | 16   |
| 7.6     | 8.5  | 9.75  | 12.83  |
|         |  |   |  |
| 3       | 3  | 3   | 3  |
| 9.5     | 9.5  | 9.5   | 9.5  |
| 6.25    | 6.25   | 6.25  | 6.25   |
| 33,000  | 33,000   | 33,000  | 33,000   |
| 1       | 1  | 1   | - 1  |
| 0       | 0  | 0   | 0  |
| 3       | 3  | 3   | 3  |
| 1.5     | 1.5  | 1.5   | 1.5  |
| 1       | 1  | 1   | 1  |
|         |  |   |  |
| 6,574   | 6,574  | 6,574   | 6,574  |
| 0.5     | 0.5  | 0.5   | 0.5  |
| 1       | 1  | 1   | 1  |
| 0.83    | 0.83   | 0.83  | 0.83   |
|         | 9.5<br>6.25<br>33,000<br>1<br>0<br>3<br>1.5<br>1 | 9.5 9.5 6.25 6.25 33,000 33,000 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9.5 9.5 9.5 9.5 6.25 6.25 6.25 6.25 6.25 6.25 6.25 33,000 33,000 33,000 33,000 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

#### Productivity - Excavators

| Track Excavator Specifications             |              |           |           |           |           |           |          |  |  |  |
|--|--------------|-----------|-----------|-----------|-----------|-----------|----------|--|--|--|
| Description                                | 312C         | 320C      | 325C      | 330C      | 345B      | 365BL     | 385BL    |  |  |  |
| Bucket Capacity (cy)                       | 0.68         | 1.57      | 2.22      | 2.22      | 3         | 4.6       | 7.3      |  |  |  |
| Fill Factor                                | 0.9          | 0.9       | 0.9       | 0.9       | 0.9       | 0.9       | 0.9      |  |  |  |
| Average Bucket Load (cy)                   | 0.612        | 1.413     | 1.998     | 1.998     | 2.7       | 4.14      | 6.57     |  |  |  |
| Soil Type                                  | packed earth | hard clay | hard cla |  |  |  |
| Job Condition                              | med-hard     | med-hard  | med-hard  | med-hard  | med-hard  | med-hard  | med-hai  |  |  |  |
| Cycle Times (minutes) - based on hard clay | /            |           |           |           |           |           |          |  |  |  |
| Load Bucket                                | 0.07         | 0.09      | 0.09      | 0.09      | 0.13      | 0.1       | 0.19     |  |  |  |
| Swing Loaded                               | 0.06         | 0.06      | 0.06      | 0.07      | 0.07      | 0.09      | 0.06     |  |  |  |
| Dump Bucket                                | 0.03         | 0.03      | 0.04      | 0.04      | 0.02      | 0.04      | 0.03     |  |  |  |
| Swing Empty                                | 0.05         | 0.05      | 0.06      | 0.07      | 0.06      | 0.07      | 0.07     |  |  |  |
| Total Cycle Time                           | 0.21         | 0.23      | 0.25      | 0.27      | 0.28      | 0.3       | 0.35     |  |  |  |
| Job Efficiency                             | 0.83         | 0.83      | 0.83      | 0.83      | 0.83      | 0.83      | 0.83     |  |  |  |
| Operator Efficiency                        | 1            | 1         | 1         | 1         | 1         | 1         | 1        |  |  |  |
| Altitude Deration Factor                   | 1            | 1         | 1         | 1         | 1         | 1         | 1        |  |  |  |
| Corrected Productivity (LCY/hr)            | 145          | 306       | 398       | 369       | 480       | 687       | 935      |  |  |  |
| Exploration Road Cycle Time (1) (min)      | N/A          | 0.38      | 0.4       | N/A       | 0.42      | N/A       | N/A      |  |  |  |
| Exploration Road Corr Prod (LCY/hr)        | N/A          | 185       | 249       | N/A       | 320       | N/A       | N/A      |  |  |  |
| Track Width (ft)                           | 8.17         | 9.17      | 9.83      | 10.5      | 11.42     | 11.5      | 11.5     |  |  |  |
| Ditch/Trench Excavation                    |              |           |           |           |           |           |          |  |  |  |
| Bucket Capacity (cy)                       | 0.42         | 0.58      | 0.88      | 0.89      | 2.09      | 3.27      | 2.75     |  |  |  |
| Fill Factor                                | 0.5          | 0.5       | 0.5       | 0.5       | 0.5       | 0.5       | 0.5      |  |  |  |
| Corrected Productivity (LCY/hr)            | 50           | 63        | 88        | 82        | 186       | 271       | 196      |  |  |  |

Source: Caterpillar Performance Handbook Edition 35

| Track Excavators | Hvy Duty Rock        | Extreme Service Exc<br>(e.g. haulroad recontour) | Hvy Duty Trench     |
|------------------|----------------------|--|---------------------|
| 312C             | 30", 0.68 cubic yd   | 47", 0.94 cubic yd                               | 22", .42 cubic yd   |
| 320C             | 30", 0.90 cubic yd   | 55.1", 1.57 cubic yd                             | 23.6", .58 cubic yd |
| 325C             | 36", 1.25 cubic yd   | 60", 2.22 cubic yd                               | 30", .88 cubic yd   |
| 330C             | 36", 1.25 cubic yd   | 60", 2.22 cubic yd                               | 30", .89 cubic yd   |
| 345B             | 43.2", 1.69 cubic yd | 65", 3.0 cubic yd                                | 48*, 2.09 cubic yd  |
| 365BL            | 60", 3.25 cubic yd   | 82", 4.6 cubic yd                                | 59", 3.27 cubic yd  |
| 385BL            | 85", 6.30 cubic yd.  | 96.0, 7.30 cubic yd                              | 57*, 2.75 cubic yd  |

Note: capacities are 2:1 heaped, SAE standards NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo &

available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 54, Section 12, Wheel Loader and Section 4, Excavators Sucket capacity and with distated by material weight and conjugration, ie, shot, loose, sight bank, stodople, rock, etc. "Typical Nevada applications were used to determine above bucket capacities are latefact or materials of certains." So the specifics may after specific bucket requirements ( Cashman Equipment, Elko, Nevada - February 21, 2005)

1) Exploration cycle time assumes feathering/smoothing performed by excavator

#### Concrete Breaking Production

| Track Excavator w/Hammer Specifications |                     |         |         |  |  |  |  |
|---|---------------------|---------|---------|--|--|--|--|
| Description                             | 325C                | 345B    | 385BL   |  |  |  |  |
| Hydraulic Hammer                        | H120D s             | H160D s | H180D s |  |  |  |  |
| Material                                | reinforced concrete |         |         |  |  |  |  |
| Min Shift Production (yd3/8hr)          | 160                 | 300     | 350     |  |  |  |  |
| Max Shift Production (yd3/8hr)          | 300                 | 850     | 1,550   |  |  |  |  |
| Avg Shift Production (8hr)              | 230                 | 575     | 950     |  |  |  |  |
| Job Efficiency                          | 0.83                | 0.83    | 0.83    |  |  |  |  |
| Altitude Deration Factor                | 1                   | 1       | 1       |  |  |  |  |

Source: Caterpillar Performance Handbook Edition 35

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Page 20 of 22 Productivity

#### **Drill Hole Plugging Productivity**

| Description                                      | Drill Rig          | Pump Rig |  |
|--|--------------------|----------|--|
| Move-to-hole, set-up, tear-down (1)              | 2                  | 2        |  |
| Trip in tremmie pipe (1)                         | 500                |          |  |
| Pulling casing (threaded, not cemented)          | 200                |          |  |
| Single-pass perforating (water wells)            | Productivity(all p | Passes   |  |
| 4  | 60                 | 4        |  |
| 6  | 60                 | 4        |  |
| 8  | 50                 | 4        |  |
| 12   | 45                 | 6        |  |
| 18   | 40                 | 9        |  |
| 24   | 28                 | 12       |  |
| Perforation setup,trip in/out,tear-down          | 2                  |          |  |
| Perforation tool cost (wear cost) <sup>(3)</sup> | 2.5                |          |  |
| Inert Material Placement (backfill)              |                    |          |  |
| Grouting/Cement (4) (cy/hr)                      |                    | 5.33     |  |
| Cuttings (see below) (cy/hr)                     |                    | 3.5      |  |

Drillers daily logs from Newmont, Barrick, New West Gold, Agnico Eagle, iss:
 Idaho General Mines Inc.
 Drillers daily logs from Newmont, Barrick, Target Minerals
 Drillers daily logs from Newmont, 4. WDC Exploration, Dec 2005

Source: WDC Exploration, Dec 2005

Cuttings Placement Productivity
Shift productivity (Means 02210-7000120; Crew B11M)
Shift length
Estimated Hourly Productivity 28 cy / shift hours cy / hour

Productivity

|                              |  |                  |                    |                       |                                | Elevation                    |                              |  |  |  |  |  |
|------------------------------|--|------------------|--------------------|-----------------------|--------------------------------|------------------------------|------------------------------|--|--|--|--|--|
|                              | 0-760 m 760-1500 m 1500-2300 m                   |                  | 2300-3000 m        | 3000-3800 m           | 3800-4600 m                    |                              |                              |  |  |  |  |  |
| MODEL                        | (0-2500'<br>CAT                                  | ) (2<br>User CAT | 500-5000')<br>User | (5000-7000')<br>CAT U | (7500-10,000')<br>ser CAT User | (10,000-12,000')<br>CAT User | (12,500-15,000')<br>CAT User |  |  |  |  |  |
|                              | CAI  | User CAT         | User               | CAI                   | ser CAI User                   | CAI User                     | CAI User                     |  |  |  |  |  |
| illdozers<br>D6R             | 100  | 100              |                    | 100                   | 100                            | 92                           | 84                           |  |  |  |  |  |
| D6R w/ Winch                 | 100  | 100              |                    | 100                   | 100                            | 92                           | 84                           |  |  |  |  |  |
| D7R                          | 100  | 100              |                    | 100                   | 100                            | 100                          | 96                           |  |  |  |  |  |
| D8R                          | 100  | 100              |                    | 100                   | 93                             | 85                           | 77                           |  |  |  |  |  |
| D9R                          | 100  | 100              |                    | 100                   | 93                             | 85                           | 77                           |  |  |  |  |  |
| D10R                         |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| D10R<br>D11R                 | 100  | 100              |                    | 100                   | 100                            | 97                           | 89                           |  |  |  |  |  |
|                              | 100  | 100              |                    | 100                   | 93                             | 85                           | 77                           |  |  |  |  |  |
| heeled Dozers                |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 824G                         | 100  | 100              |                    | 100                   | 100                            | 92                           | 84                           |  |  |  |  |  |
| 834G                         | 100  | 100              |                    | 100                   | 100                            | 92                           | 84                           |  |  |  |  |  |
| 844                          | 100  | 100              |                    | 100                   | 100                            | 100                          | 96                           |  |  |  |  |  |
| 854G                         | 100  | 100              |                    | 100                   | 93                             | 85                           | 77                           |  |  |  |  |  |
| raders                       |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 120H                         | 100  | 100              |                    | 100                   | 100                            | 96                           | 93                           |  |  |  |  |  |
| 14G/H                        | 100  | 100              |                    | 100                   | 100                            | 98                           | 96                           |  |  |  |  |  |
| 16G/H                        | 100  | 100              |                    | 100                   | 100                            | 98                           | 96                           |  |  |  |  |  |
| 24M                          | 100  | 100              |                    | 100                   | 100                            | 98                           | 96                           |  |  |  |  |  |
| xcavators                    |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 312C                         | 100  | 100              |                    | 100                   | 83                             | 78                           | 73                           |  |  |  |  |  |
| 320C                         | 100  | 100              |                    | 90                    | 87                             | 83                           | 76                           |  |  |  |  |  |
| 325C                         | 100  | 100              |                    | 100                   | 100                            | 100                          | 100                          |  |  |  |  |  |
| 330C                         | 100  | 100              |                    | 100                   | 100                            | 100                          | 100                          |  |  |  |  |  |
| 345B                         | 100  | 100              |                    | 100                   | 100                            | 93                           | 93                           |  |  |  |  |  |
| 365BL                        | 100  | 100              |                    | 100                   | 86                             | 86                           | 86                           |  |  |  |  |  |
| 385BL                        | 100  | 100              |                    | 100                   | 93                             | 85                           | 78                           |  |  |  |  |  |
| crapers                      |  | · ·              |                    |                       |                                | •                            |                              |  |  |  |  |  |
| 631G                         | 100  | 100              |                    | 100                   | 100                            | 97                           | 90                           |  |  |  |  |  |
| 637G                         | 100  | 100              |                    | 100                   | 95                             | 87                           | 80                           |  |  |  |  |  |
| oaders                       |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 924G                         | 100  | 100              |                    | 100                   | 100                            | 97                           | 89                           |  |  |  |  |  |
| 928G                         | 100  | 100              |                    | 100                   | 100                            | 92                           | 85                           |  |  |  |  |  |
| 950G                         | 100  | 100              |                    | 100                   | 100                            | 100                          | 100                          |  |  |  |  |  |
| 966G                         | 100  | 100              |                    | 100                   | 100                            | 96                           | 88                           |  |  |  |  |  |
| 972G                         | 100  | 100              |                    | 92                    | 84                             | 77                           | 70                           |  |  |  |  |  |
| 980G                         | 100  | 100              |                    | 100                   | 100                            | 96                           | 88                           |  |  |  |  |  |
| 988G                         | 100  | 100              |                    | 100                   | 95                             | 85                           | 75                           |  |  |  |  |  |
| 990                          | 100  | 100              |                    | 100                   | 100                            | 92                           | 85                           |  |  |  |  |  |
| 992G                         | 100  | 100              |                    | 100                   | 100                            | 93                           | 87                           |  |  |  |  |  |
| 994D                         | 100  | 100              |                    | 100                   | 100                            | 96                           | 88                           |  |  |  |  |  |
| L2350                        | 100  | 100              |                    | 100                   | 100                            | 96                           | 90                           |  |  |  |  |  |
| hovels                       |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| PC2000                       | 100  | 100              |                    | 100                   | 100                            | 96                           | 90                           |  |  |  |  |  |
| PC3000                       | 100  | 100              |                    | 100                   | 100                            | 96                           | 90                           |  |  |  |  |  |
| PC4000                       | 100  | 100              |                    | 100                   | 100                            | 96                           | 90                           |  |  |  |  |  |
| PC5500                       | 100  | 100              |                    | 100                   | 100                            | 96                           | 90                           |  |  |  |  |  |
| PC8000                       | 100  | 100              |                    | 100                   | 100                            | 96                           | 90                           |  |  |  |  |  |
| ther Equipment               | 100  | 100              |                    | 100                   | 100                            | 00                           | 00                           |  |  |  |  |  |
| 420D 4WD Backhoe             | 99   | 97               |                    | 95                    | 91                             | 91                           | 91                           |  |  |  |  |  |
| 428D 4WD Backhoe             | 99   | 97               |                    | 95                    | 91                             | 91                           | 91                           |  |  |  |  |  |
| CS533E Vibratory Roller      | 100  | 100              |                    | 98                    | 95                             | 91                           | 86                           |  |  |  |  |  |
| CS633E Vibratory Roller      | 100  | 100              |                    | 100                   | 100                            | 91                           | 86                           |  |  |  |  |  |
| CP533E Sheepsfoot Compactor  | 100  | 100              |                    | 98                    | 95                             | 91                           | 100                          |  |  |  |  |  |
| CP633E Sheepsfoot Compactor  | 100  | 100              |                    | 100                   | 100                            | 91                           | 86                           |  |  |  |  |  |
| Light Truck - 1.5 Ton        | 100  | 100              |                    | 100                   | 100                            | 31                           | 00                           |  |  |  |  |  |
| Supervisor's Truck           |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Flatbed Truck                |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Air Compressor + tools       |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Welding Equipment            |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Heavy Duty Drill Rig         | <del>                                     </del> |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Pump (plugging) Drill Rig    | 1  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Concrete Pump                |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Gas Engine Vibrator          | <del>                                     </del> |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| Generator 5KW                | <del>                                     </del> |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| HDEP Welder (pipe or liner)  |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 5 Ton Crane                  | <u> </u>   |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 20 Ton Crane                 |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 50 Ton Crane                 |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 120 Ton Crane                | +  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| rucks                        | <u> </u>   |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 725                          | 100  | 100              |                    | 100                   | 100                            | 100                          | 95                           |  |  |  |  |  |
| 730                          | 100  | 100              |                    | 100                   | 100                            | 100                          | 95                           |  |  |  |  |  |
| 735                          | 100  | 100              |                    | 100                   | 100                            | 99                           | 95                           |  |  |  |  |  |
| 740                          | 100  | 100              |                    | 100                   | 100                            | 99                           | 91                           |  |  |  |  |  |
| 740<br>769D                  | 100  | 100              |                    | 100                   | 93                             | 88                           | 82                           |  |  |  |  |  |
| 773F                         |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |
| 777D                         | 100  | 100              |                    | 100                   | 100                            | 93                           | 85                           |  |  |  |  |  |
|                              | 100  | 100              |                    | 100                   | 100                            | 93                           | 87                           |  |  |  |  |  |
| 785C                         | 100  | 100              |                    | 100                   | 93                             | 86                           | 80                           |  |  |  |  |  |
| 793C                         | 100  | 100              |                    | 100                   | 100                            | 100                          | 93                           |  |  |  |  |  |
| 797B                         | 100  | 100              |                    | 100                   | 100                            | 100                          | 93                           |  |  |  |  |  |
| 613E (5,000 gal) Water Wagon | 100  | 100              |                    | 100                   | 100                            | 95                           | 87                           |  |  |  |  |  |
| 621E (8,000 gal) Water Wagon | 100  | 100              |                    | 100                   | 100                            | 97                           | 90                           |  |  |  |  |  |
| 777D Water Truck             | 100  | 100              |                    | 100                   | 100                            | 93                           | 87                           |  |  |  |  |  |
| 785C Water Truck             | 100  | 100              |                    | 100                   | 93                             | 86                           | 80                           |  |  |  |  |  |
| Dump Truck (10-12 yd3) (5)   |  |                  |                    |                       |                                |                              |                              |  |  |  |  |  |

ties:
User entered deration value will override values from CAT Performance Handbook, except L2350 Loader: data from actual mine performance in Chile.
Komatsu allitude deration assumed from LeTourneau L2350

## Closure Cost Estimate Seed Mixture

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| eed Mixture          |                          | ISnaciae Number of | Charles 0/ : 1      |           |         |           |
|----------------------|--------------------------|--------------------|---------------------|-----------|---------|-----------|
| Common Nama          | Colontific Name          | Species Number of  | Species % in<br>Mix | DI C/aana | C       | C         |
| Common Name          | Scientific Name          | Seeds / Ib         | IVIIX               | PLS/acre  | Cost/Lb | Cost/Acre |
|                      |                          | Grasses            |                     |           |         |           |
| Indian ricegrass     | Achnatherum hymenoides   |                    | 14.16               | 1.30      |         |           |
| Plains lovegrass     | Eragrostis intermedia    |                    | 0.44                | 0.04      |         |           |
| NM feathergrass      | Hesperostipa newmexicana |                    | 5.45                | 0.50      |         |           |
| Sideoats grama       | Bouteloua curtipendula   |                    | 11.98               | 1.10      |         |           |
| Blue grama           | Bouteloua gracilis       |                    | 2.72                | 0.25      |         |           |
| Cane beardgrass      | Bothriochloa barbinodis  |                    | 2.18                | 0.20      |         |           |
| Galleta              | Pleuraphis jamesii       |                    | 11.98               | 1.10      |         |           |
| Green sprangletop    | Leptochloa dubia         |                    | 2.18                | 0.20      |         |           |
| Plains bristlegrass  | Seteria vulpiseta        |                    | 3.27                | 0.30      |         |           |
| Sand dropseed        | Sporobolus cryptandrus   |                    | 0.44                | 0.04      |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          | Forbs              |                     |           |         |           |
| White prairie clover | Dale candida c           |                    | 4.36                | 0.40      |         |           |
| Blue flax            | Linum lewisii c          |                    | 3.81                | 0.35      |         |           |
| Prairie coneflower   | Ratibida colomnifera c   |                    | 1.09                | 0.10      |         |           |
| Desert globemallow   | Sphaeralcea ambugua c    |                    | 4.36                | 0.40      |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          | Shrubs             |                     |           |         |           |
| Four-wing saltbush   | Atriplex canescens       | Siliubs            | 19.06               | 1.75      |         |           |
| Rubber rabbitbrush   | Ericamerica intermedia c |                    | 3.81                | 0.35      |         |           |
| Apache plume         | Fallugia paradoxa c      |                    | 1.09                | 0.35      |         |           |
| Winterfat            | Krascheninnikovia lanata |                    | 7.63                |           |         |           |
| vvinterfat           | rascneninnikovia ianata  |                    | 7.03                | 0.70      |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          |                    |                     |           |         |           |
|                      |                          |                    |                     |           |         |           |
|                      | Total                    |                    |                     | \$9.18    |         | \$0       |

|         |  |        | •      |
|---------|--|--------|--------|
|         |  |        |        |
| Total   |  | \$9.18 | \$0.00 |
|         |  | <br>   | <br>   |
| Source: |  |        |        |
|         |  |        |        |
|         |  |        |        |
| Notes:  |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2021

File Name: Att 1\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020 Exploration Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 1.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

Seed Mix Cost Quotes



TO: Feliz Toprak, Mining Consultant, SRK Consulting, Inc.

CC: Jeff Smith, Chief Operating Officer, NMCC

FROM: Katie Emmer, Permitting & Environmental Compliance Manager, NMCC

DATE: 20 March 2018

SUBJECT: Seed Mix Quotes – Average cost \$175.00/acre PLS

The purpose of this memorandum is to summarize research into seed mix costs for seed mixes identified in the Copper Flat Mine Operation & Reclamation Plan (MORP) and to present the estimated cost of pure live seed (PLS) per acre.

The MORP calls for a specific seed mix and rate of application for interim and final reclamation:

Table E7: Interim and Final Reclamation Seed Mixes

|                              |                      | PL      | .S/ac1         |
|------------------------------|----------------------|---------|----------------|
| Scientific Name              | Common Name          | Interim | Final          |
| Grasses – Warm Season        |                      |         |                |
| Bothriochloa barbinodis      | Cane bluestem        | 0.15    | 0.20           |
| Bouteloua curtipendula       | Sideoats grama       | 1.00    | 1.10           |
| Bouteloua gracilis           | Blue grama           | 0.20    | 0.25           |
| Pleuraphis jamesii           | Galleta              | 0.75    | 1.10           |
| Leptochloa dubia             | Green sprangletop    | 0.15    | 0.20           |
| Seteria vulpiseta            | Plains bristlegrass  | 0.20    | 0.30           |
| Sporobolus cryptandrus       | Sand dropseed        | 0.03    | 0.04           |
| Grasses – Cool, Intermediate | Season               |         |                |
| Achnatherum hymenoides       | Indian ricegrass     | 0.60    | 1.30           |
| Eragrostis intermedia        | Plains lovegrass     | 0.05    | 0.04           |
| Hesperostipa newmexicana     | NM feathergrass      | 0.70    | 0.50           |
| Shrubs                       | •                    |         | - <del>-</del> |
| Atriplex canescens           | Four-wing saltbush   | 0.30    | 1.75           |
| Ericamerica nauseosus        | Rubber rabbitbrush   | 0.10    | 0.35           |
| Fallugia paradoxa            | Apache plume         |         | 0.10           |
| Krascheninnikovia lanata     | Winterfat            | 0.15    | 0.70           |
| Forbs                        |                      | *       | ·              |
| Dalea candida                | White prairie clover | 0.10    | 0.40           |
| Linum lewisii                | Blue flax            | 0.15    | 0.35           |
| Ratibida colomnifera         | Prairie coneflower   |         | 0.10           |
| Sphaeralcea ambigua          | Desert globemallow   | 0.10    | 0.40           |
|                              | Total                | 4.73    | 9.18           |

Notes:

1-Rate is in pounds of pure live seed (PLS) per acre; Substitutions may change seeding rates.

In the week of 12 March 2018, I requested recommendations for seed mix suppliers from knowledgeable personnel at the Bureau of Land Management (BLM) Las Cruces office and Golder & Associates.

Emily Clark, Soil Scientist at Golder, indicated that they commonly work with Granite Seed. Shannon Gentry, Rangeland Management Specialist, suggested Bamert Seed, Granite Seed, and Curtis & Curtis Seed companies. Based on these recommendations, I contacted all three companies and provided MORP Table E7 and requested quotes on PLS/acre that would be certified weed free at the final reclamation rate. I instructed each company that comparable seed substitutions could be made based on availability. Quotes for PLS/acre were received from each company and are presented in the table below.

Seed Mix Quotes for MORP Table E7, Final Rate, March 2018

| Company               | Date          | Price quote PLS/acre | Notes                         |
|-----------------------|---------------|----------------------|-------------------------------|
| Curtis & Curtis, Inc. | 15 March 2018 | \$174.72             | Low acreage<br>Quote attached |
| Curtis & Curtis, Inc. | 15 March 2018 | \$163.79             | 100 acres+<br>Quote attached  |
| Granite Seed          | 15 March 2018 | \$186.50             | Quote attached                |
| Bamert Seed           | 16 March 2018 | \$750.00             | Quote via email, attached.    |

In further correspondence with Bamert, the supplier speculated the quote could be decreased "as much as 2/3rds" if strategic substitutions of similar seeds were made based on availability. If the Bamert quote was decreased by 67%, it would be about \$247.50/acre. Based on the difference in price from the other two suppliers, I conclude this quote is an outlier that is based on differing assumptions from those communicated in the quote request and have not included it in our estimated average seed mix cost.

Based on these quotes, attached, I conclude the average cost of PLS that would meet MORP requirements for final seed rates shown in Table E7 would be \$175.00 per acre.

#### Attachements:

Curtis & Curtis, Inc. Quote Granite Seed Quote Bamert Seed Quote (via email)

## CURTIS & CURTIS, INC.

4500 North Prince, Clovis, New Mexico 88101 PH: 575-762-4759 FAX: 575-763-4213

Irrigated Pasture Grasses Mountain Pasture Grasses Native Pasture Grasses

Yard and Playground Grasses Golf Course Grasses Alfalfa/Clovers

## PRICE QUOTATION

TO: Themac Resources DATE: March 15, 2018 ATTENTION: Katie Emmer SALESPERSON: Tyler Stuemky PHONE: 505-400-7925 SHIPPING DATE: As Directed EMAIL: kemmer@themacresourcesgroup.com FOB: Clovis PROJECT: Sierra County Mine Reclamation TERMS: 30 Days Net

DESCRIPTION PRICE AMOUNT

\$174.72/Acre (Low Acreage) Custom Seed Mix:

\$163.79/Acre (100 Acres+)

| COMMON NAME                | BOTANICAL NAME           | PLS/ACRE |
|----------------------------|--------------------------|----------|
| Cane Bluestem              | Bouteloua dactyloides    | 0.20     |
| Sub. Buffalograss          |                          |          |
| Sideoats Grama             | Bouteloua curtipendula   | 1.10     |
| Blue Grama                 | Bouteloua gracilis       | 0.25     |
| Galleta Grass              | Pleuraphis jamesii       | 1.10     |
| Green Sprangletop          | Leptochloa dubia         | 0.20     |
| Plains Bristlegrass        | Setaria vulpiseta        | 0.30     |
| Sand Dropseed              | Sporobolus cryptandrus   | 0.04     |
| Indian Ricegrass           | Oryzopsis hymenoides     | 1.30     |
| Plains Lovegrass           | Eragrostis trichodes     | 0.04     |
| Sand Lovegrass             |                          |          |
| NM Feathergrass            | Hesperostipa comata      | 0.50     |
| Needle and Thread          |                          |          |
| Four-Wing Saltbush         | Atriplex canescens       | 1.75     |
| Rubber Rabbitbrush         | Ericameria nauseosa      | 0.35     |
| Apache Plume               | Rhus trilobata           | 0.10     |
| Sub. Three-Leaf Sumac      |                          |          |
| Winterfat                  | Krascheninnikovia lanata | 0.70     |
| White Prairie Clover       | Dalea purpurea           | 0.40     |
| Sub. Purple Prairie Clover |                          |          |
| Blue Flax                  | Linum lewisii            | 0.35     |
| Prairie Coneflower         | Ratibida columnifera     | 0.10     |
| Desert Globemallow         | Sphaeralcea ambigua      | 0.40     |

\*\*\*THIS QUOTE IS GOOD FOR 10 DAYS\*\*

\*\*\*ALL PRICES SUBJECT TO AVAILABILITY\*\*SUBJECT TO BEING UNSOLD\*\*\*

Here is our quotation on the goods named, subject to the conditions noted:

The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

Typographical and stenographic errors are subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for prorata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production. Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein, which may appear on Purchaser's formal order will not be binding on the Seller.

QUOTE

tren@graniteseed.com Phone: (801) 768-4422 Fax: (801) 701-9413



Tren Hagman 1697 West 2100 North Lehi, UT 84043

Date: March 15, 2018

To: Katie Emmer

Company: Themac Resources

From: Tren Hagman

Re: Seed Quote

Katie,

We can provide the mix below for \$186.50/acre

| Species                                   | PLS lbs./acre |
|---|---------------|
| Cane beardgrass (Bothriochloa barbinodis) | 0.20          |
| Sideoats grama (Bouteloua curtipendula)   | 1.10          |
| Blue grama (Bouteloua gracilis)           | 0.25          |
| Galleta grass (Pleuraphis jamesii)        | 1.10          |
| Green sprangletop (Leptochloa dubia)      | 0.20          |
| Plains bristlegrass (Setaria vulpiseta)   | 0.30          |
| Sand dropseed (Sporobolus cryptandrus)    | 0.04          |
| Indian ricegrass (Achnatherum hymenoides) | 1.30          |
| Fourwing saltbush (Atriplex canescens)    | 1.75          |
| Rubber rabbitbrush (Ericameria nauseosa)  | 0.35          |
| Apache plume (Fallugia paradoxa)          | 0.10          |
| Winterfat (Krascheninnikovia lanata)      | 0.70          |
| White prairie clover (Dalea candida)      | 0.40          |
| Blue flax (Linum perenne)                 | 0.35          |
| Prairie coneflower (Ratibida columnifera) | 0.10          |
| Desert globemallow (Sphaeralcea ambigua)  | 0.40          |
| Toal:                                     | 8.64          |

If you have any questions, please contact me at the number above or by email  $\underline{\text{tren}@\text{qraniteseed.com}}$  .

Thanks

#### Katie Emmer

From: Colby Scroggins <cscroggins@bamertseed.com>

**Sent:** Friday, March 16, 2018 12:18 PM

To: Katie Emmer
Subject: RE: Seed mix quote

Katie,

I would estimate that the attached blend may be near \$750 per acre.

Please let me know if I may be of help in the future!

Have a great day,

Colby F. Scroggins

**Reclamation Specialist** 

cscroagins@BarnertSeed.com

Office | 800.262.9892 Fax | 888.378.0419 www.BamertSeed.com





#### Sign Up for Our Newsletter!

From: Katie Emmer [mailto:kemmer@themacresourcesgroup.com]

Sent: Wednesday, March 14, 2018 4:25 PM

To: Colby Scroggins <a href="mailto:cscroggins@bamertseed.com">cscroggins@bamertseed.com</a>>

Subject: Seed mix quote

Here's the seed mix I'm looking at, see attached.

Katie Emmer | Permitting & Environmental Compliance Manager

M: +1 505.400.7925| F: +1 505.881.4616

A: 4253 Montgomery Blvd. NE, Suite 130, Albuquerque, NM 87109

W: themacresourcesgroup.com | E: kemmer@themacresourcesgroup.com



## **Attachment 2**

Cost Estimate for Reclamation of Disturbance at the End of Mine Operations

Enter Data Below in Green and Blue Spaces

## STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019)

Approved for use in Nevada, August 1, 2012

| COST DATA FILE INFORMATIO | ON .   |
|---------------------------|--|
| File Name:                | Att 2_Cost 20200820_SRCE_Version_1_4_1_017b_NV_20 Year Rev 2.xlsm                      |
| Cost Data File:           | SRCE_Cost_data-Am_Mg_Foothill_Dolomite_ Mine_1_12 Rev 2.xlsm                           |
| Cost Data Date:           | January 6, 2021  |
| Cost Data Basis:          | User Data Cost Units: Imperial   |
| Author/Source:            | New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H |
| PROJECT INFORMATION       |  |
| Property/Mine Name:       | Foothill Dolomite Mine Property Code: N/A  |
| Project Name:             | Foothill Dolomite Mine   |
| Date of Submittal:        | 01/18/2020 Average Altitude: 4865 ft.  |
| Select One:               | ○ Notice or Sm Exploration Plan ○ Lg Exploration Plan ○ Mine Operation                 |
| Select One:               | Private Land Public or Public/Private  |
| Cost Estimate Type:       | Surety   |
| Cost Basis Category:      | American Magnesium - Option 1 Revised  |
| Cost Basis Description:   | American Magnesium - Foothill Dolomite Mine - Northern Nevada Equipment                |

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#### **Closure Cost Estimate Cost Summary**

# Project Name: Foothill Dolomite Mine Project Date: 01/18/2020 Model Version: Version 1.4.1 File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

| A. Earthwork/Recontouring  | Labor (1)   | Equipment (2)   | Materials   | Total  |
|--|---|---|---|--|
| Exploration Exploration Roads & Drill Pads   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0   |
| Roads  | \$1,757   | \$5,791   | \$0   | \$7,548  |
| Well Abandonment Pits  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>N/A  | \$0<br>\$0   |
| Quarries & Borrow Areas  | \$13,455  | \$44,595  | \$0   | \$58,050   |
| Underground Openings Process Ponds   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0   |
| Heaps  | \$0   | \$0<br>\$0  | \$0<br>\$0  | \$0  |
| Waste Rock Dumps Landfills   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0   |
| Tailings   | \$0   | \$0   | \$0   | \$0  |
| Foundation & Buildings Areas Yards, Etc.   | \$34<br>\$1,032   | \$88<br>\$3,287   | \$0<br>\$0  | \$122<br>\$4,319   |
| Drainage & Sediment Control  | \$1,032   | \$3,287   | \$0   | \$4,319  |
| Generic Material Hauling Other User Costs (from Other User sheet)  | \$0   | \$0<br>\$0  | \$0   | \$0  |
| Other User Costs (from Other User sneet) Other**   | \$0   | \$0   | \$271,364   | \$271,364<br>\$0   |
| Subtotal   | \$16,278  | \$53,761  | \$271,364   | \$341,403  |
| Mob/Demob if included in Other User sheet  | \$0   | \$0   | \$0   | \$0  |
| Mob/Demob  |   |   |   | \$0  |
| Subtotal "A"   | \$16,278  | \$53,761  | \$271,364   | \$341,403  |
| B. Revegetation/Stabilization  | Labor (1)   | Equipment (2)   | Materials   | Total  |
| Exploration  | \$0   | \$0   | \$0   | \$0  |
| Exploration Roads & Drill Pads   | \$0   | \$0   | \$0   | \$0  |
| Roads Well Abandonment   | \$437   | \$374   | \$19,970  | \$20,781<br>N/A  |
| Pits   | \$0   | \$0   | \$0   | \$0  |
| Quarries & Borrow Areas Underground Openings   | \$3,266   | \$2,800   | \$142,942   | \$149,008<br>N/A   |
| Process Ponds  | \$0   | \$0   | \$0   | \$0  |
| Heaps Waste Rock Dumps   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0   |
| Landfills  | \$0   | \$0   | \$0<br>\$0  | \$0<br>\$0   |
| Tailings   | \$0   | \$0   | \$0   | \$0  |
| Foundation & Buildings Areas Yards, Etc.   | \$140<br>\$280  | \$120<br>\$240  | \$640<br>\$12,802   | \$900<br>\$13,322  |
| Drainage & Sediment Control  | \$0   | \$0   | \$0   | \$0  |
| Generic Material Hauling   | \$0   | \$0   | \$0   | \$0  |
| Other User Costs (from Other User sheet) Other**   | \$0   | \$0   | \$0   | \$0<br>\$0   |
| Subtotal "B"   | \$4,123   | \$3,534   | \$176,354   | \$184,011  |
| O Data (Cart) All of Tanada (Discount of Market  | 1 (1)   | (2)   | Material  | T./.1  |
| C. Detoxification/Water Treatment/Disposal of Wastes**   | Labor (1)   | Equipment (2)   | Materials   | Total \$0  |
| Process Ponds/Sludge   |   |   |   |  |
| Process Ponds/Sludge<br>Heaps  |   |   |   | \$0  |
| Heaps Dumps (Waste & Landfill)   |   |   |   | \$0<br>\$0   |
| Heaps  |   |   |   | \$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring  |   |   |   | \$0<br>\$0<br>\$0<br>\$0<br>\$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal   | \$595   | \$1,829   | N/A   | \$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfil) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site  | \$595   | \$1,829   | N/A   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials   |   |   |   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Soild Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)   | \$595<br>\$0<br>\$0   | \$1,829<br>\$0<br>\$0   | N/A<br>\$0<br>\$0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other   | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Soild Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)   | \$0   | \$0   | \$0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other   | \$0<br>\$0<br>\$595   | \$0<br>\$0<br>\$1,829   | \$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other"  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86  | \$0<br>\$0<br>\$1,829<br>Equipment <sup>(2)</sup><br>\$413  | \$0<br>\$0<br>\$0<br>Materials  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0<br>\$0<br>\$2<br><b>50</b><br>\$0<br><b>50</b><br><b>50</b><br><b>50</b><br><b>50</b><br><b>50</b><br><b>50</b><br><b>50</b><br><b>50</b>  |
| Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition   | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0   | \$1,829<br><b>Equipment</b> (2)<br>\$413<br>\$0   | \$0<br>\$0<br>Materials   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other"  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86  | \$0<br>\$0<br>\$1,829<br>Equipment <sup>(2)</sup><br>\$413  | \$0<br>\$0<br>\$0<br>Materials  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0<br>\$0<br>\$2<br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b><br><b>5</b>  |
| Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demoition Equipment Removal Fence Removal Fence Removal Fence Installation  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,110  | \$1,829<br><b>Equipment</b> (2)<br>\$413<br>\$40<br>\$7,100<br>\$6,198  | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$100   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$2,424  Total \$499 \$0 \$11,350 \$11,350 \$11,350  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other "  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0   | \$1,829  Equipment (2)  \$413  \$0  \$7,100  \$6,198  \$0   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$100<br>\$100  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$2,424  Total \$499 \$50 \$11,350 \$11,314 \$50 \$\$375   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Soild Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal   | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0   | \$1,829<br><b>Equipment</b> (2)<br>\$413<br>\$40<br>\$7,100<br>\$6,198  | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$100   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424  Total \$499 \$0 \$11,350 \$11,350 \$317,314 \$375 \$5   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Powerline Removal Pipe Removal Powerline Removal  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0  | \$0<br>\$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$171<br>\$0   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$0<br>\$100<br>\$0<br>N/A  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$2,424<br>\$0<br>\$0<br>\$0<br>\$0<br>\$11,350<br>\$17,314<br>\$0<br>\$3755<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Soild Waste - On Site Soild Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other"  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Transformer Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs   | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0   | \$1,829  Equipment (2)  \$413  \$0  \$7,100  \$6,198  \$0   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$100<br>\$100  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   |
| Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Pransformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet)  | \$0<br>\$0<br>\$595<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$    | \$1,829  Equipment (2)  \$413 \$0 \$7,100 \$6,198 \$0 \$1711 \$0  | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$100<br>\$100<br>N/A<br>N/A  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$2,424  Total  \$499 \$50 \$11,350 \$375 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Soild Waste - On Site Soild Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Tip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet)   | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                          | \$1,829  Equipment (2)  \$413 \$0 \$7,100 \$6,138 \$0 \$171 \$0 \$0 \$0 \$0 \$0 \$0 \$0   | \$0<br>\$0<br>\$0<br><b>Materials</b><br>\$0<br>\$100<br>\$100<br>N/A<br>N/A<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$2,424  Total \$499 \$0 \$11,350 \$11,350 \$17,314 \$375 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  |
| Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Pransformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet)  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556   | \$0<br>\$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$171<br>\$0<br>\$0<br>\$0<br>\$13,882   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$2,424  Total \$499 \$0 \$11,350 \$11,350 \$375 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0   |
| Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other'* Subtotal "D"  E. Monitoring  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556  | \$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$171<br>\$0<br>\$0<br>\$13,882<br>Equipment (2)  | \$0<br>\$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$100<br>N/A<br>N/A<br>\$0<br>\$0<br>\$0<br>\$100<br>Materials  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$2,424  Total  \$499 \$0 \$11,350 \$17,314 \$0 \$375 \$0 \$0 \$0 \$2,52,53  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Powerfine Removal Transformer Removal Transformer Removal Tip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other'' Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance   | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556  | \$1,829  Equipment (2)  \$413 \$413 \$50 \$7,100 \$6,198 \$0 \$1711 \$0  \$0 \$0 \$13,882  Equipment (2) \$8,462  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$2,424  Total \$499 \$0 \$11,350 \$11,350 \$11,350 \$21,731 \$0 \$22,538  |
| Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other'* Subtotal "D"  E. Monitoring  | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556  | \$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$171<br>\$0<br>\$0<br>\$13,882<br>Equipment (2)  | \$0<br>\$0<br>\$0<br>\$0<br>Materials<br>\$0<br>\$100<br>N/A<br>N/A<br>\$0<br>\$0<br>\$0<br>\$100<br>Materials  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$2,424  Total  \$499 \$0 \$11,350 \$17,314 \$0 \$375 \$0 \$0 \$0 \$2,52,53  |
| Heaps Dumps (Waste & Landfil) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Cutvert Removal Pipe Removal Powerline Removal Rip-rap, rock liming, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other*  Subtotal "C"  E. Monitor Ing. Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring   | \$0<br>\$595<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556<br>Labor (1)<br>\$12,368                                    | \$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$171<br>\$0<br>\$0<br>\$12<br>\$1<br>\$13,882<br>Equipment (2)<br>\$462<br>\$462   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,1350 \$11,350 \$0 \$3755 \$0 \$0 \$2,3735 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,314 \$1,314 |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolítion Equipment Removal Fence Remowal Fence Remowal Fence Remowal Pipe Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other"  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"   | \$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$4,50<br>\$1<br>\$0<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10 | \$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$171<br>\$0<br>\$0<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$171<br>\$1 | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$2,424  Total \$499 \$0 \$11,350 \$17,314 \$0 \$3755 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  |
| Heaps Dumps (Waste & Landfil) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock liming, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support   | \$0<br>\$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556<br>Labor (1)<br>\$12,368<br>\$0<br>\$12,368                   | \$0<br>\$1,829<br>Equipment (2)<br>\$413<br>\$0<br>\$7,100<br>\$6,198<br>\$0<br>\$177<br>\$17<br>\$0<br>\$0<br>\$10<br>\$173<br>\$13,882<br>Equipment (2)<br>\$8,462<br>\$90<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$10<br>\$1   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,1,350 \$17,314 \$0 \$375 \$0 \$0 \$0 \$2,2,424  Total \$2,735 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demoition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Tipi-rap, rock lining, gabions Other User Costs (from Other User sheet) Other"  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Management  | \$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556<br>Labor (1)<br>\$12,368  | \$1,829  Equipment (2) \$413 \$413 \$0 \$5,198 \$0 \$5,198 \$0 \$5,198 \$0 \$17,111 \$0 \$17,111 \$0 \$1,111 \$1,11   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   |
| Heaps Dumps (Waste & Landfil) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other*  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other*  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Management Construction Management Construction Management Construction Support   | \$0<br>\$0<br>\$595<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$1,829  Equipment (2) \$413 \$413 \$50 \$7,100 \$6,198 \$0 \$171 \$71 \$0 \$171 \$171 \$171 \$171 \$171  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,350 \$11,350 \$0 \$0 \$375 \$5 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0   |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demoition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Tipi-rap, rock lining, gabions Other User Costs (from Other User sheet) Other"  Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Management  | \$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$15,556<br>Labor (1)<br>\$12,368  | \$1,829  Equipment (2) \$413 \$413 \$0 \$5,198 \$0 \$5,198 \$0 \$5,198 \$0 \$17,111 \$0 \$17,111 \$0 \$1,111 \$1,11   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   |
| Heaps Dumps (Waste & Landfil) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Tip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other** Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Osther User Costs (from Other User sheet) Other User Costs (from Other User sheet) | \$0<br>\$0<br>\$595<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$1,829  Equipment (2) \$413 \$413 \$50 \$7,100 \$6,198 \$0 \$171 \$71 \$0 \$171 \$171 \$171 \$171 \$171  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   |
| Heaps Dumps (Waste & Landfil) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Solther User Costs (from Other User sheet) Other** Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management & Support Construction Management Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other**  Subtotal "F"   | \$0<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | \$1,829  Equipment (2) \$413 \$0 \$7,100 \$6,198 \$0 \$7,100 \$0 \$17,100 \$0 \$0 \$13,882  Equipment (2) \$8,462 \$0 \$8,462 \$23,684 \$223,684  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br><b>Materials</b><br>\$1,905<br>\$0<br>\$1,905<br>\$0<br>\$1,905  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$2,424  Total \$499 \$50 \$11,350 \$11,350 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  |
| Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Pipe Removal Piper Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other** Subtotal "D"  E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"  F. Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Subtotal "E"   | \$0<br>\$595<br>\$595<br>Labor (1)<br>\$86<br>\$0<br>\$4,150<br>\$11,116<br>\$0<br>\$204<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                      | \$1,829  Equipment (2) \$413 \$413 \$00 \$5,198 \$00 \$1711 \$171 \$171 \$171 \$171 \$13,882  Equipment (2) \$8,462 \$90 \$10 \$8,462  Equipment (2) \$2,974 \$428 \$20,282 \$0 \$0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$100<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$  | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,424 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,424  Total \$499 \$0 \$11,350 \$0 \$375 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$17,314 \$0 \$375 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  |

 $<sup>\</sup>ensuremath{^{**}}$  Other Operator supplied costs - additional documentation required.

#### **Closure Cost Estimate Cost Summary**

**Project Name: Foothill Dolomite Mine** Project Date: 01/18/2020 Model Version: Version 1.4.1

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

| ndirect Costs   |  |  |  | Include?   | Total                        |
|---|--|--|--|--|------------------------------|
| 1. Engineering, Design and Construction (ED&C) Plan (7)   |  |  |  |  | \$50,53                      |
| 2. Contingency (8)  |  |  |  |  | \$50,53                      |
| 3. Insurance (9)  |  | \$1,142  |  |  | \$1,14                       |
| 4. Performance Bond (10)  |  |  |  |  | \$18,95                      |
| Contractor Profit (11)  |  |  |  |  | \$63,17                      |
| Contract Administration (12)  |  |  |  |  | \$63,17                      |
| 7. Government Indirect Cost (13)  |  |  |  |  | \$13,26                      |
| Subtotal Add-On Costs   |  |  |  |  | \$260,77                     |
| Total Indirect Costs as % of Direct Cost  |  |  |  |  | 419                          |
|   |  |  |  |  | £000 40°                     |
| GRAND TOTAL   |  |  |  |  | \$892,48                     |
|   |  |  |  |  | \$892,48                     |
| GRAND TOTAL Administrative Cost Rates (%)   |  | Cost Rang  | jes for Indirect Cos                                 | st Percentages                                     | . ,                          |
|   | <=   | Cost Rang  | ges for Indirect Cos                                 | st Percentages                                     | . ,                          |
|   | <=<br>\$1,000,000  | <=   |  |  | · ,                          |
| Administrative Cost Rates (%)   |  | <=   |  | >  | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  | \$1,000,000  | <=<br>\$25,000,000   | <=<br><=   | ><br>\$25,000,000                                  | \$892,483                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate 2. Contingency (8)  | \$1,000,000<br>8%  | \$25,000,000<br>6%   | <=   | \$25,000,000<br>4%                                 | Small Pla                    |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate   | \$1,000,000<br>8%<br><=  | \$25,000,000<br>6%<br><=<br>\$5,000,000  | <=<br><=   | \$25,000,000<br>4%                                 | Small Pla<br>0°<br>Small Pla |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%                | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs  | <=<br><=<br>\$50,000,000<br>6%                       | \$25,000,000<br>4%<br>\$50,000,000                 | Small Pla                    |
| 1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)   | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%        | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if                     | <=<br><=<br>\$50,000,000                             | \$25,000,000<br>4%<br>\$50,000,000                 | Small Pla<br>0°<br>Small Pla |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%        | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs  | <=<br><=<br>\$50,000,000<br>6%                       | \$25,000,000<br>4%<br>\$50,000,000                 | Small Pla<br>0°<br>Small Pla |
| Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)  5. Contractor Profit (11) | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%<br>10% | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if<br>of the O&M costs | <=<br><=<br>\$50,000,000<br>6%                       | ><br>\$25,000,000<br>4%<br>><br>\$50,000,000<br>4% | Small Pla<br>0°<br>Small Pla |
| 1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)   | \$1,000,000<br>8%<br><=<br>\$500,000<br>10%<br>1.5%<br>3.0%        | <= \$25,000,000<br>6%<br><= \$5,000,000<br>8%<br>of labor costs<br>of the O&M costs if<br>of the O&M costs | <=<br>\$50,000,000<br>6%<br>O&M costs are >\$100,000 | > \$25,000,000<br>4%<br>> \$50,000,000<br>4%       | Small Pla<br>0°<br>Small Pla |

#### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

- RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

  1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading,
  2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the
  3. Miscellaneous items should be itemized on accompanying worksheets.
  4. Fluid management represents the costs of maintaining proper
  5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced,
  6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,
  7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To
  8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the
  9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.
  10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is
  11. For Federal construction contracts, use 10% of estimated 0&M cost for the contractor's promium (D&M) cost. Calculate the contract administration cost as a

- 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a 13. Government indirect cost rate is 21% of the contract administration costs.

#### **Closure Cost Estimate** Other User

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xism Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xism
Cost Eatimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Ot | Other Cost Items Calculated Elsewhere |         |                           |          |       |             |           |       |                         |              |           |          |
|----|---------------------------------------|---------|---------------------------|----------|-------|-------------|-----------|-------|-------------------------|--------------|-----------|----------|
|    |                                       |         |                           |          |       |             |           |       |                         |              |           |          |
|    |                                       |         |                           |          |       | Total       | Material  | Labor | Equipment/<br>Operating |              |           |          |
|    | Description                           |         |                           |          |       | Capital     | Unit      | Unit  | Unit                    |              | Total     |          |
|    | (required)                            | ID Code | Facility Type             | Quantity | Units | Cost        | Cost      | Cost  | Cost                    | Cost Type    | Cost      | Comments |
|    |                                       |         |                           |          |       | \$          | \$        | \$    | \$                      | (select)     | \$        |          |
| _1 | Topdressing Purchase and Hauling      |         | Off Site - Other Load Out | 18,529   | 1     | \$70,658.00 |           |       |                         | A. Earthwork | \$271,364 |          |
|    |                                       |         |                           |          |       | \$70,658    | \$200 706 | \$0   | sn.                     |              | \$271 364 |          |

Notes: Capital cost is lump sum (i.e. not multiplied by the quantity).

Material, Labor and Equipment/Operating costs are unit costs (i.e. multiplied by the quantity).

Note: Assumes 20% discount on purchased soil for bulk discount at \$13.54/cy original Cost

Note: Assumes Capitol Cost as Delivery cost at \$3.50 per mile using an 18 cy dump truck at 19.6 miles for delivery.

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Other User

#### **Closure Cost Estimate Reclamation Quantities**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Data Cost File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Data: User Data

Cost Data Data
Cost Data File: SRCE Cost \_data-Am \_Mg \_Foothill \_Dolomite \_ Mine \_1 \_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Reclamation Quantity Sum     | clamation Quantity Summary                  |   |                                |                                  |                                       |   |                                   |                                |                                   |              |                               |  |                             |                                       |                               |                              |  |  |
|------------------------------|---|---|--------------------------------|----------------------------------|---------------------------------------|---|-----------------------------------|--------------------------------|-----------------------------------|--------------|-------------------------------|--|-----------------------------|---------------------------------------|-------------------------------|------------------------------|--|--|
|                              |   |   |                                |                                  |                                       |   |                                   |                                |                                   |              |                               |  | Unit Costs                  |                                       |                               |                              |  |  |
| Description                  | Total<br>Regrade<br>or Haul<br>Volume<br>cy | Total<br>Regrade<br>or Haul<br>Cost<br>\$ | Total<br>Cover<br>Volume<br>cy | Cover<br>Placement<br>Cost<br>\$ | Total<br>Growth Media<br>Volume<br>cy | Growth Media<br>Placement<br>Cost<br>\$ | Total<br>Surface<br>Area<br>acres | Total<br>Scarify<br>Cost<br>\$ | Total<br>Revetation<br>Cost<br>\$ | TOTALS<br>\$ | Regrade<br>Unit Cost<br>\$/CY | Material Haul<br>or Backfill<br>Unit Cost<br>\$/CY | Cover<br>Unit Cost<br>\$/CY | Growth<br>Media<br>Unit Cost<br>\$/CY | Scarify<br>Unit Cost<br>\$/CY | Area<br>Unit Cost<br>\$/acre |  |  |
| 1 Waste Rock Dumps           |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                              |  |  |
| 2 Tailings Impoundments      |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               | i                            |  |  |
| 3 Heap Leach Pads            |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                              |  |  |
| 5 Open Pits                  |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               |                              |  |  |
| 4 Quarries & Borrow Pits     | 15,887                                      |   |                                | \$ -                             | 36,029                                | \$ 53,016                               | 22.33179063                       | \$ 2,455                       |                                   |              | \$0.16                        | N/A  |                             | \$1.47                                | \$109.93                      |                              |  |  |
| 6 Roads                      | 88  | \$ 364                                    |                                |                                  | 5,033                                 | \$ 6,816                                | 3.12                              | \$ 368                         | \$ 20,781                         | \$ 28,329    | \$4.14                        | N/A  |                             | \$1.35                                | \$117.95                      | \$9,079.81                   |  |  |
| 7 Landfills                  |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               | 1                            |  |  |
| 8 Buildings                  |   |   |                                | \$ -                             |                                       | \$ -                                    | 0.1                               |                                |                                   |              |                               | N/A  |                             |                                       |                               |                              |  |  |
| 9 Yards                      |   | \$ -                                      |                                | \$ -                             | 3,227                                 | \$ 4,073                                | 2                                 | \$ 246                         | \$ 13,322                         | \$ 17,641    |                               | N/A  |                             | \$1.26                                | \$123.00                      | \$8,820.50                   |  |  |
| 10 Ponds                     |   | \$ -                                      |                                |                                  |                                       | \$ -                                    |                                   |                                | \$ -                              | \$ -         | N/A                           |  |                             |                                       |                               |                              |  |  |
| 11 Exploration Roads         |   | \$ -                                      |                                |                                  |                                       | \$ -                                    | 2.93                              | \$ -                           | \$ -                              | \$ -         |                               | N/A  |                             |                                       | \$0.00                        | \$0.00                       |  |  |
| 12 Exploration Trenches      |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               | 1                            |  |  |
| 13 Diversion Ditches         |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                | \$ -                              | \$ -         |                               | N/A  |                             |                                       |                               | 1                            |  |  |
| 14 Sediment Ponds            |   | \$ -                                      |                                | _                                |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         |                               |  |                             |                                       |                               | 1                            |  |  |
| 15 Generic Haulage/Backfill  |   | \$ -                                      |                                | \$ -                             |                                       | \$ -                                    |                                   | \$ -                           | \$ -                              | \$ -         | N/A                           |  |                             |                                       |                               | <b></b>                      |  |  |
| 16 Adit/Decline Backfilling1 |   | \$ -                                      |                                |                                  |                                       |   |                                   |                                |                                   | \$ -         | N/A                           |  |                             |                                       |                               | <b>!</b>                     |  |  |
| 17 Shaft Backfilling         | 45.075                                      | \$ -                                      |                                |                                  | 44.000                                | A 00.00F                                | 00.40                             |                                | 400 754                           | \$ -         | N/A                           |  |                             |                                       |                               |                              |  |  |
| TOTALS                       | - 7   |   |                                | \$ -                             | 44,289                                |   | 30.48                             |                                |                                   |              |                               |  |                             |                                       |                               |                              |  |  |
| Average Costs                | per CY                                      | \$0.18                                    | per CY                         |                                  | per CY                                | \$1.44                                  | per acre                          | \$104.69                       | \$57.58                           | \$8,326      | per acre                      |  |                             |                                       |                               |                              |  |  |

1 of 1 Reclamation Quantities

#### **Closure Cost Estimate Exploration**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Basis: American Magnesium - Option 1 Revised Cost Estimate Type: Surety

| Exploration - Cost Summary |       |           |           |        |
|----------------------------|-------|-----------|-----------|--------|
|                            | Labor | Equipment | Materials | Totals |
| Hole Abandonment Costs     | \$0   | \$0       | \$0       | \$0    |
| Trench Backfilling Costs   | \$0   | \$0       |           | \$0    |
| Subtotal Earthworks        | \$0   | \$0       | \$0       | \$0    |
| Trench Revegetation Costs  | \$0   | \$0       | \$0       | \$0    |
| TOTALS                     | \$0   | \$0       | \$0       | \$0    |

| Exp | Exploration Drillhole Abandonment - User Input |         |                       |                       |                             |                                  |                           |  |                          |            |  |  |
|-----|--|---------|-----------------------|-----------------------|-----------------------------|----------------------------------|---------------------------|--|--------------------------|------------|--|--|
|     | Facility Description                           |         | Hole Plugging         |                       |                             |                                  |                           |  |                          |            |  |  |
|     | Description<br>(required)                      | ID Code | Hole Type<br>(select) | <b>Diameter</b><br>in | Total<br>Number<br>of Holes | Max Holes<br>Open at One<br>Time | Casing to<br>Remove<br>ft | Average<br>Depth of<br>Hole <sup>(1)</sup><br>ft bgs | Depth to Water<br>ft bgs | (select)   |  |  |
| 1   | Exploration Boreholes                          | N/A     | Rotary Pre-drill      | 3.0                   | 86.0                        | 0.0                              | 0.0                       | 100.0  | 250.0                    | Grout Only |  |  |

1. If core holes are pre-drilled, use length of hole below pre-drilled length
2. If Top Plug is selected, assumes maximum 1/2hr laborer time to place plug and backfill with cuttings/soil (including move-to/set up time).

Note: Exploration Boreholes will be mined out during life of mine and not be present for final reclamation.

1/14/2021

Page 1 of 6 Exploration

#### **Closure Cost Estimate Exploration**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Basis: American Magnesium - Option 1 Revised Cost Estimate Type: Surety

| Exploration - Cost Summary |       |           |           |        |
|----------------------------|-------|-----------|-----------|--------|
|                            | Labor | Equipment | Materials | Totals |
| Hole Abandonment Costs     | \$0   | \$0       | \$0       | \$0    |
| Trench Backfilling Costs   | \$0   | \$0       |           | \$0    |
| Subtotal Earthworks        | \$0   | \$0       | \$0       | \$0    |
| Trench Revegetation Costs  | \$0   | \$0       | \$0       | \$0    |
| TOTALS                     | \$0   | \$0       | \$0       | \$0    |

| Ex                   | Exploration Trenches - User Input |         |                        |                       |                                 |   |   |                                  |                                     |                                  |                      |                   |                        |
|----------------------|-----------------------------------|---------|------------------------|-----------------------|---------------------------------|---|---|----------------------------------|-------------------------------------|----------------------------------|----------------------|-------------------|------------------------|
| Facility Description |                                   |         |                        | Tre                   | nch Paramet                     | ers                                     |   |                                  | Backfill                            |                                  | Revegetation         |                   |                        |
|                      | Description<br>(required)         | ID Code | Trench<br>Length<br>ft | Trench<br>Depth<br>ft | Trench<br>Bottom<br>Width<br>ft | Trench<br>Sideslope<br>Angle<br>degrees | Additional<br>Hrs<br>for Walk-in <sup>(1)</sup><br>hr | Backfill<br>Material<br>(select) | Cut<br>Material<br>Type<br>(select) | Backfilling<br>Fleet<br>(select) | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) |

- Notes:

  1. Include <u>one-way</u> hours necessary to walk equipment in from drop-off point to work area
- 2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

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Page 2 of 6 Exploration

#### **Closure Cost Estimate Exploration**

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |       |           |           |        |
|----------------------------|-------|-----------|-----------|--------|
|                            | Labor | Equipment | Materials | Totals |
| Hole Abandonment Costs     | \$0   | \$0       | \$0       | \$0    |
| Trench Backfilling Costs   | \$0   | \$0       |           | \$0    |
| Subtotal Earthworks        | \$0   | \$0       | \$0       | \$0    |
| Trench Revegetation Costs  | \$0   | \$0       | \$0       | \$0    |
| TOTALS                     | \$0   | \$0       | \$0       | \$0    |

| Exp | Exploration Drillhole Abandonment |                             |   |   |                             |  |   |   |  |                                 |                                     |                                    |   |                                |
|-----|-----------------------------------|-----------------------------|---|---|-----------------------------|--|---|---|--|---------------------------------|-------------------------------------|------------------------------------|---|--------------------------------|
|     |                                   |                             |   |   |                             |  |   |   |  |                                 |                                     |                                    |   |                                |
|     | Description<br>(required)         | Vol/foot of<br>depth<br>ft3 | Hole<br>Plugging<br>Material <sup>(1)</sup> | Total<br>Grout<br>Volume <sup>(2)</sup><br>cy | Total<br>Cuttings<br>Volume | Total<br>Top Seal<br>Volume <sup>(3,4)</sup><br>Cy | Total<br>Drillhole<br>Abandon.<br>Hours <sup>(6,7)</sup><br>hrs | Casing<br>Removal<br>Labor<br>Cost <sup>(5)</sup><br>\$ | Casing<br>Removal<br>Equipment<br>Cost<br>\$ | Plugging<br>Labor<br>Cost<br>\$ | Plugging<br>Equipment<br>Cost<br>\$ | Plugging<br>Material<br>Cost<br>\$ | Top Seal<br>Material<br>Cost <sup>(2,3)</sup> | Total<br>Cost <sup>(6,7)</sup> |
| 1   | Exploration Boreholes             | 0.050                       | Cuttings                                    | 0.19  |                             |  | 3   | \$0   | \$0  | \$0                             | \$0                                 | \$0                                | \$0   |                                |
|     |                                   |                             |   | 0.19  |                             |  | 3   | \$0   | \$0  | \$0                             | \$0                                 | \$0                                | \$0   | \$0                            |

#### Notes:

- 1. Assumes grout backfill from bottom of hole to 50' (15.24m) above static water level, up to 10' (3m) from top of hole
- 2. Assumes 25% loss to formation for grout backfill
- 3. If "Top Plug" hole plug method is used, assumes physical plug installed without backfill, grout or cement. Not available option for Nevada projects
  4. Assumes top 20' (6 m) of hole is plugged with cement if "Grout Only", "Backfill + Grout", or "Cement Plug" hole plug method are chosen.
- 5. Assumes that a) casing is not cemented entire length, b) does not include temporary surface casing
- 6. Assumes minimum 1 hr per hole for abandonment (excluding move-to and casing removal)
- 7. Assumes fixed hours per hole for setup & tear-down and moving between holes (see Productivty Sheet) per drill hole (includes rig time if grouting required, labor crew only if cuttings backfill only)

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#### Closure Cost Estimate Exploration

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |       |           |           |        |
|----------------------------|-------|-----------|-----------|--------|
|                            | Labor | Equipment | Materials | Totals |
| Hole Abandonment Costs     | \$0   | \$0       | \$0       | \$0    |
| Trench Backfilling Costs   | \$0   | \$0       |           | \$0    |
| Subtotal Earthworks        | \$0   | \$0       | \$0       | \$0    |
| Trench Revegetation Costs  | \$0   | \$0       | \$0       | \$0    |
| TOTALS                     | \$0   | \$0       | \$0       | \$0    |

# Exploration Trench Volume Calculation Dozing & Ripping/Scarifying Calculations Dozing & Ripping/Scarifying Calculations Dozing: Dozing distance = 1/2 trench length or 400 ft (max push) whichever is less Assumes flat push (grade correction factor = 1) Revegetation: 10 ft added to trench width to account for revegetation under spoil pile

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#### Closure Cost Estimate Exploration

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |       |           |           |        |
|----------------------------|-------|-----------|-----------|--------|
|                            | Labor | Equipment | Materials | Totals |
| Hole Abandonment Costs     | \$0   | \$0       | \$0       | \$0    |
| Trench Backfilling Costs   | \$0   | \$0       |           | \$0    |
| Subtotal Earthworks        | \$0   | \$0       | \$0       | \$0    |
| Trench Revegetation Costs  | \$0   | \$0       | \$0       | \$0    |
| TOTALS                     | \$0   | \$0       | \$0       | \$0    |

| Exploration Trenches - Backfill/Regrading Costs  Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) |   |                                 |                                     |                    |                       |                      |   |                               |  |  |  |
|--|---|---------------------------------|-------------------------------------|--------------------|-----------------------|----------------------|---|-------------------------------|--|--|--|
| Description<br>(required)  | Trench<br>Backfill<br>Volume<br>LCY (BCY+30%) | Dozer<br>Push<br>Distance<br>ft | Equipment<br>Productivity<br>yd3/hr | Dozing<br>Material | Density<br>Correction | Backfilling<br>Fleet | Corrected<br>Hourly<br>Productivity<br>yd3/hr | Total<br>Dozer<br>Hours<br>hr | Trench Backfill<br>Labor<br>Cost<br>\$ | Trench Backfill<br>Equipment<br>Cost<br>\$ | Total<br>Trench Backfill<br>Cost<br>\$ |
| <u> </u>   |   |                                 |                                     |                    |                       |                      |   |                               | \$0                                    | \$0  | \$0                                    |

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Cappraight 2020-1-2009
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Exploration

#### Closure Cost Estimate Exploration

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Exploration - Cost Summary |       |           |           |        |
|----------------------------|-------|-----------|-----------|--------|
|                            | Labor | Equipment | Materials | Totals |
| Hole Abandonment Costs     | \$0   | \$0       | \$0       | \$0    |
| Trench Backfilling Costs   | \$0   | \$0       |           | \$0    |
| Subtotal Earthworks        | \$0   | \$0       | \$0       | \$0    |
| Trench Revegetation Costs  | \$0   | \$0       | \$0       | \$0    |
| TOTALS                     | \$0   | \$0       | \$0       | \$0    |

| Ехр | Exploration Trenches - Revegetation Costs |                          |                               |                                   |                                       |                               |  |  |  |  |  |
|-----|---|--------------------------|-------------------------------|-----------------------------------|---------------------------------------|-------------------------------|--|--|--|--|--|
|     | Description<br>(required)                 | Surface<br>Area<br>acres | Revegetation<br>Labor<br>Cost | Revegetation<br>Equipment<br>Cost | Revgetation<br>Material<br>Cost<br>\$ | Total<br>Revegetation<br>Cost |  |  |  |  |  |
|     |   |                          | \$0                           | \$0                               | \$0                                   | \$0                           |  |  |  |  |  |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |       |           |           |        |
|---|-------|-----------|-----------|--------|
|   | Labor | Equipment | Materials | Totals |
| Grading Costs                           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost                 | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks                     | \$0   | \$0       |           | \$0    |
| Revegetation Cost                       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                  | \$0   | \$0       | \$0       | \$0    |

| E | Exploration Roads & Pads - User Input  You must fill in ALL green cells and relevant blue cells in this section for each road |         |  |                            |                         |                                     |                     |                            |                                    |                             |                              |                                      |   |   |                                    |  |   |
|---|---|---------|--|----------------------------|-------------------------|-------------------------------------|---------------------|----------------------------|------------------------------------|-----------------------------|------------------------------|--------------------------------------|---|---|------------------------------------|--|---|
|   | Facility Description  |         |  |                            |                         | Ph                                  | ysical (1) - N      | MANDATORY                  |                                    |                             |                              |                                      | User O                                      | verrides  |                                    | Growth Media                                   | a   |
|   | Description<br>(required)   | ID Code | Underlying<br>Ground<br>Slope<br>% grade | Ungraded<br>Slope<br>_H:1V | Cut<br>Slope<br>degrees | Road +<br>Drill Pad<br>Length<br>ft | Road<br>Width<br>ft | Number<br>of Drill<br>Pads | Individual<br>Sump<br>Volume<br>cy | Drill<br>Pad<br>Width<br>ft | Drill<br>Pad<br>Length<br>ft | Slope<br>Replacement<br>Percent<br>% | Regrade Volume (if calculated elsewhere) Cy | Disturbed Area<br>(if calculated<br>elsewhere)<br>acres | Growth<br>Media<br>Thickness<br>in | Distance to<br>Growth Media<br>Stockpile<br>ft | Slope from<br>Road to<br>Stockpile<br>% grade |
|   | 1 Exploration Roads   | N/A     | 15.0                                     | 2.0                        | 66.7                    | 0                                   | 12.0                | 86                         | 0                                  | 12.0                        | 10                           | 115%                                 |   | 2.93  | 12                                 | 1,379  | 15.0  |

- Notes:

  1. All Physical parameters must be input even if manual overrides for volume or area are used.

  2. Slope replacement refers to the percentage of cut volumn replaced during regrading.

  3. If Slope from facility to borrow source is >20, downfull travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

  4. Sump volume will be applied to all roads on slopes <20%. On slopes >20% pad width (i.e. cut volume) should be adequate to account for sump volume.

  Note: Exploration Roads will be mined out during life of mine and not be present for final reclamation.

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |       |           |           |        |
|---|-------|-----------|-----------|--------|
|   | Labor | Equipment | Materials | Totals |
| Grading Costs                           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost                 | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks                     | \$0   | \$0       |           | \$0    |
| Revegetation Cost                       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                  | \$0   | \$0       | \$0       | \$0    |

| E       | Exploration Roads & Pads - User Input (cont.)  You must fill in ALL green cells and relevant blue cells in this section for each road |                           |  |                               |   |   |   |                                    |  |   |                      |                   |                        |                                     |                           |  |
|---------|---|---------------------------|--|-------------------------------|---|---|---|------------------------------------|--|---|----------------------|-------------------|------------------------|-------------------------------------|---------------------------|--|
| Grading |   |                           |  |                               |   |   | Growth Media                              |                                    |  |   |                      | F                 | Revegetation           | ation                               |                           |  |
|         |   | Description<br>(required) | Regrade<br>Material<br>Condition<br>(select) | Cut Material Type<br>(select) | Recontouring<br>Equipment Fleet<br>(select) | Additional<br>Hrs<br>for Walk-in <sup>(1)</sup> | Growth Media<br>Material Type<br>(select) | Placement Equipment Fleet (select) | Maximum<br>Fleet Size<br>(user override) | Additional<br>Hrs<br>for Walk-in <sup>(1)</sup> | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) | Scarifying/<br>Ripping?<br>(select) | Ripping Fleet<br>(select) |  |
|         | 1   | Exploration Roads         |  |                               |   |   |   |                                    |  |   |                      |                   |                        |                                     |                           |  |

- Notes:

  1. Inclue one-way hours necessary to walk equipment in from drop-off point to work area

  2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Project Name: Foothill Dolomite Mine - Reclamation Plan

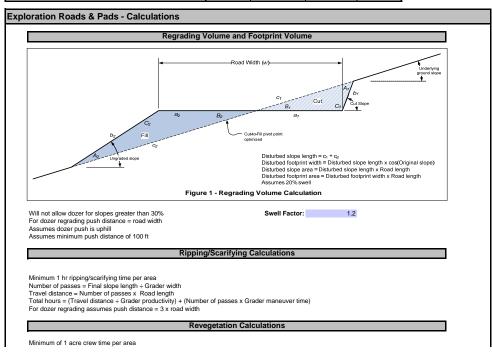
Date of Submittal: 01/18/2020

File Name: Att 2 Cost 20200820 SRCE Version 1 4 1 017b NV 20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |       |           |           |        |
|---|-------|-----------|-----------|--------|
|   | Labor | Equipment | Materials | Totals |
| Grading Costs                           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost                 | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks                     | \$0   | \$0       |           | \$0    |
| Revegetation Cost                       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                  | \$0   | \$0       | \$0       | \$0    |



Project Name: Foothill Dolomite Mine - Reclamation Plan

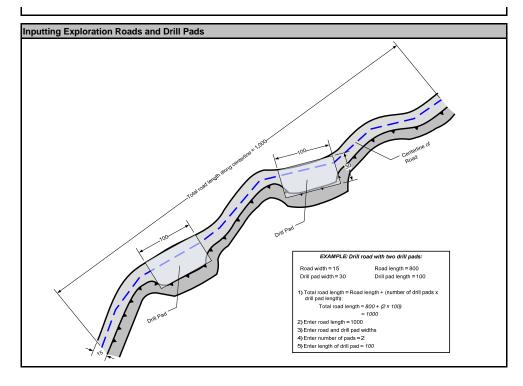
Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |       |           |           |        |
|---|-------|-----------|-----------|--------|
|   | Labor | Equipment | Materials | Totals |
| Grading Costs                           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                    | \$0   | \$0       |           | \$0    |
| Ripping/Scarifying Cost                 | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks                     | \$0   | \$0       |           | \$0    |
| Revegetation Cost                       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                  | \$0   | \$0       | \$0       | \$0    |



Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm Model Version: Version 1.4.1

Cost Data: User Data

| xploration Roads & Pads - Cost Summary |       |           |           |        |
|--|-------|-----------|-----------|--------|
|  | Labor | Equipment | Materials | Totals |
| Grading Costs                          | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                   | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost                | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks                    | \$0   | \$0       |           | \$0    |
| Revegetation Cost                      | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                 | \$0   | \$0       | \$0       | \$0    |

| Expl | oration Roads & Pads - Regrading Costs |               |                    |           |              |                |                    |                |                    |                    |
|------|--|---------------|--------------------|-----------|--------------|----------------|--------------------|----------------|--------------------|--------------------|
|      |  |               |                    |           | 1            | 1              | Tatal              |                |                    |                    |
|      | Description                            | Total<br>Road | Total<br>Drill Pad | Regrading | Recontouring | Equipment      | Total<br>Equipment | Total<br>Labor | Total<br>Equipment | Total<br>Regrading |
|      | (required)                             | Length        | Length             | Volume    | Fleet        | Productivity   | Hours (1)          | Cost           | Cost               | Cost               |
|      |  | ft            | ft                 | су        |              | cy/hr          | hr                 | \$             | \$                 | \$                 |
| 1    | Exploration Roads                      | Excess Pads!  |                    | 0         |              | Material Type! |                    | \$0            | \$0                | \$0                |
|      |  |               | 860                |           |              |                |                    | \$0            | \$0                | \$0                |

<sup>(1)</sup> Includes walk-in time based on distance and travel speed (see Productivity sheet for speeds)

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |       |           |           |        |
|---|-------|-----------|-----------|--------|
|   | Labor | Equipment | Materials | Totals |
| Grading Costs                           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost                 | \$0   | \$0       | N/A       | \$0    |
| Subtotal Earthworks                     | \$0   | \$0       |           | \$0    |
| Revegetation Cost                       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                  | \$0   | \$0       | \$0       | \$0    |

| Expl | Exploration Roads & Pads - Growth Media Costs |                                 |   |                                 |                                  |                         |                              |                                  |  |  |  |  |  |
|------|---|---------------------------------|---|---------------------------------|----------------------------------|-------------------------|------------------------------|----------------------------------|--|--|--|--|--|
|      | Description<br>(required)                     | Growth<br>Media<br>Volume<br>Cy | Growth<br>Media<br>Replacement<br>Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total<br>Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth<br>Media<br>Cost<br>\$ |  |  |  |  |
| 1    | Exploration Roads                             | 0                               |   |                                 |                                  |                         | \$0                          | \$0                              | \$0                                    |  |  |  |  |
|      |   |                                 |   |                                 |                                  |                         | \$0                          | \$0                              | \$0                                    |  |  |  |  |

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm Model Version: Version 1.4.1

Cost Data: User Data

| Exploration Roads & Pads - Cost Summary |       |           |           |        |
|---|-------|-----------|-----------|--------|
|   | Labor | Equipment | Materials | Totals |
| Grading Costs                           | \$0   | \$0       | N/A       | \$0    |
| Cover Placement Cost                    | \$0   | \$0       | N/A       | \$0    |
| Ripping/Scarifying Cost                 | \$0   | \$0       | N/A       | \$1    |
| Subtotal Earthworks                     | \$0   | \$0       |           | \$0    |
| Revegetation Cost                       | \$0   | \$0       | \$0       | \$0    |
| TOTALS                                  | \$0   | \$0       | \$0       | \$0    |

| Expl | oration Roads & Pads - Scarifying/Reveget | Exploration Roads & Pads - Scarifying/Revegetation Costs |                     |              |                  |                      |                  |                       |                           |                         |                       |  |  |  |
|------|---|--|---------------------|--------------|------------------|----------------------|------------------|-----------------------|---------------------------|-------------------------|-----------------------|--|--|--|
|      |   |  |                     |              |                  |                      |                  |                       |                           |                         |                       |  |  |  |
|      | Description                               | Surface  | Ripping/ Scarifying |              | Ripping<br>Labor | Ripping<br>Equipment | Total<br>Ripping | Revegetation<br>Labor | Revegetation<br>Equipment | Revgetation<br>Material | Total<br>Revegetation |  |  |  |
|      | (required)                                | Area<br>acres  | Fleet               | Hours<br>hrs | Costs<br>\$      | Cost<br>\$           | Costs<br>\$      | Cost<br>\$            | Cost<br>\$                | Cost<br>\$              | Cost<br>\$            |  |  |  |
| 1    | Exploration Roads                         | 2.93   |                     |              |                  |                      |                  | \$0                   | \$0                       | \$0                     | \$0                   |  |  |  |
|      |   | 2.93   |                     |              | \$0              | \$0                  | \$0              | \$0                   | \$0                       | \$0                     | \$0                   |  |  |  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

| Roa                  | ds - User Input           |         |             |  | You must fill in A         | ALL green cells a    | nd relevant blue | cells in this section | on for each road                |  |   |                                    |   |   |
|----------------------|---------------------------|---------|-------------|--|----------------------------|----------------------|------------------|-----------------------|---------------------------------|--|---|------------------------------------|---|---|
| Facility Description |                           |         |             | Physical (1) - MANDATORY                 |                            |                      |                  |                       | User Overrides                  |  | Growth Media  |                                    |   |   |
|                      | Description<br>(required) | ID Code | Туре        | Underlying<br>Ground<br>Slope<br>% grade | Ungraded<br>Slope<br>_H:1V | Cut Slope<br>degrees | Road Width       | Road Length<br>ft     | Slope<br>Replacement<br>Percent | Regrade Volume<br>(if calculated<br>elsewhere)<br>cy | Disturbed Area<br>(if calculated<br>elsewhere)<br>acres | Growth<br>Media<br>Thickness<br>in | Haul Distance<br>from Growth<br>Media Stockpile<br>ft | Slope from<br>Road to<br>Stockpile<br>% grade |
| 1                    | Access Roads              |         | Haul Road   | 2.0                                      | 3.0                        | 50.0                 | 16.0             | 1,350                 | 115%                            |  | 1.50  | 12.0                               | 1,379   | -2%   |
| 2                    | BLM Road Improvements     |         | Access Road | 2.0                                      | 3.0                        | 50.0                 | 6.0              | 10,560                | 115%                            |  | 1.62  | 12.0                               | 1,379   | -2%   |

#### Notes

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
- 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
- 3. Because the work required for building roads with a dozer is similar to that required to regrade a road with a dozer, this sheet could be used to provide a rough estimate of road construction costs if a dozer is selected as the grading fleet.

Note: BLM Road Improvements area override accounts for additional disturbance of road turnouts.

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

| Road | Roads - User Input (cont.) |  |     |     |     |   |  |  |  |  |  |  |
|------|----------------------------|--|-----|-----|-----|---|--|--|--|--|--|--|
|      |                            | Haul Road Safety Berms   |     |     |     |   |  |  |  |  |  |  |
|      | Description<br>(required)  | Berm         Berm         Number           Berm         Base         Sideslope         Berms           Length         Height         Width         Angle         (1 or 2 s           ft         ft         ft         .H:1√l |     |     |     |   |  |  |  |  |  |  |
| 1    | Access Roads               | 0.0  | 2.0 | 6.0 | 1.3 | 2 |  |  |  |  |  |  |
| 2    | BLM Road Improvements      | 0.0  | 2.0 | 6.0 | 1.3 | 2 |  |  |  |  |  |  |

<sup>(2)</sup> Enter 1 if berm on only one side of road, 2 if both sides of road are bermed.

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

| Roa     | Roads - User Input (cont.)  You must fill in ALL green cells and relevant blue cells in this section for each road |  |   |  |  |          |  |  |                      |                   |                        |                                     |                           |
|---------|--|--|---|--|--|----------|--|--|----------------------|-------------------|------------------------|-------------------------------------|---------------------------|
| Grading |  |  |   | Growth Media                             |  |          | Revegetation                                   |  |                      |                   |                        |                                     |                           |
|         | Description<br>(required)  | Regrading<br>Material<br>Condition<br>(select) | Regrading<br>Material<br>Type<br>(select) | Regrading<br>Equipment Fleet<br>(select) | No. of Excavators<br>if grade >30%<br>(select) |          | Cover Placement<br>Equipment Fleet<br>(select) | Maximum<br>Fleet Size<br>(user override) | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) | Scarifying/<br>Ripping?<br>(select) | Ripping Fleet<br>(select) |
| 1       | Access Roads   | 1  | Alluvium                                  | Sm Dozer                                 |  | Alluvium | Small Truck                                    |  | User Mix 1           | Straw Mulch       | None                   | Yes                                 | Small Dozer               |
| 2       | BLM Road Improvements  | 1  | Alluvium                                  | Sm Excavator                             |  | Alluvium | Small Truck                                    |  | User Mix 1           | Straw Mulch       | None                   | Yes                                 | Small Dozer               |

#### Notes

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

2. If original slope >30% only excavators are allowed.

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

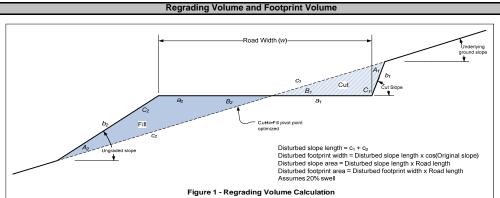
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

## Roads - Calculations



Will not allow dozer for slopes greater than 30% For dozer regrading push distance = road width

Assumes dozer push is uphill
Assumes minimum push distance of 100 ft

# Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per area Number of passes = Final slope length ÷ Grader width Travel distance = Number of passes x Road length

Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)

For dozer regrading assumes push distance = 3 x road width

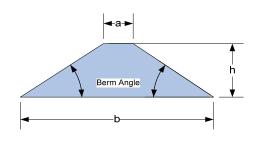
## Revegetation Calculations

Minimum of 1 acre crew time per area

## Safety Berm Volume Calculation

Cross Sectional Area =  $\frac{(a+b)}{2} \times h$ 

Berm Volume = Berm Length x Cross Sectional Area x No. Sides



Total berm volume doubled if both sides of road are bermed.

If length of berm on each side of road is different, input total length of both berms and input 1 for number of sides

Roads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

| Road | ds - Regrading Costs      |                           |                       |                                |                   |                              |                                  |                               |
|------|---------------------------|---------------------------|-----------------------|--------------------------------|-------------------|------------------------------|----------------------------------|-------------------------------|
|      |                           |                           |                       |                                |                   |                              |                                  |                               |
|      | Description<br>(required) | Regrading<br>Volume<br>cy | Recontouring<br>Fleet | Fleet<br>Productivity<br>cy/hr | Total Fleet Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Regrading<br>Cost<br>\$ |
|      | Access Roads              | 42                        | D7R                   | 296                            | 1                 | \$34                         |                                  | \$122                         |
| 2    | BLM Road Improvements     | 46                        | 325C                  | 398                            | 1                 | \$72                         | \$170                            | \$242                         |
|      |                           | 88                        |                       |                                | 2                 | \$106                        | \$258                            | \$364                         |

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Roads

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

| Road | ls - Growth Media Costs |              |              |                    |                  |                   |         |           |              |
|------|-------------------------|--------------|--------------|--------------------|------------------|-------------------|---------|-----------|--------------|
|      |                         |              |              |                    |                  |                   |         |           |              |
|      |                         |              | Growth Media |                    |                  |                   | Total   | Total     | Total        |
|      | Description             | Growth Media | Replacement  |                    | Number of        |                   | Labor   | Equipment | Growth Media |
|      | (required)              | Volume       | Fleet        | Fleet Productivity | Trucks/ Scrapers | Total Fleet Hours | Cost    | Cost      | Cost         |
|      |                         | су           |              | LCY/hr             |                  |                   | \$      | \$        | \$           |
|      | Access Roads            | 2,420        | 725/966G/D7R | 548                | 3                | 4                 | \$688   | \$2,341   | \$3,029      |
| 2    | BLM Road Improvements   | 2,613        | 725/966G/D7R | 548                | 3                | 5                 | \$860   | \$2,927   | \$3,787      |
|      |                         | 5,033        |              |                    |                  | 9                 | \$1,548 | \$5,268   | \$6,816      |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Roads - Cost Summary    |         |           |           |          |
|-------------------------|---------|-----------|-----------|----------|
|                         | Labor   | Equipment | Materials | Totals   |
| Grading Costs           | \$106   | \$258     | N/A       | \$364    |
| Cover Placement Cost    | \$1,548 | \$5,268   | N/A       | \$6,816  |
| Ripping/Scarifying Cost | \$103   | \$265     | N/A       | \$368    |
| Subtotal Earthworks     | \$1,757 | \$5,791   |           | \$7,548  |
| Revegetation Cost       | \$437   | \$374     | \$19,970  | \$20,781 |
| TOTALS                  | \$2,194 | \$6,165   | \$19,970  | \$28,329 |

| Road | ls - Scarifying/Revegetation Costs |                                |                             |                              |                      |                                 |                                    |                                 |                                     |   |                                       |                                     |
|------|------------------------------------|--------------------------------|-----------------------------|------------------------------|----------------------|---------------------------------|------------------------------------|---------------------------------|-------------------------------------|---|---------------------------------------|-------------------------------------|
|      |                                    |                                |                             |                              |                      |                                 |                                    |                                 |                                     |   |                                       |                                     |
|      | Description<br>(required)          | Total Surface<br>Area<br>acres | Final Slope<br>Length<br>ft | Ripping/<br>Scarifying Fleet | Ripping Hours<br>hrs | Ripping<br>Labor<br>Costs<br>\$ | Ripping<br>Equipment<br>Cost<br>\$ | Total<br>Ripping<br>Costs<br>\$ | Revegetation<br>Labor<br>Cost<br>\$ | Revegetation<br>Equipment<br>Cost<br>\$ | Revgetation<br>Material<br>Cost<br>\$ | Total<br>Revegetation<br>Cost<br>\$ |
|      | Access Roads                       | 1.50                           | 48.0                        | D7R                          | 1                    | \$34                            | \$88                               | \$122                           | \$210                               | \$180                                   | \$9,601                               | \$9,991                             |
| 2    | BLM Road Improvements              | 1.62                           | 7.0                         | D7R                          | 2                    | \$69                            | \$177                              |                                 | \$227                               | \$194                                   | \$10,369                              | \$10,790                            |
|      |                                    | 3.12                           |                             |                              | 3                    | \$103                           | \$265                              | \$368                           | \$437                               | \$374                                   | \$19,970                              | \$20,781                            |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

|                               | Labor    | Equipment | Materials | Totals    |
|-------------------------------|----------|-----------|-----------|-----------|
| Grading Costs                 | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost          | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost        | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost       | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork            | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost             | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost | \$140    | \$120     | \$0       | \$260     |
|                               | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                        | \$16,721 | \$47,395  | \$142,942 | \$207.058 |

| Qua | arries & Borrow Pits - User Input               |         |        |  | You must fill in           | ALL green o             | ells in this sec              | ction for each                       | dump, lift or dun         | np category   |   |   |                                    |  |   |   |                                       |  |  |   |
|-----|---|---------|--------|--|----------------------------|-------------------------|-------------------------------|--------------------------------------|---------------------------|---|---|---|------------------------------------|--|---|---|---------------------------------------|--|--|---|
|     | Facility Description Physical - MANDATORY Cover |         |        |  |                            |                         |                               |                                      |                           |   |   |   |                                    | Growth                                 | Media                                     |   |                                       |  |  |   |
|     | Description<br>(required)                       | ID Code | Туре   | Underlying<br>Ground<br>Slope<br>% Grade | Ungraded<br>Slope<br>_H:1V | Final<br>Slope<br>_H:1V | Final Top<br>Slope<br>% Grade | Bench or<br>Highwall<br>Height<br>ft | Mid-Bench<br>Length<br>ft | Average Flat<br>Area Long<br>Dimension<br>(ripping<br>distance) | Final<br>(Regraded)<br>Footprint<br>acres | Regrade<br>Volume (1)<br>(if calculated<br>elsewhere) | Cover<br>Thickness<br>Slopes<br>in | Cover<br>Thickness Flat<br>Areas<br>in | Distance<br>from<br>Cover<br>Borrow<br>ft | Slope<br>from<br>Dump to<br>Cover Borrow<br>% grade | Slope Growth<br>Media Thickness<br>in | Flat Area<br>Growth Media<br>Thickness<br>in | Distance from<br>Growth Media<br>Stockpile<br>ft | Slope from<br>Dump to<br>Stockpile<br>% grade |
| 1   | Main Quarry                                     |         | Quarry | 1.0                                      | 2.0                        | 3.0                     | 1.0                           | 20                                   | 8,411                     | 1,089   | 21.75                                     |   | 0.0                                | 0.0                                    | 1,379                                     | -2.0  | 12.0                                  | 12.0   | 1,379  | -2.0  |

- Notes:

  1. All Physical parameters must be input even if manual overrides for volume or area are used.

  2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Page 1 of 7 Quarries & Borrow Pits

Project Name: Foothill Dolomite Mine - Reclamation Plan

Tole of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data Flie: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm

Cost Bata Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Rock Dumps - Cost Summary |          |           |           |           |
|---------------------------------|----------|-----------|-----------|-----------|
|                                 | Labor    | Equipment | Materials | Totals    |
| Grading Costs                   | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost            | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost          | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost         | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost   | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork              | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost               | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost   | \$140    | \$120     | \$0       | \$260     |
|                                 | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                          | \$16,721 | \$47,395  | \$142,942 | \$207.058 |

|   |  |   |                  |                             |                  | _                |                   |                  |                              |                    |                     |                    |                        |                    |                        |                  |                    |                   |
|---|--|---|------------------|-----------------------------|------------------|------------------|-------------------|------------------|------------------------------|--------------------|---------------------|--------------------|------------------------|--------------------|------------------------|------------------|--------------------|-------------------|
| Q | uarries & Borrow Pits - User Input (cont.) |   |                  |                             | You must fill in | n ALL green o    | ells and releva   | int blue cells i | n this section fo            | or each dump,      | lift or dump catego | ry                 |                        |                    |                        |                  |                    |                   |
|   |  | Grading Cover Growth Media Revegetation                             |                  |                             |                  |                  |                   |                  |                              |                    |                     |                    |                        |                    |                        |                  |                    |                   |
|   | Description                                | Regrading Regrading scription Material Material Regrading Slot/Side |                  |                             |                  |                  |                   |                  | Growth<br>Media<br>Equipment | Seed Mix           | Seed Mix Flat       | Mulch              | Mulch                  | Fertilizer         | Fertilizer             | Slope Scarify/   | Flat Area Scarify/ | Scarify/ Ripping  |
|   | (required)                                 | Condition<br>(select)   | Type<br>(select) | Equipment Fleet<br>(select) | Side<br>(select) | Type<br>(select) | Fleet<br>(select) | Type<br>(select) | Fleet<br>(select)            | Slopes<br>(select) | Areas<br>(select)   | Slopes<br>(select) | Flat Areas<br>(select) | Slopes<br>(select) | Flat Areas<br>(select) | Rip?<br>(select) | Rip?<br>(select)   | Fleet<br>(select) |
|   | 1 Main Quarry                              | 0.8   | LS - broken      | Small                       |                  | Alluvium         | Small Truck       | Alluvium         | Small Truck                  | User Mix 1         | User Mix 1          | Straw Mulch        | Straw Mulch            | None               | None                   | Yes              | Yes                | Small Dozer       |

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Page 2 of 7 Quarries & Borrow Pits Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

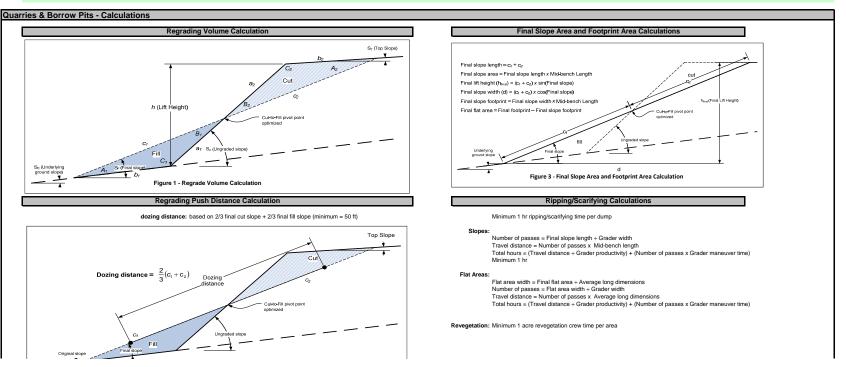
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Waste Rock Dumps - Cost Summary |          |           |           |           |
|---------------------------------|----------|-----------|-----------|-----------|
|                                 | Labor    | Equipment | Materials | Totals    |
| Grading Costs                   | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost            | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost          | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost         | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost   | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork              | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost               | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost   | \$140    | \$120     | \$0       | \$260     |
|                                 | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                          | \$16,721 | \$47,395  | \$142,942 | \$207,058 |

| Qua | Quarries & Borrow Pits - User Input (cont.) |               |        |              |           |                |              |                      |                        |             |                   |            |                 |            |             |            |
|-----|---|---------------|--------|--------------|-----------|----------------|--------------|----------------------|------------------------|-------------|-------------------|------------|-----------------|------------|-------------|------------|
|     | Excavate or                                 |               |        |              |           |                |              |                      |                        |             |                   |            |                 |            |             |            |
|     | Facility Description                        |               | Hi     | ghwall Berms |           |                | Berm Cor     | nstruction           | Doze                   |             | Hauling (if selec | ted method | 1)              |            | Revegetatio | n          |
|     |   | _             |        | _            | _         |                |              |                      | _                      | _           | Distance          | Slope      |                 |            |             |            |
|     |   | Berm          |        | Berm         | Berm      | Volume         |              |                      | Berm                   | Berm        | to                | to         |                 |            |             |            |
|     | Description                                 | (or Highwall) | Berm   | Base         | Sideslope | (if calculated | Construction | <b>Berm Material</b> | Construction           | Hauling     | Borrow            | Borrow     | Maximum         |            |             |            |
|     | (required)                                  | Length        | Height | Width        | Angle     | elsewhere)     | Method       | Type                 | <b>Equipment Fleet</b> | Fleet       | Source            | Source     | Fleet Size      | Seed Mix   | Mulch       | Fertilizer |
|     |   | ft            | ft     | ft           | _H:1V     | cy             | (select)     | (select)             | (select)               | (select)    | ft                | % grade    | (user override) | (select)   | (select)    | (select)   |
| 1   | Main Quarry                                 | 3,917.0       | 0.0    | 0.0          | 2.0       |                | Haul & Place | Alluvium             | Small                  | Small Truck | 1,379             | -5.0       |                 | User Mix 1 | Straw Mulch | None       |

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
  2. It Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
  3. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table
  Note: Assumes no berm will be required due to regraded 3:1 slopes.



Page 3 of 7 Quarries & Borrow Pits Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

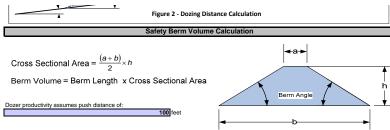
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

| Waste Rock Dumps - Cost Summary |          |           |           |           |
|---------------------------------|----------|-----------|-----------|-----------|
| Waste Nock Bumps - Cost Gummary | Labor    | Equipment | Materials | Totals    |
|                                 |          |           |           |           |
| Grading Costs                   | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost            | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost          | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost         | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost   | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork              | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost               | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost   | \$140    | \$120     | \$0       | \$260     |
|                                 | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                          | \$16,721 | \$47,395  | \$142,942 | \$207,058 |



Dozer:

Length x (Berm Base Width + Dozer Push Distance) - accounts for disturbance created in borrow area

Excavator

Length x (Berm Base Width + (2 x Excavator Track Width) - accounts for disturbance created in borrow area

Haul & Place

Length x Berm Base Width - if necessary use Yards sheet to account for disturbance created in borrow area

Project Name: Foothill Dolomite Mine - Reclamation Plan

Froject Name: Footning Botoning mine Footning State of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data Flie: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Rock Dumps - Cost Summary |          |           |           |           |
|---------------------------------|----------|-----------|-----------|-----------|
|                                 | Labor    | Equipment | Materials | Totals    |
| Grading Costs                   | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost            | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost          | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost         | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost   | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork              | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost               | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost   | \$140    | \$120     | \$0       | \$260     |
|                                 | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                          | \$16,721 | \$47,395  | \$142,942 | \$207,058 |

|   | tuarries & Borrow Pits - Regrading Costs roductivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration) |                           |                                |                 |   |                     |                    |                       |                                   |                                       |                   |                              |                                  |                                  |  |
|---|---|---------------------------|--------------------------------|-----------------|---|---------------------|--------------------|-----------------------|-----------------------------------|---------------------------------------|-------------------|------------------------------|----------------------------------|----------------------------------|--|
|   | Description<br>(required)   | Regrading<br>Volume<br>cy | Dozing Distance<br>(see above) | Regrading Fleet | Uncorrected<br>Dozer<br>Productivity<br>cy/hr | Grade<br>Correction | Dozing<br>Material | Density<br>Correction | Side-by-Side<br>or<br>Slot Dozing | Total Hourly<br>Productivity<br>cy/hr | Total Dozer Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Regrading<br>Cost<br>\$ |  |
| 1 | Main Quarry   | 15,887                    | 50                             | D7R             | 1,076   | 1.6                 | 0.8                | 0.88                  | 1.0                               | 754                                   | 21                | \$723                        | \$1,856                          | \$2,579                          |  |
|   |   | 15,887                    |                                |                 |   |                     |                    |                       |                                   |                                       | 21                | \$723                        | \$1,856                          | \$2,579                          |  |

Page 5 of 7 Quarries & Borrow Pits

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data Flie: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Rock Dumps - Cost Summary |          |           |           |           |
|---------------------------------|----------|-----------|-----------|-----------|
|                                 | Labor    | Equipment | Materials | Totals    |
| Grading Costs                   | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost            | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost          | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost         | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost   | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork              | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost               | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost   | \$140    | \$120     | \$0       | \$260     |
|                                 | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                          | \$16,721 | \$47,395  | \$142,942 | \$207,058 |

| Quar  | rries & Borrow Pits - Cover and Growth Me | dia Costs |  |   |             |        |     |     |     |        |              |                                 |                                  |                      |                              |                                  |                                     |
|---|---|-----------|--|---|-------------|--------|-----|-----|-----|--------|--------------|---------------------------------|----------------------------------|----------------------|------------------------------|----------------------------------|-------------------------------------|
|   |   |           |  | C | over (lower | layer) |     |     |     |        |              |                                 | Growth Med                       | dia Placemer         | nt                           |                                  |                                     |
| Description Cover Cover Replacement Fleet |   |           |  |   |             |        |     |     |     |        |              | Fleet<br>Productivity<br>BCY/hr | Number of<br>Trucks/<br>Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth Media<br>Cost<br>\$ |
| 1   | Main Quarry                               | 0         |  |   |             |        | \$0 | \$0 | \$0 | 36,029 | 725/966G/D7R | 513                             | 3                                | 70                   | \$12,044                     |                                  | \$53,016                            |
|   |   |           |  |   |             |        | \$0 | \$0 | \$0 | 36,029 |              |                                 |                                  | 70                   | \$12,044                     | \$40,972                         | \$53,016                            |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Tole of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data Flie: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Rock Dumps - Cost Summary |          |           |           |           |
|---------------------------------|----------|-----------|-----------|-----------|
|                                 | Labor    | Equipment | Materials | Totals    |
| Grading Costs                   | \$723    | \$1,856   | N/A       | \$2,579   |
| Cover Placement Cost            | \$0      | \$0       | N/A       | \$0       |
| Topsoil Placement Cost          | \$12,044 | \$40,972  | N/A       | \$53,016  |
| Ripping/Scarifying Cost         | \$688    | \$1,767   | N/A       | \$2,455   |
| Safety Berm Construction Cost   | \$0      | \$0       | N/A       | \$0       |
| Subtotal Earthwork              | \$13,455 | \$44,595  | \$0       | \$58,050  |
| Revegetation Cost               | \$3,126  | \$2,680   | \$142,942 | \$148,748 |
| Safety Berm Revegetation Cost   | \$140    | \$120     | \$0       | \$260     |
|                                 | \$3,266  | \$2,800   | \$142,942 | \$149,008 |
| TOTALS                          | \$16,721 | \$47,395  | \$142,942 | \$207.058 |

| Qua | rries & Borrow Pits - Scarifying/Revegetation | on Costs       | , ,,,,,       | , ,                      |                       | •                              |                                 |                                       |   |                                       |   |                                       |         |                                   |                                 |                               |
|-----|---|----------------|---------------|--------------------------|-----------------------|--------------------------------|---------------------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---------|-----------------------------------|---------------------------------|-------------------------------|
|     | Description<br>(required)                     | Slope<br>Area  | Flat<br>Area  | Total<br>Surface<br>Area | Final Slope<br>Length | Flat Area<br>Long<br>Dimension | Ripping/<br>Scarifying<br>Fleet | Slope<br>Scarifying/<br>Ripping Hours | Flat Area<br>Scarifying/<br>Ripping Hours | Scarifying/<br>Ripping Labor<br>Costs | Scarifying/<br>Ripping<br>Equipment<br>Cost | Total<br>Scarifying/<br>Ripping Costs | Labor   | Revegetation<br>Equipment<br>Cost | Revgetation<br>Material<br>Cost | Total<br>Revegetation<br>Cost |
| 1   | Main Quarry                                   | acres<br>12.36 | acres<br>9.97 | acres<br>22.33           | ft<br>64              | ft<br>1,089                    | D7R                             | hrs<br>11                             | hrs<br>9                                  | \$<br>\$688                           | \$<br>\$1,767                               | \$                                    | \$      | \$<br>\$2,680                     | \$<br>\$142,942                 | \$<br>\$148,748               |
|     |   | 12.36          | 9.97          | 22.33                    | Ì                     | •                              | •                               | 11                                    | 9   | \$688                                 | \$1,767                                     | \$2,455                               | \$3,126 | \$2,680                           | \$142,942                       | \$148,748                     |

Notes: 1) Minimum total ripping hours = 1 (i.e. If total ripping hrs (slope + flat) < 1, then one hour of fleet time is assumed, regardless of acres shown in in scarifying table.)

Page 7 of 7 Quarries & Borrow Pits

#### Closure Cost Estimate Foundations & Buildings

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: versio

| dings & Foundation Demolition Cost Summary |       |           |           |         |
|--|-------|-----------|-----------|---------|
|  | Labor | Equipment | Materials | Totals  |
| Building Demolition Cost                   | \$0   | \$0       | N/A       | \$0     |
| Wall Demolition Cost                       | \$0   | \$0       | N/A       | \$0     |
| Slab Demolition                            | \$86  | \$413     | N/A       | \$499   |
| Subtotal Demolition                        | \$86  | \$413     | \$0       | \$499   |
| Cover Placement Cost                       | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost                | \$0   | \$0       | N/A       | \$0     |
| Ripping/Scarifying Cost                    | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks                        | \$34  | \$88      | \$0       | \$122   |
| Revegetation Cost                          | \$140 | \$120     | \$640     | \$900   |
| TOTALS                                     | \$260 | \$621     | \$640     | \$1,521 |

| Buildings & Foundation - User Input    |         |                                  |              |             | You must fill in    | n ALL green cells | and relevant bl                    | ue cells in this s                 | section for each                                       | building or facility   | ,                                   |   |   |                                 |  |   |
|--|---------|----------------------------------|--------------|-------------|---------------------|-------------------|------------------------------------|------------------------------------|--|--|-------------------------------------|---|---|---------------------------------|--|---|
| Facility Description                   |         |                                  |              |             | Physical -          | MANDATORY         |                                    |                                    |  | Fou  | ndation Cove                        | r (1)   | Growth Media (1) (entire footprint)                 |                                 |  |   |
| Description<br>(required)              | ID Code | Туре                             | Length<br>ft | Width<br>ft | Eve<br>Height<br>ft | Slab Thickness    | Foundation Wall<br>Thickness<br>in | Foundation<br>Wall<br>Height<br>ft | Average Flat Area Long Dimension (ripping distance) ft | Footprint<br>(including<br>surrounding<br>facilities)<br>acres | Foundation<br>Cover Thickness<br>in | Distance from<br>Foundation<br>Cover<br>Borrow Area<br>ft | Slope from<br>Facility to<br>Borrow Area<br>% grade | Growth Media<br>Thickness<br>in | Distance from<br>Growth Media<br>Stockpile<br>ft | Slope from<br>Facility to<br>Stockpile<br>% grade |
| 1 Concrete slab ford across the arroyo |         | Other Site Facilities - Sub-Stat | 70           | 16          | 0                   | 8                 | 0                                  | 0                                  | 70   | 0.00   | 0                                   | 1   | 1.0   | 12                              | 35   | 1.0   |

Notes:

1. Foundation cover only calculated to cover slab. Growth media estimated over entire footprint area

2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

NOTE: Arroy'c concrete slab ford crossing will be broken in place and concrete will be removed and disposed off site.

NOTE: All on site facilities will be mobile equipment and only require demobilization.

Page 1 of 6 Foundations & Buildings

#### Closure Cost Estimate Foundations & Buildings

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2020 File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm Model Version: Version 1.4.1

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Buildings & Foundation Demolition Cost Summary |       |           |           |         |
|--|-------|-----------|-----------|---------|
|  | Labor | Equipment | Materials | Totals  |
| Building Demolition Cost                       | \$0   | \$0       | N/A       | \$0     |
| Wall Demolition Cost                           | \$0   | \$0       | N/A       | \$0     |
| Slab Demolition                                | \$86  |           | N/A       | \$499   |
| Subtotal Demolition                            | \$86  | \$413     | \$0       | \$499   |
| Cover Placement Cost                           | \$0   | \$0       |           | \$0     |
| Growth Media Placement Cost                    | \$0   | \$0       |           | \$0     |
| Ripping/Scarifying Cost                        | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks                            | \$34  | \$88      | \$0       | \$122   |
| Revegetation Cost                              | \$140 | \$120     | \$640     | \$900   |
| TOTALS   | \$260 | \$621     | \$640     | \$1,521 |

| Вι | uildings & Foundation - User Input (cont.)  You must fill in ALL green cells and relevant blue cells in this section for each building or facility |                           |                                     |                                 |                                   |                                    |   |  |   |  |  |                      |                   |                        |                           |                           |
|----|--|---------------------------|-------------------------------------|---------------------------------|-----------------------------------|------------------------------------|---|--|---|--|--|----------------------|-------------------|------------------------|---------------------------|---------------------------|
|    | Construction Materials Slab Demolition Foundation Cover Growth Media Revegetation  |                           |                                     |                                 |                                   |                                    |   |  |   |  |  |                      |                   |                        |                           |                           |
|    | Description<br>(required)  | Building Type<br>(select) | Foundation Wall<br>Type<br>(select) | Slab Demo<br>Method<br>(select) | Breaking Equipment Fleet (select) | Cover<br>Material Type<br>(select) | Cover<br>Placement<br>Equipment Fleet<br>(select) | Maximum<br>Fleet Size<br>(user override) | Growth Media<br>Material Type<br>(select) | Growth Media<br>Placement<br>Equipment Fleet<br>(select) | Maximum<br>Fleet Size<br>(user override) | Seed Mix<br>(select) | Mulch<br>(select) | Fertilizer<br>(select) | Scarify/ Rip?<br>(select) | Ripping Fleet<br>(select) |
|    | 1 Concrete slab ford across the arroyo   | Sm. concrete              | Conc 8 in (200 mm) thick            | Break & bury                    | Sm Excavator                      | Alluvium                           | Small Truck                                       |  | Alluvium                                  | Small Truck  |  | User Mix 1           | Straw Mulch       | None                   | Yes                       | Small Dozer               |

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Page 2 of 6 Foundations & Buildings

#### Closure Cost Estimate Foundations & Buildings

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Buildings & Foundation Demolition Cost Summary |       |           |           |         |
|--|-------|-----------|-----------|---------|
|  | Labor | Equipment | Materials | Totals  |
| Building Demolition Cost                       | \$0   | \$0       | N/A       | \$0     |
| Wall Demolition Cost                           | \$0   | \$0       | N/A       | \$0     |
| Slab Demolition                                | \$86  |           |           | \$499   |
| Subtotal Demolition                            | \$86  | \$413     | \$0       | \$499   |
| Cover Placement Cost                           | \$0   | \$0       | N/A       | \$0     |
| Growth Media Placement Cost                    | \$0   | \$0       | N/A       | \$0     |
| Ripping/Scarifying Cost                        | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks                            | \$34  | \$88      | \$0       | \$122   |
| Revegetation Cost                              | \$140 | \$120     | \$640     | \$900   |
| TOTALS   | \$260 | \$621     | \$640     | \$1 521 |

## **Buildings & Foundation - Calculations**

#### **Building Volume Calculations**

Using Means Heavy Construction Cost Data (2004) calculates cubic feet from building dimensions Estimage slab thickness and wall thickness if not known

Assumes that all concrete slabs are reinforced
Productivity for crew from Means Heavy Construction Cost Data (2004) adjusted for supervision

(addressed in Misc. Costs) and Davis-Bacon Wage Rates

Demolition costs do not include hauling or disposing if debris - Use Waste Disposal module

#### Slab Demolition Calculations

Minimum 1 hr excavator time for slab demolition

#### Cover Volume Calculation

Foundation area x cover thickness

If "Bury in Place" is selected as slab demolition method, cover thickness is adjusted such that total cover (cover + growth media) equals value entered in "Minimum thickness of cover over unbroken slab" cell above

#### Ripping/Scarifying Calculations

Flat area width = Final flat area + Average long dimensions
Number of passes = Flat area width + Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time)

## Revegetation

Minimum 1 acre revegetation crew time per area

Page 3 of 6 Foundations & Buildings

# Closure Cost Estimate Foundations & Buildings

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surrety
Cost Basis: American Magnesium - Option 1 Revised

| Buildings & Foundation Demolition Cost Summary |       |           |           |         |
|--|-------|-----------|-----------|---------|
|  | Labor | Equipment | Materials | Totals  |
| Building Demolition Cost                       | \$0   | \$0       | N/A       | \$0     |
| Wall Demolition Cost                           | \$0   | \$0       | N/A       | \$0     |
| Slab Demolition                                | \$86  |           | N/A       | \$499   |
| Subtotal Demolition                            | \$86  | \$413     | \$0       | \$499   |
| Cover Placement Cost                           | \$0   | \$0       |           | \$0     |
| Growth Media Placement Cost                    | \$0   | \$0       |           | \$0     |
| Ripping/Scarifying Cost                        | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks                            | \$34  | \$88      | \$0       | \$122   |
| Revegetation Cost                              | \$140 | \$120     | \$640     | \$900   |
| TOTALS   | \$260 | \$621     | \$640     | \$1,521 |

| Bui                            | ilding & Foundation Demolition Costs Uses RS Means Heavy Construction Cost Data for building and wall demolition cost calculations. Uses CAT Handbook for slab breaking production. |  |                          |                   |                    |                          |                   |                              |                                  |   |                              |                                  |  |                              |                                  |                                   |                              |                                  |                                    |
|--------------------------------|---|--|--------------------------|-------------------|--------------------|--------------------------|-------------------|------------------------------|----------------------------------|---|------------------------------|----------------------------------|--|------------------------------|----------------------------------|-----------------------------------|------------------------------|----------------------------------|------------------------------------|
|                                | Building Demolition Wall Demolition Slab Demolition   |  |                          |                   |                    |                          |                   |                              |                                  |   |                              |                                  |  |                              | Total Costs                      |                                   |                              |                                  |                                    |
|                                | Description<br>(required)   | Building<br>Footprint<br>(slab area)<br>sqft | Building Volume<br>cu ft | Wall Length<br>ft | Wall Area<br>sq ft | Slab Demolition<br>Fleet | Slab Volume<br>cy | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Building<br>Demolition Cost<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Wall Demolition<br>Cost<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Slab<br>Breaking Cost<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Demolition<br>Costs<br>\$ |
| 1                              | Concrete slab ford across the arroyo  | 1,120  | 0                        | 172               | 0                  | 325C                     | 28                | \$0                          | \$                               | 0 \$0                                   | \$0                          | \$0                              | \$0                                    | \$86                         | \$413                            | \$499                             | \$86                         | \$413                            | \$499                              |
| 28 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |   |  |                          |                   |                    |                          |                   |                              |                                  |   | \$86                         | \$413                            | \$499                                  | \$86                         | \$413                            | \$499                             |                              |                                  |                                    |

Page 4 of 6 Foundations & Buildings

# Closure Cost Estimate Foundations & Buildings

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surrety
Cost Basis: American Magnesium - Option 1 Revised

| uildings & Foundation Demolition Cost | Summary                |           |           |         |
|---------------------------------------|------------------------|-----------|-----------|---------|
|                                       | Labor                  | Equipment | Materials | Totals  |
| Building Demolition Cost              | 9                      | 0 \$0     | N/A       | \$0     |
| Wall Demolition Cost                  | S                      | 0 \$0     | N/A       | \$0     |
| Slab Demolition                       | \$8                    |           |           | \$499   |
| S                                     | ubtotal Demolition \$8 | 6 \$413   | \$0       | \$499   |
| Cover Placement Cost                  | 9                      | 0 \$0     | N/A       | \$0     |
| Growth Media Placement Cost           | \$                     | 0 \$0     | N/A       | \$0     |
| Ripping/Scarifying Cost               | \$3                    | 4 \$88    | N/A       | \$122   |
| Si                                    | ubtotal Earthworks \$3 | 4 \$88    | \$0       | \$122   |
| Revegetation Cost                     | \$14                   | 0 \$120   | \$640     | \$900   |
|                                       | TOTALS \$26            | 0 \$621   | \$640     | \$1.521 |

| Building & Foundation - Foundation Cover and   | uilding & Foundation - Foundation Cover and Growth Media Costs |                        |                                 |                               |                      |                              |                                  |                           |                              |                                  |                                 |                                  |                      |                              |                                  |                                     |                              |                                  |             |
|--|--|------------------------|---------------------------------|-------------------------------|----------------------|------------------------------|----------------------------------|---------------------------|------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------|------------------------------|----------------------------------|-------------------------------------|------------------------------|----------------------------------|-------------|
| Foundation Cover Growth Media Total Cover & Grow |  |                        |                                 |                               |                      |                              |                                  |                           |                              |                                  |                                 |                                  |                      |                              |                                  |                                     |                              |                                  |             |
| Description<br>(required)  | Cover Volume   | Cover Repacement Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/ Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Cover<br>Cost<br>\$ | Growth Media<br>Volume<br>cy | Growth Media<br>Repacement Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth Media<br>Cost<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Costs |
| 1 Concrete slab ford across the arroyo   |  |                        |                                 |                               |                      | \$                           | 50 \$                            | \$(                       | 0                            |                                  |                                 |                                  |                      | \$                           | 50 \$                            | \$0                                 | \$0                          | \$0                              | \$0         |
|  |  |                        |                                 |                               |                      | \$                           | \$ 0                             | \$0                       | 0                            |                                  |                                 |                                  |                      | \$                           | 50 \$                            | \$0                                 | \$0                          | \$0                              | \$0         |

# Closure Cost Estimate Foundations & Buildings

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surrety
Cost Basis: American Magnesium - Option 1 Revised

| Buildings & Foundation Demolition Cost Summary |       |           |           |         |
|--|-------|-----------|-----------|---------|
|  | Labor | Equipment | Materials | Totals  |
| Building Demolition Cost                       | \$0   | \$0       | N/A       | \$0     |
| Wall Demolition Cost                           | \$0   | \$0       | N/A       | \$0     |
| Slab Demolition                                | \$86  |           | N/A       | \$499   |
| Subtotal Demolition                            | \$86  | \$413     | \$0       | \$499   |
| Cover Placement Cost                           | \$0   | \$0       |           | \$0     |
| Growth Media Placement Cost                    | \$0   | \$0       |           | \$0     |
| Ripping/Scarifying Cost                        | \$34  | \$88      | N/A       | \$122   |
| Subtotal Earthworks                            | \$34  | \$88      | \$0       | \$122   |
| Revegetation Cost                              | \$140 | \$120     | \$640     | \$900   |
| TOTALS   | \$260 | \$621     | \$640     | \$1,521 |

| В | Building & Foundation - Scarifying/Revegetation Costs |                    |                           |  |  |   |  |                                     |   |                                       |                                  |                              |                                  |                                 |             |
|---|---|--------------------|---------------------------|--|--|---|--|-------------------------------------|---|---------------------------------------|----------------------------------|------------------------------|----------------------------------|---------------------------------|-------------|
|   |   | Sca                | arifying/Rippi            | ng                                     | Revegetation Total Scarify & Re                |   |  | Revegation Costs                    |   |                                       |                                  |                              |                                  |                                 |             |
|   | Description<br>(required)                             | Flat Area<br>acres | Ripping/ Scarifying Fleet | Scarifying/<br>Ripping<br>Hours<br>hrs | Scarifying/<br>Ripping<br>Labor<br>Costs<br>\$ | Scarifying/<br>Ripping<br>Equipment<br>Cost<br>\$ | Total<br>Scarifying/<br>Ripping<br>Costs<br>\$ | Revegetation<br>Labor<br>Cost<br>\$ | Revegetation<br>Equipment<br>Cost<br>\$ | Revgetation<br>Material<br>Cost<br>\$ | Total Revegetation<br>Cost<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Material<br>Cost<br>\$ | Total Costs |
|   | 1 Concrete slab ford across the arroyo                | 0.10               | D7R                       | 1                                      | \$34   | \$88  |  |                                     | \$120                                   | \$640                                 | \$900                            | \$174                        | \$208                            |                                 | \$1,022     |
|   |   | 0.10               |                           | 1                                      | \$34   | \$88  | \$122  | \$140                               | \$120                                   | \$640                                 | \$900                            | \$174                        | \$208                            | \$640                           | \$1,022     |

Page 6 of 6 Foundations & Buildings

# Closure Cost Estimate Other Demo & Equip Removal

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Other Demoltion and Equipment Removal - Cost Summary |         |           |           |          |  |  |  |  |  |  |  |
|--|---------|-----------|-----------|----------|--|--|--|--|--|--|--|
|  | Labor   | Equipment | Materials | Totals   |  |  |  |  |  |  |  |
| Other Demolition                                     | \$0     | \$0       | \$0       | \$0      |  |  |  |  |  |  |  |
| Equipment Removal                                    | \$4,150 | \$7,100   | \$100     | \$11,350 |  |  |  |  |  |  |  |
| TOTALS   | \$4,150 | \$7,100   | \$100     | \$11,350 |  |  |  |  |  |  |  |

| Othe | Other Demolition          |         |      |          |       |                          |                              |                             |                     |  |  |
|------|---------------------------|---------|------|----------|-------|--------------------------|------------------------------|-----------------------------|---------------------|--|--|
|      | Facility Description      |         |      |          |       |                          |                              |                             |                     |  |  |
|      | Description<br>(required) | ID Code | Туре | Quantity | Units | Labor<br>Unit Cost<br>\$ | Equipment<br>Unit Cost<br>\$ | Material<br>Unit Cost<br>\$ | Total<br>Cost<br>\$ |  |  |
|      |                           |         | •    |          |       | \$0                      | \$0                          | \$0                         |                     |  |  |

Notes:

# Closure Cost Estimate Other Demo & Equip Removal

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Other Demoltion and Equipment Removal - Cost Summary |         |           |           |          |  |  |  |  |  |  |  |  |
|--|---------|-----------|-----------|----------|--|--|--|--|--|--|--|--|
|  | Labor   | Equipment | Materials | Totals   |  |  |  |  |  |  |  |  |
| Other Demolition                                     | \$0     | \$0       | \$0       | \$0      |  |  |  |  |  |  |  |  |
| Equipment Removal                                    | \$4,150 | \$7,100   | \$100     | \$11,350 |  |  |  |  |  |  |  |  |
| TOTALS   | \$4,150 | \$7,100   | \$100     | \$11,350 |  |  |  |  |  |  |  |  |

| Equi | Equipment & Material Removal           |         |                                       |          |       |                            |                                |                               |                       |  |  |  |  |
|------|--|---------|---------------------------------------|----------|-------|----------------------------|--------------------------------|-------------------------------|-----------------------|--|--|--|--|
|      | Facility Description                   |         |                                       |          |       |                            |                                |                               |                       |  |  |  |  |
|      | Description<br>(required)              | ID Code | Туре                                  | Quantity | Units | Labor<br>Unit Cost<br>(\$) | Equipment<br>Unit Cost<br>(\$) | Material<br>Unit Cost<br>(\$) | Total<br>Cost<br>(\$) |  |  |  |  |
| 1    | Portable 5000 Gallon Mobile Water Tank |         | Site Facilities - Mobile/Fixed Equips | 1        | 1     | \$1,000.00                 | \$1,000.00                     | \$0.00                        | \$2,000               |  |  |  |  |
| 2    | Portable Office Trailer                |         | Site Facilities - Mobile/Fixed Equips | 1        | 1     | \$1,000.00                 | \$1,000.00                     | \$0.00                        | \$2,000               |  |  |  |  |
| 3    | Mobile Tracked Crusher                 |         | Site Facilities - Mobile/Fixed Equips | 1        | 1     | \$2,000.00                 | \$5,000.00                     |                               |                       |  |  |  |  |
| 4    | Portable Sanitation Facilities         |         | Site Facilities - Mobile/Fixed Equips | 1        | 2     | \$150.00                   | \$100.00                       | \$100.00                      | \$350                 |  |  |  |  |
|      |  |         |                                       |          |       | \$4,150                    | \$7,100                        | \$100                         | \$11,350              |  |  |  |  |

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Notes:

1 of 6

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: version: 1.-...

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| ards, Etc Cost Summary      |         |           |           |          |
|-----------------------------|---------|-----------|-----------|----------|
|                             | Labor   | Equipment | Materials | Totals   |
| Regrading Cost              | \$0     | \$0       | N/A       | \$0      |
| Cover Placement Cost        | \$0     | \$0       | N/A       | \$0      |
| Growth Media Placement Cost | \$963   | \$3,110   | N/A       | \$4,073  |
| Ripping/Scarifying Cost     | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks         | \$1,032 | \$3,287   |           | \$4,319  |
| Revegetation Cost           | \$280   | \$240     | \$12,802  | \$13,322 |
| TOTALS                      | \$1,312 | \$3,527   | \$12,802  | \$17,641 |

| Yar | ds, Etc User Input                |          |                  | You must fill in ALL green cells and relevant blue cells in this section for each building or facility |   |  |                          |  |   |                                    |                               |     |  |
|-----|-----------------------------------|----------|------------------|--|---|--|--------------------------|--|---|------------------------------------|-------------------------------|-----|--|
|     | Facility Description              | Physical |                  |  | Cover   |  |                          | Growth Media                                   |   |                                    |                               |     |  |
|     | Description<br>(required) ID Code |          |                  | Area<br>acres  | Average Flat<br>Area Long<br>Dimension<br>(ripping<br>distance) | Regrade<br>Volume<br>(calculated<br>elsewhere) | Cover<br>Thickness<br>in | Distance<br>from<br>Cover<br>Borrow Area<br>ft | Slope from<br>Facility to<br>Borrow Area<br>% grade | Growth<br>Media<br>Thickness<br>in | Media Growth Media Facility t |     |  |
| 1   | Laydown Yard                      |          | Other Facilities | 2.00   | 400   |  | 0                        | 100  | 1.0   | 12                                 | 100                           | 1.0 |  |

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Yards, Etc.

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |              |           |           |          |
|-----------------------------|--------------|-----------|-----------|----------|
|                             | Labor        | Equipment | Materials | Totals   |
| Regrading Cost              | \$0          | \$0       | N/A       | \$0      |
| Cover Placement Cost        | \$0          | \$0       | N/A       | \$0      |
| Growth Media Placement Cost | \$963        | \$3,110   | N/A       | \$4,073  |
| Ripping/Scarifying Cost     | \$69         | \$177     | N/A       | \$246    |
| Subtotal Earthw             | orks \$1,032 | \$3,287   |           | \$4,319  |
| Revegetation Cost           | \$280        | \$240     | \$12,802  | \$13,322 |
| TOT                         | ALS \$1,312  | \$3,527   | \$12,802  | \$17,641 |

| Ya | Yards, Etc User Input (cont.)  You must fill in ALL green cells and relevant blue cells in this section for each building or facility |  |   |   |                                       |             |  |          |             |  |            |                   |             |                           |                           |
|----|---|--|---|---|---------------------------------------|-------------|--|----------|-------------|--|------------|-------------------|-------------|---------------------------|---------------------------|
|    |   |  | Grading                                   |   |                                       | Cover       |  |          | Growth Medi | а  |            | R                 | evegetation |                           |                           |
|    | Description<br>(required)   | Regrading<br>Material<br>Condition<br>(select) | Regrading<br>Material<br>Type<br>(select) | Regrading<br>Equipment<br>Fleet<br>(select) | Cover<br>Material<br>Type<br>(select) |             | Maximum<br>Fleet Size<br>(user override) |          |             | Maximum<br>Fleet Size<br>(user override) |            | Mulch<br>(select) | (select)    | Scarify/ Rip?<br>(select) | Ripping Fleet<br>(select) |
| 1  | Laydown Yard  | 1  | Alluvium                                  | Small                                       | Alluvium                              | Small Truck |  | Alluvium | Small Truck |  | User Mix 1 | Straw Mulch       | None        | Yes                       | Small Dozer               |

2 of 6

Yards, Etc.

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| ards, Etc Cost Summary      |         |           |           |          |
|-----------------------------|---------|-----------|-----------|----------|
|                             | Labor   | Equipment | Materials | Totals   |
| Regrading Cost              | \$0     | \$0       | N/A       | \$0      |
| Cover Placement Cost        | \$0     | \$0       | N/A       | \$0      |
| Growth Media Placement Cost | \$963   | \$3,110   | N/A       | \$4,073  |
| Ripping/Scarifying Cost     | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks         | \$1,032 | \$3,287   |           | \$4,319  |
| Revegetation Cost           | \$280   | \$240     | \$12,802  | \$13,322 |
| TOTALS                      | \$1,312 | \$3,527   | \$12,802  | \$17,641 |

## Yards, Etc. - Calculations

## Grading Calculations

Average push distance assumed to be 2/3 of the 600 feet maximum from Catepillar Handbook or 400 feet Material assumed to be loose stockile (1.2 productivity factor)

Slope assumed to be 0 to 5% (1.0 productivity factor)

## Cover Volume Calculation

Yard area x cover thickness

## Ripping/Scarifying Calculations

Flat area width = Final flat area ÷ Average long dimensions

Number of passes = Flat area width + Grader width
Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
Minimum 1 hr ripping/scarifying per area

## Revegetation

Minimum 1 acre revegetation crew time per area

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Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |         |           |           |          |
|-----------------------------|---------|-----------|-----------|----------|
|                             | Labor   | Equipment | Materials | Totals   |
| Regrading Cost              | \$0     | \$0       | N/A       | \$0      |
| Cover Placement Cost        | \$0     | \$0       | N/A       | \$0      |
| Growth Media Placement Cost | \$963   | \$3,110   | N/A       | \$4,073  |
| Ripping/Scarifying Cost     | \$69    | \$177     | N/A       | \$246    |
| Subtotal Earthworks         | \$1,032 | \$3,287   |           | \$4,319  |
| Revegetation Cost           | \$280   | \$240     | \$12,802  | \$13,322 |
| TOTALS                      | \$1,312 | \$3,527   | \$12,802  | \$17,641 |

| Yard | Yards, Etc Regrading Costs  |                           |                                |                    |   |                     |                    |                       |                                       |                            |                              |                                  |                                  |
|------|---|---------------------------|--------------------------------|--------------------|---|---------------------|--------------------|-----------------------|---------------------------------------|----------------------------|------------------------------|----------------------------------|----------------------------------|
| Prod | Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) |                           |                                |                    |   |                     |                    |                       |                                       |                            |                              |                                  |                                  |
|      | Description<br>(required)   | Regrading<br>Volume<br>cy | Dozing Distance<br>(see above) | Regrading<br>Fleet | Uncorrected<br>Dozer<br>Productivity<br>cy/hr | Grade<br>Correction | Dozing<br>Material | Density<br>Correction | Total Hourly<br>Productivity<br>cy/hr | Total Dozer<br>Hours<br>hr | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Regrading<br>Cost<br>\$ |
| 1    | Laydown Yard  |                           |                                | D7R                |   |                     |                    |                       |                                       |                            | \$0                          | \$0                              | \$0                              |
|      |   |                           |                                |                    |   |                     |                    |                       |                                       |                            | \$0                          | \$0                              | \$0                              |

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| ards, Etc Cost Summary      |                 |         |           |           |          |
|-----------------------------|-----------------|---------|-----------|-----------|----------|
|                             |                 | Labor   | Equipment | Materials | Totals   |
| Regrading Cost              |                 | \$0     | \$0       | N/A       | \$0      |
| Cover Placement Cost        |                 | \$0     | \$0       | N/A       | \$0      |
| Growth Media Placement Cost |                 | \$963   | \$3,110   | N/A       | \$4,073  |
| Ripping/Scarifying Cost     |                 | \$69    | \$177     | N/A       | \$246    |
| Subto                       | otal Earthworks | \$1,032 | \$3,287   |           | \$4,319  |
| Revegetation Cost           |                 | \$280   | \$240     | \$12,802  | \$13,322 |
|                             | TOTALS          | \$1,312 | \$3,527   | \$12,802  | \$17,641 |

| Yar | Yards, Etc Cover and Growth Media Costs |                       |                             |                                 |                                  |                      |                              |                                  |                           |                              |                       |                                 |                                  |                      |                              |                                  |                                     |
|-----|---|-----------------------|-----------------------------|---------------------------------|----------------------------------|----------------------|------------------------------|----------------------------------|---------------------------|------------------------------|-----------------------|---------------------------------|----------------------------------|----------------------|------------------------------|----------------------------------|-------------------------------------|
|     | Cover Growth Media                      |                       |                             |                                 |                                  |                      |                              |                                  |                           |                              |                       |                                 |                                  |                      |                              |                                  |                                     |
|     | Description<br>(required)               | Cover<br>Volume<br>cy | Topsoil<br>Repacement Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total Cover<br>Cost<br>\$ | Growth Media<br>Volume<br>cy | Growth Media<br>Fleet | Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks/<br>Scrapers | Total Fleet<br>Hours | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Growth Media<br>Cost<br>\$ |
| 1   | Laydown Yard                            |                       |                             |                                 |                                  |                      | \$0                          | \$0                              | \$0                       | 3,227                        | 725/966G/D7R          | 483                             | 2                                | 7                    | \$963                        | \$3,110                          |                                     |
|     |   |                       |                             |                                 |                                  |                      | \$0                          | \$0                              | \$0                       | 3,227                        |                       |                                 |                                  | 7                    | \$963                        | \$3,110                          | \$4,073                             |

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Yards, Etc.

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Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Model Version: Version: 1.4..

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm

Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Yards, Etc Cost Summary     |                     |         |           |           |          |
|-----------------------------|---------------------|---------|-----------|-----------|----------|
|                             |                     | Labor   | Equipment | Materials | Totals   |
| Regrading Cost              |                     | \$0     | \$0       | N/A       | \$0      |
| Cover Placement Cost        |                     | \$0     | \$0       | N/A       | \$0      |
| Growth Media Placement Cost |                     | \$963   | \$3,110   | N/A       | \$4,073  |
| Ripping/Scarifying Cost     |                     | \$69    | \$177     | N/A       | \$246    |
|                             | Subtotal Earthworks | \$1,032 | \$3,287   |           | \$4,319  |
| Revegetation Cost           |                     | \$280   | \$240     | \$12,802  | \$13,322 |
|                             | TOTALS              | \$1,312 | \$3,527   | \$12,802  | \$17,641 |

| Yaı | Yards, Etc Scarifying/Revegetation Costs |                          |                              |                                 |  |  |   |  |                                     |       |                                    |                                     |
|-----|--|--------------------------|------------------------------|---------------------------------|--|--|---|--|-------------------------------------|-------|------------------------------------|-------------------------------------|
|     |  |                          |                              |                                 |  |  |   |  |                                     |       |                                    |                                     |
|     | Description<br>(required)                | Surface<br>Area<br>acres | Area Long<br>Dimension<br>ft | Ripping/<br>Scarifying<br>Fleet | Scarifying/<br>Ripping<br>Hours<br>hrs | Scarifying/<br>Ripping<br>Labor<br>Costs<br>\$ | Scarifying/<br>Ripping<br>Equipment<br>Cost<br>\$ | Total<br>Scarifying/<br>Ripping<br>Costs<br>\$ | Revegetation<br>Labor<br>Cost<br>\$ | \$    | Revgetation<br>Material Cost<br>\$ | Total<br>Revegetation<br>Cost<br>\$ |
| 1   | Laydown Yard                             | 2.00                     | 400                          | D7R                             | 2                                      | \$69   | \$177   | \$246  | \$280                               | \$240 | \$12,802                           |                                     |
|     |  | 2.00                     |                              | ·                               | 2                                      | \$69   | \$177   | \$246  | \$280                               | \$240 | \$12,802                           | \$13,322                            |

Yards, Etc.

# Closure Cost Estimate Waste Disposal

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |  |  |  |  |  |  |  |
|--------------------------------|-------|-----------|------|---------|--|--|--|--|--|--|--|
|                                | Labor | Equipment | Fees | Totals  |  |  |  |  |  |  |  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |  |  |  |  |  |  |  |
| Solid Waste - Off Site         |       |           |      | \$0     |  |  |  |  |  |  |  |
| Hazardous Materials            |       |           |      | \$0     |  |  |  |  |  |  |  |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |  |  |  |  |  |  |  |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |  |  |  |  |  |  |  |

| Waste Disposal - User Input - Solid Waste |  |      |                       |                 |    |                               |                                 |                                  |                               |  |  |
|---|--|------|-----------------------|-----------------|----|-------------------------------|---------------------------------|----------------------------------|-------------------------------|--|--|
|   |  | Land | Dumpster              |                 |    |                               |                                 |                                  |                               |  |  |
|   | Description (required) ID Code Type Method Quanti (select) (select) cy |      |                       |                 |    | Distance<br>to Landfill<br>ft | Slope to<br>Landfill<br>% grade | Number of Trucks (user override) | Months Dumpster Rental months |  |  |
| 1   | Concrete slab ford across the arroyo                                   |      | Waste Mgmt & Disposal | Landfill (bulk) | 28 | 210000                        | 0.0                             | 2                                | 0                             |  |  |
| 2   | Cattle Guard   |      | Waste Mgmt & Disposal | Landfill (bulk) | 2  | 210000                        | 0.0                             | 1                                | 0                             |  |  |
| 3   | 15 cy of Staged Ore  |      | Waste Mgmt & Disposal | Landfill (bulk) | 15 | 210000                        | 0.0                             | 1                                | 0                             |  |  |

#### Notes

1. All Physical parameters must be input even if manual overrides for volume or area are used.

2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Note: SW Solid Waste Authority cost to dispose concrete = \$22.00 per ton. Assumes 56 Tons to dispose of off site.

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Page 1 of 7 Waste Disposal

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |
|--------------------------------|-------|-----------|------|---------|
|                                | Labor | Equipment | Fees | Totals  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |
| Solid Waste - Off Site         |       |           |      | \$0     |
| Hazardous Materials            |       |           |      | \$0     |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |

|   | Waste Disposal - User Input - Hazardous Materials |                           |         |                           |                               |                           |                               |                         |                                    |                                       |  |
|---|---|---------------------------|---------|---------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------|------------------------------------|---------------------------------------|--|
| ŀ |   |                           |         |                           |                               | Vacuum                    |                               |                         | One Way<br>Travel                  | One Way                               |  |
|   |   | Description<br>(required) | ID Code | Waste<br>Type<br>(select) | Container<br>Type<br>(select) | Truck<br>Size<br>(select) | Liquid<br>Quantity<br>gallons | Soild<br>Quantity<br>cy | Distance to<br>Disposal Site<br>mi | Travel Time to<br>Disposal Site<br>hr |  |

Notes:

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Page 2 of 7 Waste Disposal

<sup>1.</sup> Use Other Demo & Equip Removal Sheet for tank removal

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |
|--------------------------------|-------|-----------|------|---------|
|                                | Labor | Equipment | Fees | Totals  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |
| Solid Waste - Off Site         |       |           |      | \$0     |
| Hazardous Materials            |       |           |      | \$0     |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |

| Waste Disposal - User Input - Hydrocarbon Contaminated Soils |             |         |          |          |          |                        |  |  |  |
|--|-------------|---------|----------|----------|----------|------------------------|--|--|--|
|  |             |         |          |          |          | Travel                 |  |  |  |
|  | Description |         | Waste    | Disposal |          | Distance to<br>Offsite |  |  |  |
|  | (required)  | ID Code | Type     | Method   | Quantity | Disposal               |  |  |  |
|  |             |         | (select) | (select) | су       | mi                     |  |  |  |

Notes:

Page 3 of 7 Waste Disposal

<sup>1.</sup> Use Yards or Landfills Sheets for bioremediation facility reclamation

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |
|--------------------------------|-------|-----------|------|---------|
|                                | Labor | Equipment | Fees | Totals  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |
| Solid Waste - Off Site         |       |           |      | \$0     |
| Hazardous Materials            |       |           |      | \$0     |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |

### Waste Disposal - Assumptions & Calculations

### Solid Waste Disposal

Off site disposal assumes use of average rolloff dumpster [30 cy (m3), 10 ton (tonne)]

On site disposal assumes use of small loader/truck fleet for haulage

Average density for on site disposal = 2,600 lb/cy (1,540 kg/m3)

For on site disposal only 1 truck is required unless total truck hours > 8, only 2 trucks unless total truck hours are > 16

### Hazardous Materials Disposal

Assumes all hazardous materials are known

Enter EITHER solid or liquid quantity each line.

If container type = 55 gallon (200 liter) drum then solid waste hauling costs apply

Average density for solids assumed to be 2,600 lb/cy (1,540 kg/m3)

Vacuum truck sizes: small = 2,200 gal (~8,300 litres), large = 5,000 gal (~19,000 litres)

Vacuum truck on site for 4 hours for each load

### Hydrocarbon Contaminated Soils Disposal

Assumes all hazardous materials are known

On site disposal assumes biopad treatment

Exavation productivity =45 cy./hr (35 m3/hr) (Means Heavy Construction, 2006: 02315-424-0360)

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |
|--------------------------------|-------|-----------|------|---------|
|                                | Labor | Equipment | Fees | Totals  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |
| Solid Waste - Off Site         |       |           |      | \$0     |
| Hazardous Materials            |       |           |      | \$0     |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |

| Waste D | Waste Disposal - Solid Waste Disposal |                       |  |                             |   |                     |                         |                                 |                              |                                  |  |  |
|---------|---------------------------------------|-----------------------|--|-----------------------------|---|---------------------|-------------------------|---------------------------------|------------------------------|----------------------------------|--|--|
|         |                                       |                       |  |                             |   |                     |                         |                                 |                              |                                  |  |  |
|         | Description<br>(required)             | Waste<br>Volume<br>cy | Number<br>of Off Site<br>Dumpster<br>Loads | Landfill Fleet<br>Equipment | Landfill<br>Fleet<br>Productivity<br>LCY/hr | Number of<br>Trucks | Total<br>Fleet<br>Hours | Total<br>Dumpster<br>Cost<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Total<br>Waste<br>Disposal<br>Cost<br>\$ |  |
| 1       | Concrete slab ford across the arroyo  | 28                    |  | 725/966G/D7R                | 14  | 2                   | 2                       | \$0                             | \$275                        | \$889                            | \$1,164                                  |  |
|         | Cattle Guard                          | 2                     |  | 725/966G/D7R                | 7   | 1                   | 1                       | \$0                             | \$103                        | \$303                            | \$406                                    |  |
| 3       | 15 cy of Staged Ore                   | 15                    |  | 725/966G/D7R                | 7   | 1                   | 2                       | \$0                             | \$217                        | \$637                            | \$854                                    |  |
|         | _                                     | 45                    |  | •                           |   |                     | 5                       | \$0                             | \$595                        | \$1,829                          | \$2,424                                  |  |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |
|--------------------------------|-------|-----------|------|---------|
|                                | Labor | Equipment | Fees | Totals  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |
| Solid Waste - Off Site         |       |           |      | \$0     |
| Hazardous Materials            |       |           |      | \$0     |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |

| Waste I | Waste Disposal - Hazardous Materials Disposal |                                      |                                |                             |                             |                       |                         |                        |  |
|---------|---|--------------------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------|-------------------------|------------------------|--|
|         | Description<br>(required)                     | Liquid<br>Waste<br>Volume<br>gallons | Solid<br>Waste<br>Volume<br>cy | Number<br>of Truck<br>Loads | Tons<br>of<br>Waste<br>Tons | Pick-up<br>Fees<br>\$ | Transport<br>Fees<br>\$ | Disposal<br>Fees<br>\$ | Total<br>Hazardous<br>Material<br>Cost<br>\$ |
|         |   |                                      |                                |                             |                             | \$0                   | \$0                     | \$0                    | \$0  |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal - Cost Summary  |       |           |      |         |
|--------------------------------|-------|-----------|------|---------|
|                                | Labor | Equipment | Fees | Totals  |
| Solid Waste - On Site          | \$595 | \$1,829   | N/A  | \$2,424 |
| Solid Waste - Off Site         |       |           |      | \$0     |
| Hazardous Materials            |       |           |      | \$0     |
| Hydrocarbon Contaminated Soils | \$0   | \$0       | \$0  | \$0     |
| TOTALS                         | \$595 | \$1,829   | \$0  | \$2,424 |

| Waste I | Waste Disposal - Hydrocarbon Contaminated Soils |                       |                          |                         |                         |                         |                        |                              |                                  |                                 |
|---------|---|-----------------------|--------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------------|----------------------------------|---------------------------------|
|         |   |                       | •                        |                         |                         |                         |                        |                              |                                  | Total                           |
|         | Description<br>(required)                       | <b>Quantity</b><br>cy | Disposal Equipment Fleet | Total<br>Fleet<br>Hours | Treatment<br>Cost<br>\$ | Transport<br>Fees<br>\$ | Disposal<br>Fees<br>\$ | Total<br>Labor<br>Cost<br>\$ | Total<br>Equipment<br>Cost<br>\$ | Waste<br>Disposal<br>Cost<br>\$ |
|         |   |                       |                          |                         | \$0                     | \$0                     | \$0                    | \$0                          | \$0                              | \$0                             |

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Miscellaneous Cost Summary    |               |           |           |          |
|-------------------------------|---------------|-----------|-----------|----------|
|                               | Labor         | Equipment | Materials | Totals   |
| Fence Removal                 | \$11,116      | \$6,198   | N/A       | \$17,314 |
| Fence Installation            | \$0           | \$0       | \$0       | \$0      |
| Culvert & Buried Pipe Removal | \$204         | \$171     | N/A       | \$375    |
| Surface Pipe Removal          | \$0           | \$0       | N/A       | \$0      |
| Power Lines                   | \$0           | N/A       | N/A       | \$0      |
| Substations/Transformers      | \$0           | N/A       | N/A       | \$0      |
| Rip-rap, rock lining, gabions | \$0           | \$0       | \$0       | \$0      |
| Other Costs                   | \$0           | \$0       | \$0       | \$0      |
| TC                            | TALS \$11,320 | \$6,369   | \$0       | \$17,689 |

| Fenc | ence Removal You must fill in ALL green and blue cells |         |        |                    |          |           |          |  |  |
|------|--|---------|--------|--------------------|----------|-----------|----------|--|--|
|      | Costs  |         |        |                    |          |           |          |  |  |
|      | Description  |         |        |                    | Labor    | Equipment | Total    |  |  |
|      | (required)   | ID Code | Length | Type               | Cost     | Cost      | Cost     |  |  |
|      |  |         | ft     | (select type)      | \$       | \$        | \$       |  |  |
| 1    | Main Gate  |         | 400    | Barbed 5-strand I  | \$672    | \$356     | \$1,028  |  |  |
| 2    | Main Quarry Perimeter                                  |         | 3920   | Barbed 5-strand I  | \$6,586  | \$3,489   | \$10,075 |  |  |
| 3    | Laydown Yard   |         | 600    | Chain link 8-10 ft | \$1,002  | \$840     | \$1,842  |  |  |
| 4    | Vegetation Reference Area Perimeter                    |         | 1700   | Barbed 5-strand I  | \$2,856  | \$1,513   | \$4,369  |  |  |
|      |  |         |        |                    | \$11,116 | \$6,198   | \$17,314 |  |  |

Notes: Note: Main gate assumes 200 linear feet of fencing on each side of the main gate.

Note: Main Quarry Perimeter assumes the external perimeter of mining phases will be fenced.

Note: Laydown yard assumes 150 feet by 150 feet.

| Fenc | e Installation            | You must fill in ALL green and blue cells |              |                       |                     |                         |                          |                     |
|------|---------------------------|---|--------------|-----------------------|---------------------|-------------------------|--------------------------|---------------------|
|      |                           |   | Input        |                       | Costs               |                         |                          |                     |
|      | Description<br>(required) | ID Code                                   | Length<br>ft | Type<br>(select type) | Labor<br>Cost<br>\$ | Equipment<br>Cost<br>\$ | Material<br>Cost<br>(\$) | Total<br>Cost<br>\$ |
|      |                           |   |              |                       | \$0                 | \$0                     | \$0                      | \$0                 |

Notes:

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Miscellaneous Cost Summary    |               |           |           |          |
|-------------------------------|---------------|-----------|-----------|----------|
|                               | Labor         | Equipment | Materials | Totals   |
| Fence Removal                 | \$11,116      | \$6,198   | N/A       | \$17,314 |
| Fence Installation            | \$0           | \$0       | \$0       | \$0      |
| Culvert & Buried Pipe Removal | \$204         | \$171     | N/A       | \$375    |
| Surface Pipe Removal          | \$0           | \$0       | N/A       | \$0      |
| Power Lines                   | \$0           | N/A       | N/A       | \$0      |
| Substations/Transformers      | \$0           | N/A       | N/A       | \$0      |
| Rip-rap, rock lining, gabions | \$0           | \$0       | \$0       | \$0      |
| Other Costs                   | \$0           | \$0       | \$0       | \$0      |
| TC                            | TALS \$11,320 | \$6,369   | \$0       | \$17,689 |

| Culv | Culvert & Buried Pipe Removal You must fill in ALL green and blue cells |         |              |                       |                      |                     |                         |                     |
|------|---|---------|--------------|-----------------------|----------------------|---------------------|-------------------------|---------------------|
|      |   |         |              | Costs                 |                      |                     |                         |                     |
|      | Description<br>(required)   | ID Code | Length<br>ft | Type<br>(select type) | Location<br>(select) | Labor<br>Cost<br>\$ | Equipment<br>Cost<br>\$ | Total<br>Cost<br>\$ |
| 1    | Single Culvert Removal #1   |         | 16           | 12 in (300 mm ) D     | On site              | \$68                | \$57                    | \$125               |
|      | Single Culvert Removal #2   |         | 16           | 12 in (300 mm ) D     | On site              | \$68                | \$57                    | \$125               |
| 3    | Single Culvert Removal #3   |         | 16           | 12 in (300 mm ) D     | On site              | \$68                | \$57                    | \$125               |
|      |   |         | <del>-</del> |                       |                      | \$204               | \$171                   | \$375               |

Notes:

| Surfa | ace Pipe Removal          | You must fill in ALL green and blue cells |              |                       |                      |                     |                         |                     |
|-------|---------------------------|---|--------------|-----------------------|----------------------|---------------------|-------------------------|---------------------|
|       |                           |   | Costs        |                       |                      |                     |                         |                     |
|       | Description<br>(required) | ID Code                                   | Length<br>ft | Type<br>(select type) | Location<br>(select) | Labor<br>Cost<br>\$ | Equipment<br>Cost<br>\$ | Total<br>Cost<br>\$ |
|       |                           |   | ·            |                       |                      | \$0                 | \$0                     | \$0                 |

Notes:

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2 of 5 Misc. Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Miscellaneous Cost Summary    |        |          |           |           |          |
|-------------------------------|--------|----------|-----------|-----------|----------|
|                               |        | Labor    | Equipment | Materials | Totals   |
| Fence Removal                 |        | \$11,116 | \$6,198   | N/A       | \$17,314 |
| Fence Installation            |        | \$0      | \$0       | \$0       | \$0      |
| Culvert & Buried Pipe Removal |        | \$204    | \$171     | N/A       | \$375    |
| Surface Pipe Removal          |        | \$0      | \$0       | N/A       | \$0      |
| Power Lines                   |        | \$0      | N/A       | N/A       | \$0      |
| Substations/Transformers      |        | \$0      | N/A       | N/A       | \$0      |
| Rip-rap, rock lining, gabions |        | \$0      | \$0       | \$0       | \$0      |
| Other Costs                   |        | \$0      | \$0       | \$0       | \$0      |
|                               | TOTALS | \$11,320 | \$6,369   | \$0       | \$17,689 |

| Power Line and Substation Removal |             |         |            | You must fill in ALL green and blue cells |             |          |            |            |            |                |           |
|-----------------------------------|-------------|---------|------------|---|-------------|----------|------------|------------|------------|----------------|-----------|
|                                   |             |         | Input      |   |             |          | Costs      |            |            | Cost Breakdown |           |
|                                   | Description |         | Power Line | Power Line                                | Number of   |          | Power Line | Substation |            | Labor          | Equipment |
|                                   | (required)  | ID Code | Length     | Type                                      | Substations | Location | Removal    | Removal    | Total Cost | Cost           | Cost      |
|                                   |             |         | miles      | (select)                                  | #           | (select) | \$         | \$         | \$         | \$             | \$        |
|                                   |             |         |            |   |             |          | \$0        | \$0        | \$0        | \$0            | \$0       |

Notes: If substation owned by operator, use Other Demo & Equipment Removal sheet
User may need to add line items in Foundations & Buildings for substation slab demolition and fence removal
Labor/Equipment costs assume approximately 80% of cost are equipment and 20% are labor related costs

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| Miscellaneous Cost Summary    |          |           |           |          |
|-------------------------------|----------|-----------|-----------|----------|
|                               | Labor    | Equipment | Materials | Totals   |
| Fence Removal                 | \$11,116 | \$6,198   | N/A       | \$17,314 |
| Fence Installation            | \$0      | \$0       | \$0       | \$0      |
| Culvert & Buried Pipe Removal | \$204    | \$171     | N/A       | \$375    |
| Surface Pipe Removal          | \$0      | \$0       | N/A       | \$0      |
| Power Lines                   | \$0      | N/A       | N/A       | \$0      |
| Substations/Transformers      | \$0      | N/A       | N/A       | \$0      |
| Rip-rap, rock lining, gabions | \$0      | \$0       | \$0       | \$0      |
| Other Costs                   | \$0      | \$0       | \$0       | \$0      |
| TOTALS                        | \$11,320 | \$6,369   | \$0       | \$17,689 |

| Rip-Rap & Rock Lining You must fill in ALL |         |      |               | LL green and blue cells |           |          |       |
|--|---------|------|---------------|-------------------------|-----------|----------|-------|
|  | Input   |      | Costs         |                         |           |          |       |
| Description                                |         |      |               | Labor                   | Equipment | Material | Total |
| (required)                                 | ID Code | Area | Type          | Cost                    | Cost      | Cost     | Cost  |
|  |         | S.Y. | (select type) | \$                      | \$        | \$       | \$    |
|  |         |      |               | \$0                     | \$0       | \$0      | \$0   |

Notes:

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Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Miscellaneous Cost Summary    |        |          |           |           |          |
|-------------------------------|--------|----------|-----------|-----------|----------|
|                               |        | Labor    | Equipment | Materials | Totals   |
| Fence Removal                 |        | \$11,116 | \$6,198   | N/A       | \$17,314 |
| Fence Installation            |        | \$0      | \$0       | \$0       | \$0      |
| Culvert & Buried Pipe Removal |        | \$204    | \$171     | N/A       | \$375    |
| Surface Pipe Removal          |        | \$0      | \$0       | N/A       | \$0      |
| Power Lines                   |        | \$0      | N/A       | N/A       | \$0      |
| Substations/Transformers      |        | \$0      | N/A       | N/A       | \$0      |
| Rip-rap, rock lining, gabions |        | \$0      | \$0       | \$0       | \$0      |
| Other Costs                   |        | \$0      | \$0       | \$0       | \$0      |
|                               | TOTALS | \$11,320 | \$6,369   | \$0       | \$17,689 |

Misc. Costs

### **Closure Cost Estimate** Monitoring

1 of 2

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: Flie: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Data Tipe: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Reclamation Monitoring & Maintenance - Cost Summary |          |           |           |         |  |  |  |  |  |  |
|---|----------|-----------|-----------|---------|--|--|--|--|--|--|
|   | Labor    | Equipment | Materials | Totals  |  |  |  |  |  |  |
| Revegetation Maintenance                            | \$1,067  | \$914     | \$1,905   | \$3,886 |  |  |  |  |  |  |
| Erosion Maintenance                                 | \$2,391  | \$7,174   | N/A       | \$9,56  |  |  |  |  |  |  |
| Reclamation Monitoring                              | \$8,910  | \$374     | N/A       | \$9,28  |  |  |  |  |  |  |
| Subtotal Reclamation Monitoring                     | \$12,368 | \$8,462   | \$1,905   | \$22,73 |  |  |  |  |  |  |
| Water Quality Monitoring                            | \$0      | \$0       | \$0       | \$0     |  |  |  |  |  |  |
| TOTAL MONITORING                                    | \$12,368 | \$8,462   | \$1,905   | \$22,73 |  |  |  |  |  |  |

| 101  | TAL WONTORING  | \$12,300                             | \$0,402  | \$1,905                                  | \$22,735          | i                                  |  |   |
|--|--|--------------------------------------|--|--|-------------------|------------------------------------|--|---|
| Reclamation Maintenance                      |  |                                      |  |  |                   |                                    |  |   |
| Description                                  | Total<br>Revegetation<br>Surface Area (1,2)<br>acres | % Area<br>Requiring<br>Reseeding     | Seed Mix<br>(select)                               | Area<br>Requiring<br>Reseeding<br>acres  | Seed<br>\$/acres  | Labor<br>\$/acres                  | Equipment<br>\$/acres                  | Totals<br>\$                                    |
| Revegetation Maintenance                     | 30   | 25%                                  | User Mix 1   | 7.6                                      | \$250.00          | \$140.00                           | \$120.00                               |   |
| Labor<br>Equipment<br>Materials<br>Cost/Acre | t  |                                      |  |  |                   |                                    | Subtotal                               | \$1,067<br>\$914<br>\$1,905<br>\$510<br>\$3,886 |
| <del> </del>                                 |  |                                      |  |  |                   |                                    | Jubiotai                               | Ψ3,000  |
| Notes:                                       | 1) Surface area is I                                 | NOT the same as f                    | rootprint disturbar                                | nce area typically                       | y used for permit | ting purposes.                     |  |   |
|  |  |                                      |  |  |                   |                                    |  |   |
|  |  |                                      |  |  |                   |                                    |  |   |
|  |  |                                      |  |  |                   |                                    |  |   |
|  |  |                                      |  |  |                   |                                    |  |   |
|  | Total<br>Volume<br>Growth Media<br>Cy                | % Volume<br>Requiring<br>Maintenance | Average<br>Growth Media<br>Placement Cost<br>\$/CY | Volume<br>Requiring<br>Replacement<br>cy |                   | Labor<br>(assume: 25%)<br>\$/acres | Equipment<br>(assume: 75%)<br>\$/acres | Total<br>\$                                     |
| Erosion Maintenance                          | 44,289   | 15%                                  | \$1.44   | 6,643                                    |                   | \$2,391.00                         | \$7,174.00                             | \$9,565   |
| Notes:                                       |  |                                      |  |  |                   |                                    |  |   |
|  |  |                                      |  |  |                   |                                    |  |   |

| Reclamation Monitoring                      |                |  |                    |                      |                                     |                                   |
|---|----------------|--|--------------------|----------------------|-------------------------------------|-----------------------------------|
| Description                                 | Hrs/Day        | Days/Year                                  | Number of<br>Years | Rate<br>\$/hr        |                                     |                                   |
| Field Work                                  |                |  |                    |                      |                                     |                                   |
| Field Geologist/Engineer<br>Range Scientist | 8              | 1  | 3                  | \$134.99<br>\$119.42 |                                     | \$3,240<br>\$0                    |
| Reporting                                   |                |  |                    |                      |                                     |                                   |
| Field Geologist/Engineer<br>Range Scientist | 14             | 1  | 3                  | \$134.99<br>\$119.42 | Subtotal                            | \$5,670<br>\$0<br><b>\$8,91</b> 0 |
| Travel                                      |                |  |                    |                      |                                     | 45,51                             |
|   | Hrs/Trip<br>hr | Trips/Year                                 | Years              | Truck Cost<br>\$/hr  |                                     |                                   |
| Travel                                      | 4              | 1  | 3                  | \$31.13              |                                     | \$374                             |
|   |                |  |                    |                      | Subtotal                            | \$374                             |
|   |                |  |                    |                      | <b>Total Reclamation Monitoring</b> | \$9,284                           |
| Notes:                                      |                | er will travel from<br>rs for reporting an |                    | obilization and      | demobilization                      |                                   |

Monitoring

### **Closure Cost Estimate** Monitoring

Project Name: Foothill Dolomite Mine - Reclamation Plan Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Reclamation Monitoring & Maintenance - Cost | Summary  |           |                    |          |
|---|----------|-----------|--------------------|----------|
|   | Labor    | Equipment | Lab &<br>Materials | Totals   |
| Revegetation Maintenance                    | \$1,067  | \$914     | \$1,905            | \$3,886  |
| Erosion Maintenance                         | \$2,391  | \$7,174   | N/A                | \$9,565  |
| Reclamation Monitoring                      | \$8,910  | \$374     | N/A                | \$9,284  |
| Subtotal Reclamation Monitoring             | \$12,368 | \$8,462   | \$1,905            | \$22,735 |
| Water Quality Monitoring                    | \$0      | \$0       | \$0                | \$0      |
| TOTAL MONITORING                            | \$12,368 | \$8,462   | \$1,905            | \$22,735 |

| Water and Rock Sample A | nalysis |             |           |   |                 |            |         |                            |                       |          |               |                |              |            |          |
|-------------------------|---------|-------------|-----------|---|-----------------|------------|---------|----------------------------|-----------------------|----------|---------------|----------------|--------------|------------|----------|
| Description             | Samples | Events/Year | No. Years | First Sample<br>Year<br>closure year<br>(1-100) | No. of Samplers | Days/Event | Hrs/Day | Analysis Cost<br>\$/sample | Supplies<br>\$/sample | Lab Cost | Material Cost | Equipment Cost | Labor Cost   | Cost<br>\$ | Comments |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$U        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               |                |              | \$0        |          |
|                         |         |             |           |   |                 |            |         |                            |                       | \$0.00   | \$0.00        | \$0.00         | \$0.00       |            |          |
|                         |         |             |           |   |                 |            |         |                            |                       |          |               | Subtotal Sa    | mpling Costs | \$0        |          |

2 of 2

Notes: Sampling labor cost = No. Samplers x Years x Events/year x Days/event x Hour/Day x Labor Rate Sampling equipment costs include 1 pickup truck for every two samplers

| mp Costs                |              |                   |                |            |
|-------------------------|--------------|-------------------|----------------|------------|
| Description             | No. of units |                   | Years          | Cost<br>\$ |
|                         |              | Replacement       |                |            |
| ump (purchased)         |              | period (yrs):     |                |            |
|                         |              |                   | Subtotal Field | Work       |
| Description             | Hrs/Event    | Rate              | Cost           |            |
|                         |              | \$/hr             | \$             |            |
|                         |              |                   |                |            |
| ield Geologist/Engineer |              |                   |                |            |
| ield Geologist/Engineer | Su           | ubtotal Reporting |                |            |
|                         | Subtes:      | ubtotal Reporting |                |            |
| * *                     |              | ubtotal Reporting |                |            |
|                         |              | ubtotal Reporting |                |            |
| ield Geologist/Engineer |              | ubtotal Reporting |                |            |
|                         |              | ubtotal Reporting |                |            |

Monitoring

# **Closure Cost Estimate** Constr. Mgmt

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

| Construction Management & Road Maintenance - Cost Summary |          |           |           |          |  |  |  |  |  |
|---|----------|-----------|-----------|----------|--|--|--|--|--|
|   | Labor    | Equipment | Materials | Totals   |  |  |  |  |  |
| Construction Management                                   | \$20,671 | \$2,974   | N/A       | \$23,645 |  |  |  |  |  |
| Construction Support                                      |          | \$428     |           | \$428    |  |  |  |  |  |
| Road Maintenance  | \$6,516  | \$20,282  | \$726     | \$27,524 |  |  |  |  |  |
| TOTAL CONSTRUCTION MANAGEMENT                             | \$27,187 | \$23,684  | \$726     | \$51,597 |  |  |  |  |  |

| Construction Management                        |                 |                        |                          |                             |                            |  |                     |  |  |  |
|--|-----------------|------------------------|--------------------------|-----------------------------|----------------------------|--|---------------------|--|--|--|
| Construction Management Staff                  |                 |                        |                          |                             |                            |  |                     |  |  |  |
| Description                                    | Duration<br>mo. | Hours/<br>Month<br>hr. | Number of<br>Supervisors | Supervisor<br>Rate<br>\$/hr | Labor<br>Cost<br>\$        | Equipment<br>Cost <sup>(1)</sup><br>\$ | Totals<br>\$        |  |  |  |
| Active Reclamation<br>Monitoring & Maintenance | 1<br>36         | 160<br>2               | 1                        | \$89.10<br>\$89.10          | \$14,256<br>\$6,415        | \$2,051<br>\$923                       | \$16,307<br>\$7,338 |  |  |  |
|  |                 |                        |                          | Total Staff                 | \$20,671                   | \$2,974                                | \$23,645            |  |  |  |
| Construction Manageme                          | nt Support      |                        |                          |                             |                            |  |                     |  |  |  |
| Description                                    | Duration<br>mo. | Number of<br>Units     |                          | Rental<br>Rate<br>\$/mo     | Generator<br>Cost<br>\$/mo | Equipment<br>Cost <sup>(1)</sup><br>\$ | Totals<br>\$        |  |  |  |
| Temporary Office Rental<br>Temporary Toilets   | 1               | 2                      |                          | \$214                       |                            | \$0<br>\$428                           | \$0<br>\$428        |  |  |  |
| · ·  | -               | •                      |                          | -                           | Total Support              | \$428                                  | \$428               |  |  |  |

Notes: Office rental assumes only 1 generator required for every 4 trailers

| Total | Construction | Management | \$24,07 | 73 |
|-------|--------------|------------|---------|----|
|       |              |            |         |    |

| Description           | Fleet Size<br>(select) | Number | Duration<br>mo. | Hours/<br>Month<br>hr. | Labor<br>Cost<br>\$ | Equipment<br>Cost<br>\$ | Totals<br>\$ |
|-----------------------|------------------------|--------|-----------------|------------------------|---------------------|-------------------------|--------------|
| Active Reclamation    |                        |        |                 |                        |                     |                         |              |
| Water Truck           | Small                  | 1      | 1               | 80                     | \$2,753             | \$10,546                | \$13,299     |
| Grader                | Small                  | 1      | 1               | 32                     | \$1,188             | \$2,348                 | \$3,536      |
| Monitoring & Maintena | ance                   |        |                 |                        |                     |                         |              |
| Water Truck           | Small                  | 1      | 36              | 1                      | \$1,239             | \$4,746                 | \$5,985      |
| Grader                | Small                  | 1      | 36              | 1                      | \$1,336             | \$2,642                 | \$3,978      |
|                       | Gallons/               | Days/  |                 | Cost/                  |                     |                         |              |
| Description           | Day                    | Month  | Duration        | Gallon                 |                     |                         | Totals       |
|                       |                        |        | mo.             | \$                     |                     |                         | \$           |
| Water Fees            |                        |        |                 |                        |                     |                         |              |
| Water Fees            | 6000                   | 14     | 1               | 0.01                   |                     |                         | \$726        |
|                       |                        |        | Total Pro       | ject Maintenance       | \$6,516             | \$20,282                | \$27,524     |

Notes: 1) Supervisor equipment = pickup truck
Note: Assumes water from City of Demning at \$8.64 per 1,000 gallons.

1 of 1 Constr. Mgmt

### **Closure Cost Estimate Labor Rates**

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Fstimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Cost Estimate Type: Surety | Cost Basis: American Magnesium - Option 1 Revised |
|----------------------------|---|
|                            |   |

| Color Code Key                  |                                    |
|---------------------------------|------------------------------------|
| User Input - Direct Input       | Direct Input                       |
| User Input - Pull Down List     | Pull Down Selection                |
| Program Constant (can override) | Alternate Input                    |
| Program Calculated Value        | Locked Cell - Formula or Reference |

| ZONE ADJUSTMENTS                    |                  |             |  |
|-------------------------------------|------------------|-------------|--|
|                                     | American         |             |  |
|                                     | Magnesium -      |             |  |
| Cost Basis/Project Region           | Option 1 Revised | American Ma | gnesium - Foothill Dolomite Mine - Northern Nevada Equipment |
| Power Equipment Operators           | 0-50 miles       | \$0.00      |  |
| Truck Drivers                       | 0-50 miles       | \$0.00      |  |
| Laborers                            | 0-50 miles       | \$0.00      |  |
| INDIRECT COSTS                      |                  |             |  |
| Unemployment (%)                    | 1.84%            |             |  |
| Retirement/SS/Medicare (%)          | 7.65%            |             |  |
| Workman's Compensation (%)          | 13.30%           |             |  |
| Other Indirects                     |                  |             |  |
| State Payroll Tax (13),(15),(17),(1 |                  |             |  |
|                                     |                  |             |  |
|                                     |                  |             |  |
| Total Other Indirects               | 0.00%            |             |  |

| ## Company  | Labor Group Base Rt (\$\(\frac{1}{3}\) the second of the se | (\$/h)  3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 | Fringe<br>(\$/hr) | Retirement/<br>Medicare<br>(\$/hr)  \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 \$0.52 | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14 | Workman's<br>Compensation<br>(\$/hr)<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73 | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | Total<br>(\$/hr)<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4 |
|---|---|---|---|-------------------|---|--|--|--|--|
| DOB DESCRIPTION   | Base R (\$/hr)  | Adjustment (\$/hr)  3.02 \$0.00 3.02 \$0.00 3.02 \$0.00 0.02 \$0.00 0.02 \$0.00 0.02 \$0.00 0.02 \$0.00 0.02 \$0.00 | Wage<br>(\$/hr)<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52                          | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14                     | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73                               | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00 | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4           |
| Bulldozers  | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3<br>\$3   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00               | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4                     |
| D6R D6R W/Winch D7R D7R D8R D9R D10R D110R D11R Wheeled Dozers 824G 834G 8444 854G Motor Graders 120H 14G/H 16G/H 14G/H 16G/H 24M Track Excavators 312C 320C 325C 330C 345B | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00               | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4                     |
| D6R w/ Winch D7R D8R D9R D10R D11R Wheeled Dozers 824G 834G 8444 854G Motor Graders 120H 14G/H 16G/H 16G/H 24M Track Excavators 312C 320C 325C 330C 345B 345B               | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00               | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02                                 |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4<br>\$34.4                     |
| D7R D8R D9R D10R D11R D11R Wheeled Dozers 824G 834G 844 854G Motor Graders 120H 14G/H 16G/H 24M Track Excavators 312C 320C 329C 330C 345B 365BL                             | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3  | 3.02 \$0.00<br>5.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00                              | 0 \$28.02<br>0 \$28.02<br>0 \$28.02<br>0 \$28.02  |                   | \$0.52<br>\$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00                               | \$34.4<br>\$34.4<br>\$34.4<br>\$34.4                               |
| D8R D9R D10R D10R D11R  Wheeled Dozers  824G 834G 844 854G  Motor Graders  120H 14G/H 14G/H 16G/H 24M Track Excavators  312C 320C 325C 330C 345B 345B                       | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$2   | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00  | \$28.02<br>\$28.02<br>\$28.02   |                   | \$0.52<br>\$0.52<br>\$0.52  | \$2.14<br>\$2.14<br>\$2.14   | \$3.73<br>\$3.73<br>\$3.73   | \$0.00<br>\$0.00<br>\$0.00   | \$34.4<br>\$34.4<br>\$34.4   |
| D9R D10R D11R Wheeled Dozers 824G 834G 844 854G Motor Graders 120H 14G/H 14G/H 14G/H 24M Track Excavators 312C 320C 329C 339C 345B 365BL                                    | \$2<br>\$2<br>\$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3  | 3.02 \$0.00<br>3.02 \$0.00<br>3.02 \$0.00   | \$28.02<br>\$28.02  |                   | \$0.52<br>\$0.52  | \$2.14<br>\$2.14   | \$3.73<br>\$3.73   | \$0.00<br>\$0.00   | \$34.4<br>\$34.4   |
| D10R D11R Wheeled Dozers 824G 834G 844 854G Motor Graders 120H 14G/H 14G/H 16G/H 24M Track Excavators 312C 320C 325C 330C 345B 3658L  | \$2<br>\$2<br>\$2<br>\$3<br>\$3<br>\$3<br>\$3   | 8.02 \$0.00<br>8.02 \$0.00  | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| ## Wheeled Dozers ### ### ### ### ### ### ### ### ### ##  | \$2<br>\$3<br>\$3<br>\$3<br>\$3   | 8.02 \$0.00   |   |                   |   |  |  |  |  |
| 824G<br>834G<br>844<br>854G<br>Motor Graders<br>120H<br>14G/H<br>14G/H<br>16G/H<br>24M<br>Track Excavators<br>312C<br>320C<br>329C<br>329C<br>339C<br>345B                  | \$3<br>\$3  |   |   |                   |   |  |  | ψ0.00  | \$34.4   |
| 834G 844 854G Motor Graders 120H 14G/H 16G/H 24M Track Excavators 312C 326C 326C 330C 345B  | \$3<br>\$3  |   |   |                   |   |  |  |  |  |
| 844 8549  Motor Graders 120H 14G/H 14G/H 24M  Track Excavators 312C 320C 325C 330C 345B 365BL   | \$3<br>\$3  | 200   |   |                   |   |  |  |  |  |
| ## Motor Graders    120H  | \$3<br>\$3  | 000   |   |                   |   |  |  | ļ  |  |
| Motor Graders 120H  | \$3<br>\$3  | 0.001 00.00   |   |                   |   |  |  | -  |  |
| 120H 14G/H 14G/H 16G/H 24M  Track Excavators 312C 320C 325C 330C 345B 365BL   | \$3<br>\$3  | 00 00   |   |                   |   |  |  |  |  |
| 14G/H 16G/H 24M  Track Excavators 312C 320C 325C 330C 345B 365BL  | \$3<br>\$3  | 17.31 \$0.00  | \$30.23   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 16G/H 24M  Track Excavators  312C 320C 325C 330C 345B 365BL   | \$3   |   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 24M Track Excavators 312C 320C 325C 330C 345B 365BL   |   | 0.23 \$0.00   | \$30.23   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 312C<br>320C<br>325C<br>330C<br>345B<br>365BL   | φο  | 0.23 \$0.00   | \$30.23   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.12  |
| 320C<br>325C<br>330C<br>345B<br>365BL   |   |   |   |                   |   |  |  |  |  |
| 325C<br>330C<br>345B<br>365BL   | \$3   |   |   |                   | \$0.56  | \$2.31   | \$4.02   |  | \$37.12  |
| 330C<br>345B<br>365BL   |   | 0.23 \$0.00   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.12  |
| 345B<br>365BL   | \$3   |   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.1   |
| 365BL   |   | 0.23 \$0.00   |   |                   | \$0.56<br>\$0.56  | \$2.31<br>\$2.31   | \$4.02<br>\$4.02   | \$0.00<br>\$0.00   | \$37.1:<br>\$37.1:   |
|   |   | 0.23 \$0.00   |   |                   | \$0.56  | \$2.31   | \$4.02<br>\$4.02   | \$0.00   | \$37.12  |
|   |   | 0.23 \$0.00   |   |                   | \$0.56  | \$2.31   | \$4.02   | \$0.00   | \$37.12  |
| Scrapers  |   |   |   |                   | •   |  |  |  |  |
| 631G  | \$2   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 637G  |   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| Wheeled Loaders   |   |   |   |                   |   |  |  |  |  |
| 924G  |   | 3.02 \$0.00   |   |                   | \$0.52  | \$2.14   | \$3.73   |  | \$34.4   |
| 928G  | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 950G  |   | 3.02 \$0.00   |   |                   | \$0.52  | \$2.14   | \$3.73   |  | \$34.4   |
| 966G  | \$2   | 3.02 \$0.00<br>3.02 \$0.00  |   |                   | \$0.52  | \$2.14<br>\$2.14   | \$3.73<br>\$3.73   | \$0.00<br>\$0.00   | \$34.4°<br>\$34.4°   |
| 972G<br>980G  | \$2   |   |   |                   | \$0.52<br>\$0.52  | \$2.14<br>\$2.14   | \$3.73   | \$0.00   | \$34.4<br>\$34.4   |
| 988G  | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 990   | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 992G  | \$2   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| 994D  | \$2   |   |   |                   | \$0.52  | \$2.14   | \$3.73   |  | \$34.4   |
| L2350   | \$2   | 3.02 \$0.00   | \$28.02   |                   | \$0.52  | \$2.14   | \$3.73   | \$0.00   | \$34.4   |
| Shovels   |   |   | _   |                   |   |  |  |  |  |
| PC2000<br>PC3000  |   |   | -   |                   | -   |  |  | <b></b>  |  |
| PC3000<br>PC4000  |   |   |   |                   |   |  |  | <del>                                     </del>                   |  |
| PC5500  |   |   |   |                   |   |  |  |  |  |
| PC8000  |   |   |   |                   |   |  |  |  |  |
| Hydraulic Hammers   |   |   |   |                   |   |  |  |  |  |
| H-120 (fits 325)  |   |   |   |                   |   |  |  |  |  |
| H-160 (fits 345)  |   |   |   |                   |   |  |  |  |  |
| H-180 (fits 365/385)  |   |   |   |                   |   |  |  |  |  |
| Demolition Shears   |   |   |   |                   |   |  |  |  |  |
| \$340 (fits 322/325/330)  |   |   |   |                   |   |  | <u> </u>   |  |  |
| S365 (fits 330/345)   |   |   |   |                   |   |  |  |  |  |
| S390 (fits 365/385)   |   |   |   |                   |   |  |  |  |  |
| Demolition Grapples   |   |   |   |                   |   |  |  |  |  |
| G315 (fits 322/325)<br>G320 (fits 325/330)  |   |   |   |                   |   |  |  |  |  |
| G320 (fits 325/330)<br>G330 (fits 345/365)  |   |   |   |                   |   |  |  |  |  |

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### **Closure Cost Estimate Labor Rates**

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Color Code Key                  |                                    |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |  |

| ZONE ADJUSTMENTS                    |                  |             |  |
|-------------------------------------|------------------|-------------|--|
|                                     | American         |             |  |
|                                     | Magnesium -      |             |  |
| Cost Basis/Project Region           | Option 1 Revised | American Ma | gnesium - Foothill Dolomite Mine - Northern Nevada Equipment |
| Power Equipment Operators           | 0-50 miles       | \$0.00      |  |
| Truck Drivers                       | 0-50 miles       | \$0.00      |  |
| Laborers                            | 0-50 miles       | \$0.00      |  |
| INDIRECT COSTS                      |                  |             |  |
| Unemployment (%)                    | 1.84%            |             |  |
| Retirement/SS/Medicare (%)          | 7.65%            |             |  |
| Workman's Compensation (%)          | 13.30%           |             |  |
| Other Indirects                     |                  |             |  |
| State Payroll Tax (13),(15),(17),(1 |                  |             |  |
|                                     |                  |             |  |
| ·                                   |                  |             |  |
| Total Other Indirects               | 0.00%            |             |  |

| Total Other Indirects                              | 0.00%                       |                       |                   |                    |                  |                  |                  |                  |                  |                  |
|--|-----------------------------|-----------------------|-------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|  |                             |                       |                   |                    |                  |                  |                  |                  | •                |                  |
| HOURLY LABOR RAT                                   | E TABLE                     |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| Other Equipment                                    |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| 420D 4WD Backhoe                                   |                             | \$28.02               | \$0.00            | \$28.02            |                  | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 428D 4WD Backhoe                                   |                             | \$28.02               | \$0.00            | \$28.02            |                  | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| CS533E Vibratory Roller                            |                             | \$28.02               | \$0.00            | \$28.02            |                  | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| CS633E Vibratory Roller                            |                             | \$28.02               | \$0.00            | \$28.02            |                  | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| CP533E Sheepsfoot Compacto                         | or                          | \$28.02               | \$0.00            | \$28.02            |                  | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| CP633E Sheepsfoot Compacto                         | or                          | \$28.02               | \$0.00            | \$28.02            |                  | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| Light Truck - 1.5 Ton                              |                             | \$0.00                |                   | \$0.00             |                  | \$0.00           | \$0.00           | \$0.00           | \$0.00           | \$0.0            |
| Supervisor's Truck                                 |                             | \$0.00                |                   | \$0.00             |                  | \$0.00           | \$0.00           | \$0.00           | \$0.00           | \$0.0            |
| Flatbed Truck                                      |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| Air Compressor + tools                             |                             | \$27.69               | \$0.00            | \$27.69            |                  | \$0.51           | \$2.12           | \$3.68           | \$0.00           | \$34.0           |
| Welding Equipment                                  |                             | \$27.88               | \$0.00            | \$27.88            |                  | \$0.51           | \$2.13           | \$3.71           | \$0.00           | \$34.23          |
| Heavy Duty Drill Rig                               |                             | \$27.88               | \$0.00            | \$27.88            |                  | \$0.51           | \$2.13           | \$3.71           | \$0.00           | \$34.23          |
| Pump (plugging) Drill Rig                          |                             | \$27.88               | \$0.00            | \$27.88            |                  | \$0.51           | \$2.13           | \$3.71           | \$0.00           | \$34.23          |
| Concrete Pump                                      |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| Gas Engine Vibrator                                |                             | \$14.03               | \$0.00            | \$14.03            |                  | \$0.26           | \$1.07           | \$1.87           | \$0.00           | \$17.23          |
| Generator 5KW                                      |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| HDEP Welder (pipe or liner)                        |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| 5 Ton Crane  |                             | \$27.12               | \$0.00            | \$27.12            |                  | \$0.50           | \$2.07           | \$3.61           | \$0.00           | \$33.30          |
| 20 Ton Crane                                       |                             | \$27.12               | \$0.00            | \$27.12            |                  | \$0.50           | \$2.07           | \$3.61           | \$0.00           | \$33.30          |
| 50 Ton Crane                                       |                             | \$27.12               | \$0.00            | \$27.12            |                  | \$0.50           | \$2.07           | \$3.61           | \$0.00           | \$33.30          |
| 120 Ton Crane                                      |                             | \$27.12               | \$0.00            | \$27.12            |                  | \$0.50           | \$2.07           | \$3.61           | \$0.00           | \$33.30          |
| (1) Equipment Typ<br>(2) Equipment Operator Source | New Mexico Department of    |                       | Public Works Prev | railing Wage Rates | Type H -         |                  |                  |                  |                  |                  |
| (1)  | is: From Deming             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| Truck Drivers (\$/hr) (4                           |                             | 400.00                | 40.00             | 800.00             | 00.00            | 00 FO            | 00.44            | 80.70            | 00.00            | 0044             |
| 725  | ruck Driver > 25 yds        | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 730<br>735   | ruck Driver > 25 yds        | \$28.02<br>\$28.02    | \$0.00<br>\$0.00  | \$28.02<br>\$28.02 | \$0.00<br>\$0.00 | \$0.52<br>\$0.52 | \$2.14<br>\$2.14 | \$3.73<br>\$3.73 | \$0.00<br>\$0.00 | \$34.4°          |
| 740  | ruck Driver > 25 yds        | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52<br>\$0.52 | \$2.14<br>\$2.14 | \$3.73           | \$0.00           | \$34.4<br>\$34.4 |
| 769D   | ruck Driver > 25 yds        | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 773E   | ruck Driver > 25 yds        | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 777D   | and Daines Courts           | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 785C   | ruck Driver > 60 yds        | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 785C   |                             |                       |                   |                    | \$0.00           |                  |                  |                  |                  |                  |
|  |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| 797B   | T 0.500!                    | £00.00                | <b>CO.OO</b>      | £00.00             | \$0.00           | 60.50            | 60.44            | 60.70            | <b>60.00</b>     | <b>CO 4 4</b>    |
| 613E (5,000 gal) Water Wagon                       |                             | \$28.02               | \$0.00            | \$28.02            | \$0.00           | \$0.52<br>\$0.52 | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 621E (8,000 gal) Water Wagon<br>777D Water Truck   | ter Truck > 2,500 gall      | \$28.02               | \$0.00            | \$28.02            | \$0.00<br>\$0.00 | \$0.52           | \$2.14           | \$3.73           | \$0.00           | \$34.4           |
| 785C Water Truck                                   |                             |                       |                   |                    | \$0.00           |                  |                  |                  |                  |                  |
|  | Fruels Driver - 9           | \$24.92               | \$0.00            | \$24.92            |                  | ¢0.46            | \$1.01           | \$3.31           | \$0.00           | \$30.6           |
| Dump Truck (10-12 yd3 )                            | ruck Driver > 8 yds <       | \$24.92               | \$0.00            | \$24.92            | \$0.00           | \$0.46           | \$1.91           | <b>\$3.31</b>    | \$0.00           | \$30.6           |
| NOTES:   |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |
| (4) Truck Driver Source                            | ne: New Mexico Department o | f Workforce Solutions | Public Works Prev | ailing Wage Rates  | Type H -         |                  |                  |                  |                  |                  |
|  |                             |                       |                   |                    |                  |                  |                  |                  |                  |                  |

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2 of 3 Labor Rates

### **Closure Cost Estimate Labor Rates**

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Color Code Key                  |                                    |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|
| User Input - Direct Input       | Direct Input                       |  |  |  |  |
| User Input - Pull Down List     | Pull Down Selection                |  |  |  |  |
| Program Constant (can override) | Alternate Input                    |  |  |  |  |
| Program Calculated Value        | Locked Cell - Formula or Reference |  |  |  |  |

| ZONE ADJUSTMENTS                    |                  |             |  |
|-------------------------------------|------------------|-------------|--|
|                                     | American         |             |  |
|                                     | Magnesium -      |             |  |
| Cost Basis/Project Region           | Option 1 Revised | American Ma | gnesium - Foothill Dolomite Mine - Northern Nevada Equipment |
| Power Equipment Operators           | 0-50 miles       | \$0.00      |  |
| Truck Drivers                       | 0-50 miles       | \$0.00      |  |
| Laborers                            | 0-50 miles       | \$0.00      |  |
| INDIRECT COSTS                      |                  |             |  |
| Unemployment (%)                    | 1.84%            |             |  |
| Retirement/SS/Medicare (%)          | 7.65%            |             |  |
| Workman's Compensation (%)          | 13.30%           |             |  |
| Other Indirects                     |                  |             |  |
| State Payroll Tax (13),(15),(17),(1 |                  |             |  |
|                                     |                  |             |  |
| ·                                   |                  |             |  |
| Total Other Indirects               | 0.00%            |             |  |

| State Payroll Tax (13),(15),(17),(1    | 1  |                          |                    |                     |         |        |          |         |        |         |
|--|--|--------------------------|--------------------|---------------------|---------|--------|----------|---------|--------|---------|
|  |  |                          |                    |                     |         |        |          |         |        |         |
| Total Other Indirects                  | 0.00%  |                          |                    |                     |         |        |          |         |        |         |
| Total Other maneets                    | 0.00 /6  |                          |                    |                     |         |        |          |         |        |         |
| HOURLY LABOR RATE                      | TABLE  |                          |                    |                     |         |        |          |         |        |         |
| Laborers (\$/hr) (6,7)                 |  |                          |                    |                     |         |        |          |         |        |         |
| General Laborer                        | Group 1  | \$23.88                  | \$0.00             | \$23.88             | \$0.00  | \$0.44 | \$1.83   | \$3.18  | \$0.00 | \$29.3  |
| Skilled Laborer                        | Group 4  | \$26.14                  | \$0.00             | \$26.14             | \$0.00  | \$0.48 | \$2.00   | \$3.48  | \$0.00 | \$32.1  |
| Driller's Helper                       | Group 3  | \$26.14                  | \$0.00             | \$26.14             | \$0.00  | \$0.48 | \$2.00   | \$3.48  | \$0.00 | \$32.1  |
| Rodmen (reinforcing concrete)          | Group 1  | \$23.88                  | \$0.00             | \$23.88             | \$0.00  | \$0.44 | \$1.83   | \$3.18  | \$0.00 | \$29.3  |
| Cement finisher                        | Group 3  | \$26.14                  | \$0.00             | \$26.14             | \$0.00  | \$0.48 | \$2.00   | \$3.48  | \$0.00 | \$32.1  |
| Carpenter                              |  | \$36.47                  | \$0.00             | \$36.47             | \$0.00  | \$0.67 | \$2.79   | \$4.85  | \$0.00 | \$44.7  |
| NOTES:                                 |  |                          |                    |                     |         |        |          |         |        |         |
| (6) Laborer Source:                    | New Mexico Department                              |                          |                    |                     |         |        |          |         |        |         |
| (7) Carpenter Source:                  | New Mexico Department                              | of Workforce Solutions I | Public Works Preva | ailing Wage Rates T | ype H - |        |          |         |        |         |
| (8) Zone Basis:                        | From Deming  |                          |                    |                     |         |        |          |         |        |         |
| Project Management ar                  | nd Technical La                                    | abor (\$/hr) (9          | )                  |                     |         |        |          |         |        |         |
| Project Manager                        |  | \$72.56                  |                    | \$72.56             | \$0.00  | \$1.34 | \$5.55   | \$9.65  | \$0.00 | \$89.1  |
| Foreman                                |  | \$67.50                  |                    | \$67.50             | \$0.00  | \$1.24 | \$5.16   | \$8.98  | \$0.00 | \$82.8  |
| Field Geologist/Engineer               |  | \$109.94                 |                    | \$109.94            | \$0.00  | \$2.02 | \$8.41   | \$14.62 | \$0.00 | \$134.9 |
| Field Tech/Sampler                     |  | \$76.11                  |                    | \$76.11             | \$0.00  | \$1.40 | \$5.82   | \$10.12 | \$0.00 | \$93.4  |
| Range Scientist                        |  | \$97.25                  |                    | \$97.25             | \$0.00  | \$1.79 | \$7.44   | \$12.93 | \$0.00 | \$119.4 |
| Senior Planning Engineer               |  |                          |                    |                     | \$0.00  |        |          |         |        |         |
| Project Engineer                       |  |                          |                    |                     | \$0.00  |        |          |         |        |         |
| Mechanic/Fitter                        |  |                          |                    |                     | \$0.00  |        |          |         |        |         |
|  |  |                          |                    |                     | \$0.00  |        |          | ì       |        |         |
|  |  |                          |                    |                     | \$0.00  |        |          |         |        |         |
|  |  |                          |                    |                     | \$0.00  |        |          |         |        |         |
|  |  |                          |                    |                     | \$0.00  |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          |                    |                     |         |        |          |         |        |         |
|  |  |                          | 1                  |                     |         |        | <u> </u> | L.      |        |         |
| NOTES:                                 |  |                          |                    |                     |         |        |          |         |        |         |
| (9) Project Manager:                   | R.S.Means 2020 Q2 (01 3<br>R.S.Means 2020 Q2 (01 3 |                          |                    |                     |         |        |          |         |        |         |
| (9) Foreman Source:                    |  |                          | U&P-10%) Adjuste   | ed for Elko, NV     |         |        |          |         |        |         |
| (9) Techical Labor Source:             | Wood plc 2020 Adjusted f                           | for Zone, rax and Ins.   |                    |                     |         |        |          |         |        |         |
| Other Labor Source:                    |  |                          |                    |                     |         |        |          |         |        |         |
| Other Labor Source:                    |  |                          |                    |                     |         |        |          |         |        |         |
| †Additional User Markups               |  |                          |                    |                     |         |        |          |         |        |         |
| (These are added by the user to the    |  |                          |                    |                     |         |        |          |         |        |         |
| base rate to account for site-specific |  |                          |                    |                     |         |        |          |         |        |         |
| conditions or corporate requirements)  |  |                          |                    |                     |         |        |          |         |        |         |

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# Closure Cost Estimate Equipment Costs

Equipment Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm
Monthly Rental Basis:

160| hrs month

| EQUIPMENT TYPE (1)   | Monthly<br>Owner/Rental<br>Rate | Equipment Hourly<br>Rate | Fuel/Lube/ Wear      | Total Rate         |
|--|---------------------------------|--------------------------|----------------------|--------------------|
| Bulldozers   | rate                            | nate                     | r developer recar    | Total Hate         |
| D6R  | \$7,222.35                      | \$45.14                  | \$50.90              | \$96.0             |
| D6R w/ Winch<br>D7R  | \$7,222.35<br>\$10,466.40       | \$45.14<br>\$65.42       | \$50.90<br>\$22.95   | \$96.0<br>\$88.3   |
| D8R  | \$20,180.00                     | \$126.13                 | \$29.70              | \$155.8            |
| D9R  | \$30,100.00                     | \$188.13                 | \$41.41              | \$229.5            |
| D10R   | \$44,500.00                     | \$278.13                 | \$51.43              | \$329.5            |
| D11R<br>Wheeled Dozers                                     | \$56,234.00                     | \$351.46                 | \$235.44             | \$586.9            |
| 824G   | \$19,849.00                     | \$124.06                 | \$113.00             | \$237.0            |
| 834G   | \$24,929.00                     | \$155.81                 | \$138.70             | \$294.5            |
| 844  | \$33,734.00                     | \$210.84                 | \$184.06             | \$394.9            |
| 854G<br>Motor Graders                                      | \$33,802.00                     | \$211.26                 | \$221.85             | \$433.1            |
| 120H   | \$3,964.95                      | \$24.78                  | \$48.60              | \$73.3             |
| 14G/H  | \$14,790.00                     | \$92.44                  | \$94.28              | \$186.7            |
| 16G/H  | \$18,806.00                     | \$117.54                 | \$129.63             | \$247.1            |
| 24M<br>Frack Excavators                                    | \$20,686.00                     | \$129.29                 | \$158.47             | \$287.7            |
| 312C   | \$5,610.00                      | \$35.06                  | \$7.59               | \$42.6             |
| 320C   | \$7,750.00                      | \$48.44                  | \$15.05              | \$63.4             |
| 325C   | \$10,047.96                     | \$62.80                  | \$18.57              | \$81.3             |
| 330C<br>345B   | \$11,500.00<br>\$16,730.00      | \$71.88<br>\$104.56      | \$23.64<br>\$29.42   | \$95.5<br>\$133.9  |
| 365BL  | \$23,119.00                     | \$144.49                 | \$113.51             | \$258.0            |
| 385BL  | \$28,472.00                     | \$177.95                 | \$134.75             | \$312.7            |
| Scrapers   |                                 |                          |                      |                    |
| 631G<br>637G   | \$27,700.00<br>\$36,819.00      | \$173.13<br>\$230.12     | \$70.61<br>\$200.40  | \$243.7<br>\$430.5 |
| Wheeled Loaders  | \$30,819.00                     | \$230.12                 | \$200.40             | \$430.5            |
| 924G   | \$5,610.00                      | \$35.06                  | \$19.78              | \$54.8             |
| 928G   | \$6,530.00                      | \$40.81                  | \$36.90              | \$77.7             |
| 950G   | \$9,520.00                      | \$59.50                  | \$32.45              | \$91.9             |
| 966G<br>972G   | \$5,856.20<br>\$13,480.00       | \$36.60<br>\$84.25       | \$37.28<br>\$43.86   | \$73.8<br>\$128.1  |
| 980G   | \$15,690.00                     | \$98.06                  | \$61.05              | \$120.1            |
| 988G   | \$19,589.00                     | \$122.43                 | \$151.77             | \$274.2            |
| 990<br>992G  | \$28,299.00                     | \$176.87                 | \$233.36             | \$410.2            |
| 992G<br>994D   | \$47,500.00<br>\$45,175.00      | \$296.88<br>\$282.34     | \$225.73<br>\$350.03 | \$522.6<br>\$632.3 |
| L2350  | \$82,607.00                     | \$516.29                 | \$625.53             | \$1,141.8          |
| Shovels  |                                 |                          |                      |                    |
| PC2000   | \$70,917.00                     |                          | \$278.28             | \$721.5            |
| PC3000<br>PC4000   | \$72,526.00<br>\$74,135.00      | \$453.29<br>\$463.34     | \$345.19<br>\$427.42 | \$798.4<br>\$890.7 |
| PC5500   | \$81,548.00                     | \$509.68                 | \$562.14             | \$1,071.8          |
| PC8000   | \$89,703.00                     | \$560.64                 | \$658.00             | \$1,218.6          |
| Hydraulic Hammers  |                                 |                          |                      |                    |
| H-120 (fits 325)   | \$3,420.00                      | \$21.38                  | \$11.57              | \$32.9<br>\$67.1   |
| H-160 (fits 345)<br>H-180 (fits 365/385)                   | \$7,028.00<br>\$8,168.00        | \$43.93<br>\$51.05       | \$23.24<br>\$24.96   | \$76.0             |
| Demolition Shears  | 44,100.00                       | 4                        | 4-1100               | *****              |
| S340 (fits 322/325/330)                                    | \$3,524.00                      | \$22.03                  | \$20.50              | \$42.5             |
| S365 (fits 330/345)<br>S390 (fits 365/385)                 | \$4,131.00<br>\$6,593.00        | \$25.82<br>\$41.21       | \$25.23<br>\$31.61   | \$51.0<br>\$72.8   |
| Demolition Grapples  | ψ0,333.00                       | \$41.21                  | ψ51.01               | \$12.0             |
| G315 (fits 322/325)  |                                 |                          |                      | \$0.0              |
| G320 (fits 325/330)  |                                 |                          |                      | \$0.0              |
| G330 (fits 345/365)  |                                 |                          |                      | \$0.0              |
| Other Equipment<br>420D 4WD Backhoe                        | \$3,240.00                      | \$20.25                  | \$22.10              | \$42.3             |
| 428D 4WD Backhoe   | \$3,870.00                      | \$24.19                  | \$22.59              | \$46.7             |
| CS533E Vibratory Roller                                    | \$4,402.00                      | \$27.51                  | \$27.54              | \$55.0             |
| CS633E Vibratory Roller                                    | \$4,291.00                      | \$26.82                  | \$31.05              | \$57.8             |
| CP533E Sheepsfoot Compactor<br>CP633E Sheepsfoot Compactor | \$4,085.00<br>\$6,588.00        | \$25.53<br>\$41.18       | \$33.08<br>\$40.18   | \$58.6<br>\$81.3   |
| Light Truck - 1.5 Ton                                      | \$2,184.00                      | \$13.65                  | \$17.48              | \$31.1             |
| Supervisor's Truck   | \$834.00                        | \$5.21                   | \$7.61               | \$12.8             |
| Flatbed Truck  | \$621.00                        | \$3.88                   | \$21.62              | \$25.5             |
| Air Compressor + tools Welding Equipment                   | \$597.00<br>\$405.00            | \$3.73<br>\$2.53         | \$5.57<br>\$6.30     | \$9.3<br>\$8.8     |
| Heavy Duty Drill Rig                                       | \$52,018.00                     |                          | \$314.83             | \$639.9            |
| Pump (plugging) Drill Rig                                  | \$52,018.00                     | \$325.11                 | \$310.45             | \$635.5            |
| Concrete Pump  | \$14,864.20                     | \$92.90                  | \$21.90              | \$114.8            |
| Gas Engine Vibrator<br>Generator 5KW                       | \$357.00<br>\$938.00            | \$2.23<br>\$5.86         | \$3.65<br>\$6.87     | \$5.8<br>\$12.7    |
| HDEP Welder (pipe or liner)                                | \$7,022.96                      | \$3.89<br>\$43.89        | \$4.38               | \$12.7<br>\$48.2   |
| 5 Ton Crane  | \$7,159.50                      | \$44.75                  | \$42.14              | \$86.8             |
| 20 Ton Crane   | \$7,955.00                      | \$49.72                  | \$48.28<br>\$88.82   | \$98.0             |
| 50 Ton Crane<br>120 Ton Crane                              | \$15,154.00<br>\$28,943.00      | \$94.71<br>\$180.89      | \$88.82<br>\$177.03  | \$183.5<br>\$357.9 |
| Trucks   | ,                               | Ţ.22.00                  | Ţ30 <sub>1</sub>     | <b></b>            |
| 725  | \$9,300.06                      | \$58.13                  | \$82.89              | \$141.0            |
| 730  | \$14,640.00                     | \$91.50                  | \$62.31              | \$153.8            |
| 735<br>740   | \$16,730.00<br>\$18,820.00      | \$104.56<br>\$117.63     | \$70.00<br>\$74.01   | \$174.5<br>\$191.6 |
| 769D   | \$10,023.00                     | \$111.03                 | \$23.86              | \$23.8             |
| 773E   | \$18,267.00                     | \$114.17                 | \$160.85             | \$275.0            |
| 777D<br>785C   | \$37,750.00                     | \$235.94<br>\$255.93     | \$325.91<br>\$366.30 | \$561.8<br>\$622.2 |
| 785C<br>793C   | \$40,948.00<br>\$49,547.00      | \$255.93<br>\$309.67     | \$366.30<br>\$470.39 | \$622.2<br>\$780.0 |
| 797B   | \$89,160.00                     | \$557.25                 | \$817.64             | \$1,374.8          |
| 613E (5,000 gal) Water Wagon                               | \$8,726.00                      | \$54.54                  | \$77.29              | \$131.8            |
| 621E (8,000 gal) Water Wagon<br>777D Water Truck           | \$10,006.00<br>\$37,226.00      | \$62.54<br>\$232.66      | \$103.42<br>\$321.40 | \$165.9<br>\$554.0 |
| 785C Water Truck   | \$40,948.00                     | \$232.66<br>\$255.93     | \$321.40<br>\$366.30 | \$554.0<br>\$622.2 |
| Dump Truck (10-12 yd <sup>3</sup> )                        | \$3,752.00                      | \$23.45                  | \$32.89              | \$56.3             |
| NOTES:   |                                 |                          |                      |                    |
|  |                                 |                          |                      |                    |
| (1) Power Equipment Source                                 |                                 | inclose ! -T-            | loodor V             | rolo               |
| (1) Power Equipment Sourc<br>(2) Power Equipment Typ       |                                 |                          | loader, Komatsu sho  | vels               |

# Closure Cost Estimate Equipment Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data: File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm

| ulldozers  DBR  DBR W Winch  DTR  DBR W Winch  DTR  DBR  DBR  DBR  DHR  DHR  Theeled Dozers  224G  834G  8444  854G  Otor Graders  120H  14G/H   | \$34.60<br>\$3.460<br>\$2.69<br>\$3.49<br>\$3.61<br>\$3.79<br>\$160.74<br>\$49.58<br>\$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$55.46 | \$38.56<br>\$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00 | \$2.61<br>\$2.61<br>\$3.84<br>\$4.86<br>\$6.59<br>\$8.22<br>\$16.66<br>\$1.32<br>\$1.32<br>\$2.40 | 6.25<br>6.25<br>7.50<br>9.75<br>14.25<br>18.00<br>26.50<br>10.75<br>12.60 | \$13.69<br>\$13.69<br>\$16.43<br>\$21.35<br>\$31.21<br>\$39.42<br>\$58.04 | \$50.9<br>\$50.9<br>\$22.9<br>\$29.1<br>\$41.4<br>\$51.4 |
|--|---|--|---|---|---|--|
| DBR w/Winch DTR DBR DBR DDR DTOR DTIR DTIR DTIR DTIR STATE OF THE | \$34.00<br>\$2.69<br>\$3.49<br>\$3.61<br>\$3.79<br>\$160.74<br>\$49.58<br>\$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$50.42<br>\$55.46 | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$2.61<br>\$3.84<br>\$4.86<br>\$6.59<br>\$8.22<br>\$16.66<br>\$1.32<br>\$1.70<br>\$2.42<br>\$2.40 | 6.25<br>7.50<br>9.75<br>14.25<br>18.00<br>26.50<br>10.75<br>12.60         | \$13.69<br>\$16.43<br>\$21.35<br>\$31.21<br>\$39.42<br>\$58.04            | \$50.9<br>\$22.9<br>\$29.7<br>\$41.4<br>\$51.4           |
| DBR DBR D10R D11R heeled Dozers 824G 834G 844 844 846 846 846 846 846 846 846 846  | \$2.09<br>\$3.49<br>\$3.61<br>\$3.79<br>\$160.74<br>\$49.58<br>\$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$50.42<br>\$55.66            | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$4.86<br>\$6.59<br>\$8.22<br>\$16.66<br>\$1.32<br>\$1.70<br>\$2.42<br>\$2.40                     | 9.75<br>14.25<br>18.00<br>26.50<br>10.75<br>12.60                         | \$16.43<br>\$21.35<br>\$31.21<br>\$39.42<br>\$58.04                       | \$29.7<br>\$41.4<br>\$51.4                               |
| DBR D10R D11R heeled Dozers 824G 834G 844 854G 60tor Graders 120H 146GH 146GH 24M 24M 2ack Excavators 312C   | \$3.61<br>\$3.79<br>\$160.74<br>\$49.58<br>\$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$50.42<br>\$55.46                                | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$6.59<br>\$8.22<br>\$16.66<br>\$1.32<br>\$1.70<br>\$2.42<br>\$2.40                               | 14.25<br>18.00<br>26.50<br>10.75<br>12.60                                 | \$31.21<br>\$39.42<br>\$58.04<br>\$23.54                                  | \$41.4<br>\$51.4   |
| D10R D11R  | \$3.79<br>\$160.74<br>\$49.58<br>\$59.69<br>\$77.91<br>\$90.20<br>\$23.22<br>\$37.21<br>\$50.42<br>\$55.46  | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$8.22<br>\$16.66<br>\$1.32<br>\$1.70<br>\$2.42<br>\$2.40   | 18.00<br>26.50<br>10.75<br>12.60  | \$39.42<br>\$58.04<br>\$23.54   | \$51.4   |
| Theeled Dozers   | \$160.74<br>\$49.58<br>\$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$50.42   | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$1.32<br>\$1.70<br>\$2.42<br>\$2.40  | 10.75<br>12.60  | \$23.54   | \$235.4  |
| 824G<br>834G<br>854G<br>854G<br>854G<br>120H<br>140GH<br>160GH<br>24M<br>774C<br>874C<br>874C<br>874C<br>874C<br>874C<br>874C<br>874C  | \$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$50.42<br>\$55.46   | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$1.70<br>\$2.42<br>\$2.40  | 12.60   |   |  |
| 834G<br>844<br>854G<br>otor Graders<br>120H<br>146GH<br>16GH<br>24M<br>ack Excavators<br>312C  | \$59.69<br>\$77.91<br>\$90.20<br>\$20.32<br>\$37.21<br>\$50.42<br>\$55.46   | \$49.72<br>\$70.88<br>\$87.64<br>\$18.90<br>\$42.00            | \$1.70<br>\$2.42<br>\$2.40  | 12.60   |   | \$113.0  |
| 854G Otor Graders 120H 14G/H 16G/H 24M rack Excavators   | \$90.20<br>\$20.32<br>\$37.21<br>\$50.42<br>\$55.46   | \$87.64<br>\$18.90<br>\$42.00                                  | \$2.40  | 15.00   | \$27.59   | \$138.7  |
| otor Graders 120H 14G/H 14G/H 14G/H 24M 24M 2ack Excavators  | \$20.32<br>\$37.21<br>\$50.42<br>\$55.46  | \$18.90<br>\$42.00   |   |   | \$32.85   | \$184.0  |
| 120H<br>14G/H<br>16G/H<br>24M<br><b>rack Excavators</b><br>312C  | \$37.21<br>\$50.42<br>\$55.46   | \$42.00  | A0  | 19.00   | \$41.61   | \$221.8  |
| 16G/H<br>24M<br>rack Excavators<br>312C  | \$50.42<br>\$55.46  |  | \$0.62  | 4.00  | \$8.76  | \$48.6   |
| 24M<br>rack Excavators<br>312C   | \$55.46   |  | \$1.38  | 6.25  | \$13.69   | \$94.2   |
| rack Excavators<br>312C  |   | \$66.86  | \$2.00<br>\$2.20  | 7.50<br>15.50   | \$16.43<br>\$33.95  | \$129.6<br>\$158.4                                       |
|  | \$2.14  |  |   |   | ,   |  |
|  |   |  | \$1.33  | 1.88  | \$4.12  | \$7.5  |
| 320C<br>325C   | \$2.38<br>\$2.64  |  | \$1.94<br>\$1.48  | 4.90<br>6.60  | \$10.73<br>\$14.45  | \$15.0<br>\$18.5   |
| 330C   | \$3.01  |  | \$2.67  | 8.20  | \$17.96   | \$23.0   |
| 345B   | \$3.36  |  | \$2.85  | 10.60   | \$23.21   | \$29.  |
| 365BL<br>385BL   | \$80.63<br>\$91.31  |  | \$3.97<br>\$5.11  | 13.20<br>17.50  | \$28.91<br>\$38.33  | \$113.5<br>\$134.7                                       |
| crapers  | ψσ1.31  |  | φυ.11   | 17.50   | ψ.0.33  | ψ134.  |
| 631G   | \$3.22  | \$32.68  | \$1.86  | 15.00   | \$32.85   | \$70.  |
| 637G<br>/heeled Loaders  | \$116.00  | \$30.28  | \$2.11  | 23.75   | \$52.01   | \$200.   |
| 924G   | \$9.33  | \$4.24   | \$0.19  | 2.75  | \$6.02  | \$19.  |
| 928G   | \$16.35   | \$12.28  | \$0.60  | 3.50  | \$7.67  | \$36.  |
| 950G   | \$2.30  | \$20.52  | \$0.87  | 4.00  | \$8.76  | \$32.  |
| 966G<br>972G   | \$2.42<br>\$2.53  | \$21.40<br>\$26.56   | \$0.87<br>\$1.08  | 5.75<br>6.25  | \$12.59<br>\$13.69  | \$37.<br>\$43.   |
| 980G   | \$2.57  | \$40.64  | \$1.41  | 7.50  | \$16.43   | \$61.  |
| 988G   | \$57.81   | \$65.20  | \$2.26  | 12.10   | \$26.50   | \$151.   |
| 990<br>992G  | \$85.58<br>\$11.87  | \$106.84<br>\$130.76   | \$3.71<br>\$32.73   | 17.00<br>23.00  | \$37.23<br>\$50.37  | \$233.<br>\$225.   |
| 994D   | \$122.36  | \$143.84   | \$4.99  | 36.00   | \$78.84   | \$350.   |
| L2350  | \$203.53  | \$268.16   | \$9.30  | 66.00   | \$144.54  | \$625.   |
| hovels<br>PC2000   | \$183.38  |  | \$13.87   | 37.00   | \$81.03   | \$278.   |
| PC3000   | \$218.80  |  | \$16.89   | 50.00   | \$109.50  | \$345.   |
| PC4000   | \$254.21  |  | \$19.91   | 70.00   | \$153.30  | \$427.   |
| PC5500<br>PC8000   | \$279.63<br>\$307.59  |  | \$21.90<br>\$24.09  | 119.00<br>149.00  | \$260.61<br>\$326.31  | \$562.<br>\$658.   |
| ydraulic Hammers   | ψ001.39   |  | \$24.00   | 143.00  | ψ320.31   | ψ030.  |
| H-120 (fits 325)   | N/A   |  | \$11.57   |   |   | \$11.  |
| H-160 (fits 345)   | N/A   |  | \$23.24   |   |   | \$23.  |
| H-180 (fits 365/385)<br>emolition Shears   | N/A   |  | \$24.96   |   |   | \$24.  |
| S340 (fits 322/325/330)  | N/A   |  | \$20.50   |   |   | \$20.  |
| S365 (fits 330/345)  | N/A   |  | \$25.23   |   |   | \$25.  |
| S390 (fits 365/385)<br>emolition Grapples  | N/A   |  | \$31.61   |   |   | \$31.  |
| G315 (fits 322/325)  | N/A   |  |   |   |   | \$0.   |
| G320 (fits 325/330)  | N/A   |  |   |   |   | \$0.   |
| G330 (fits 345/365)<br>ther Equipment  | N/A   |  |   |   |   | \$0.   |
| 420D 4WD Backhoe   | \$11.81   | \$3.18   | \$0.54  | 3.00  | \$6.57  | \$22.  |
| 428D 4WD Backhoe   | \$12.20   | \$3.22   | \$0.60  | 3.00  | \$6.57  | \$22.  |
| CS533E Vibratory Roller<br>CS633E Vibratory Roller   | \$19.33<br>\$20.65  |  |   | 3.75<br>4.75  | \$8.21<br>\$10.40   | \$27.<br>\$31.   |
| CP533E Sheepsfoot Compactor  | \$20.65   |  |   | 3.75  | \$8.21  | \$31.  |
| CP633E Sheepsfoot Compactor  | \$29.78   |  |   | 4.75  | \$10.40   | \$40.  |
| Light Truck - 1.5 Ton  | \$8.67  | \$5.52   |   | 1.50  | \$3.29<br>\$2.19  | \$17.<br>\$7   |
| Supervisor's Truck<br>Flatbed Truck  | \$3.62<br>\$3.85  | \$1.80<br>\$7.48   |   | 4.70  | \$2.19<br>\$10.29   | \$7.<br>\$21.  |
| Air Compressor + tools   | \$3.38  |  | N/A   | 1.00  | \$2.19  | \$5.   |
| Welding Equipment  | \$1.92<br>\$278.95  |  | N/A<br>\$9.60   | 2.00  | \$4.38  | \$6.<br>\$314.   |
| Heavy Duty Drill Rig<br>Pump (plugging) Drill Rig  | \$278.95<br>\$278.95  |  | \$9.60<br>\$9.60  | 12.00   | \$26.28<br>\$21.90  | \$314.<br>\$310.   |
| Concrete Pump  |   |  | N/A   | 10.00   | \$21.90   | \$21.  |
| Gas Engine Vibrator<br>Generator 5KW   | \$1.46<br>\$3.58  |  | N/A<br>N/A  | 1.00<br>1.50  | \$2.19<br>\$3.29  | \$3.<br>\$6.   |
| HDEP Welder (pipe or liner)  | <b>\$3.58</b>   |  | N/A<br>N/A  | 2.00  | \$3.29<br>\$4.38  | \$6.<br>\$4.   |
| 5 Ton Crane  | \$23.22   | \$12.35  |   | 3.00  | \$6.57  | \$42.  |
| 20 Ton Crane<br>50 Ton Crane   | \$25.80<br>\$45.47  | \$13.72<br>\$33.06   |   | 4.00<br>4.70  | \$8.76<br>\$10.29   | \$48.<br>\$88.   |
| 120 Ton Crane  | \$80.14   | \$85.50  |   | 5.20  | \$10.29   | \$177.   |
| rucks  |   |  |   |   |   |  |
| 725  | \$28.22   | \$41.16  | \$3.22  | 4.70  | \$10.29   | \$82.  |
| 730<br>735   | \$2.76<br>\$2.86  | \$44.94<br>\$47.82   | \$3.22<br>\$3.22  | 5.20<br>7.35  | \$11.39<br>\$16.10  | \$62.<br>\$70.   |
| 740  | \$2.97  | \$51.72  | \$3.22  | 7.35  | \$16.10   | \$74.  |
| 769D   |   |  | \$3.60  | 9.25  | \$20.26   | \$23.  |
| 773E<br>777D   | \$47.92<br>\$95.60  | \$83.16<br>\$189.12  | \$4.04<br>\$4.51  | 11.75<br>16.75  | \$25.73<br>\$36.68  | \$160.<br>\$325.   |
| 785C   | \$105.16  | \$208.03   | φ4.51   | 24.25   | \$53.11   | \$366.   |
| 793C   | \$127.24  | \$251.72   |   | 41.75   | \$91.43   | \$470.   |
| 797B<br>613E (5,000 gal) Water Wagon   | \$204.78<br>\$45.31   | \$484.20<br>\$18.84  |   | 58.75<br>6.00   | \$128.66<br>\$13.14   | \$817.<br>\$77.  |
| 621E (8,000 gal) Water Wagon   | \$45.31<br>\$50.66  | \$18.84<br>\$29.22   |   | 10.75   | \$13.14<br>\$23.54  | \$77.<br>\$103.  |
| 777D Water Truck   | \$95.60   | \$189.12   |   | 16.75   | \$36.68   | \$321.   |
| 785C Water Truck   | \$105.16  | \$208.03   | N1/A  | 24.25   | \$53.11<br>\$11.30  | \$366.<br>\$32   |
| Dump Truck (10-12 yd3 ) (5)<br>otes:   | N/A   | \$21.50  | N/A   | 5.20  | \$11.39   | \$32.  |
| (1) PM Source:   |   |  |   |   |   |  |
| (2) Undercarriage Source:  |   |  |   |   |   |  |
| (3) G.E.T. Source:<br>(4) Fuel Use Source:   |   | Edition 35 Ch 20: ~  | r estimated average f   | or smaller vehicles   |   |  |

# Closure Cost Estimate Equipment Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan
Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_Mine\_1\_12 Rev 2.xlsm

| Equipment  | Tire Size                               | # of Tires Per Piece<br>of Equipment | Cost<br>Per Tire                            | Tire Cost <sup>(1)(2)</sup>                  | Life Expectency<br>Hours<br>(Low/Zone A) (3) | Tire Cost per<br>Hour              |
|--|---|--------------------------------------|---|--|--|------------------------------------|
| ulldozers  | Tire Size                               | or Equipment                         | Per Tire                                    | Tire Cost                                    | (Low/Zone A)                                 | Hour                               |
| D6R  |   |                                      | N/A   |  |  |                                    |
| D6R w/ Winch   |   |                                      | N/A   |  |  |                                    |
| D7R<br>D8R   |   |                                      | N/A<br>N/A                                  |  |  |                                    |
| D9R  |   |                                      | N/A<br>N/A                                  |  |  |                                    |
| D10R   |   |                                      | N/A   |  |  |                                    |
| D11R   |   |                                      | N/A   |  |  |                                    |
| /heeled Dozers   |   |                                      |   |  |  |                                    |
| 824G<br>834G   | 29.5R25<br>35/65-R33                    | 4                                    | \$33,740.00<br>\$43,505.00                  | \$134,960.00<br>\$174,020.00                 | 3,500<br>3,500                               | \$38.5<br>\$49.7                   |
| 844  | 45/65-R39                               | 4                                    | \$62,020.00                                 | \$248,080.00                                 | 3,500  | \$70.8                             |
| 854G   | 45/65-R45                               | 4                                    | \$76,685.00                                 | \$306,740.00                                 | 3,500  | \$87.6                             |
| otor Graders   |   |                                      |   |  |  |                                    |
| 120H   | 13PR24<br>20.5R25                       | 6                                    | \$11,025.00                                 | \$66,150.00                                  | 3,500  | \$18.5                             |
| 14G/H<br>16G/H   | 20.5R25<br>23.5R25                      | 6                                    | \$24,500.00<br>\$35,455.00                  | \$147,000.00<br>\$212,730.00                 | 3,500<br>3,500                               | \$42.0<br>\$60.1                   |
| 24M  | 23.5R25                                 | 6                                    | \$39,000.50                                 | \$234,003.00                                 | 3,500  | \$66.                              |
| rack Excavators  |   |                                      |   |  |  |                                    |
| 312C   |   |                                      | N/A   |  |  |                                    |
| 320C   | _                                       |                                      | N/A   |  |  |                                    |
| 325C   | -                                       |                                      | N/A   |  |  |                                    |
| 330C<br>345B   | -                                       |                                      | N/A<br>N/A                                  |  |  |                                    |
| 365BL  | -                                       |                                      | N/A   |  |  |                                    |
| 385BL  |   |                                      | N/A   |  |  |                                    |
| crapers  | 1                                       |                                      |   |  |  |                                    |
| 631G<br>637G   | 37.25R35<br>37.25R35                    | 4                                    | \$32,680.00<br>\$30,280.00                  | \$130,720.00<br>\$121,120.00                 | 4,000<br>4,000                               | \$32.<br>\$30.                     |
| /heeled Loaders  | Sr.ZUNSU                                | -                                    | \$30,200.00                                 | ψ121,120.00                                  | 4,000  | φ30.                               |
| 924G   | 17.5R25                                 | 4                                    | \$4,770.00                                  | \$19,080.00                                  | 4,500  | \$4.                               |
| 928G   | 17.5R25                                 | 4                                    | \$13,815.00                                 | \$55,260.00                                  | 4,500  | \$12.                              |
| 950G   | 26.5R25                                 | 4                                    | \$23,085.00                                 | \$92,340.00                                  | 4,500  | \$20.                              |
| 966G   | 26.5R25                                 | 4                                    | \$24,075.00                                 | \$96,300.00                                  | 4,500  | \$21.                              |
| 972G<br>980G   | 26.5R25<br>29.5R25                      | 4                                    | \$29,880.00<br>\$45,720.00                  | \$119,520.00<br>\$182,880.00                 | 4,500<br>4,500                               | \$26.<br>\$40.                     |
| 988G   | 35/65-33                                | 4                                    | \$73,350.00                                 | \$293,400.00                                 | 4,500  | \$65.                              |
| 990  | 41.25/70-39                             | 4                                    | \$120,195.00                                | \$480,780.00                                 | 4,500  | \$106.                             |
| 992G   | 45/65R45                                | 4                                    | \$147,105.00                                | \$588,420.00                                 | 4,500  | \$130.                             |
| 994D   | 55/85R57                                | 4                                    | \$161,815.50                                | \$647,262.00                                 | 4,500  | \$143.                             |
| L2350  | 55/85R57                                | 4                                    | \$301,680.00                                | \$1,206,720.00                               | 4,500  | \$268.                             |
| hovels<br>PC2000   |   |                                      | N/A   |  |  |                                    |
| PC3000   |   |                                      | N/A   |  |  |                                    |
| PC4000   |   |                                      | N/A   |  |  |                                    |
| PC5500   |   |                                      | N/A   |  |  |                                    |
| PC8000   |   |                                      | N/A   |  |  |                                    |
| ydraulic Hammers<br>H-120 (fits 325)   |   | 1                                    | N/A   |  |  |                                    |
| H-160 (fits 345)   | -                                       |                                      | N/A<br>N/A                                  |  |  |                                    |
| H-180 (fits 365/385)   | -                                       |                                      | N/A   |  |  |                                    |
| emolition Shears   |   |                                      |   |  |  |                                    |
| S340 (fits 322/325/330)  |   |                                      | N/A   |  |  |                                    |
| S365 (fits 330/345)<br>S390 (fits 365/385)   | -                                       |                                      | N/A<br>N/A                                  |  |  |                                    |
| emolition Grapples   |   |                                      | 1471  |  |  |                                    |
| G315 (fits 322/325)  |   |                                      | N/A   |  |  |                                    |
| G320 (fits 325/330)  |   |                                      | N/A   |  |  |                                    |
| G330 (fits 345/365)  |   |                                      | N/A   |  |  |                                    |
| ther Equipment   | 0.40/000040.40 #1 004                   |                                      | 0.4 7770 00                                 | 00 540 00                                    | 0.000  | ***                                |
| 420D 4WD Backhoe<br>428D 4WD Backhoe   | 340/80R18-19.5LR24<br>340/80R18-16.9R28 | 2                                    | \$4,770.00<br>\$4,830.00                    | \$9,540.00<br>\$9,660.00                     | 3,000<br>3,000                               | \$3.<br>\$3.                       |
| CS533E Vibratory Roller  | 340/00K 10-10.9K20                      | - 2                                  | N/A   | \$9,000.00                                   | 3,000  | φ3.                                |
| CS633E Vibratory Roller  |   |                                      | N/A   |  |  |                                    |
| CP533E Sheepsfoot Compactor  |   |                                      | N/A   |  |  |                                    |
| CP633E Sheepsfoot Compactor  |   |                                      | N/A   |  |  |                                    |
| Light Truck - 1.5 Ton<br>Supervisor's Truck  | _                                       | 4                                    | 4140  | \$16,560.00                                  | 3,000  | \$5.                               |
| Supervisors Truck<br>Flatbed Truck   | +                                       | 4<br>22                              | 1350<br>1020                                | \$5,400.00<br>\$22,440.00                    | 3,000  | \$1.<br>\$7.                       |
| Air Compressor + tools   | <u> </u>                                |                                      | N/A   | ,110.00                                      | 2,200  | Ψ1.                                |
| Welding Equipment  |   |                                      | N/A   |  |  |                                    |
| Heavy Duty Drill Rig   |   | 4                                    |   | \$0.00                                       | 3,000  |                                    |
| Pump (plugging) Drill Rig  | +                                       | 4                                    | N/A   | \$0.00                                       | 3,000  |                                    |
| Concrete Pump<br>Gas Engine Vibrator   | +                                       |                                      | N/A<br>N/A                                  |  |  |                                    |
| Generator 5KW  | 1                                       |                                      | N/A   |  |  |                                    |
| HDEP Welder (pipe or liner)  |   |                                      | N/A   |  |  |                                    |
| 5 Ton Crane  | 1                                       | 4                                    | \$9,261.00                                  | \$37,044.00                                  | 3,000  | \$12.                              |
| 20 Ton Crane   | +                                       | 4                                    | \$10,290.00<br>\$16,530.00                  | \$41,160.00                                  | 3,000  | \$13.°<br>\$33.                    |
| 50 Ton Crane<br>120 Ton Crane  | +                                       | 6                                    | \$16,530.00<br>\$42,750.00                  | \$99,180.00<br>\$256,500.00                  | 3,000<br>3,000                               | \$33.<br>\$85.                     |
| rucks  |   |                                      | ,   | ,  | .,   | Ţ30.                               |
| 725  | 23.5R25                                 | 6                                    | \$13,720.00                                 | \$82,320.00                                  | 2,000  | \$41.                              |
| 730  | 23.5R25                                 | 6                                    | \$14,980.00                                 | \$89,880.00                                  | 2,000  | \$44.                              |
| 735  | 26.5R25                                 | 6                                    | \$15,940.00                                 | \$95,640.00                                  | 2,000  | \$47.                              |
| 740<br>769D  | 29.5R25<br>18.00R33                     | 6                                    | \$17,240.00                                 | \$103,440.00<br>\$0.00                       | 2,000<br>6,000                               | \$51.                              |
| 769D<br>773E   | 18.00R33<br>24.00R35                    | 6                                    | \$69,300.00                                 | \$415,800.00                                 | 5,000  | \$83.                              |
| 777D   | 27.00R49                                | 6                                    | \$157,600.00                                | \$945,600.00                                 | 5,000  | \$189.                             |
| 785C   | 33.00R51                                | 6                                    | \$138,688.00                                | \$832,128.00                                 | 4,000  | \$208.                             |
|  | 40.00R57                                | 6                                    | \$167,812.48                                | \$1,006,874.88                               | 4,000  | \$251.                             |
| 793C   | 40.00R57                                | 6                                    | \$322,800.00                                | \$1,936,800.00                               | 4,000  | \$484.                             |
| 797B   | 00 5005                                 |                                      | \$18,840.00                                 | \$113,040.00                                 | 6,000  | \$18.                              |
| 797B<br>613E (5,000 gal) Water Wagon   | 23.5R25                                 | 6                                    |   | \$222 760 00                                 | 8 000  |                                    |
| 797B<br>613E (5,000 gal) Water Wagon<br>621E (8,000 gal) Water Wagon   | 33.25R29                                | 6                                    | \$38,960.00                                 | \$233,760.00<br>\$945,600.00                 | 8,000<br>5,000                               |                                    |
| 797B<br>613E (5,000 gal) Water Wagon   |   |                                      |   | \$233,760.00<br>\$945,600.00<br>\$832,128.00 | 8,000<br>5,000<br>4,000                      | \$189.                             |
| 797B<br>613E (5,000 gal) Water Wagon<br>621E (8,000 gal) Water Wagon<br>777D Water Truck<br>785C Water Truck<br>Dump Truck (10-12 yd3) | 33.25R29<br>27.00R49                    | 6                                    | \$38,960.00<br>\$157,600.00                 | \$945,600.00                                 | 5,000  | \$29.<br>\$189.<br>\$208.<br>\$21. |
| 797B<br>613E (5,000 gal) Water Wagon<br>621E (8,000 gal) Water Wagon<br>777D Water Truck<br>785C Water Truck                           | 33.25R29<br>27.00R49<br>33.00R51        | 6<br>6<br>6                          | \$38,960.00<br>\$157,600.00<br>\$138,688.00 | \$945,600.00<br>\$832,128.00                 | 5,000<br>4,000                               | \$189.<br>\$208.                   |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Revegetation Materials                            |                       |          |                         |
|---|-----------------------|----------|-------------------------|
|   | Seed Mixes            |          |                         |
| Seed Mix  | Descrip               | otion    | Cost/Acre               |
|   |                       |          |                         |
| None  |                       |          |                         |
| Mix 1   | Basins                |          | \$302.50                |
| Mix 2   | Low Hills             |          | \$332.75                |
| Mix 3   | Uplands               |          | \$363.00                |
| Mix 4   | Riparian or Custom    |          | \$393.25                |
| User Mix 1  | Site Specific Seed Mi | ix       | \$250.00                |
| User Mix 2  |                       |          |                         |
| User Mix 3  |                       |          |                         |
| User Mix 4  | Cost/lb               | Ibo/Aoro | Cost/Acre               |
|   |                       | lbs/Acre |                         |
| User Mix 5 (from Seed Mix sheet)                  | \$0.00                | \$9.18   | \$0.00                  |
| Notes:  |                       |          |                         |
|   |                       |          |                         |
|   |                       |          |                         |
|   |                       |          |                         |
|   |                       |          |                         |
|   | Mulch                 |          |                         |
| Item  | Mulch<br>Cost/lb      | lbs/Acre | Cost/Acre               |
| Item  |                       | lbs/Acre | Cost/Acre               |
| <b>Item</b><br>None                               |                       | lbs/Acre | Cost/Acre               |
| None<br>Straw Mulch                               | Cost/lb \$0.17        | Ibs/Acre | Cost/Acre<br>\$6,150.83 |
| None<br>Straw Mulch<br>Hydro Mulch                | Cost/lb               |          |                         |
| None<br>Straw Mulch                               | Cost/lb \$0.17        |          |                         |
| None<br>Straw Mulch<br>Hydro Mulch                | Cost/lb \$0.17        |          |                         |
| None<br>Straw Mulch<br>Hydro Mulch                | Cost/lb \$0.17        |          |                         |
| None<br>Straw Mulch<br>Hydro Mulch                | Cost/lb \$0.17        |          |                         |
| None<br>Straw Mulch<br>Hydro Mulch                | Cost/lb \$0.17        |          |                         |
| None<br>Straw Mulch<br>Hydro Mulch<br>imber Mulch | \$0.17<br>\$0.25      |          |                         |
| None<br>Straw Mulch<br>Hydro Mulch                | \$0.17<br>\$0.25      | 36300    | \$6,150.83              |
| None<br>Straw Mulch<br>Hydro Mulch<br>imber Mulch | \$0.17<br>\$0.25      | 36300    | \$6,150.83              |
| None<br>Straw Mulch<br>Hydro Mulch<br>ïmber Mulch | \$0.17<br>\$0.25      | 36300    | \$6,150.83              |
| None<br>Straw Mulch<br>Hydro Mulch<br>imber Mulch | \$0.17<br>\$0.25      | 36300    | \$6,150.83              |

1 of 5

Material Costs

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

**Model Version: Version 1.4.1** 

**Cost Data: User Data** 

| Amendments         |                       |   |  |  |  |  |  |
|--------------------|-----------------------|---|--|--|--|--|--|
| Cost/lb            | lbs/Acre              | Cost/Acre   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
| \$0.70             |                       | \$0.00  |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
| \$0.59             |                       | \$0.00  |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
| Western Nevada Sur | ply \$29.34 per 50 lb | bag 15-15-15 (June 20   |  |  |  |  |  |
|                    | 1,7.                  | ,   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    |                       |   |  |  |  |  |  |
|                    | \$0.70<br>\$0.59      | Amendments  Cost/lb Ibs/Acre  \$0.70  \$0.59  Western Nevada Supply \$29.34 per 50 lb |  |  |  |  |  |

**Project Name: Foothill Dolomite Mine - Reclamation Plan** 

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Well Abandonment Materials  |               |       |            |  |  |  |  |  |
|-----------------------------|---------------|-------|------------|--|--|--|--|--|
| Description                 | Cost/50lb bag | Units | Cost/unit* |  |  |  |  |  |
| Cement                      | \$7.57        | су    | \$36.07    |  |  |  |  |  |
| Grout (Low Grade Bentonite) | \$8.85        | су    | \$42.14    |  |  |  |  |  |
| Inert Material/Cuttings     |               | су    |            |  |  |  |  |  |
|                             |               | су    |            |  |  |  |  |  |
|                             |               | су    |            |  |  |  |  |  |

(1) Jentech Drilling Supply quote (June 2020) Type I,II Cement at \$14.24 per 94 lb. bag

(2) Jentech Drilling Supply (June 2020) 3/8 in. Chunk Bentonite Hole Plug at \$8.85 per 50 lb. bag (5.75 cf/bag at 4

Assumes 1 bag mixes with water to make 0.21 y3 or 0.16 m3 of grout/cement slurry.

| Monitoring Costs  |                      |            |
|---|----------------------|------------|
| Description   | Units                | Cost/unit  |
|   |                      |            |
| Monitor Well Pump   | ea.                  | \$2,788.41 |
| Sampling Supplies   | ea.                  | \$6.51     |
| Water Analysis (Profile I) (1)                                  | ea.                  | \$411.00   |
| Leach Test (MWMP) w/ analysis                                   | ea.                  | \$483.40   |
| ABA + S speciation  | ea.                  | \$150.00   |
| WAD Cyanide in water  | ea.                  | \$56.00    |
| Water Analysis (Profile II) (1)                                 | ea.                  | \$461.00   |
| Trater / trialyele (Freine II) (1)                              | ea.                  | ψ101.00    |
|   | ea.                  |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
|   |                      |            |
| (4) MET Lab Daga Navada (1-1-)                                  | 0000)                |            |
| (1) WET Lab, Reno, Nevada (July Well pump and Sample supply cos |                      |            |
| Original source unknown.  | is aujusieu io 2020. |            |
| Oliginal Source uliknown.                                       |                      |            |
|   |                      |            |
|   |                      |            |

**Project Name: Foothill Dolomite Mine - Reclamation Plan** 

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

**Cost Data: User Data** 

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm **Cost Estimate Type: Surety** Cost Basis: American Magnesium - Option 1 Revised

| Fuel, Etc.                           |                       |                          |
|--------------------------------------|-----------------------|--------------------------|
| Description                          | Units                 | Cost/unit                |
|                                      |                       |                          |
| Off-road Diesel - delivered (1)      | \$/gal                | \$2.190                  |
| Pickup Truck Mileage                 | \$/mi                 | \$0.575                  |
| Electical Power                      | \$/kWh                | \$0.079                  |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
|                                      |                       |                          |
| (1) Source: Oil Price Infomration Se | ervice, average annua | al cost including freigh |

nt to Nevada (July 2020).

Source: Federal Government Vehicle Allowance Rate 2020 Source: NV Energy (July 2020) \$0.07872

4 of 5 Material Costs

| Revegetation Method        |                         |                           |                        |                    |
|----------------------------|-------------------------|---------------------------|------------------------|--------------------|
|                            | Slopes                  |                           |                        |                    |
| Disturbance Type           | Seed Application Method | <b>Labor</b><br>Cost/Acre | Equipment<br>Cost/Acre | Total<br>Cost/Acre |
| Waste Rock Dumps           | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Heap Leach                 | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Tailings                   | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Quarries & Borrow Pits     | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
|                            | Flat Areas and Und      | ifferentiated             |                        |                    |
| Disturbance Type           | Seed Application Method | <b>Labor</b><br>Cost/Acre | Equipment<br>Cost/Acre | Total<br>Cost/Acre |
| Exploration Trenches       | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Exploration Roads          | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Waste Rock Dumps           | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Heap Leach                 | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Tailings                   | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Quarries & Borrow Pits     | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Roads                      | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Pits                       | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Haul Material              | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Foundations & Buildings    | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Sediment & Drainge Control | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Process Ponds              | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Landfills                  | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Yards, Etc.                | Drill                   | \$140.00                  | \$120.00               | \$260.0            |
| Revegetation Maintenance   | Drill                   | \$140.00                  | \$120.00               | \$260.0            |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Revegetation  |                        |             |            |                 |                      |           |          |           |          |       |
|---|------------------------|-------------|------------|-----------------|----------------------|-----------|----------|-----------|----------|-------|
|   | Means Number           | Unit        | Crew       | Daily<br>Output | Daily Output<br>User | Materials | Labor    | Equipment | Total    | Notes |
| Seeding - Broadcast Hand (1)                        |                        | acres       |            |                 |                      |           | \$140.00 |           | \$190.00 |       |
| Seeding - Broadcast Mechanical (1)                  |                        | acres       |            |                 |                      |           | \$140.00 | \$50.00   | \$190.00 |       |
| Seeding - Drill (1)                                 |                        | acres       |            | 365             |                      |           | \$140.00 | \$120.00  | \$260.00 |       |
| Seeding - Hydroseeding (1)                          |                        |             |            | 365             |                      |           | \$250.00 | \$150.00  | \$400.00 |       |
| Shrub Planting - bare root 6-10 in (150- 250mm) (2) | 02910-400-0561         | ea.         | 1 Clab     | 365             |                      |           |          |           | \$0.00   |       |
| Tree Planting - bare root 11-16 in (270- 400mm) (3) | 02910-400-0562         | ea.         | 1 Clab     | 260             |                      |           |          |           | \$0.00   |       |
| Cactus Planting (4)                                 |                        | ea.         | 1 Clab     |                 |                      |           |          |           | \$0.00   |       |
| NOTES:  |                        |             |            |                 |                      |           |          |           |          |       |
| (1) Seeding Source:                                 | Source: Kelley Erosion | Control (Ju | ıly 2020). |                 |                      |           |          |           |          |       |
| (2) Shrub Source:                                   |                        |             |            |                 |                      |           |          |           |          |       |
| (3) Tree Source:                                    |                        |             |            |                 |                      |           |          |           |          |       |
| (4) Cactus Source:                                  |                        |             |            |                 | •                    |           |          | •         |          |       |

### **Building and Wall Demolition**

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data . All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

|                            | Means Number   | Unit | Crew   | Daily<br>Output | Daily Output<br>User | Labor   | Equipment | Premium | Total   | Notes |
|----------------------------|----------------|------|--------|-----------------|----------------------|---------|-----------|---------|---------|-------|
| Building Demolition        |                |      |        |                 |                      |         |           |         |         |       |
| Lg. steel                  | 02220-110-0012 | C.F. | B-8    | 21500           |                      | \$0.10  | \$0.11    |         | \$0.21  |       |
| Lg. concrete               | 02220-110-0050 | C.F. | B-8    | 15300           |                      | \$0.14  | \$0.15    |         | \$0.29  |       |
| Lg. masonry                | 02220-110-0080 | C.F. | B-8    | 20100           |                      | \$0.11  | \$0.11    |         | \$0.22  |       |
| Lg. mixed                  | 02220-110-0100 | C.F. | B-8    | 20100           |                      | \$0.11  | \$0.11    |         | \$0.22  |       |
| Sm. steel                  | 02220-110-0500 | C.F. | B-3    | 14800           |                      | \$0.13  | \$0.10    |         | \$0.23  |       |
| Sm. concrete               | 02220-110-0600 | C.F. | B-3    | 11300           |                      | \$0.17  | \$0.13    |         | \$0.30  |       |
| Sm. masonry                | 02220-110-0650 | C.F. | B-3    | 14800           |                      | \$0.13  | \$0.10    |         | \$0.23  |       |
| Sm. wood                   | 02220-110-0700 | C.F. | B-3    | 14800           |                      | \$0.13  | \$0.10    |         | \$0.23  |       |
|                            |                |      |        |                 |                      |         |           |         |         |       |
| Wall Demolition            |                |      |        |                 |                      |         |           |         |         |       |
| Block 4 in (100 mm) thick  | 02220-130-2000 | S.F. | 1 Clab | 180             |                      | \$1.30  | \$0.00    | 20%     | \$1.56  |       |
| Block 6 in (150 mm) thick  | 02220-130-2040 | S.F. | 1 Clab | 170             |                      | \$1.38  | \$0.00    | 20%     | \$1.66  |       |
| Block 8 in (200 mm) thick  | 02220-130-2080 | S.F. | 1 Clab | 150             |                      | \$1.56  | \$0.00    | 20%     | \$1.87  |       |
| Block 12 in (300 mm) thick | 02220-130-2100 | S.F. | 1 Clab | 150             |                      | \$1.56  | \$0.00    | 20%     | \$1.87  |       |
| Conc 6 in (150 mm) thick   | 02220-130-2400 | S.F. | B-9    | 160             |                      | \$11.71 | \$0.47    | 10%     | \$13.40 |       |
| Conc 8 in (200 mm) thick   | 02220-130-2420 | S.F. | B-9    | 140             |                      | \$13.38 | \$0.53    | 10%     | \$15.30 |       |
| Conc 10 in (250 mm) thick  | 02220-130-2440 | S.F. | B-9    | 120             |                      | \$15.61 | \$0.62    | 10%     | \$17.85 |       |
| Conc 12 in (300 mm) thick  | 02220-130-2500 | S.F. | B-9    | 100             |                      | \$18.73 | \$0.74    | 10%     | \$21.42 |       |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Waste Disposal  |                         |             |              |                 |           |       |           |       |          |
|---|-------------------------|-------------|--------------|-----------------|-----------|-------|-----------|-------|----------|
| Unit rates from Means Heavy Construction 2006 Edition I | by permission of R.S.Me | ans/Reed    | Construct    | ion Data .      |           |       |           |       |          |
|   | Means Number            | Unit        | Crew         | Daily<br>Output | Materials | Labor | Equipment | Total | Notes    |
| Rubbish Handling  |                         |             |              |                 |           |       |           |       |          |
| Dumpster delivery (average for all sizes)               | 02220-350-0910          | ea.         |              |                 | \$51.50   |       |           | \$51  | .50      |
| Haul (average for all sizes)                            | 02220-350-0920          | ea.         |              |                 | \$161.00  |       |           | \$161 | .00      |
| Rent per month (average for all sizes)                  | 02220-350-0940          | ea.         |              |                 | \$55.00   |       |           | \$55  | .00      |
| Disposal fee per ton (tonne) (average for all sizes)    | 02220-350-0950          | ton         |              |                 | \$60.50   |       |           | \$60  | .50      |
| NOTES:  |                         |             |              |                 |           |       |           |       | <u></u>  |
|   | R.S. Means Heavy Cons   |             |              |                 |           |       |           |       |          |
| Dumpster Disposal Fee Source:                           |                         | struction ( | 2020 Q2).    |                 |           |       |           |       |          |
| Hazardous Material Handling - Solids (+ Liqui           | ids in drums)           |             |              |                 |           |       |           |       |          |
| Pickup fees 55 gal (200 L). drums                       |                         | ea.         |              |                 | \$251.00  |       |           | \$251 | .00      |
| Bulk material (average)                                 |                         | ton         |              |                 | \$409.50  |       |           | \$409 | .50      |
| Transport - truck load (80 drums, 25 cy (m3), 18 tons)  |                         | mile        |              |                 | \$5.88    |       |           | \$5   | .88      |
| Dump site solid disposal fee                            | 02110-300-6000/6020     | ton         |              |                 | \$288.50  |       |           | \$288 | .50      |
| NOTES:  |                         |             |              |                 |           |       |           |       | <u> </u> |
| Solid Handling Cost Source                              | R.S. Means Heavy Cons   | struction ( | 2019 Q2).    |                 |           |       |           |       |          |
| Solid Disposal Fee Source:                              | 2019 Q2 R.S. Means He   | eavy Cons   | st. ave. 02  | 81              |           |       |           |       |          |
| Hazardous Material Handling - Liquids                   |                         |             |              |                 |           |       |           |       |          |
| Vacuum Truck Pickup (2200 gal/8300 L)                   | 02110-300-3110          | hr.         |              |                 | \$147.00  |       |           | \$147 | .00      |
| Vacuum Truck Pickup (5000 gal/19000 L)                  |                         | hr.         |              |                 | \$213.00  |       |           | \$213 |          |
| Dump site liquid disposal fee                           | 02110-300-6000/6020     | ton         |              |                 | \$288.50  |       |           | \$288 | .50      |
| NOTES:  |                         |             |              |                 |           |       |           |       |          |
| Liquid Handling Cost Source                             |                         |             |              |                 |           |       |           |       |          |
| Liquid Disposal Fee Source:                             | 2020 Q2 R.S. Means He   | eavy Cons   | st. ave. 02  | 81              |           |       |           |       |          |
| Hydrocarbon Contaminated Soils (HCS)                    |                         |             |              |                 |           |       |           |       |          |
|   | 02115-200-2020/2021     | C.Y.        |              |                 | \$17.64   |       |           | \$17  |          |
|   | 02115-200-2050/2055     | C.Y.        |              |                 | \$278.50  |       |           | \$278 | .50      |
| NOTES:  | <u>'</u>                |             |              |                 |           |       |           |       | <u> </u> |
| Insitu Treatement Cost Source                           |                         |             |              |                 |           |       |           |       |          |
| HCS Disposal Fee Source:                                | 2020 Q2 R.S. Means He   | eavy Cons   | st., ave. 02 | 65              |           |       |           |       |          |
|   |                         |             |              |                 |           |       |           |       |          |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

## Concrete Structure Installation

Weekly dumpster rental rates from Means Heavy Construction 2005 Edition with permission by R.S.Means/Reed Construction Data

| Weekly dumpster rental rates include haul to off-site dispos | sal site and disposal fee | es          | 1         |                 |                    | 1             |                   |         | 1        |                            |
|--|---------------------------|-------------|-----------|-----------------|--------------------|---------------|-------------------|---------|----------|----------------------------|
|  | Means Number              | Unit        | Crew      | Daily<br>Output | Materials          | Labor         | Equipment         | Premium | Total    | Notes                      |
| Reinforced Concrete Bulkheads and Shaft Co                   | vers                      |             |           |                 |                    |               |                   |         |          |                            |
| Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high          | 03310-240-4300            | C.Y.        | C-14D     | 80.02           | \$163.00           | \$105.53      | \$13.35           |         | \$281.88 | includes reinforcing       |
| Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high         | 03310-240-4350            | C.Y.        | C-14D     | 26.2            | \$163.00           | \$322.30      | \$40.76           |         | \$526.06 | includes reinforcing       |
| Elevated conc, 1-way beam & slab - 15ft (4.6m) span          | 03310-240-2700            | C.Y.        | C-14B     | 20.59           | \$278.00           | \$410.57      | \$51.87           |         | \$740.44 |                            |
| Elevated conc, 1-way beam & slab - 25ft (7.5m) span          | 03310-240-2750            | C.Y.        | C-14B     | 28.36           | \$265.00           | \$298.08      | \$37.66           |         | \$600.74 | includes reinforcing       |
| Bat Gate/Foam Plug Installation                              |                           |             |           |                 |                    |               |                   |         |          |                            |
|  |                           |             |           |                 |                    |               |                   |         |          |                            |
| Bat Gate (5)   |                           | ea.         |           |                 | \$3,367.61         |               |                   |         |          | materials \$/ea. Installed |
| Culvert Gate (5)   |                           | ea.         |           |                 | \$6,735.21         |               |                   |         |          | materials \$/ea. Installed |
| Adit Foam Plug (6)   |                           | ea./C.Y.    |           |                 | \$336.76           |               |                   |         |          | materials \$/cy placed     |
| Production Opening Foam Plug (6)                             |                           | ea./C.Y.    |           |                 | \$336.76           |               |                   |         |          | materials \$/cy placed     |
| NOTES:   |                           |             |           |                 |                    |               |                   |         |          |                            |
| (5) Bat Gate Source:   | NV BLM, 2/2006: 8 hr +    | - 1hr mob/o | demob + 1 | hr setup per    | gate (adjusted to  | 2020)         |                   |         |          |                            |
| (6) Foam Plug Source: N                                      | NV BLM, 2/2006: 8 hr+     | 1hr mob/d   | emob + 1h | r setup per a   | adit; 16 hrs per p | roduction ope | ning (adjusted to | 2020)   |          |                            |
|  |                           |             |           |                 |                    |               |                   |         |          |                            |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

## Misc. Linear Projects

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

| All equipment, labor and material unit costs are nom Labo | or Coolo, Equipment Co | Toto and w | I I    | Daily  | 1         |        |           |         | 1       |       |
|---|------------------------|------------|--------|--------|-----------|--------|-----------|---------|---------|-------|
|   | Means Number           | Unit       | Crew   | Output | Materials | Labor  | Equipment | Premium | Total   | Notes |
| Fencing Installation                                      |                        | •          |        |        |           |        |           |         |         |       |
| Barbed 3-strand   | 02820-170-1650         | L.F.       | B-80A  | 760    | \$0.51    | \$0.93 | \$0.33    |         | \$1.77  |       |
| Barbed 4-strand   | extrapolated           | L.F.       | B-80A  | 570    | \$0.68    | \$1.23 | \$0.44    |         | \$2.35  |       |
| Barbed 5-strand   | 02820-130-0920         | L.F.       | B-80A  | 456    | \$0.85    | \$1.54 | \$0.55    |         | \$2.94  |       |
| Chain link 8-10ft (2.5-3m) Install                        | 02820-130-0920         | L.F.       | B-80C  | 180    | \$38.00   | \$3.91 | \$1.38    |         | \$43.29 |       |
| Wood stockade fence 6 ft (2 m) high - Install             | 02820-510-1240         | L.F.       | B-80C  | 150    | \$16.00   | \$4.69 | \$1.66    |         | \$22.35 |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
| Fencing Removal   |                        |            |        |        |           |        |           |         |         |       |
| Barbed 3-strand Removal                                   | 02220-220-1600         | L.F.       | 2 Clab | 430    |           | \$1.09 | \$0.58    |         | \$1.67  |       |
| Barbed 4-strand Removal                                   | extrapolated           | L.F.       | 2 Clab | 355    |           | \$1.32 | \$0.70    |         | \$2.02  |       |
| Barbed 5-strand Removal                                   | 02220-220-1650         | L.F.       | 2 Clab | 280    |           | \$1.68 | \$0.89    |         | \$2.57  |       |
| Chain link 8-10 ft (2.5-3 m) Removal                      | 02220-220-1700         | L.F.       | B-6    | 445    |           | \$1.67 | \$1.40    |         | \$3.07  |       |
| Wood, all types 4-6 ft ("1.5-2 m) high - Removal          | 02220-220-1775         | L.F.       | 2 Clab | 430    |           | \$1.09 | \$0.58    |         | \$1.67  |       |
|   | user                   | L.F.       |        |        |           |        |           |         |         |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
|   | user                   | L.F.       |        |        |           |        |           |         | \$0.00  |       |
| Culvert Removal   |                        |            |        |        |           |        |           |         |         |       |
| 12 in (300 mm ) Diameter                                  | 02220-220-2900         | L.F.       | B-6    | 175    |           | \$4.25 | \$3.55    |         | \$7.80  |       |
| 18 in (450 mm) Diameter                                   | 02220-220-2930         | L.F.       | B-6    | 150    |           | \$4.96 | \$4.14    |         | \$9.10  |       |
| 24 in (600 mm) Diameter                                   | 02220-220-2960         | L.F.       | B-6    | 120    |           | \$6.20 | \$5.18    |         | \$11.38 |       |
| 36 in (1m) Diameter                                       | 02220-220-3000         | L.F.       | B-6    | 90     |           | \$8.27 | \$6.91    |         | \$15.18 |       |
| Pipeline Removal  |                        |            |        |        |           |        |           |         |         |       |
| 0.75 in (20mm) - 4 in (100 mm) diameter                   | 02220-381-1600         | L.F.       | B-20   | 700    |           | \$1.65 | \$0.36    |         | \$2.01  |       |
| 6 in (150 mm) - 8 in (200 mm)                             | 02220-381-1700         | L.F.       | B-20   | 500    |           | \$2.31 | \$0.50    |         | \$2.81  |       |
| 10 in (250 mm) - 18 in (450 mm)                           | 02220-381-1800         | L.F.       | B-20   | 300    |           | \$3.85 | \$0.83    |         | \$4.68  |       |
| 20 in (500 mm) - 36 in (1 m)                              | 02220-381-1900         | L.F.       | B-20   | 200    |           | \$5.77 | \$1.25    |         | \$7.02  |       |
| Pipe and Drainpipe Installation                           |                        |            |        |        |           |        |           |         |         |       |
| Water 4in (100mm ) 40ft (12m) length, welded HDPE         | 02510-760-0100         | L.F.       | B-22A  | 400    | \$2.70    | \$3.19 | \$4.46    |         | \$10.35 |       |
| Water 6in (150mm) 40ft (12m) length, welded HDPE          | 02510-760-0200         | L.F.       | B-22A  | 380    | \$5.85    | \$3.36 | \$4.69    |         | \$13.90 |       |
| Water 12in (300mm) 40ft (12m) length, welded HDPE         | 02510-760-0500         | L.F.       | B-22A  | 260    |           | \$4.91 | \$6.86    |         | \$11.77 |       |
| Drain 4in (100mm) perforated PVC                          | 02620-630-2100         | L.F.       | B-14   | 315    | \$1.74    | \$5.96 | \$1.87    |         | \$9.57  |       |
| Drain 6in (150mm) perforated PVC                          | 02620-630-2110         | L.F.       | B-14   | 300    | \$4.22    | \$6.26 | \$1.96    |         | \$12.44 |       |
| Drain 4in (100mm) corrugated, perf or plain               | 02620-660-0040         | L.F.       | 2 Clab | 1200   | \$0.78    | \$0.39 | \$0.21    |         | \$1.38  |       |
| Drain 6in (150mm) corrugated., perf or plain              | 02620-660-0060         | L.F.       | 2 Clab | 900    | \$2.18    | \$0.52 | \$0.28    |         | \$2.98  |       |
|   |                        |            |        |        |           |        |           |         |         |       |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| C.Y.                         | 1  | 1                                   | T I    |         | \$0.50      |  |
|------------------------------|--|-------------------------------------|--------|---------|-------------|--|
| C.Y.                         |  |                                     |        |         | \$0.50      |  |
| <del>-</del>                 |  | *                                   | •      |         | \$1.00      |  |
|                              |  |                                     |        |         |             |  |
| 02210-700-0120 C.Y.          | B-11M  | 28                                  | \$9.83 | \$12.10 | \$21.93     |  |
|                              |  |                                     |        |         |             |  |
| mile                         |  |                                     |        |         | \$46,803.69 |  |
| mile                         |  |                                     |        |         | \$53,489.93 |  |
| ea.                          |  |                                     |        |         | \$58,997.31 |  |
|                              |  |                                     |        |         |             |  |
|                              |  |                                     |        |         |             |  |
| Energy estimate (2009) Adjus | ted to 2020  |                                     |        |         |             |  |
| Energy estimate (2009) Adjus | ted to 2020  |                                     |        |         |             |  |
| Energy estimate (2018) adjus | ted to 2020  |                                     |        |         |             |  |
|                              | 02210-700-0120 C.Y.  mile mile ea.  Energy estimate (2009) Adjus | 02210-700-0120 C.Y. B-11M mile mile | C.Y.   | C.Y.    | C.Y.        | C.Y. \$0.50<br>\$1.00<br>02210-700-0120 C.Y. B-11M 28 \$9.83 \$12.10 \$21.93<br>mile \$46,803.69<br>mile \$53,489.93<br>ea. \$53,489.93<br>Energy estimate (2009) Adjusted to 2020 |

#### Erosion and Sedimentation Control

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

|  | Means Number   | Unit | Crew   | Daily<br>Output | Materials | Labor   | Equipment | Premium | Total   | Notes  |
|--|----------------|------|--------|-----------------|-----------|---------|-----------|---------|---------|--|
| lip-Rap & Rock Lining                                    |                |      |        |                 |           |         |           |         |         |  |
| Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted               | 02370-450-0110 | S.Y. | B-13   | 80              | \$25.00   | \$23.35 | \$9.80    |         | \$58.15 | assumes on-site source of rip-rap            |
| Rip-Rap 18 in (450 mm) min thick, no grout               | 02370-450-0200 | S.Y. | B-13   | 53              | \$7.65    | \$35.24 | \$14.79   |         | \$57.68 |  |
| Gabions, 6 in (150 mm) deep                              | 02370-450-0400 | S.Y. | B-13   | 200             | \$7.05    | \$9.34  | \$3.92    |         | \$20.31 | assumes on-site source rock fill for gabions |
| Gabions, 9 in (250 mm) deep                              | 02370-450-0500 | S.Y. | B-13   | 163             | \$9.85    | \$11.46 | \$4.81    |         | \$26.12 |  |
| Gabions, 12 in (300 mm) deep                             | 02370-450-0200 | S.Y. | B-13   | 153             | \$14.30   |         | \$5.12    |         | \$31.63 |  |
| Gabions, 18 in (450 mm) deep                             | 02370-450-0200 | S.Y. | B-13   | 102             | \$18.35   |         | \$7.69    |         | \$44.35 |  |
| Gabions, 36 in (1m) deep                                 | 02370-450-0200 | S.Y. | B-13   | 60              | \$31.00   | \$31.13 | \$13.07   |         | \$75.20 | assumes on-site source rock fill for gabions |
| DEP Liner Installation                                   |                |      |        |                 |           |         |           |         |         |  |
| Finish grading large area                                | 2310-100-0100  | S.F. | B-11L  | 18000           |           | \$0.03  | \$0.08    |         | \$0.11  |  |
| Compaction-riding, vibrating roller - 12in (300mm) lifts | 2315-310-5100  | C.Y. | B-10Y  | 2600            |           | \$0.20  | \$0.17    |         | \$0.37  |  |
| 60 mil HDPE  | 2660-610-0010  | S.F. | 3 Skwk | 1600            | \$0.57    | \$0.65  | \$0.45    |         | \$1.67  |  |
| 80 mil HDPE  | user           | S.F. | 3 Skwk | 149             |           | \$7.02  | \$4.87    |         | \$11.89 |  |
| 40 mil VLDPE   | user           | S.F. | 3 Skwk | 150             |           | \$6.97  | \$4.83    |         | \$11.80 |  |
|  | user           | S.F. | 3 Skwk | 149             |           | \$7.02  | \$4.87    |         | \$11.89 |  |
|  | user           | S.F. | 3 Skwk | 149             |           | \$7.02  | \$4.87    |         | \$11.89 |  |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety

Cost Basis: American Magnesium - Option 1 Revised

| Construction Management Support        |                     |          |   |          |        |           |     |       |       |
|--|---------------------|----------|---|----------|--------|-----------|-----|-------|-------|
| Office Trailer, Furnished, no hook-ups | 0150-500-0250       | mo.      |   | \$198.00 |        |           | \$1 | 98.00 |       |
| Toilet Portable, chemical 1            | 1590-400-6410       | mo.      |   | \$214.20 |        |           | \$2 | 14.20 |       |
| TOTAL                                  |                     | *        | • | \$412.20 |        |           | \$4 | 12.20 |       |
| Pump and Casing Removal                |                     |          |   |          |        |           |     |       |       |
| Pump Type                              | Measurement         | Unit     |   |          | Labor  | Equipment | Tot | al    | Notes |
| Pump Removal                           |                     |          |   |          |        |           |     |       |       |
| Submersible ft to p                    | pump                | L.F.     |   |          | \$7.65 | \$18.86   | \$  | 26.51 |       |
| Line Shaft ft to p                     | pump                | L.F.     |   |          | \$7.65 | \$18.86   | \$  | 26.51 |       |
|  |                     |          |   |          |        |           |     |       |       |
| NOTES:                                 |                     |          |   |          | •      |           |     |       |       |
| (10) Pump Removal Source: Board        | t Longyear Quote: J | une 2020 |   |          |        |           |     |       |       |
|  |                     |          |   |          |        |           |     |       |       |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

|   |                |                                 | Standard  | EQUIPMENT<br>UNIT COST  | TOTAL LABOR<br>UNIT COST  | TOTAL  |
|---|----------------|---------------------------------|---|---|---|--|
| ACTIVITY AND FLEET  |                |                                 | Crew Size   | (Hourly)  | (Hourly)  | (Hourly)   |
| Rip road  |                |                                 |   |   |   |  |
| Waste rock dumps, heaps, tails - rip flat surfaces<br>Surface preparation<br>Scarify  |                |                                 |   |   |   |  |
|   | Sma            | ıll Dozer w/                    | / multi-sha   | nk  |   |  |
| D7R   | T-4-1-         |                                 | 1   | \$88.37   | \$34.41   | \$122.   |
|   | Totals         |                                 |   | \$88.37   | \$34.41   | \$122.   |
|   | Mediu          | ım Dozer w                      |   |   |   |  |
| D9R   | Totals         |                                 | 1   | \$229.54<br>\$229.54  | \$34.41<br>\$34.41  | \$263.9<br>\$263.9   |
|   | Totals         |                                 | l   | Ψ223.54   | Ψ54.41  | Ψ200.  |
|   | Larg           | e Dozer w/                      |   |   |   |  |
| D10R  | Totals         |                                 | 1   | \$329.55<br>\$329.55  | \$34.41<br>\$34.41  | \$363.9<br>\$363.9   |
|   |                |                                 | Į.  | ψ020.00   | ψ04.41  | φοσο.  |
|   | G              | rader w/ m                      |   |   |   |  |
| 16G/H   | Totals         |                                 | 1   | \$247.16<br>\$247.16  | \$37.12<br>\$37.12  | \$284.2<br>\$284.2   |
|   |                |                                 | ı   | <b>*</b> =•   | ******  | <del></del>  |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  |                |                                 |   |   |   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills  |                | Small Doz                       | er Fleet  |   |   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills  |                | Small Doz                       | zer Fleet   | \$88.37   | \$34.41   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills<br>Constructing pit safety berms   | Totals         | Small Doz                       |   | \$88.37<br>\$88.37  | \$34.41<br>\$34.41  |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills<br>Constructing pit safety berms   |                | Small Doz                       | 1   |   |   |  |
| Grading storage and structure areas<br>Grading waste rock dumps and heaps<br>Grading landfills<br>Constructing pit safety berms   |                |                                 | 1   | \$88.37<br>\$229.54   | \$34.41<br>\$34.41  | \$122.<br>\$122.   |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R   |                |                                 | 1<br>ozer Fleet   | \$88.37   | \$34.41   | \$122.<br>\$263.   |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  |                |                                 | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54   | \$34.41<br>\$34.41<br>\$34.41   | \$122.<br>\$263.<br>\$263.   |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R   | Totals         | Medium Do                       | ozer Fleet  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55                                   | \$34.41<br>\$34.41<br>\$34.41   | \$122.<br>\$263.<br>\$263.<br>\$263.                               |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  |                | Medium Do                       | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54   | \$34.41<br>\$34.41<br>\$34.41   | \$122.7  |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING   | Totals         | Medium Do                       | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55                                   | \$34.41<br>\$34.41<br>\$34.41   | \$122.1<br>\$263.9<br>\$263.9<br>\$363.9                           |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  | Totals         | Medium Do                       | pzer Fleet 1 zer Fleet  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55                                   | \$34.41<br>\$34.41<br>\$34.41   | \$122.<br>\$263.<br>\$263.<br>\$263.                               |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads           | Totals         | Medium Do                       | ozer Fleet  1  ter Fleet  1                                       | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55                       | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches  | Totals         | Medium Do                       | ozer Fleet 1 ter Fleet 1  | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55                       | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41                                  | \$122.3<br>\$263.4<br>\$263.4<br>\$363.4<br>\$363.5                |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads           | Totals  Totals | Medium Doz                      | zer Fleet  1  zer Fleet  1  zer Fleet  1                          | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55                       | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R      | Totals  Totals | Medium Do                       | zer Fleet  1  zer Fleet  1  zer Fleet  1                          | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$329.55           | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads           | Totals         | Medium Doz                      | zer Fleet  1  zer Fleet  1  zer Fleet  1                          | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$96.04<br>\$96.04 | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41            | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.<br>\$130.<br>\$130. |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R      | Totals  Totals | Medium Do  Large Doz  Small Doz | zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet  1            | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$329.55           | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41                       | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.                     |
| Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R  D7R | Totals         | Medium Doz                      | zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$96.04<br>\$96.04 | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41 | \$122.<br>\$263.<br>\$263.<br>\$363.<br>\$363.<br>\$130.<br>\$122. |
| Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms  D7R  D9R  D10R  EXPLORATION GRADING Backfilling and grading exploration trenches Grading flat exploration roads  D6R  | Totals         | Medium Do  Large Doz  Small Doz | zer Fleet  1  zer Fleet  1  zer Fleet  1  zer Fleet  1            | \$88.37<br>\$229.54<br>\$229.54<br>\$329.55<br>\$329.55<br>\$96.04<br>\$96.04 | \$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41<br>\$34.41            | \$122<br>\$263<br>\$263<br>\$363<br>\$363<br>\$130<br>\$130        |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

|   |  | FOLUDATAT   | TOTAL LABOR   | TOTAL                                     |
|---|--|---|---|---|
| ACTIVITY AND FLEET  | Standard<br>Crew Size                                      | EQUIPMENT<br>UNIT COST<br>(Hourly)                                  | TOTAL LABOR<br>UNIT COST<br>(Hourly)                | TOTAL<br>COST<br>(Hourly)                 |
| CAVATING  |  |   |   |   |
| Earthen Berms Diversion ditch excavation and backfill Underground openings backfill - excavate and place Pit berm construction (excavator option) |  |   |   |   |
|   | Small Excavator  |   |   |   |
| 325C Totals   | 1  | \$81.37<br>\$81.37  | \$37.12<br>\$37.12                                  | \$118<br>\$118                            |
|   | ledium Excavator   |   |   |   |
| 345B  | legium Excavator   | \$133.99  | \$37.12   | \$171                                     |
| Totals  |  | \$133.99  | \$37.12   | \$171                                     |
|   | Large Excavator  |   |   |   |
| 385BL   | 1  | \$312.70  | \$37.12   | \$349                                     |
| Totals_   |  | \$312.70  | \$37.12   | \$349                                     |
| CAVATE AND RECONTOUR  |  |   |   |   |
| Recontour large roads (haul roads, access roads, etc.) Ponds - Excavate and pull liner and bury   |  |   |   |   |
| Ponds - Excavate and pull liner and bury  |  |   |   |   |
| Sma   | III Excavator + Doze                                       |   |   |   |
| 325C  | 1  | \$81.37   | \$37.12   | \$118                                     |
| D7R   | 1  | \$88.37   | \$34.41   | \$122                                     |
| Total Equipment   |  | \$169.74  | \$71.53   | \$241                                     |
| Medic   | ım Excavator + Doz   | er  |   |   |
| 345B  | 1  | \$133.99  | \$37.12   | \$171                                     |
| D9R Totals  | 1  | \$229.54<br>\$363.53  | \$34.41<br>\$71.53                                  | \$263<br>\$435                            |
|   | ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '                      |   | 7   | 7.00                                      |
| 385BL Larg  | je Excavator + Doze  | er<br>\$312.70  | \$37.12   | \$349                                     |
| D10R  | 1  | \$312.70  | \$34.41   | \$363                                     |
| Totals  |  | \$642.25  | \$71.53   | \$713                                     |
| (PLORATION ROAD/PAD RECONTOUR   |  |   |   |   |
|   |  |   |   |   |
| Recontour small roads (exploration roads, service roads, etc.   | 5.)  |   |   |   |
| Cut and Fill reclamation on slopes  | C.)  |   |   |   |
|   | 5.)  |   |   |   |
| Cut and Fill reclamation on slopes Drill pad recountour   |  |   |   |   |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill   | Small Dozer  | l \$96.041  | \$34,411  | \$130                                     |
| Cut and Fill reclamation on slopes Drill pad recountour   | Small Dozer  | \$96.04<br>\$96.04  | \$34.41<br>\$34.41                                  |   |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  | Small Dozer  |   |   |   |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  | Small Dozer  |   |   | \$130<br>\$130                            |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  | Small Dozer  | \$96.04   | \$34.41   | \$130                                     |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R   | Small Dozer  1  Large Dozer  1                             | \$96.04<br>\$155.83   | \$34.41<br>\$34.41                                  | \$130<br>\$190                            |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R   | Small Dozer  | \$96.04<br>\$155.83   | \$34.41<br>\$34.41                                  | \$130<br>\$190                            |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  Totals  | Small Dozer  1  Large Dozer  1  Grader                     | \$96.04<br>\$155.83<br>\$155.83                                     | \$34.41<br>\$34.41<br>\$34.41                       | \$130<br>\$190<br>\$190                   |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R  Totals  14G/H  Totals                              | Small Dozer  1  Large Dozer  1  Grader                     | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72                         | \$34.41<br>\$34.41<br>\$34.41                       | \$130<br>\$190<br>\$190                   |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R  Totals  14G/H  Totals                              | Small Dozer  1  Large Dozer  1  Grader                     | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72                         | \$34.41<br>\$34.41<br>\$34.41                       | \$130<br>\$190<br>\$190<br>\$223<br>\$223 |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  D8R  Totals  14G/H  Totals                              | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72             | \$34.41<br>\$34.41<br>\$34.41<br>\$37.12<br>\$37.12 | \$130<br>\$190<br>\$190<br>\$223<br>\$223 |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  14G/H  Totals  320C  Totals                             | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72<br>\$186.72 | \$34.41<br>\$34.41<br>\$37.12<br>\$37.12            | \$130<br>\$190<br>\$190<br>\$223<br>\$223 |
| Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill  D6R  Totals  14G/H  Totals  320C  Totals                             | Small Dozer  1  Large Dozer  1  Grader  1  Small Excavator | \$96.04<br>\$155.83<br>\$155.83<br>\$186.72<br>\$186.72<br>\$186.72 | \$34.41<br>\$34.41<br>\$37.12<br>\$37.12            | \$130<br>\$190<br>\$190<br>\$223          |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS  |             |                       |                                    |                                      |                           |
|---|-------------|-----------------------|------------------------------------|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET  |             | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| LOAD, HAUL AND PLACE MATERIAL   |             |                       | , ,,                               | ,                                    |                           |
| Rock placement Haul overburden for backfill Haul borrow for backfill Haul cover or growth media |             |                       |                                    |                                      |                           |
| Sma   | all Truck/l | oader Flee            | t                                  |                                      |                           |
| 725   |             | Calculated            | \$141.02                           | \$34.41                              | \$175.4                   |
| 966G  | Loader      | 1                     | \$73.88                            | \$34.41                              | \$108.2                   |
| D7R Totals  |             | 1                     | \$88.37<br>\$303.27                | \$34.41<br>\$103.23                  | \$122.7<br>\$406.5        |
| Modi  | um Truck    | /Loader Fle           | ot                                 | ·                                    |                           |
| 740 Wedi  | um Truck    | Calculated            | <b>९।</b><br>\$191.63              | \$34.41                              | \$226.0                   |
| 988G  | Loader      | 1                     | \$274.20                           | \$34.41                              | \$308.6                   |
| D8R   |             | 1                     | \$155.83                           | \$34.41                              | \$190.2                   |
| Totals  |             |                       | \$621.66                           | \$103.23                             | \$724.8                   |
|   | ge Truck/l  | ₋oader Flee           | t                                  |                                      |                           |
| 769D  |             | Calculated            | \$23.86                            | \$34.41                              | \$58.2                    |
| 988G<br>D7R   | Loader      | 1                     | \$274.20<br>\$88.37                | \$34.41<br>\$34.41                   | \$308.6<br>\$122.7        |
| Totals  |             |                       | \$386.43                           | \$103.23                             | \$489.6                   |
| Evtra   | argo Tru    | k/Loader F            | loot                               |                                      |                           |
| 777D  | arge muc    | Calculated            | \$561.85                           | \$34.41                              | \$596.2                   |
| 992G  | Loader      | 1                     | \$522.61                           | \$34.41                              | \$557.0                   |
| D7R   |             | 1                     | \$88.37                            | \$34.41                              | \$122.7                   |
| Totals  |             |                       | \$1,172.83                         | \$103.23                             | \$1,276.0                 |
|   | Scraper/Do  |                       |                                    |                                      |                           |
| 631G  |             | Calculated            | \$243.74                           | \$34.41                              | \$278.1                   |
| D10R<br>D7R   |             | 1                     | \$329.55<br>\$88.37                | \$34.41<br>\$34.41                   | \$363.9<br>\$122.7        |
| Totals  |             |                       | \$661.66                           | \$103.23                             | \$764.8                   |
| Ta  | andem Scr   | raper Fleet           |                                    |                                      |                           |
| 637G  | maom ooi    | 2                     | \$430.52                           | \$34.41                              | \$464.9                   |
| D7R   |             | 1                     | \$88.37                            | \$34.41                              | \$122.7                   |
| Totals  |             |                       | \$518.89                           | \$68.82                              | \$587.7                   |
| MISC. LOAD AND HAUL AND EARTHWORKS  |             |                       |                                    |                                      |                           |
| Sludge removal  |             |                       |                                    |                                      |                           |
| Drainage controls   |             |                       |                                    |                                      |                           |
| Misc Cat 32   | 5B Excav    |                       | •                                  |                                      |                           |
| 325C<br>Dump Truck (10-12 yd3 )   |             | 1                     | \$81.37<br>\$56.34                 | \$37.12<br>\$30.60                   | \$118.4<br>\$86.9         |
| Totals  |             | '                     | \$137.71                           | \$67.72                              | \$205.4                   |
| Misc Cat D9R Do   | 70r/ L 02d  | or (5 vd3) /          | 10-12 vd3 Truck                    |                                      |                           |
| D9R   | Leir Luau   | 1 1                   | \$229.54                           | \$34.41                              | \$263.9                   |
| 966G  |             | 1                     | \$73.88                            | \$34.41                              | \$108.2                   |
| Dump Truck (10-12 yd3 )  Totals   |             | 1                     | \$56.34<br>\$359.76                | \$30.60<br>\$99.42                   | \$86.9<br>\$459.1         |
| <u>-</u>  |             |                       |                                    | •                                    | Ψ-03.1                    |
| Misc Cat D6 Doz   | er / Cat 96 | 6 Loader /            | 10-12 yd3 Truck<br>\$96.04         |                                      | \$130.4                   |
| D6R<br>966G   |             | 1                     | \$96.04<br>\$73.88                 | \$34.41<br>\$34.41                   | \$130.4<br>\$108.2        |
|   |             |                       | Ψ10.00                             |                                      |                           |
| Dump Truck (10-12 yd3 )  Totals   |             | 1                     | \$56.34<br>\$226.26                | \$30.60<br>\$99.42                   | \$86.9<br>\$325.6         |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS                                    |                       |   |                                      |                           |
|---|-----------------------|---|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET                                  | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly)      | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| CONCRETE BREAKING                                   | 1 2 2 2 2 2           | (************************************** | (1.5 2.1.)                           | (1101117)                 |
| Slab demolition                                     |                       |   |                                      |                           |
| Footing demolition Wall demolition                  |                       |   |                                      |                           |
| Small - Cat 325B Exc                                |                       |   |                                      |                           |
| 325C  | 1                     | \$81.37                                 | \$37.12                              | \$118.4                   |
| H-120 (fits 325)                                    | 1                     | \$32.95<br>\$229.54                     | \$0.00<br>\$34.41                    | \$32.9<br>\$263.9         |
| Totals  | '                     | \$343.86                                | \$71.53                              | \$415.3                   |
| Medium - Cat 345B Ex                                | cavator w/ H18        | OD's Hammer                             |                                      |                           |
| 345B  | 1                     | \$133.99                                | \$37.12                              | \$171.1                   |
| H-160 (fits 345)                                    | 1                     | \$67.17                                 | \$0.00                               | \$67.1                    |
| D9R Totals  | 1                     | \$229.54<br>\$430.70                    | \$34.41<br>\$71.53                   | \$263.9<br>\$502.2        |
|   |                       |   | \$71.55                              | ψ302.2                    |
| Large - Cat 385B Exc                                | cavator w/ H180       | D s Hammer<br>\$312.70                  | \$37.12                              | \$349.8                   |
| H-180 (fits 365/385)                                | 1                     | \$76.01                                 | \$0.00                               | \$76.0                    |
| D9R   | 1                     | \$229.54                                | \$34.41                              | \$263.9                   |
| Totals  |                       | \$618.25                                | \$71.53                              | \$689.7                   |
| DRILL HOLE ABANDONMENT                              |                       |   |                                      |                           |
|   | Grout or Ceme         |   |                                      |                           |
| Pump (plugging) Drill Rig                           | 1                     | \$635.56                                | \$34.23                              | \$669.7                   |
| Driller's Helper  Totals                            | 2                     | \$0.00<br>\$635.56                      | \$64.20<br>\$98.43                   | \$64.2<br>\$733.9         |
|   |                       | •                                       | \$96.43                              | <b>Φ133.9</b>             |
| Drill Hole - Inert Media (                          |                       |   | 00444                                | 070                       |
| 420D 4WD Backhoe<br>General Laborer                 | 1                     | \$42.35<br>\$0.00                       | \$34.41<br>\$29.32                   | \$76.7<br>\$29.3          |
| Totals  | ·                     | \$42.35                                 | \$63.73                              | \$106.0                   |
| Drill Hole - Casing                                 | n Perforation or      | Removal                                 |                                      |                           |
| Heavy Duty Drill Rig                                | 1                     | \$639.94                                | \$34.23                              | \$674.1                   |
| Driller's Helper                                    | 2                     | \$0.00                                  | \$64.20                              | \$64.2                    |
| Totals  | ļ                     | \$639.94                                | \$98.43                              | \$738.3                   |
| MAINTENANCE FLEET                                   |                       |   |                                      |                           |
| Road Grading, Dust Suppression, Clean Up            |                       | 0-1440 0                                |                                      |                           |
| Maintenance - Small W. 613E (5,000 gal) Water Wagon |                       | \$131.83                                | \$34.41                              | \$166.7                   |
| 120H  | 1                     | \$73.38                                 | \$37.12                              | \$166.2<br>\$110.5        |
| Totals  |                       | \$205.21                                | \$71.53                              | \$276.7                   |
| Maintenance - Medium V                              | Vater Truck and       | Cat 16G Grade                           | _                                    |                           |
| 613E (5,000 gal) Water Wagon                        | 1                     | \$131.83                                | \$34.41                              | \$166.2                   |
| 14G/H   | 1                     | \$186.72                                | \$37.12                              | \$223.8                   |
| Totals  |                       | \$318.55                                | \$71.53                              | \$390.0                   |
| Maintenance - Large W                               | ater Truck and        | Cat 16G Grader                          |                                      |                           |
| 621E (8,000 gal) Water Wagon                        | 1                     | \$165.96                                | \$34.41                              | \$200.3                   |
| 16G/H   | 1                     | \$247.16                                | \$37.12                              | \$284.2                   |
| Totals  | Į                     | \$413.12                                | \$71.53                              | \$484.6                   |
| PROJECT SUPERVISION                                 |                       |   |                                      |                           |
| Foreman   | 1                     | \$0.00                                  | \$82.88                              | \$82.8                    |
|   |                       |   |                                      | \$12.8                    |
| Supervisor's Truck Totals                           | 1                     | \$12.82<br>\$12.82                      | \$0.00<br>\$82.88                    | \$95.7                    |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

| EQUIPMENT FLEETS  |                       |   |                                      |                           |
|---|-----------------------|---|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET  | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly)      | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| MEANS CREW DEFINITIONS  | 10.000                | (************************************** | (,)                                  | (,,                       |
| Crew composition from Means Heavy Construction 2005 Edition       | by permission of R.S  | S.Means/Reed Cons                       | truction Data .                      |                           |
| For use with misc. unit costs where Means is the source for produ |                       |   |                                      |                           |
| 1 Clab - Seedling Pla   | anting/Block Wa       | II Demolition                           |                                      |                           |
| General Laborer   | 1                     | \$0.00                                  | \$29.32                              | \$29.3                    |
| Totals  |                       | \$0.00                                  | \$29.32                              | \$29.3                    |
| 2 Clab - Barbed Wire/Wood Fence Remov                             | val Drainnine In      | stallation Pum                          | ning Evanoration                     | 1                         |
| General Laborer   | 2                     | \$0.00                                  | \$58.64                              | \$58.6                    |
| Light Truck - 1.5 Ton   | 1                     | \$31.13                                 | \$0.00                               | \$31.1                    |
| Totals  |                       | \$31.13                                 | \$58.64                              | \$89.7                    |
| 2 Clab + Excavator  | r - Pond Liner Co     | ut and Fold                             |                                      |                           |
| General Laborer   | 2                     | \$0.00                                  | \$58.64                              | \$58.6                    |
| 325C  | 1                     | \$81.37                                 | \$37.12                              | \$118.4                   |
| Totals  |                       | \$81.37                                 | \$95.76                              | \$177.1                   |
| 2 Clab + V  | Velder - Bat Gat      | AS                                      |                                      |                           |
| General Laborer   | 2                     | \$0.00                                  | \$58.64                              | \$58.6                    |
| Welding Equipment   | 1                     | \$8.83                                  | \$34.23                              | \$43.0                    |
| Light Truck - 1.5 Ton   | 1                     | \$31.13                                 | \$0.00                               | \$31.1                    |
| Totals  |                       | \$39.96                                 | \$92.87                              | \$132.8                   |
| 3 Clab -  | Foam Adit Plug        | S                                       |                                      |                           |
| General Laborer   | 2                     | \$0.00                                  | \$58.64                              | \$58.6                    |
| 420D 4WD Backhoe  | 1                     | \$42.35                                 | \$34.41                              | \$76.7                    |
| Light Truck - 1.5 Ton  Totals                                     | 1                     | \$31.13<br>\$73.48                      | \$0.00<br>\$93.05                    | \$31.13<br>\$166.53       |
| Totals  | I                     | ψ13.40                                  | ψ55.05                               | ψ100.5                    |
|   | der - Culvert Bat     |   |                                      |                           |
| General Laborer   | 2                     | \$0.00                                  | \$58.64                              | \$58.6                    |
| Welding Equipment 420D 4WD Backhoe                                | 1                     | \$8.83<br>\$42.35                       | \$34.23<br>\$34.41                   | \$43.0<br>\$76.7          |
| Light Truck - 1.5 Ton   | 1                     | \$31.13                                 | \$0.00                               | \$31.1                    |
| Totals  |                       | \$82.31                                 | \$127.28                             | \$209.5                   |
| 3 Clab D - 3 Laborers   | + Foroman - Do        | contamination                           |                                      |                           |
| General Laborer   | 3                     | \$0.00                                  | \$87.96                              | \$87.9                    |
| Foreman   | 1                     | \$0.00                                  | \$82.88                              | \$82.8                    |
| Supervisor's Truck  | 1                     | \$12.82                                 | \$0.00                               | \$12.8                    |
| Light Truck - 1.5 Ton  Totals                                     | 1                     | \$31.13<br>\$43.95                      | \$0.00<br>\$170.84                   | \$31.13<br>\$214.79       |
|   |                       |   | ψ170.04                              | ΨΔ 14.7                   |
|   | Liner Installation    |   |                                      |                           |
| Skilled Laborer   | 3                     | \$0.00                                  | \$96.30<br>\$0.00                    | \$96.3                    |
| HDEP Welder (pipe or liner) 420D 4WD Backhoe                      | 1 1                   | \$48.27<br>\$42.35                      | \$0.00<br>\$34.41                    | \$48.2°<br>\$76.7         |
|   |                       | \$0.00                                  | 72                                   | \$0.0                     |
|   |                       | \$0.00                                  |                                      | \$0.0                     |
| Totals  |                       | \$0.00<br>\$90.62                       | \$130.71                             | \$0.00<br>\$221.33        |
| rotals  |                       | φ <del>9</del> 0.02                     | φ13U. <i>I</i> I                     | <b>Φ∠∠1.3</b> -           |

## Closure Cost Estimate Fleets (Crews)

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

|                         |                       | EQUIPMENT.                         | T0T41 1 4 D0 =                       | T0T4:                     |
|-------------------------|-----------------------|------------------------------------|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET      | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| -                       | Building Demol        |                                    | (110211)                             | (********)                |
| 200                     | LABOR                 |                                    |                                      |                           |
| General Laborer         | 2                     | \$0.00                             | \$58.64                              | \$58                      |
| Foreman                 | 1                     | \$0.00                             | \$82.88                              | \$82                      |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
| F                       | QUIPMENT              | \$0.00                             |                                      | \$(                       |
| 928G                    | 1 1                   | \$77.71                            | \$34.41                              | \$112                     |
| Dump Truck (10-12 yd3 ) | 2                     | \$112.68                           | \$61.20                              | \$173                     |
| ·                       |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$0                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(<br>\$(                |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
| Totals                  |                       | \$190.39                           | \$237.13                             | \$427                     |
|                         |                       |                                    |                                      |                           |
| B-6 - Chain Link        |                       |                                    |                                      |                           |
| General Laborer         | 2                     | \$0.00                             | \$58.64                              | \$58                      |
| 928G Totals             | 1                     | \$77.71<br>\$77.71                 | \$34.41<br>\$93.05                   | \$112<br>\$170            |
| l otals                 |                       | \$11.11                            | \$93.03                              | \$170                     |
| B-8 - Large I           | Building Demoli       | tion                               |                                      |                           |
|                         | LABOR                 |                                    |                                      |                           |
| General Laborer         | 2                     | \$0.00                             | \$58.64                              | \$58                      |
| Foreman                 | 1                     | \$0.00                             | \$82.88                              | \$82                      |
|                         |                       | \$0.00                             |                                      | \$(<br>\$(                |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(                       |
| E(                      | QUIPMENT              | ψ0.00                              |                                      | Ψ                         |
| 928G                    | 1                     | \$77.71                            | \$34.41                              | \$112                     |
| 20 Ton Crane            | 1                     | \$98.00                            | \$33.30                              | \$13                      |
| Dump Truck (10-12 yd3 ) | 2                     | \$112.68                           | \$61.20                              | \$173                     |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(<br>\$(                |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$0                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$0                       |
|                         |                       | \$0.00<br>\$0.00                   |                                      | \$(<br>\$(                |
|                         |                       | \$0.00                             |                                      | \$(                       |
|                         |                       | \$0.00                             |                                      | \$(                       |
| Totals                  |                       | \$288.39                           | \$270.43                             | \$558                     |
|                         |                       | •                                  | <u>'</u>                             |                           |
| R-9 - Concre            | ete Wall Demoli       |                                    |                                      |                           |
|                         |                       |                                    | A447.00                              | \$117                     |
| General Laborer         | 4                     | \$0.00                             | \$117.28                             |                           |
|                         | 1                     | \$0.00<br>\$0.00<br>\$9.30         | \$117.28<br>\$82.88<br>\$34.00       | \$82<br>\$43              |

## Closure Cost Estimate Fleets (Crews)

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

|   |                   | EQUIPMENT             | TOTAL LABOR         | TOTAL          |
|---|-------------------|-----------------------|---------------------|----------------|
| ACTIVITY AND ELEFT                        | Standard          | UNIT COST             | UNIT COST           | COST           |
| ACTIVITY AND FLEET                        | Crew Size         | (Hourly)              | (Hourly)            | (Hourly)       |
|   | neral Compacti    |                       | 000.001             | 000            |
| General Laborer CS533E Vibratory Roller   | 1                 | \$0.00<br>\$55.06     | \$29.32<br>\$34.41  | \$29<br>\$89   |
| Totals                                    | '                 | \$55.06<br>\$55.06    | \$63.73             | \$118          |
|   | l l               | *****                 | 7.0                 | *              |
| B-11L - Fine Grading fo                   | r Evaporation P   | ond Liner Base        |                     |                |
| General Laborer                           | 1                 | \$0.00                | \$29.32             | \$29           |
| 14G/H                                     | 1                 | \$186.72              | \$37.12             | \$223          |
| Totals                                    |                   | \$186.72              | \$66.44             | \$253          |
| B-11M -                                   | Backhoe Work      |                       |                     |                |
| 420D 4WD Backhoe                          | 1                 | \$42.35               | \$34.41             | \$76           |
| Totals                                    |                   | \$42.35               | \$34.41             | \$76           |
| D 400 Din Don N                           | laskina Dlassal ( | /M = 41:41 = 41       |                     |                |
| B-12G - Rip-Rap N                         | lachine Placed    | (Modified)<br>\$73.88 | \$34.41             | \$108          |
| 325C                                      | 1                 | \$73.88<br>\$81.37    | \$34.41             | \$108          |
| Light Truck - 1.5 Ton                     | 1                 | \$31.13               | \$0.00              | \$31           |
| Totals                                    | ·                 | \$186.38              | \$71.53             | \$257          |
|   |                   | •                     |                     |                |
| B-13 - Grouted Ri                         | •                 |                       |                     |                |
| General Laborer                           | 4                 | \$0.00                | \$117.28            | \$117          |
| Foreman<br>20 Ton Crane                   | 1                 | \$0.00                | \$82.88             | \$82           |
| Totals                                    | 1                 | \$98.00<br>\$98.00    | \$33.30<br>\$233.46 | \$131<br>\$331 |
|   | I                 | \$00.00               | <b>\$200.10</b>     | φοστ           |
| B-14 PVC Dr                               | ain Pipe Installa | ation                 |                     |                |
| Foreman                                   | 1                 | \$0.00                | \$82.88             | \$82           |
| General Laborer                           | 4                 | \$0.00                | \$117.28            | \$117          |
| 420D 4WD Backhoe<br>Light Truck - 1.5 Ton | 1                 | \$42.35<br>\$31.13    | \$34.41<br>\$0.00   | \$76<br>\$31   |
| Totals                                    | '                 | \$73.48               | \$234.57            | \$308          |
| Totalo                                    | l                 | ψ10.40                | Ψ204.07             | φοσο           |
| B-20 - Re                                 | emove Pipelines   | ;                     |                     |                |
| Foreman                                   | 1                 | \$0.00                | \$82.88             | \$82           |
| Skilled Laborer                           | 1                 | \$0.00                | \$32.10             | \$32           |
| General Laborer                           | 1                 | \$0.00                | \$29.32             | \$29           |
| Light Truck - 1.5 Ton  Totals             | 1                 | \$31.13<br>\$31.13    | \$0.00<br>\$144.30  | \$31<br>\$175  |
| Totals                                    |                   | φ51.15                | ψ144.50             | ψ173           |
| B-22A - HDEP In:                          | stallation - Pipe | or Liner              |                     |                |
| Skilled Laborer                           | 1                 | \$0.00                | \$32.10             | \$32           |
| General Laborer                           | 2                 | \$0.00                | \$58.64             | \$58           |
| D7R                                       | 1                 | \$88.37               | \$34.41             | \$122          |
| Light Truck - 1.5 Ton<br>420D 4WD Backhoe | 1                 | \$31.13<br>\$42.35    | \$0.00<br>\$34.41   | \$31<br>\$76   |
| Generator 5KW                             | 1                 | \$12.73               | \$0.00              | \$10<br>\$12   |
| HDEP Welder (pipe or liner)               | 1                 | \$48.27               | \$0.00              | \$48           |
| Totals                                    |                   | \$222.85              | \$159.56            | \$382          |
|   |                   |                       |                     |                |
| D 00 4 In a 4 a                           | II Barbed Wire F  | ence                  |                     |                |
|   |                   |                       |                     |                |
| General Laborer Light Truck - 1.5 Ton     | 3                 | \$0.00<br>\$31.13     | \$87.96<br>\$0.00   | \$87<br>\$31   |

## Closure Cost Estimate Fleets (Crews)

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020
File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety Cost Basis: American Magnesium - Option 1 Revised

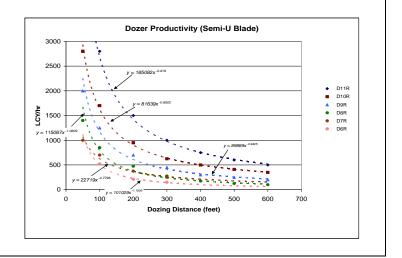
| EQUIPMENT FLEETS                      |                       |                                    |                                      |                           |
|---------------------------------------|-----------------------|------------------------------------|--------------------------------------|---------------------------|
| ACTIVITY AND FLEET                    | Standard<br>Crew Size | EQUIPMENT<br>UNIT COST<br>(Hourly) | TOTAL LABOR<br>UNIT COST<br>(Hourly) | TOTAL<br>COST<br>(Hourly) |
| B-80C - Install Chain Link F          | ence (Flatbed tru     | ıck has small cı                   | rane)                                |                           |
| General Laborer                       | 3                     | \$0.00                             | \$87.96                              | \$87.9                    |
| Light Truck - 1.5 Ton                 | 1                     | \$31.13                            | \$0.00                               | \$31.1                    |
| Totals                                |                       | \$31.13                            | \$87.96                              | \$119.0                   |
| C-14B - Elevated Concrete Sla         | hs (Reinforced (      | Concrete Shaft (                   | Covers)                              |                           |
| Foreman C-14B - Lievated Contrete Sid | 1                     | \$0.00                             | \$82.88                              | \$82.8                    |
| Supervisor's Truck                    | 1                     | \$12.82                            | \$0.00                               | \$12.8                    |
| Carpenter                             | 16                    | \$0.00                             | \$716.48                             | \$716.4                   |
| General Laborer                       | 2                     | \$0.00                             | \$58.64                              | \$58.6                    |
| Rodmen (reinforcing concrete)         | 4                     | \$0.00                             | \$117.28                             | \$117.2                   |
| Cement finisher                       | 2                     | \$0.00                             | \$64.20                              | \$64.2                    |
| Gas Engine Vibrator                   | 1                     | \$5.88                             | \$17.23                              | \$23.1                    |
| Concrete Pump                         | 1                     | \$114.80                           | \$0.00                               | \$114.8                   |
| Totals                                | ·                     | \$133.50                           | \$1,056.71                           | \$1,190.2                 |
|                                       | •                     | ·                                  |                                      |                           |
| C-14D - Concrete Walls Formed in      | Place (Reinforce      | d Concrete Adit                    | : Bulkheads)                         |                           |
| Foreman                               | 1                     | \$0.00                             | \$82.88                              | \$82.8                    |
| Supervisor's Truck                    | 1                     | \$12.82                            | \$0.00                               | \$12.8                    |
| Carpenter                             | 18                    | \$0.00                             | \$806.04                             | \$806.0                   |
| General Laborer                       | 2                     | \$0.00                             | \$58.64                              | \$58.6                    |
| Rodmen (reinforcing concrete)         | 2                     | \$0.00                             | \$58.64                              | \$58.6                    |
| Cement finisher                       | 1                     | \$0.00                             | \$32.10                              | \$32.1                    |
| Gas Engine Vibrator                   | 1                     | \$5.88                             | \$17.23                              | \$23.1                    |
| Concrete Pump                         | 1                     | \$114.80                           | \$0.00                               | \$114.8                   |
| Totals                                |                       | \$133.50                           | \$1,055.53                           | \$1,189.0                 |

8 of 8

### Productivity - Bulldozers

| Dozer Specifications                   |       |       |       |       |       |       |  |  |  |  |  |
|--|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| Description                            | D11R  | D10R  | D9R   | D8R   | D7R   | D6R   |  |  |  |  |  |
| Blade Width (SU) (ft)                  | 18.33 | 15.92 | 14.17 | 12.92 | 12.08 | 10.67 |  |  |  |  |  |
| Shank Guage (3 shanks) (ft)            | 9.83  | 8.67  | 7.67  | 7.08  | 6.5   | 6.5   |  |  |  |  |  |
| Pocket Spacing (ft)                    | 4.75  | 4.33  | 3.87  | 3.58  | 3.25  | 3.25  |  |  |  |  |  |
| Ripping Width (Ripper + 1 Pocket) (ft) | 14.58 | 13    | 11.54 | 10.66 | 9.75  | 9.75  |  |  |  |  |  |
| Ripping Speed (mph)                    | 1     | 1     | 1     | 1     | 1     | 1     |  |  |  |  |  |
| Ripping Maneuver (turn) Time (min)     | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  |  |  |  |  |  |
| Altitude Deration Factor               | 1     | 1     | 1     | 1     | 1     | 1     |  |  |  |  |  |
| Ripping Hourly Production (excluding   |       |       |       |       |       |       |  |  |  |  |  |
| maneuvering time) (ft)                 | 5,280 | 5,280 | 5,280 | 5,280 | 5,280 | 5,280 |  |  |  |  |  |

| _                                       | Production (LCY/hr)                  |         |         |                    |                |            |  |  |  |  |
|---|--------------------------------------|---------|---------|--------------------|----------------|------------|--|--|--|--|
| Average<br>Dozing<br>Distance<br>(feet) | D11R                                 | D10R    | D9R     | D8R                | D7R            | D6R        |  |  |  |  |
| 50                                      | 4,800                                | 2,800   | 2,000   | 1,400              | 1,000          |            |  |  |  |  |
| 100                                     | 2,800                                | 1,700   | 1,250   | 850                | 700            | 520        |  |  |  |  |
| 200                                     | 1,500                                | 950     | 700     | 475                | 375            | 210        |  |  |  |  |
| 300                                     | 1,000                                | 625     | 450     | 275                | 250            | 150        |  |  |  |  |
| 400                                     | 750                                  | 500     | 300     | 175                |                |            |  |  |  |  |
| 500                                     | 600                                  | 410     | 250     | 125                |                |            |  |  |  |  |
| 600                                     | 500                                  | 350     | 200     | 100                |                |            |  |  |  |  |
|   | y = k x Dozing Distance <sup>p</sup> |         | Source: | Caterpillar Perfor | mance Handbook | Edition 35 |  |  |  |  |
| (see grap                               |                                      |         |         |                    |                |            |  |  |  |  |
|   | c = 185082                           | 81639   | 89889   | 115087             | 22719          | 101029     |  |  |  |  |
|   | 0 = -0.919                           | -0.8502 | -0.9425 | -1.0809            | -0.7796        | -1.1506    |  |  |  |  |



### Productivity - Bulldozers (cont.)

| % Grade vs. Dozing Factor              |                         |  |  |  |  |  |  |  |
|--|-------------------------|--|--|--|--|--|--|--|
| % Grade                                | Dozing Factor           |  |  |  |  |  |  |  |
| -30                                    | 1.6                     |  |  |  |  |  |  |  |
| -20                                    | 1.4                     |  |  |  |  |  |  |  |
| -10                                    | 1.2                     |  |  |  |  |  |  |  |
| 0                                      | 1                       |  |  |  |  |  |  |  |
| 10                                     | 8.0                     |  |  |  |  |  |  |  |
| 20                                     | 0.55                    |  |  |  |  |  |  |  |
| 30                                     | 0.3                     |  |  |  |  |  |  |  |
|  |                         |  |  |  |  |  |  |  |
| Source: Caterpillar Performa           | nce Handbook Edition 35 |  |  |  |  |  |  |  |
| % Grade Dozing Factor =<br>(see graph) | -0.0214x + 0.9786       |  |  |  |  |  |  |  |

| Job Condition Correction Factor             | ors - Bulldozers         |
|---|--------------------------|
| OPERATOR                                    |                          |
| Average                                     | 0.75                     |
| MATERIAL (1)                                | •                        |
| Loose stockpile                             | 1.2                      |
| Normal                                      | 1                        |
| Hard to cut; frozen —                       |                          |
| with tilt cylinder                          | 0.8                      |
| Hard to drift; "dead" (dry,non-cohesive     |                          |
| material) or very sticky material           | 0.8                      |
| Rock, ripped or blasted                     | 0.6                      |
| SLOT DOZING OR SIDE BY SIDE (1)             | 1.2                      |
| VISIBILITY                                  |                          |
| Good conditions                             | 1                        |
| JOB EFFICIENCY                              |                          |
| 50 min/hr                                   | 0.83                     |
| (1) Selected in facility worksheets         |                          |
| Other factors included as standard factors. |                          |
| Source: Caterpillar Perform                 | ance Handbook Edition 35 |

| Material                              | lb/cy | kg/m³ |
|---------------------------------------|-------|-------|
| Alluvium                              | 2,900 | 1,720 |
| Basalt                                | 3,300 | 1,960 |
| Clay - Dry                            | 2,500 | 1,480 |
| Granite - broken                      | 2,800 | 1,660 |
| Gravel                                | 2,550 | 1,510 |
| LS - broken                           | 2,600 | 1,540 |
| LS - crushed                          | 2,600 | 1,540 |
| Sandstone                             | 2,550 | 1,510 |
| Shale                                 | 2,100 | 1,250 |
| Stone - crushed                       | 2,700 | 1,600 |
| Tailings - Coarse (dry, loose sand)   | 2,400 | 1,420 |
| Tailings - Slimes (loose sand & clay) | 2,700 | 1,600 |
| Topsoil                               | 1,600 | 950   |

Note: uses Sand & Gravel - Dry from Caterpillar Handbook

### Productivity - Scrapers

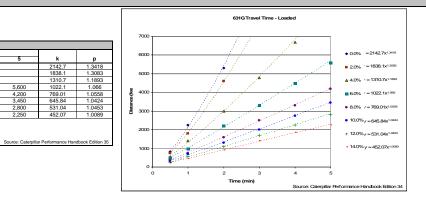
| Scraper Specifications |   |  |  |  |  |  |  |  |
|------------------------|---|--|--|--|--|--|--|--|
| 631G                   | 637G  |  |  |  |  |  |  |  |
| 100,600                | 112,760   |  |  |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |  |
| 24                     | 24  |  |  |  |  |  |  |  |
| 34                     | 34  |  |  |  |  |  |  |  |
| 29                     | 29  |  |  |  |  |  |  |  |
| One D10R               | Self*   |  |  |  |  |  |  |  |
| 1                      | 1   |  |  |  |  |  |  |  |
| 1                      | 1   |  |  |  |  |  |  |  |
| 1                      | 1   |  |  |  |  |  |  |  |
| 3                      | 3   |  |  |  |  |  |  |  |
| 1                      | 1   |  |  |  |  |  |  |  |
|                        | 631G<br>100,600<br>24<br>34<br>29<br>One D10R<br>1<br>1 |  |  |  |  |  |  |  |

\* Requires pair

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

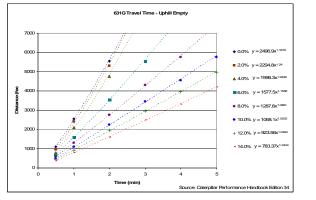
|                                       |                                  |              |                        | Downhill Scraper Speed - Grade Retarding vs. Effect |    |      |      |      |                           | (Grade - R | olling Res | istance)          |              |                |
|---------------------------------------|----------------------------------|--------------|------------------------|---|----|------|------|------|---------------------------|------------|------------|-------------------|--------------|----------------|
| Weight of M                           | Weight of Materials 631G 637G PP |              |                        |   |    |      |      | 631G |                           |            |            |                   |              |                |
| Material                              | lb/cy                            | Scraper Load | Loaded<br>Weight (lbs) | 22  | 16 | 10   | 5    | 1    | Loaded<br>Weight<br>(lbs) | 25         | 15         | 10                | 5            | 1              |
| Alluvium                              | 2,900                            | 84,100       | 184,700                | 7.5   | 10 | 13   | 33   | 33   | 196,860                   | 7          | 10         | 18.5              | 34           | 34             |
| Basalt                                | 3,300                            | 95,700       | 196,300                | 7.5   | 10 | 13   | 24.5 | 33   | 208,460                   | 7          | 10         | 18.5              | 25           | 34             |
| Clay - Dry                            | 2,500                            | 72,500       | 173,100                | 7.5   | 10 | 13   | 33   | 33   | 185,260                   | 7          | 10         | 18.5              | 34           | 34             |
| Granite - broken                      | 2,800                            | 81,200       | 181,800                | 7.5   | 10 | 13   | 33   | 33   | 193,960                   | 7          | 10         | 18.5              | 34           | 34             |
| Gravel                                | 2,550                            | 73,950       | 174,550                | 7.5   | 10 | 13   | 33   | 33   | 186,710                   | 7          | 10         | 18.5              | 34           | 34             |
| LS - broken                           | 2,600                            | 75,400       | 176,000                | 7.5   | 10 | 13   | 33   | 33   | 188,160                   | 7          | 10         | 18.5              | 34           | 34             |
| LS - crushed                          | 2,600                            | 75,400       | 176,000                | 7.5   | 10 | 13   | 33   | 33   | 188,160                   | 7          | 10         | 18.5              | 34           | 34             |
| Sandstone                             | 2,550                            | 73,950       | 174,550                | 7.5   | 10 | 13   | 33   | 33   | 186,710                   | 7          | 10         | 18.5              | 34           | 34             |
| Shale                                 | 2,100                            | 60,900       | 161,500                | 7.5   | 10 | 18   | 33   | 33   | 173,660                   | 10         | 13.5       | 18.5              | 34           | 34             |
| Stone - crushed                       | 2,700                            | 78,300       | 178,900                | 7.5   | 10 | 13   | 33   | 33   | 191,060                   | 7          | 10         | 18.5              | 34           | 34             |
| Tailings - Coarse (dry, loose sand)   | 2,400                            | 69,600       | 170,200                | 7.5   | 10 | 13   | 33   | 33   | 182,360                   | 7          | 10         | 18.5              | 34           | 34             |
| Tailings - Slimes (loose sand & clay) | 2,700                            | 78,300       | 178,900                | 7.5   | 10 | 13   | 33   | 33   | 191,060                   | 7          | 10         | 18.5              | 34           | 34             |
| Topsoil                               | 1,600                            | 46,400       | 147,000                | 7.5   | 10 | 18   | 33   | 33   | 159,160                   | 10         | 13.5       | 18.5              | 34           | 34             |
|                                       |                                  |              | Empty                  | 10  | 18 | 24.5 | 33   | 33   | Empty                     | 10         | 13.5       | 18.5              | 34           | 34             |
|                                       |                                  |              |                        |   |    |      |      |      |                           |            | Source: C  | aterpillar Perfor | mance Handbo | ook Edition 34 |

#### 631G Scraper Travel Time - Uphill Loaded Total Resistance (%) (rolling + grade) 2142.7 1838.1 1310.7 1022.1 769.01 645.84 531.04 452.07 825 750 550 2,250 1,800 5,300 4,600 1.3418 3,000 2,200 1,600 1,300 1,100 6,700 4,500 3,300 2,750 2,250 1,850 1.1893 490 375 300 1,000 750 700 3,300 2,500 2,000 1,700 1,400 5,600 4,200 3,450 2,800 2,250 1.066 1.0558 1.0424 1.0453 1.0089 250 225 550 450 900 distance



| Total Resistance (%) |       | Time (min) |       |       |       |       |        |  |  |
|----------------------|-------|------------|-------|-------|-------|-------|--------|--|--|
| (rolling + grade)    | 0.5   | 1          | 2     | 3     | 4     | 5     | k      |  |  |
| 0                    | 1,100 | 2,550      | 5,550 |       |       |       | 2496.9 |  |  |
| 2                    | 950   | 2,400      | 5,300 |       |       |       | 2294.8 |  |  |
| 4                    | 800   | 2,100      | 4,750 |       |       |       | 1998.3 |  |  |
| 6                    | 700   | 1,600      | 3,550 | 5,550 |       |       | 1557.5 |  |  |
| 8                    | 600   | 1,300      | 2,750 | 4,300 | 5,750 |       | 1287.8 |  |  |
| 10                   | 500   | 1,100      | 2,250 | 3,450 | 4,550 | 5,750 | 1068.1 |  |  |
| 12                   | 450   | 900        | 1,950 | 2,950 | 3,950 | 4,950 | 923.56 |  |  |
| 14                   | 375   | 800        | 1,600 | 2,500 | 3,300 | 4,200 | 783.37 |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{3}{k}}$ Source: Caterpillar Performance Handbook Edition 35



Productivity - Scrapers (cont.)

Travel Time (min) =

k

### Productivity - Scrapers (cont.)

| Total Resistance (%) |       |       | Time (mi | n)    |       |       |        |       |
|----------------------|-------|-------|----------|-------|-------|-------|--------|-------|
| (rolling + grade)    | 0.5   | 1     | 2        | 3     | 4     | 5     | k      | р     |
| 0                    | 1,000 | 2,500 | 5,550    |       |       |       | 2402.9 | 1.236 |
| 2                    | 850   | 2,200 | 5,150    |       |       |       | 2127.6 | 1.299 |
| 4                    | 700   | 1,700 | 3,900    | 6,250 |       |       | 1659.4 | 1.22  |
| 6                    | 600   | 1,300 | 2,750    | 4,300 | 5,750 |       | 1287.8 | 1.08  |
| 8                    | 500   | 1,100 | 2,200    | 3,300 | 4,500 | 5,600 | 1059.1 | 1.04  |
| 10                   | 400   | 850   | 1,750    | 2,700 | 3,600 | 4,475 | 839.89 | 1.05  |
| 12                   | 375   | 750   | 1,500    | 2,300 | 3,000 | 3,800 | 751.58 | 1.00  |
| 14                   | 275   | 600   | 1,300    | 2,000 | 2,650 | 3,250 | 595.28 | 1.079 |

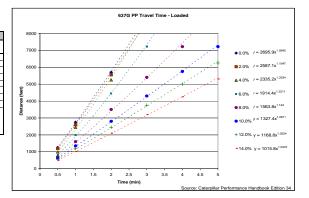
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

|                   | 637G PP Travel Time - Loaded |                                       |
|-------------------|------------------------------|---------------------------------------|
| 8000 T            |                              |                                       |
| 7000              |                              |                                       |
| 6000              |                              | ■ 2.0% y = 2127.6x <sup>1.2865</sup>  |
| 5000              |                              | ▲ 4.0% y = 1659.4x1.2212              |
| 99)<br>900 4000 - |                              | 6.0% y=1287.8x1.0001                  |
|                   |                              | • 8.0% y = 1059.1x1.0421              |
| 3000              |                              | • 10.0% y = 839.89x1.0503             |
| 2000              |                              | + 12.0% y = 751.58x1.0005             |
| 1000              | # 10 (                       | - 14.0% y = 595.28x <sup>1.0794</sup> |
| ۰                 | 1 2 3 4 5                    |                                       |
|                   | Time (min)                   | formance Handbook Edition 34          |

| 03/G F | ush-Pull Scrap                                    | er Travel Tir   | ne - Uphill E   | mpty  |  |  |  |
|--------|---|---|---|---|--|--|--|
|        |   | Time (mi  | n)  |   |  |  |  |
| 0.5    | 1   | 2   | 3   | 4   | 5  | k  | р  |
| 1,250  | 2,750   | 5,700   |   |   |  | 2695.9   | 1.0945   |
| 1,200  | 2,600   | 5,550   |   |   |  | 2587.1   | 1.1047   |
| 990    | 2,450   | 5,250   |   |   |  | 2335.2   | 1.0234   |
| 800    | 2,000   | 4,450   | 7,216   |   |  | 1914.4   | 1.2211   |
| 700    | 1,600   | 3,500   | 5,400   | 7,216   |  | 1563.8   | 1.124  |
| 625    | 1,350   | 2,800   | 4,300   | 5,750   | 7,216  | 1327.4   | 1.0611   |
| 550    | 1,200   | 2,450   | 3,750   | 5,000   | 6,250  | 1168.8   | 1.0524   |
| 495    | 1,010   | 2,100   | 3,200   | 4,250   | 5,300  | 1015.8   | 1.0337   |
|        | 1,250<br>1,200<br>990<br>800<br>700<br>625<br>550 | 1,250         2,750           1,200         2,600           990         2,450           800         2,000           700         1,600           625         1,350           550         1,200 | 0.5         1         2           1.250         2.750         5.700           1.200         2.600         5.550           990         2.450         5.250           800         2.000         4.450           700         1,600         3.500           625         1,350         2,800           550         1,200         2,450 | 1.250         2.750         5.700           1.200         2.800         5.550           980         2.450         5.250           800         2.000         4.450         7.216           700         1.600         3.500         5.400           625         1.350         2.800         4.300           550         1.200         2.450         3,750 | 0.5         1         2         3         4           1.250         2.750         5.700         1.200         2.600         5.550           1.200         2.600         5.550         7.216         600         2.600         5.250         7.216         600         2.000         4.450         7.216< | 0.5         1         2         3         4         5           1.250         2.750         5.700         1.200         2.600         5.550         1.200         2.600         5.550         1.200         2.600         5.550         1.200         1.200         2.600         5.250         1.200         1. | 0.5         1         2         3         4         5         k           1.250         2.750         5.700         5         2695.9           1.200         2.500         5.550         2587.1           990         2.450         5.250         2287.1           800         2.000         4.450         7.216         1914.4           700         1.600         3.500         5.400         7.216         1563.8           625         1.350         2.800         4.300         5.750         7.216         1327.4           550         1.200         2.450         3.750         5.000         6.250         1168.8 |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 



### Productivity - Haul Trucks

|                              | Haul 1 | Truck Specifica | ations  |         |         |         |
|------------------------------|--------|-----------------|---------|---------|---------|---------|
| Description                  | 769D   | 773E            | 777D    | 785C    | 793C    | 797B    |
| Chassis Weight (lb)          | 53,506 | 70,330          | 113,160 | 170,000 | 259,500 | 473,600 |
| Body Weight (lb)             | 17,350 | 20,300          | 34,785  | 36,788  | 70,785  | 104,200 |
| Standard Liner Weight (lb)   | 7,000  | 8,600           | 12,040  | 16,846  | 24,418  | 8,800   |
| Total Truck Weight (lb)      | 77,856 | 99,230          | 159,985 | 223,634 | 354,703 | 586,600 |
| Payload Capacity (cy)        |        |                 |         |         |         |         |
| Struck                       | 21.6   | 34.8            | 55      | 78.5    | 126     | 228     |
| Heaped                       | 31.7   | 46              | 78.6    | 102     | 169     | 290     |
| Average                      | 26.65  | 40.4            | 66.8    | 90.25   | 147.5   | 259     |
| Maneuver to Load Time (min)  | 0.7    | 0.7             | 0.7     | 0.7     | 0.7     | 0.7     |
| Maneuver and Dump Time (min) | 1.1    | 1.1             | 1.1     | 1.1     | 1.1     | 1.1     |
| Job Efficiency               | 0.83   | 0.83            | 0.83    | 0.83    | 0.83    | 0.83    |
| Rolling Resistance**         | 2.5    | 2.5             | 2.5     | 2.5     | 2.5     | 2.5     |
| Altitude Deration Factor     | 1      | 1               | 1       | 1       | 1       | 1       |
|                              |        |                 |         | 1       | l       | 1       |

"A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

|                                       | Webster (Webster College |                         |                         |                         |                        |    | Downhil | l Haul Truck | Speed - C | Grade Reta                | rding vs. E | Effective G | rade (Gra | de - Rolli | ing Resis       | ance) |    |    |    |
|---------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|------------------------|----|---------|--------------|-----------|---------------------------|-------------|-------------|-----------|------------|-----------------|-------|----|----|----|
|                                       | Weight of Mater          | rials                   |                         |                         |                        |    | 769D    |              |           |                           |             | 773E        |           |            |                 | 777D  |    |    |    |
| Material                              | lb/cy                    | Truck (769D)<br>Load lb | Truck (773E)<br>Load lb | Truck (777D)<br>Load Ib | Loaded<br>Weight (lbs) | 20 | 15      | 10           | 5         | Loaded<br>Weight<br>(lbs) | 20          | 15          | 10        | 5          | Weight<br>(lbs) | 20    | 15 | 10 | 5  |
| Alluvium                              | 2,900                    | 77,285                  | 117,160                 | 193,720                 | 155,141                | 11 | 11      | 15           | 26        | 216,390                   | 7           | 7           | 13        | 23         | 353,705         | 7     | 9  | 12 | 29 |
| Basalt                                | 3,300                    | 87,945                  | 133,320                 | 220,440                 | 165,801                | 11 | 11      | 11           | 20        | 232,550                   | 7           | 7           | 13        | 23         | 380,425         | 7     | 7  | 12 | 21 |
| Clay - Dry                            | 2,500                    | 66,625                  | 101,000                 | 167,000                 | 144,481                | 11 | 11      | 15           | 26        | 200,230                   | 7           | 9           | 13        | 23         | 326,985         | 7     | 9  | 16 | 29 |
| Granite - broken                      | 2,800                    | 74,620                  | 113,120                 | 187,040                 | 152,476                | 11 | 11      | 15           | 26        | 212,350                   | 7           | 7           | 13        | 23         | 347,025         | 7     | 9  | 12 | 29 |
| Gravel                                | 2,550                    | 67,958                  | 103,020                 | 170,340                 | 145,814                | 11 | 11      | 15           | 26        | 202,250                   | 7           | 9           | 13        | 23         | 330,325         | 7     | 9  | 16 | 29 |
| LS - broken                           | 2,600                    | 69,290                  | 105,040                 | 173,680                 | 147,146                | 11 | 11      | 15           | 26        | 204,270                   | 7           | 9           | 13        | 23         | 333,665         | 7     | 9  | 12 | 29 |
| LS - crushed                          | 2,600                    | 69,290                  | 105,040                 | 173,680                 | 147,146                | 11 | 11      | 15           | 26        | 204,270                   | 7           | 9           | 13        | 23         | 333,665         | 7     | 9  | 12 | 29 |
| Sandstone                             | 2,550                    | 67,958                  | 103,020                 | 170,340                 | 145,814                | 11 | 11      | 15           | 26        | 202,250                   | 7           | 9           | 13        | 23         | 330,325         | 7     | 9  | 16 | 29 |
| Shale                                 | 2,100                    | 55,965                  | 84,840                  | 140,280                 | 133,821                | 11 | 11      | 15           | 26        | 184,070                   | 7           | 9           | 13        | 31         | 300,265         | 7     | 9  | 16 | 29 |
| Stone - crushed                       | 2,700                    | 71,955                  | 109,080                 | 180,360                 | 149,811                | 11 | 11      | 15           | 26        | 208,310                   | 7           | 7           | 13        | 23         | 340,345         | 7     | 9  | 12 | 29 |
| Tailings - Coarse (dry, loose sand)   | 2,400                    | 63,960                  | 96,960                  | 160,320                 | 141,816                | 11 | 11      | 15           | 26        | 196,190                   | 7           | 9           | 13        | 23         | 320,305         | 7     | 9  | 16 | 29 |
| Tailings - Slimes (loose sand & clay) | 2,700                    | 71,955                  | 109,080                 | 180,360                 | 149,811                | 11 | 11      | 15           | 26        | 208,310                   | 7           | 7           | 13        | 23         | 340,345         | 7     | 9  | 12 | 29 |
| Topsoil                               | 1,600                    | 42,640                  | 64,640                  | 106,880                 | 120,496                | 11 | 11      | 15           | 26        | 163,870                   | 7           | 9           | 17        | 31         | 266,865         | 9     | 12 | 16 | 29 |
|                                       |                          |                         | •                       |                         | Empty                  | 15 | 15      | 26           | 36        | Empty                     | 13          | 17          | 23        | 42         | Empty           | 16    | 16 | 29 | 39 |

|                                       |                 |                         |                         |                         |                        |    | Downhil | l Haul Truck | Speed - C | Grade Retarding vs. Effective Grade (Grade - Rolling Resistance) |    |      |    |    |                 |             |                |               |               |
|---------------------------------------|-----------------|-------------------------|-------------------------|-------------------------|------------------------|----|---------|--------------|-----------|--|----|------|----|----|-----------------|-------------|----------------|---------------|---------------|
|                                       | Weight of Mater | rials                   |                         |                         |                        |    | 785C    |              |           |  |    | 793C |    |    |                 |             | 797B           |               |               |
| Material                              | lb/cy           | Truck (785C)<br>Load lb | Truck (793C)<br>Load lb | Truck (797B)<br>Load Ib | Loaded<br>Weight (lbs) | 20 | 15      | 10           | 5         | Loaded<br>Weight<br>(lbs)  | 20 | 15   | 10 | 5  | Weight<br>(lbs) | 20          | 15             | 10            | 5             |
| Alluvium                              | 2,900           | 261,725                 | 427,750                 | 751,100                 | 485,359                | 8  | 8       | 14           | 27        | 782,453  | 7  | 7    | 10 | 17 | 1,337,700       | 7           | 7              | 9             | 17            |
| Basalt                                | 3,300           | 297,825                 | 486,750                 | 854,700                 | 521,459                | 8  | 8       | 14           | 27        | 841,453  | 7  | 7    | 10 | 17 | 1,441,300       | 7           | 7              | 9             | 17            |
| Clay - Dry                            | 2,500           | 225,625                 | 368,750                 | 647,500                 | 449,259                | 8  | 11      | 14           | 36        | 723,453  | 7  | 7    | 10 | 25 | 1,234,100       | 7           | 7              | 9             | 23            |
| Granite - broken                      | 2,800           | 252,700                 | 413,000                 | 725,200                 | 476,334                | 8  | 8       | 14           | 27        | 767,703  | 7  | 7    | 10 | 17 | 1,311,800       | 7           | 7              | 9             | 17            |
| Gravel                                | 2,550           | 230,138                 | 376,125                 | 660,450                 | 453,772                | 8  | 8       | 14           | 36        | 730,828  | 7  | 7    | 10 | 25 | 1,247,050       | 7           | 7              | 9             | 23            |
| LS - broken                           | 2,600           | 234,650                 | 383,500                 | 673,400                 | 458,284                | 8  | 8       | 14           | 27        | 738,203  | 7  | 7    | 10 | 25 | 1,260,000       | 7           | 7              | 9             | 23            |
| LS - crushed                          | 2,600           | 234,650                 | 383,500                 | 673,400                 | 458,284                | 8  | 8       | 14           | 27        | 738,203  | 7  | 7    | 10 | 25 | 1,260,000       | 7           | 7              | 9             | 23            |
| Sandstone                             | 2,550           | 230,138                 | 376,125                 | 660,450                 | 453,772                | 8  | 8       | 14           | 36        | 730,828  | 7  | 7    | 10 | 25 | 1,247,050       | 7           | 7              | 9             | 23            |
| Shale                                 | 2,100           | 189,525                 | 309,750                 | 543,900                 | 413,159                | 8  | 11      | 14           | 36        | 664,453  | 7  | 7    | 10 | 25 | 1,130,500       | 7           | 7              | 13            | 23            |
| Stone - crushed                       | 2,700           | 243,675                 | 398,250                 | 699,300                 | 467,309                | 8  | 8       | 14           | 27        | 752,953  | 7  | 7    | 10 | 17 | 1,285,900       | 7           | 7              | 9             | 23            |
| Tailings - Coarse (dry, loose sand)   | 2,400           | 216,600                 | 354,000                 | 621,600                 | 440,234                | 8  | 11      | 14           | 36        | 708,703  | 7  | 7    | 10 | 25 | 1,208,200       | 7           | 7              | 9             | 23            |
| Tailings - Slimes (loose sand & clay) | 2,700           | 243,675                 | 398,250                 | 699,300                 | 467,309                | 8  | 8       | 14           | 27        | 752,953  | 7  | 7    | 10 | 17 | 1,285,900       | 7           | 7              | 9             | 23            |
| Topsoil                               | 1,600           | 144,400                 | 236,000                 | 414,400                 | 368,034                | 8  | 11      | 19           | 36        | 590,703  | 7  | 10   | 13 | 25 | 1,001,000       | 7           | 9              | 13            | 23            |
|                                       |                 |                         |                         |                         | Empty                  | 14 | 19      | 36           | 36        | Empty  | 10 | 13   | 17 | 33 | Empty           | 13          | 17             | 23            | 42            |
|                                       |                 |                         |                         |                         |                        |    |         |              |           |  |    |      |    |    | s               | ource: Cate | rpillar Perfor | mance Handboo | ok Edition 35 |

### Productivity - Haul Trucks (cont.)

| 769D Haul Truck Travel Time - Uphill Loaded |       |                   |       |       |       |       |        |        |  |  |  |  |  |  |
|---|-------|-------------------|-------|-------|-------|-------|--------|--------|--|--|--|--|--|--|
| Total Resistance (%)                        |       |                   |       |       |       |       |        |        |  |  |  |  |  |  |
| (rolling + grade)                           | 0.4   | 0.4 1 2 3 4 5 k p |       |       |       |       |        |        |  |  |  |  |  |  |
| 0   | 1,148 | 3,428             | 7,183 |       |       |       | 3316.3 | 1.1422 |  |  |  |  |  |  |
| 4   | 689   | 1,984             | 4,198 | 6,330 |       |       | 1928.3 | 1.1033 |  |  |  |  |  |  |
| 6   | 508   | 1,427             | 2,952 | 4,510 | 6,002 |       | 1386.4 | 1.0725 |  |  |  |  |  |  |
| 8   | 394   | 1,082             | 2,263 | 3,411 | 4,592 | 5,740 | 1061.8 | 1.06   |  |  |  |  |  |  |
| 10  | 328   | 869               | 1,771 | 2,690 | 3,608 | 4,510 | 857.82 | 1.0373 |  |  |  |  |  |  |
| 15  | 213   | 574               | 1,181 | 1,804 | 2,394 | 3,018 | 565    | 1.0482 |  |  |  |  |  |  |
|   | •     | •                 |       |       |       |       |        |        |  |  |  |  |  |  |

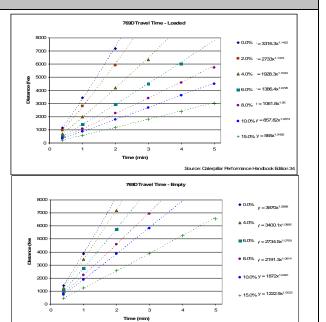
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

|                      | 76    | 9D Haul Truck | Travel Time | · obuin Emb | Ly    |       |        |        |
|----------------------|-------|---------------|-------------|-------------|-------|-------|--------|--------|
| Total Resistance (%) |       |               | Time (mi    | n)          |       |       |        |        |
| (rolling + grade)    | 0.4   | 1             | 2           | 3           | 4     | 5     | k      | р      |
| 0                    | 1,427 | 3,870         |             |             |       |       | 3870   | 1.0888 |
| 4                    | 1,246 | 3,444         | 7,183       |             |       |       | 3400.1 | 1.0895 |
| 6                    | 1,017 | 2,755         | 5,740       |             |       |       | 2734.5 | 1.0759 |
| 8                    | 820   | 2,230         | 4,592       | 6,954       |       |       | 2191.3 | 1.0614 |
| 10                   | 722   | 1,870         | 3,870       | 5,838       |       |       | 1872   | 1.0391 |
| 15                   | 459   | 1,246         | 2,558       | 3,903       | 5,248 | 6,560 | 1222.9 | 1.0523 |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Catemillar Performance Handbook Edition



### Productivity - Haul Trucks (cont.)

|                      | 7731  | E Haul Truck T | ravel Time - | Uphill Loade | ed    |       |        |        |  |  |  |  |
|----------------------|-------|----------------|--------------|--------------|-------|-------|--------|--------|--|--|--|--|
| Total Resistance (%) |       |                | Time (mi     | n)           |       |       |        |        |  |  |  |  |
| (rolling + grade)    | 0.4   |                |              |              |       |       |        |        |  |  |  |  |
| 0                    | 1,066 | 3,117          | 6,496        |              |       |       | 3027.4 | 1.1254 |  |  |  |  |
| 4                    | 656   | 1,952          | 4,035        | 6,168        |       |       | 1863.1 | 1.1109 |  |  |  |  |
| 6                    | 492   | 1,312          | 2,756        | 4,167        | 5,577 | 6,955 | 1304.2 | 1.0507 |  |  |  |  |
| 8                    | 394   | 1,017          | 2,100        | 3,182        | 4,265 | 5,315 | 1018.2 | 1.0326 |  |  |  |  |
| 10                   | 328   | 853            | 1,804        | 2,690        | 3,609 | 4,528 | 856.36 | 1.041  |  |  |  |  |
| 15                   | 226   | 525            | 1,083        | 1,673        | 2,231 | 2,789 | 549.25 | 1.0038 |  |  |  |  |

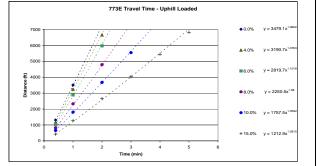
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

|                     | 7                  | 773E Travel Ti  | me - Uphil        | Loaded |   |        |                              |
|---------------------|--------------------|-----------------|-------------------|--------|---|--------|------------------------------|
| 7000                | 4                  |                 |                   |        |   | ♦0.0%  | y = 3027.4x <sup>1.125</sup> |
| 6000                | <del></del>        | <b>_</b>        |                   | ,•     |   | ▲4.0%  | y = 1863.1x <sup>1.110</sup> |
| \$ 4000             | 11                 |                 |                   |        |   | ■6.0%  | y = 1304.2x <sup>1.056</sup> |
| 3000 - Gistance (t) | <del>- / / -</del> |                 | , et <sup>®</sup> | *      |   | ●8.0%  | y = 1018.2x <sup>1.03</sup>  |
| 2000                |                    |                 | +                 |        |   | •10.0% | y = 856.36x <sup>1.0</sup>   |
| 1000                |                    |                 |                   |        |   | +15.0% | y = 549.25x <sup>1.00</sup>  |
| 0                   | 1 2                | 3<br>Time (min) | 4                 | 5      | 6 |        |                              |

|                      | 773E Haul Truck Travel Time - Uphill Empty |       |          |       |       |       |        |        |  |  |
|----------------------|--|-------|----------|-------|-------|-------|--------|--------|--|--|
| Total Resistance (%) |  |       | Time (mi | n)    |       |       |        |        |  |  |
| (rolling + grade)    | 0.4  | 1     | 2        | 3     | 4     | 5     | k      | р      |  |  |
| 0                    | 1,312                                      | 3,510 | 7,218    |       |       |       | 3479.1 | 1.0602 |  |  |
| 4                    | 1,181                                      | 3,248 | 6,660    |       |       |       | 3190.7 | 1.0763 |  |  |
| 6                    | 1,017                                      | 2,887 | 5,971    |       |       |       | 2819.7 | 1.1018 |  |  |
| 8                    | 820  | 2,329 | 4,790    | 7,218 |       |       | 2250.5 | 1.08   |  |  |
| 10                   | 656  | 1,804 | 3,675    | 5,545 |       |       | 1757.5 | 1.0592 |  |  |
| 15                   | 427  | 1,280 | 2,657    | 4,035 | 5,446 | 6,824 | 1212.9 | 1.0915 |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{r}}$ 



### Productivity - Haul Trucks (cont.)

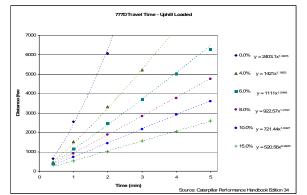
|                      | 777 | D Haul Truck T | ravel Time - | Uphill Loade | ed    |       |        |        |
|----------------------|-----|----------------|--------------|--------------|-------|-------|--------|--------|
| Total Resistance (%) |     |                | Time (mi     | n)           |       |       |        |        |
| (rolling + grade)    |     |                |              |              |       |       |        |        |
| 0                    | 656 | 2,558          | 6,068        |              |       |       | 2403.1 | 1.3876 |
| 4                    | 459 | 1,509          | 3,313        | 5,215        | 7,085 |       | 1412   | 1.1863 |
| 6                    | 394 | 1,148          | 2,460        | 3,706        | 5,018 | 6,298 | 1111   | 1.0949 |
| 8                    |     | 918            | 1,886        | 2,837        | 3,772 | 4,756 | 922.57 | 1.0197 |
| 10                   |     | 722            | 1,443        | 2,165        | 2,919 | 3,608 | 721.44 | 1.0027 |
| 15                   |     | 525            | 1,017        | 1,558        | 2,034 | 2,591 | 520.56 | 0.9905 |

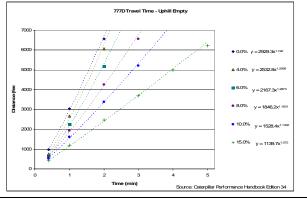
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

| Total Resistance (%) |     |       | Time (mi | n)    |       |       |        |        |
|----------------------|-----|-------|----------|-------|-------|-------|--------|--------|
| (rolling + grade)    | 0.4 | k     | р        |       |       |       |        |        |
| 0                    | 968 | 3,034 | 6,560    |       |       |       | 2929.3 | 1.192  |
| 4                    | 754 | 2,657 | 6,068    |       |       |       | 2532.8 | 1.2999 |
| 6                    | 656 | 2,247 | 5,182    |       |       |       | 2167.3 | 1.2873 |
| 8                    | 607 | 1,935 | 4,248    | 6,560 |       |       | 1846.2 | 1.1831 |
| 10                   | 525 | 1,607 | 3,378    | 5,215 | 7,282 |       | 1528.4 | 1.1332 |
| 15                   | 410 | 1,197 | 2,460    | 3,706 | 4,986 | 6,232 | 1139.7 | 1.072  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 





#### Productivity - Haul Trucks (cont.) 785C Travel Time - Uphill Loaded 785C Haul Truck Travel Time - Uphill Loaded El Time - C, Time (min) 2 5,500 3,370 2,180 1,610 4 400 Total Resistance (%) ♦0.0% y = 2491.1x<sup>1.1872</sup> (rolling + grade) 2491.1 1524.4 923 719.64 820 530 300 240 2,630 1,600 1,000 790 ./i 5,040 3,270 2,480 1.1206 1.1469 1.1233 ▲ 4.0% y = 1524.4x<sup>1.120</sup> 4,400 3,380 5,570 4,200 500 630 370 1,400 770 2,180 1,200 2,920 1,590 3,650 2,000 590.43 227.29 1.1678 1.4863 190 40 ■6.0% y = 923x<sup>1.1409</sup> ● 8.0% y = 719.64x<sup>1.12</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 2000 ●10.0% y = 590.43x<sup>1.16</sup> Source: Caterpillar Performance Handbook Edition 35 + 15.0% y = 227.29x<sup>1.46</sup> 785C Travel Time - Uphill Empty 785C Haul Truck Travel Time - Uphill Empty rotal Resistance (%) (rolling + grade) 7000 Time (min) 0.4 k 8 p 3032.7 0.8852 2785.5 0.9264 2542.3 0.9645 2074.4 0.9446 1780.8 0.9606 1073.1 1.0209 5,780 5,400 5,020 4,000 1,380 1,210 1,060 900 2,870 2,690 2,490 1,960 ◆0.00% y = 3032.7x<sup>0.885</sup> 6,000 ▲4.00% y = 2785.5x<sup>0.92</sup> 1,670 1,030 3,410 2,200 5,190 3,320 6,910 4,410 ■6.00% y = 2542.3x<sup>0.96</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\nu}}$ 8.00% y = 2074.4x<sup>0.9</sup> Source: Caterpillar Performance Handbook Edition 35 • 10.00% y = 1780.8x<sup>0.960</sup> +15.00% y = 1073.1x<sup>1.020</sup> Time (min)

### Productivity - Haul Trucks (cont.)

|                      | 793C Haul Truck Travel Time - Uphill Loaded |               |          |       |       |       |        |        |  |  |
|----------------------|---|---------------|----------|-------|-------|-------|--------|--------|--|--|
| Total Resistance (%) |   |               | Time (mi | n)    |       |       |        |        |  |  |
| (rolling + grade)    | 0.5   | 0.5 1 2 3 4 5 |          |       |       |       |        |        |  |  |
| 0                    | 1,230                                       | 2,570         | 5,300    |       |       |       | 2558.8 | 1.0537 |  |  |
| 4                    | 800   | 1,600         | 3,400    | 5,190 | 7,000 |       | 1634.8 | 1.0485 |  |  |
| 6                    | 520   | 1,090         | 2,300    | 3,560 | 4,760 | 5,970 | 1091.9 | 1.0635 |  |  |
| 8                    | 390   | 810           | 1,760    | 2,700 | 3,630 | 4,570 | 820.99 | 1.0743 |  |  |
| 10                   | 260   | 630           | 1,200    | 2,180 | 2,930 | 3,690 | 589.82 | 1.1481 |  |  |
| 15                   | 150   | 380           | 810      | 1,300 | 1,760 | 2,210 | 355.44 | 1.1605 |  |  |

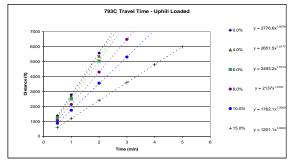
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

793C Travel Time - Uphill Loaded

| Total Resistance (%) |       | Time (min) |       |       |       |       |        |        |  |
|----------------------|-------|------------|-------|-------|-------|-------|--------|--------|--|
| (rolling + grade)    | 0.5   | 1          | 2     | 3     | 4     | 5     | k      | р      |  |
| 0                    | 1,380 | 2,780      | 5,580 |       |       |       | 2776.6 | 1.0078 |  |
| 4                    | 1,310 | 2,650      | 5,370 |       |       |       | 2651.5 | 1.0177 |  |
| 6                    | 1,230 | 2,500      | 5,040 |       |       |       | 2493.2 | 1.0174 |  |
| 8                    | 1,060 | 2,140      | 4,300 | 6,490 |       |       | 2137   | 1.0107 |  |
| 10                   | 880   | 1,750      | 3,560 | 5,310 |       |       | 1762.1 | 1.0059 |  |
| 15                   | 600   | 1,200      | 2,410 | 3,610 | 4,800 | 6,000 | 1201.1 | 1.0003 |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{\iota}}$ 

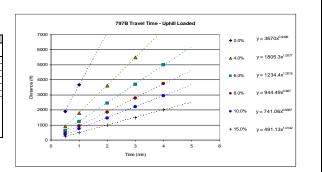
Source: Caterpillar Performance Handbook Edition 35



### Productivity - Haul Trucks (cont.)

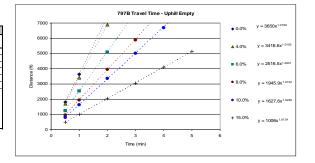
|                      | 797B Haul Truck Travel Time - Uphill Loaded |               |          |       |       |  |        |        |  |  |  |
|----------------------|---|---------------|----------|-------|-------|--|--------|--------|--|--|--|
| Total Resistance (%) |   |               | Time (mi | n)    |       |  |        |        |  |  |  |
| (rolling + grade)    | 0.5   | 0.5 1 2 3 4 5 |          |       |       |  |        |        |  |  |  |
| 0                    | 1,900                                       | 3,670         |          |       |       |  | 3670   | 0.9498 |  |  |  |
| 4                    | 900   | 1,800         | 3,620    | 5,480 |       |  | 1805.3 | 1.0077 |  |  |  |
| 6                    | 620   | 1,230         | 2,450    | 3,700 | 5,000 |  | 1234.4 | 1.0019 |  |  |  |
| 8                    | 480   | 940           | 1,850    | 2,790 | 3,750 |  | 944.49 | 0.987  |  |  |  |
| 10                   | 370   | 750           | 1,460    | 2,220 | 2,950 |  | 741.06 | 0.9957 |  |  |  |
| 15                   | 240   | 500           | 1,000    | 1,480 | 2,000 |  | 491.13 | 1.0142 |  |  |  |

Travel Time (min) =  $e^{\int \frac{distance}{k}}$  Source: Caterpillar Performance Handbook Edition 35



|                      | 797B Haul Truck Travel Time - Uphill Empty |       |           |       |       |       |        |        |  |
|----------------------|--|-------|-----------|-------|-------|-------|--------|--------|--|
| Total Resistance (%) |  |       | Time (mir | n)    |       |       |        |        |  |
| (rolling + grade)    | 0.5  | 1     | 2         | 3     | 4     | 5     | k      | р      |  |
| 0                    | 1,800                                      | 3,650 |           |       |       |       | 3650   | 1.0199 |  |
| 4                    | 1,700                                      | 3,400 | 6,900     |       |       |       | 3416.6 | 1.0105 |  |
| 6                    | 1,240                                      | 2,520 | 5,100     |       |       |       | 2516.5 | 1.0201 |  |
| 8                    | 960  | 1,950 | 3,960     | 5,900 |       |       | 1945.9 | 1.0152 |  |
| 10                   | 800  | 1,620 | 3,350     | 5,000 | 6,700 |       | 1627.6 | 1.0239 |  |
| 15                   | 500  | 1,000 | 2,040     | 3,050 | 4,100 | 5,130 | 1006   | 1.0124 |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ Source: Caterpillar Performance Handbook Edition 35



### Productivity - Articulated Trucks

| Description                   | 725    | 730    | 735    | 740    |
|-------------------------------|--------|--------|--------|--------|
| Chassis Weight (lb)           |        |        |        |        |
| Body Weight (lb)              |        |        |        |        |
| Standard Liner Weight (lb)    |        |        |        |        |
| Operating Weight (Empty) (lb) | 50,120 | 51,220 | 65,830 | 72,070 |
| Payload Capacity (cy)         |        |        |        |        |
| Struck                        | 14.5   | 17.1   | 19.3   | 23.3   |
| Heaped                        | 18.8   | 22.1   | 31.8   | 30.2   |
| Average                       | 16.65  | 19.6   | 25.55  | 26.75  |
| Maneuver to Load Time (min)   | 0.7    | 0.7    | 0.7    | 0.7    |
| Maneuver and Dump Time (min)  | 1.1    | 1.1    | 1.1    | 1.1    |
| Job Efficiency                | 0.83   | 0.83   | 0.83   | 0.83   |
| Rolling Resistance**          | 2.5    | 2.5    | 2.5    | 2.5    |
| Altitude Deration Factor      | 1      | 1      | 1      | 1      |

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

|                                       |                 |                        |                        |                        | Downhill Hau | Truck Speed | - Grade Reta | rding vs. Fff | ective Grad     | e (Grade - F | olling Res | istance) |    |
|---------------------------------------|-----------------|------------------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------|--------------|------------|----------|----|
| Weig                                  | ht of Materials |                        |                        | 725                    |              |             |              |               | 730             |              |            |          |    |
| Material                              | lb/cy           | Truck (725)<br>Load lb | Truck (730)<br>Load Ib | Loaded<br>Weight (lbs) | 20           | 15          | 10           | 5             | Weight<br>(lbs) | 20           | 15         | 10       | 5  |
| Alluvium                              | 2,900           | 48,285                 | 56,840                 | 98,405                 | 9            | 9           | 13           | 30            | 108,060         | 5            | 8          | 13       | 29 |
| Basalt                                | 3,300           | 54,945                 | 64,680                 | 105,065                | 5            | 9           | 13           | 22            | 115,900         | 5            | 8          | 13       | 29 |
| Clay - Dry                            | 2,500           | 41,625                 | 49,000                 | 91,745                 | 9            | 13          | 13           | 30            | 100,220         | 8            | 8          | 13       | 29 |
| Granite - broken                      | 2,800           | 46,620                 | 54,880                 | 96,740                 | 9            | 13          | 13           | 30            | 106,100         | 5            | 8          | 13       | 29 |
| Gravel                                | 2,550           | 42,458                 | 49,980                 | 92,578                 | 9            | 13          | 13           | 30            | 101,200         | 8            | 8          | 13       | 29 |
| LS - broken                           | 2,600           | 43,290                 | 50,960                 | 93,410                 | 9            | 13          | 13           | 30            | 102,180         | 8            | 8          | 13       | 29 |
| LS - crushed                          | 2,600           | 43,290                 | 50,960                 | 93,410                 | 9            | 13          | 13           | 30            | 102,180         | 8            | 8          | 13       | 29 |
| Sandstone                             | 2,550           | 42,458                 | 49,980                 | 92,578                 | 9            | 13          | 13           | 30            | 101,200         | 8            | 8          | 13       | 29 |
| Shale                                 | 2,100           | 34,965                 | 41,160                 | 85,085                 | 9            | 13          | 22           | 30            | 92,380          | 8            | 13         | 13       | 29 |
| Stone - crushed                       | 2,700           | 44,955                 | 52,920                 | 95,075                 | 9            | 13          | 13           | 30            | 104,140         | 8            | 8          | 13       | 29 |
| Tailings - Coarse (dry, loose sand)   | 2,400           | 39,960                 | 47,040                 | 90,080                 | 9            | 13          | 13           | 30            | 98,260          | 8            | 8          | 13       | 29 |
| Tailings - Slimes (loose sand & clay) | 2,700           | 44,955                 | 52,920                 | 95,075                 | 9            | 13          | 13           | 30            | 104,140         | 8            | 8          | 13       | 29 |
| Topsoil                               | 1,600           | 26,640                 | 31,360                 | 76,760                 | 9            | 13          | 22           | 30            | 82,580          | 8            | 13         | 22       | 35 |
|                                       |                 |                        |                        | Empty                  | 13           | 13          | 22           | 30            | Empty           | 13           | 13         | 22       | 35 |
|                                       |                 |                        |                        |                        |              |             |              |               |                 |              |            |          |    |

|                                       |                 |                        |                        |                        |    | Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance) |         |                   |                           |                |    |    |    |  |  |
|---------------------------------------|-----------------|------------------------|------------------------|------------------------|----|--|---------|-------------------|---------------------------|----------------|----|----|----|--|--|
| Weig                                  | ht of Materials |                        |                        | 735                    |    |  |         |                   |                           | 740            |    |    |    |  |  |
| Material                              | lb/cy           | Truck (735)<br>Load Ib | Truck (740)<br>Load lb | Loaded<br>Weight (lbs) | 20 | 15   | 10      | 5                 | Loaded<br>Weight<br>(lbs) | 20             | 15 | 10 | 5  |  |  |
| Alluvium                              | 2,900           | 74,095                 | 77,575                 | 139,925                | 7  | 9  | 13      | 27                | 149,645                   | 7              | 9  | 17 | 23 |  |  |
| Basalt                                | 3,300           | 84,315                 | 88,275                 | 150,145                | 7  | 9  | 13      | 27                | 160,345                   | 7              | 9  | 13 | 23 |  |  |
| Clay - Dry                            | 2,500           | 63,875                 | 66,875                 | 129,705                | 7  | 9  | 13      | 27                | 138,945                   | 9              | 13 | 17 | 31 |  |  |
| Granite - broken                      | 2,800           | 71,540                 | 74,900                 | 137,370                | 7  | 9  | 13      | 27                | 146,970                   | 7              | 9  | 17 | 23 |  |  |
| Gravel                                | 2,550           | 65,153                 | 68,213                 | 130,983                | 7  | 9  | 13      | 27                | 140,283                   | 7              | 9  | 17 | 31 |  |  |
| LS - broken                           | 2,600           | 66,430                 | 69,550                 | 132,260                | 7  | 9  | 13      | 27                | 141,620                   | 7              | 9  | 17 | 31 |  |  |
| LS - crushed                          | 2,600           | 66,430                 | 69,550                 | 132,260                | 7  | 9  | 13      | 27                | 141,620                   | 7              | 9  | 17 | 31 |  |  |
| Sandstone                             | 2,550           | 65,153                 | 68,213                 | 130,983                | 7  | 9  | 13      | 27                | 140,283                   | 7              | 9  | 17 | 31 |  |  |
| Shale                                 | 2,100           | 53,655                 | 56,175                 | 119,485                | 9  | 9  | 18      | 27                | 128,245                   | 7              | 13 | 17 | 31 |  |  |
| Stone - crushed                       | 2,700           | 68,985                 | 72,225                 | 134,815                | 7  | 9  | 13      | 27                | 144,295                   | 7              | 9  | 17 | 23 |  |  |
| Tailings - Coarse (dry, loose sand)   | 2,400           | 61,320                 | 64,200                 | 127,150                | 7  | 9  | 13      | 27                | 136,270                   | 9              | 13 | 17 | 31 |  |  |
| Tailings - Slimes (loose sand & clay) | 2,700           | 68,985                 | 72,225                 | 134,815                | 7  | 9  | 13      | 27                | 144,295                   | 7              | 9  | 17 | 23 |  |  |
| Topsoil                               | 1,600           | 40,880                 | 42,800                 | 106,710                | 9  | 13   | 18      | 36                | 114,870                   | 9              | 13 | 17 | 31 |  |  |
|                                       |                 |                        |                        |                        |    | 18   | 27      | 42                | Empty                     | 17             | 17 | 23 | 31 |  |  |
|                                       |                 |                        |                        |                        |    |  | Source: | Caterpillar Perfo | rmance Handb              | ook Edition 35 |    |    |    |  |  |

#### Productivity - Articulated Trucks (cont.) 725 Travel Time - Uphill Loaded 7000 725 Articulated Truck Travel Time - Uphill Loaded Total Resistance (%) ♦ 0.00% y = 2097.3x<sup>1.3455</sup> Time (min) (rolling + grade) 5,200 3,200 2,390 2097.3 1329.1 1091.2 1.3455 1.2109 1.0904 2,190 1,400 1,080 ▲ 4.00% y = 1329.1x<sup>1.2109</sup> 5,000 3,630 6,200 2,850 2,250 1,570 3,850 3,020 2,100 4,820 3,800 2,620 928.59 1.0158 741.09 1.0076 504.55 1.0225 880 729 500 1,850 1,450 380 300 200 ■6.00% y = 1091.2x<sup>1.0904</sup> ●8.00% y = 928.59x<sup>1.0158</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ ●10.00% y = 741.09x<sup>1.0076</sup> Source: Caterpillar Performance Handbook Edition 35 +15.00% y = 504.55x<sup>1.02</sup> 725 Travel Time - Uphill Empty 725 Haul Truck Travel Time - Uphill Empty otal Resistance (%) 0.5 (rolling + grade) 5,570 4,700 3,900 3,250 2,740 2,000 2326.3 1999.4 1728 1487.8 2,480 2,070 1,770 1,490 1.3122 1.2616 1.1556 1.0986 680 620 ◆0.00% y = 2326.3x<sup>1.3122</sup> 6,020 4,970 590 540 6,730 ▲4.00% y = 1999.4x<sup>1.2616</sup> 1271.2 1.0754 979.82 1.0145 1,270 960 4,200 3,000 5,600 4,000 7,050 5,000 ■6.00% y = 1728x<sup>1.1556</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ ●8.00% y = 1487.8x<sup>1.098</sup> Source: Caterpillar Performance Handbook Edition 35 • 10.00% y = 1271.2x1.075 +15.00% y = 979.82x<sup>1.014</sup> 3 Time (min)

### Productivity - Articulated Trucks (cont.)

|                      | 730 Articulated Truck Travel Time - Uphill Loaded |            |       |       |       |       |        |        |  |  |  |
|----------------------|---|------------|-------|-------|-------|-------|--------|--------|--|--|--|
| Total Resistance (%) |   | Time (min) |       |       |       |       |        |        |  |  |  |
| (rolling + grade)    | 0.5   | 1          | 2     | 3     | 4     | 5     | k      | р      |  |  |  |
| 0                    | 780   | 2,250      | 5,240 |       |       |       | 2095   | 1.374  |  |  |  |
| 4                    | 610   | 1,390      | 3,170 | 4,930 | 6,880 |       | 1382   | 1.1651 |  |  |  |
| 6                    | 540   | 1,100      | 2,340 | 3,550 | 5,780 | 6,000 | 112    | 1.0847 |  |  |  |
| 8                    | 460   | 920        | 1,840 | 2,810 | 3,770 | 4,760 | 922.63 | 1.0145 |  |  |  |
| 10                   | 390   | 750        | 1,420 | 2,170 | 2,880 | 3,600 | 751.26 | 0.965  |  |  |  |
| 15                   | 300   | 560        | 1,050 | 1,500 | 1,995 | 2,500 | 560.84 | 0.9152 |  |  |  |

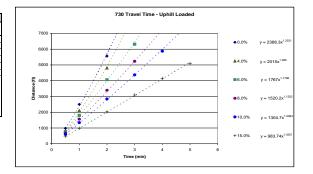
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35

|                | 730 Travel Time - Uphill Loaded  |         |                             |
|----------------|--|---------|-----------------------------|
| 7000 T         | , <b>A</b>   | _       |                             |
| 6000           | //   | ◆0.00%  | y = 2095.1x <sup>1.33</sup> |
| 5000           |  | ▲4.00%  | y = 1382x <sup>1.1651</sup> |
| € 4000 -       |  | ■6.00%  | y = 1124x <sup>1.0847</sup> |
| (a) 4000       | And the second second  |         |                             |
|                | the state of the s | ●8.00%  | y = 922.63x <sup>1.01</sup> |
| 2000           | *  | •10.00% | y = 751.26x <sup>0.9</sup>  |
| 1000           |  | +15.00% | y = 560.84x <sup>0.91</sup> |
| o <del> </del> | 1 2 3 4 5  | 6       |                             |

|                      | 730 Haul Truck Travel Time - Uphill Empty |       |          |       |       |       |        |         |  |  |
|----------------------|---|-------|----------|-------|-------|-------|--------|---------|--|--|
| Total Resistance (%) |   |       | Time (mi | in)   |       |       |        |         |  |  |
| (rolling + grade)    | 0.5                                       | 1     | 2        | 3     | 4     | 5     | k      | р       |  |  |
| 0                    | 980                                       | 2,500 | 5,560    |       |       |       | 2388   | 1.25621 |  |  |
| 4                    | 810                                       | 2,100 | 4,810    |       |       |       | 2015   | 1.285   |  |  |
| 6                    | 770                                       | 1,800 | 4,060    | 6,310 |       |       | 1767   | 1.1766  |  |  |
| 8                    | 680                                       | 1,560 | 3,390    | 5,230 | 7,070 |       | 1520.2 | 1.1252  |  |  |
| 10                   | 595                                       | 1,340 | 2,840    | 4,370 | 5,870 |       | 1304.7 | 1.0994  |  |  |
| 15                   | 480                                       | 980   | 2,020    | 3,090 | 4,150 | 5,090 | 983.74 | 1.0321  |  |  |
|                      |   |       |          |       |       |       |        |         |  |  |

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 



## Productivity - Articulated Trucks (cont.)

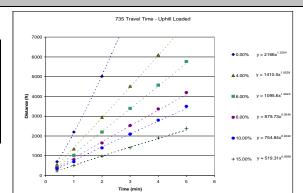
| 735 Articulated Truck Travel Time - Uphill Loaded |     |               |       |       |       |       |        |        |  |  |
|---|-----|---------------|-------|-------|-------|-------|--------|--------|--|--|
| Total Resistance (%)                              |     | Time (min)    |       |       |       |       |        |        |  |  |
| (rolling + grade)                                 | 0.5 | 0.5 1 2 3 4 5 |       |       |       |       |        |        |  |  |
| 0   | 700 | 2,200         | 5,020 |       |       |       | 2166   | 1.2254 |  |  |
| 4   | 550 | 1,350         | 2,950 | 4,520 | 6,100 |       | 1410.5 | 1.0528 |  |  |
| 6   | 450 | 1,020         | 2,200 | 3,400 | 4,570 | 5,770 | 1095.6 | 1.0223 |  |  |
| 8   | 390 | 810           | 1,650 | 2,530 | 3,370 | 4,200 | 879.73 | 0.9546 |  |  |
| 10  | 340 | 700           | 1,400 | 2,100 | 2,800 | 3,500 | 754.84 | 0.9332 |  |  |
| 15  | 230 | 500           | 970   | 1,400 | 1,900 | 2,390 | 519.31 | 0.9268 |  |  |

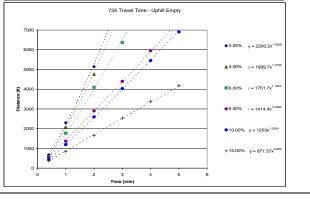
Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

Source: Cateroillar Performance Handbook Edition 35

| 1 |                      | 735 Haul Truck Travel Time - Uphill Empty |            |       |       |       |       |        |        |  |  |
|---|----------------------|---|------------|-------|-------|-------|-------|--------|--------|--|--|
| ſ | Total Resistance (%) |   | Time (min) |       |       |       |       |        |        |  |  |
| ١ | (rolling + grade)    | 0.5                                       | 1          | 2     | 3     | 4     | 5     | k      | p      |  |  |
| ı | 0                    | 680                                       | 2,300      | 5,140 |       |       |       | 2200.2 | 1.2606 |  |  |
| ı | 4                    | 610                                       | 2,070      | 4,760 |       |       |       | 1999.7 | 1.2795 |  |  |
| ı | 6                    | 580                                       | 1,770      | 4,100 | 6,370 |       |       | 1751.7 | 1.1953 |  |  |
| ı | 8                    | 560                                       | 1,370      | 2,900 | 4,400 | 5,950 |       | 1414.4 | 1.0306 |  |  |
| ı | 10                   | 440                                       | 1,200      | 2,600 | 4,030 | 5,450 | 6,900 | 1203   | 1.0924 |  |  |
| ı | 15                   | 370                                       | 840        | 1,660 | 2,540 | 3,390 | 4,200 | 871.57 | 0.969  |  |  |

Travel Time (min) =  $\sqrt[g]{\frac{\text{distance}}{k}}$ 





#### Productivity - Articulated Trucks (cont.) 740 Travel Time - Uphill Loaded 740 Articulated Truck Travel Time - Uphill Loaded avel Time Time (min) 2 5,500 3,190 2,200 1,650 Total Resistance (%) ◆0.00% y = 2190.6x<sup>1.3823</sup> 6000 (rolling + grade) 2190.6 1415 1066.4 842.87 2,340 1,390 1,020 800 4,960 3,400 2,560 6,780 4,580 3,400 1.3823 1.1389 1.0438 1.0012 5,700 4,300 ▲4.00% y = 1415x<sup>1.1385</sup> 500 640 450 1,350 940 2,040 1,400 2,750 1,830 3,410 2,340 686.02 474.86 0.9889 0.9789 290 200 ■6.00% y = 1066.4x<sup>1.0</sup> ●8.00% y = 842.87x<sup>1.0</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 2000 • 10.00% y = 686.02x<sup>0</sup> Source: Caterpillar Performance Handbook Edition 35 740 Travel Time - Uphill Empty 740 Haul Truck Travel Time - Uphill Empty Time (min) (rolling + grade) 2413.6 5,820 ♦ 0.00% / = 2413.6x<sup>1.3214</sup> 5,820 5,400 4,230 3,400 2,790 1,900 590 560 500 390 2,230 1,840 1,510 1,250 2170.4 1804.5 1541.5 1308.2 1.3372 1.2048 1.1112 1.074 6,630 7,120 5,800 5,250 4,300 ▲4.00% /=2170.4x<sup>1.337</sup> 900 2,920 3,930 4.930 951.69 1.0146 ■6.00% /= 1804.5x<sup>1.2048</sup> Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 3000 ●8.00% /=1541.5x<sup>1.1</sup> Source: Caterpillar Performance Handbook Edition 35 +15.00% /=951.69x1.014 Time (min)

#### **Productivity - Wheel Loaders**

|                          |      |       |      | Whee  | I Loader Spe | ecifications |       |       |         |        |      |         |       |       |
|--------------------------|------|-------|------|-------|--------------|--------------|-------|-------|---------|--------|------|---------|-------|-------|
| Description              | 924G | 928G  | 950G | 966G  | 972G         | 972G (2)     | 980G  | 988G  | 988G(2) | 990    | 992G | 992G(2) | 994D  | L2350 |
| Payload Capacity (cy)    |      |       |      |       |              |              |       |       |         |        |      |         |       |       |
| Struck                   | 2.2  | 2.5   | 3.46 | 4.46  | 4.71         | 4.71         | 6.34  | 6.9   | 6.9     | 9.5    | 13.2 | 13.2    | 18    |       |
| Heaped                   | 2.7  | 3.25  | 4    | 5.25  | 5.5          | 5.5          | 7.25  | 8.33  | 8.33    | 11.25  | 16   | 16      | 22.5  |       |
| Average                  | 2.45 | 2.875 | 3.73 | 4.855 | 5.105        | 5.105        | 6.795 | 7.615 | 7.615   | 10.375 | 14.6 | 14.6    | 20.25 | 53    |
| Matched Truck            | N/A  | N/A   | N/A  | 725   | 730          | 735          | N/A   | 740   | 769D    | 773D   | 777D | 785C    | 793C  | 797B  |
| Average Cycle Time (min) | 0.45 | 0.45  | 0.5  | 0.5   | 0.5          | 0.5          | 0.55  | 0.55  | 0.55    | 0.55   | 0.6  | 0.6     | 0.6   | 0.75  |
| Passes to Fill Truck     | N/A  | N/A   | N/A  | 3     | 4            | 5            | N/A   | 4     | 3       | 4      | 5    | 6       | 7     | 5     |
| Altitude Deration Factor | 1    | 1     | 1    | 1     | 1            | 1            | 1     | 1     | 1       | 1      | 1    | 1       | 1     | 1     |
| Operator Efficiency      | 1    | 1     | 1    | 1     | 1            | 1            | 1     | 1     | 1       | 1      | 1    | 1       | 1     | 1     |
| Job Efficiency           | 0.83 | 0.83  | 0.83 | 0.83  | 0.83         | 0.83         | 0.83  | 0.83  | 0.83    | 0.83   | 0.83 | 0.83    | 0.83  | 0.83  |
| Time to Fill Truck       | N/A  | N/A   | N/A  | 1.5   | 2            | 2.5          | N/A   | 2.2   | 1.65    | 2.2    | 3    | 3.6     | 4.2   | 3.75  |
| Rolling Resistance**     | 2.5  | 2.5   | 2.5  | 2.5   | 2.5          | 2.5          | 2.5   | 2.5   | 2.5     | 2.5    | 2.5  | 2.5     | 2.5   | 2.5   |

Loader matched to small truck fleet Loader matched to medium truck fleet Loader matched to large truck fleet Loader matched to extra large truck fleet

"A firm, smooth, rolling readway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; LeTourneau/actual Chilean mine operating data for L2350.

| Wheeled Loaders | General Purpose | Spade Nose-<br>Rock |
|-----------------|-----------------|---------------------|
| 928G            | 3.25 cubic yard | not available       |
| 966G            | 5.0 cubic yard  | not available       |
| 972G            | 5.5 cubic yard  | not available       |
| 988G            | not available   | 8.3 cubic yard      |
| 992G            | not available   | 16.0 cubic yard     |

note: capacities are 2:1 heaped, SAE standards

NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo & available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, i.e., shot, loose, tight bank, stockpile, rock, etc. Typical Nevrada applications were used to determine above bucket capacities as related to materials & densities. Job site specific may after specific bucket requirements. (Cashman Equipment, Eko, Nevada - February 21, 2005)

#### Productivity - Shovels

| Shovel Specifications (Komatsu equivalent) |         |        |        |        |        |        |
|--|---------|--------|--------|--------|--------|--------|
| Description                                |         | PC2000 | PC3000 | PC4000 | PC5500 | PC8000 |
| Payload Capacity (cy)                      |         |        |        |        |        |        |
|  | Struck  | 10.46  | 18.84  | 26.16  | 33.48  | 47.09  |
|  | Heaped  | 14.39  | 25.9   | 35.97  | 46.04  | 64.75  |
|  | Average | 12.43  | 22.37  | 31.07  | 39.76  | 55.92  |
| Matched Truck                              |         | 740    | 777D   | 785C   | 793C   | 797B   |
| Average Cycle Time (min)                   |         | 0.49   | 0.49   | 0.59   | 0.59   | 0.69   |
| Passes to Fill Truck                       |         | 2.05   | 2.84   | 3.38   | 4.69   | 5.11   |
| Altitude Deration Factor                   |         | 1      | 1      | 0.9    | 1      | 1      |
| Operator Efficiency                        |         | 1      | 1      | 1      | 1      | 1      |
| Job Efficiency                             |         | 0.83   | 0.83   | 0.83   | 0.83   | 0.83   |
| Time to Fill Truck                         |         | 1.68   | 2.33   | 3.32   | 4.61   | 5.86   |
| Rolling Resistance**                       |         | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |

Shovel matched to small truck fleet Shovel matched to medium truck fleet Shovel matched to large truck fleet

Shovel matched to extra large truck fleet

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

992G (2) - can be used to load 785 with 6 passes
Source: Caterpillar Performance Handbook Edition 35; Komatsu actual Peruvian mine (Lagunas Norte) operating data for PC4000.

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### **Productivity - Motor Graders**

| Motor Grader Specifications   |        |        |        |        |  |  |
|---|--------|--------|--------|--------|--|--|
| Description   | 120H   | 14G/H  | 16G/H  | 24M    |  |  |
| Grader Width (ft)   | 8      | 9.25   | 10.08  | 14.04  |  |  |
| Blade Width (ft)  | 12     | 14     | 16     | 16     |  |  |
| Ripper Width (7 shanks) (ft)  | 7.6    | 8.5    | 9.75   | 12.83  |  |  |
| Road Maintence Speed (mph)  |        |        |        |        |  |  |
| Minimum   | 3      | 3      | 3      | 3      |  |  |
| Maximum   | 9.5    | 9.5    | 9.5    | 9.5    |  |  |
| Average   | 6.25   | 6.25   | 6.25   | 6.25   |  |  |
| Hourly Production   | 33,000 | 33,000 | 33,000 | 33,000 |  |  |
| Ripping Speed (mph)   | 1      | 1      | 1      | 1      |  |  |
| Minimum   | 0      | 0      | 0      | 0      |  |  |
| Maximum   | 3      | 3      | 3      | 3      |  |  |
| Average   | 1.5    | 1.5    | 1.5    | 1.5    |  |  |
| Altitude Deration Factor  | 1      | 1      | 1      | 1      |  |  |
| Hourly Production (with job efficiency<br>correction & altitude deration factors) |        |        |        |        |  |  |
| (excluding manuever time)   | 6,574  | 6,574  | 6,574  | 6,574  |  |  |
| Maneuver time per pass (min)  | 0.5    | 0.5    | 0.5    | 0.5    |  |  |
| Operator Efficiency   | 1      | 1      | 1      | 1      |  |  |
| Job Efficiency  | 0.83   | 0.83   | 0.83   | 0.83   |  |  |

### Productivity - Excavators

|  | Tra          | ck Excavator | Specification | ıs        |           |           |          |
|--|--------------|--------------|---------------|-----------|-----------|-----------|----------|
| Description                                | 312C         | 320C         | 325C          | 330C      | 345B      | 365BL     | 385BL    |
| Bucket Capacity (cy)                       | 0.68         | 1.57         | 2.22          | 2.22      | 3         | 4.6       | 7.3      |
| Fill Factor                                | 0.9          | 0.9          | 0.9           | 0.9       | 0.9       | 0.9       | 0.9      |
| Average Bucket Load (cy)                   | 0.612        | 1.413        | 1.998         | 1.998     | 2.7       | 4.14      | 6.57     |
| Soil Type                                  | packed earth | hard clay    | hard clay     | hard clay | hard clay | hard clay | hard cla |
| Job Condition                              | med-hard     | med-hard     | med-hard      | med-hard  | med-hard  | med-hard  | med-har  |
| Cycle Times (minutes) - based on hard clay | 1            |              |               |           |           |           |          |
| Load Bucket                                | 0.07         | 0.09         | 0.09          | 0.09      | 0.13      | 0.1       | 0.19     |
| Swing Loaded                               | 0.06         | 0.06         | 0.06          | 0.07      | 0.07      | 0.09      | 0.06     |
| Dump Bucket                                | 0.03         | 0.03         | 0.04          | 0.04      | 0.02      | 0.04      | 0.03     |
| Swing Empty                                | 0.05         | 0.05         | 0.06          | 0.07      | 0.06      | 0.07      | 0.07     |
| Total Cycle Time                           | 0.21         | 0.23         | 0.25          | 0.27      | 0.28      | 0.3       | 0.35     |
| Job Efficiency                             | 0.83         | 0.83         | 0.83          | 0.83      | 0.83      | 0.83      | 0.83     |
| Operator Efficiency                        | 1            | 1            | 1             | 1         | 1         | 1         | 1        |
| Altitude Deration Factor                   | 1            | 1            | 1             | 1         | 1         | 1         | 1        |
| Corrected Productivity (LCY/hr)            | 145          | 306          | 398           | 369       | 480       | 687       | 935      |
| Exploration Road Cycle Time (1) (min)      | N/A          | 0.38         | 0.4           | N/A       | 0.42      | N/A       | N/A      |
| Exploration Road Corr Prod (LCY/hr)        | N/A          | 185          | 249           | N/A       | 320       | N/A       | N/A      |
| Track Width (ft)                           | 8.17         | 9.17         | 9.83          | 10.5      | 11.42     | 11.5      | 11.5     |
| Ditch/Trench Excavation                    |              |              |               |           |           |           |          |
| Bucket Capacity (cy)                       | 0.42         | 0.58         | 0.88          | 0.89      | 2.09      | 3.27      | 2.75     |
| Fill Factor                                | 0.5          | 0.5          | 0.5           | 0.5       | 0.5       | 0.5       | 0.5      |
| Corrected Productivity (LCY/hr)            | 50           | 63           | 88            | 82        | 186       | 271       | 196      |

Source: Caterpillar Performance Handbook Edition 35

| Track Excavators | Hvy Duty Rock        | Extreme Service Exc<br>(e.g. haulroad recontour) | Hvy Duty Trench     |
|------------------|----------------------|--|---------------------|
| 312C             | 30", 0.68 cubic yd   | 47", 0.94 cubic yd                               | 22", .42 cubic yd   |
| 320C             | 30", 0.90 cubic yd   | 55.1", 1.57 cubic yd                             | 23.6", .58 cubic yd |
| 325C             | 36", 1.25 cubic yd   | 60", 2.22 cubic yd                               | 30", .88 cubic yd   |
| 330C             | 36", 1.25 cubic yd   | 60", 2.22 cubic yd                               | 30", .89 cubic yd   |
| 345B             | 43.2", 1.69 cubic yd | 65", 3.0 cubic yd                                | 48", 2.09 cubic yd  |
| 365BL            | 60", 3.25 cubic yd   | 82", 4.6 cubic yd                                | 59", 3.27 cubic yd  |
| 385BL            | 85", 6.30 cubic yd.  | 96.0, 7.30 cubic yd                              | 57", 2.75 cubic yd  |

Note: capacities are 2:1 heaped, SAE standards NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo &

available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators Sueket capacity and with dictated by maretial weight and configuration, ie, shot (Loose, tight bank, stockyle, not., etc. Typical Nevada applications were used to determine above bucket capacities as related to materials densities. Job late peofics may alter specific bucket requirements ( Cashman Equipment, Elko, Nevada - February 21, 2005)

) Exploration cycle time assumes feathering/smoothing performed by excavator

#### Concrete Breaking Production

| Description                    | 325C                | 345B    | 385BL   |
|--------------------------------|---------------------|---------|---------|
| Hydraulic Hammer               | H120D s             | H160D s | H180D s |
| Material                       | reinforced concrete |         |         |
| Min Shift Production (yd3/8hr) | 160                 | 300     | 350     |
| Max Shift Production (yd3/8hr) | 300                 | 850     | 1,550   |
| Avg Shift Production (8hr)     | 230                 | 575     | 950     |
| Job Efficiency                 | 0.83                | 0.83    | 0.83    |
| Altitude Deration Factor       | 1                   | 1       | 1       |

Source: Caterpillar Performance Handbook Edition 35

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## **Drill Hole Plugging Productivity**

| Description                                      | Drill Rig          | Pump Rig |  |
|--|--------------------|----------|--|
| Move-to-hole, set-up, tear-down (1)              | 2                  | 2        |  |
| Trip in tremmie pipe (1)                         | 500                |          |  |
| Pulling casing (threaded, not cemented)          | 200                |          |  |
| Single-pass perforating (water wells)            | Productivity(all p | Passes   |  |
| 4  | 60                 | 4        |  |
| 6  | 60                 | 4        |  |
| 8  | 50                 | 4        |  |
| 12   | 45                 | 6        |  |
| 18   | 40                 | 9        |  |
| 24   | 28                 | 12       |  |
| Perforation setup,trip in/out,tear-down          | 2                  |          |  |
| Perforation tool cost (wear cost) <sup>(3)</sup> | 2.5                |          |  |
| Inert Material Placement (backfill)              |                    |          |  |
| Grouting/Cement (4) (cy/hr)                      |                    | 5.33     |  |
| Cuttings (see below) (cy/hr)                     |                    | 3.5      |  |

Drillers daily logs from Newmont, Barrick, New West Gold, Agnico Eagle, iss:
 Idaho General Mines Inc.
 Drillers daily logs from Newmont, Barrick, Target Minerals
 Drillers daily logs from Newmont, 4. WDC Exploration, Dec 2005

Source: WDC Exploration, Dec 2005

Cuttings Placement Productivity
Shift productivity (Means 02210-7000120; Crew B11M)
Shift length
Estimated Hourly Productivity 28 cy / shift hours cy / hour

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|                              |                  |            |                  |            | Elevation       |                 |       |                 | 000-3800 m 3800-4600 m |          |                   |
|------------------------------|------------------|------------|------------------|------------|-----------------|-----------------|-------|-----------------|------------------------|----------|-------------------|
|                              | 0-760 m          | 760-1      | 500 m<br>-5000') | 1500-      | 2300 m          | 2300-3          | 000 m | 3000-3          | 800 m                  | 3800-4   | 600 m             |
| MODEL                        | (0-2500')<br>CAT | User CAT   | -5000')<br>User  | CAT        | -7000')<br>User | (7500-1)<br>CAT | User  | (10,000-<br>CAT | 12,000')<br>User       |          | -15,000')<br>User |
| ulldozers                    | un.              | 0001       | 0001             | OA.        | 0001            | OA.             | 0001  | 0/11            | 000.                   | 0/11     | 000.              |
| D6R                          | 100              | 100        |                  | 100        |                 | 100             |       | 92              |                        | 84       |                   |
| D6R w/ Winch                 | 100              | 100        |                  | 100        |                 | 100             |       | 92              |                        | 84       |                   |
| D7R                          | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 96       |                   |
| D8R                          | 100              | 100        |                  | 100        |                 | 93              |       | 85              |                        | 77       |                   |
| D9R                          | 100              | 100        |                  | 100        |                 | 93              |       | 85              |                        | 77       |                   |
| D10R                         | 100              | 100        |                  | 100        |                 | 100             |       | 97              |                        | 89       |                   |
| D11R                         | 100              | 100        |                  | 100        |                 | 93              |       | 85              |                        | 77       |                   |
| Vheeled Dozers               | 100              | 100        |                  | 100        |                 | 00              |       | - 00            |                        |          |                   |
| 824G                         | 100              | 100        |                  | 100        |                 | 100             |       | 92              |                        | 84       | Г                 |
| 834G                         | 100              | 100        |                  | 100        |                 | 100             |       | 92              |                        | 84       |                   |
| 844                          | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 96       |                   |
| 854G                         | 100              | 100        |                  | 100        |                 | 93              |       | 85              |                        | 77       |                   |
| Fraders                      | 100              | 100        |                  | 100        |                 | 33              |       | 0.0             |                        | - ''     |                   |
| 120H                         | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 93       | Г                 |
| 14G/H                        | 100              | 100        |                  | 100        |                 | 100             |       | 98              |                        | 96       |                   |
| 16G/H                        | 100              | 100        |                  | 100        |                 | 100             |       | 98              |                        | 96       | -                 |
| 24M                          | 100              | 100        |                  | 100        |                 | 100             |       | 98              |                        | 96       |                   |
|                              | 100              | 100        |                  | 100        |                 | 100             |       | 30              |                        | 30       |                   |
| xcavators<br>312C            | 100              | 100        |                  | 100        |                 | 83              |       | 78              |                        | 73       |                   |
| 320C                         | 100              | 100        |                  | 90         |                 | 87              |       | 83              |                        | 76       | _                 |
| 325C                         | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 100      | _                 |
| 330C                         | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 100      |                   |
| 345B                         | 100              |            |                  |            |                 |                 |       | 93              |                        | 93       |                   |
| 365BL                        | 100              | 100<br>100 |                  | 100<br>100 |                 | 100<br>86       |       | 93<br>86        |                        | 93<br>86 |                   |
| 385BL                        |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
|                              | 100              | 100        |                  | 100        |                 | 93              |       | 85              |                        | 78       |                   |
| crapers                      | 400              | 400        |                  | 400        |                 | 400             |       | 0.7             |                        | 00       |                   |
| 631G<br>637G                 | 100              | 100        |                  | 100        |                 | 100             |       | 97              |                        | 90<br>80 |                   |
|                              | 100              | 100        |                  | 100        |                 | 95              |       | 87              |                        | 80       |                   |
| oaders                       | 400              | 100        |                  | 400        |                 | 400             |       | 07              |                        | 00       |                   |
| 924G                         | 100              | 100        |                  | 100        |                 | 100             |       | 97              |                        | 89       |                   |
| 928G                         | 100              | 100        |                  | 100        |                 | 100             |       | 92              |                        | 85       |                   |
| 950G                         | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 100      |                   |
| 966G                         | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 88       |                   |
| 972G                         | 100              | 100        |                  | 92         |                 | 84              |       | 77              |                        | 70       |                   |
| 980G                         | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 88       |                   |
| 988G                         | 100              | 100        |                  | 100        |                 | 95              |       | 85              |                        | 75       |                   |
| 990                          | 100              | 100        |                  | 100        |                 | 100             |       | 92              |                        | 85       |                   |
| 992G                         | 100              | 100        |                  | 100        |                 | 100             |       | 93              |                        | 87       |                   |
| 994D                         | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 88       |                   |
| L2350                        | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 90       |                   |
| hovels                       |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| PC2000                       | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 90       |                   |
| PC3000                       | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 90       |                   |
| PC4000                       | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 90       |                   |
| PC5500                       | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 90       |                   |
| PC8000                       | 100              | 100        |                  | 100        |                 | 100             |       | 96              |                        | 90       |                   |
| ther Equipment               |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| 420D 4WD Backhoe             | 99               | 97         |                  | 95         |                 | 91              |       | 91              |                        | 91       |                   |
| 428D 4WD Backhoe             | 99               | 97         |                  | 95         |                 | 91              |       | 91              |                        | 91       |                   |
| CS533E Vibratory Roller      | 100              | 100        |                  | 98         |                 | 95              |       | 91              |                        | 86       |                   |
| CS633E Vibratory Roller      | 100              | 100        |                  | 100        |                 | 100             |       | 91              |                        | 86       |                   |
| CP533E Sheepsfoot Compactor  | 100              | 100        |                  | 98         |                 | 95              |       | 91              |                        | 100      |                   |
| CP633E Sheepsfoot Compactor  | 100              | 100        |                  | 100        |                 | 100             |       | 91              |                        | 86       |                   |
| Light Truck - 1.5 Ton        |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Supervisor's Truck           |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Flatbed Truck                |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Air Compressor + tools       |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Welding Equipment            |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Heavy Duty Drill Rig         |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Pump (plugging) Drill Rig    |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Concrete Pump                |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Gas Engine Vibrator          |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| Generator 5KW                |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| HDEP Welder (pipe or liner)  |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| 5 Ton Crane                  |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| 20 Ton Crane                 |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| 50 Ton Crane                 |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| 120 Ton Crane                |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |
| rucks                        | •                | 1          | •                | •          |                 |                 |       | •               |                        |          |                   |
| 725                          | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 95       |                   |
| 730                          | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 95       |                   |
| 735                          | 100              | 100        |                  | 100        |                 | 100             |       | 99              |                        | 91       |                   |
| 740                          | 100              | 100        |                  | 100        |                 | 100             |       | 99              |                        | 91       |                   |
| 769D                         | 100              | 100        |                  | 100        |                 | 93              |       | 88              |                        | 82       |                   |
| 773E                         | 100              | 100        |                  | 100        |                 | 100             |       | 93              |                        | 85       |                   |
| 777D                         | 100              | 100        |                  | 100        |                 | 100             |       | 93              |                        | 87       |                   |
| 785C                         | 100              | 100        |                  | 100        |                 | 93              |       | 86              |                        | 80       |                   |
| 793C                         | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 93       |                   |
| 797B                         | 100              | 100        |                  | 100        |                 | 100             |       | 100             |                        | 93       |                   |
| 613E (5,000 gal) Water Wagon | 100              | 100        |                  | 100        |                 | 100             |       | 95              |                        | 87       |                   |
| 621E (8,000 gal) Water Wagon | 100              | 100        |                  | 100        |                 | 100             |       | 95              |                        | 90       |                   |
| 777D Water Truck             | 100              | 100        |                  | 100        |                 | 100             |       |                 |                        | 90<br>87 |                   |
| 785C Water Truck             | 100              | 100        |                  | 100        |                 | 93              |       | 93<br>86        |                        | 80       |                   |
|                              |                  |            |                  |            |                 |                 |       |                 |                        |          |                   |

ties:
User entered deration value will override values from CAT Performance Handbook, except L2350 Loader: data from actual mine performance in Chile.
Komatsu allitude deration assumed from LeTourneau L2350

## Closure Cost Estimate Seed Mixture

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

| Seed Mixture         |                          |                   |       |          |         |           |
|----------------------|--------------------------|-------------------|-------|----------|---------|-----------|
|                      |                          | Species Number of |       |          |         |           |
| Common Name          | Scientific Name          | Seeds / Ib        | Mix   | PLS/acre | Cost/Lb | Cost/Acre |
|                      |                          | Grasses           |       |          |         |           |
| Indian ricegrass     | Achnatherum hymenoides   |                   | 14.16 | 1.30     |         |           |
| Plains lovegrass     | Eragrostis intermedia    |                   | 0.44  | 0.04     |         |           |
| NM feathergrass      | Hesperostipa newmexicana |                   | 5.45  | 0.50     |         |           |
| Sideoats grama       | Bouteloua curtipendula   |                   | 11.98 | 1.10     |         |           |
| Blue grama           | Bouteloua gracilis       |                   | 2.72  | 0.25     |         |           |
| Cane beardgrass      | Bothriochloa barbinodis  |                   | 2.18  | 0.20     |         |           |
| Galleta              | Pleuraphis jamesii       |                   | 11.98 | 1.10     |         |           |
| Green sprangletop    | Leptochloa dubia         |                   | 2.18  | 0.20     |         |           |
| Plains bristlegrass  | Seteria vulpiseta        |                   | 3.27  | 0.30     |         |           |
| Sand dropseed        | Sporobolus cryptandrus   |                   | 0.44  | 0.04     |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          | Forbs             |       |          |         |           |
| White prairie clover | Dale candida c           |                   | 4.36  | 0.40     |         |           |
| Blue flax            | Linum lewisii c          |                   | 3.81  | 0.35     |         |           |
| Prairie coneflower   | Ratibida colomnifera c   |                   | 1.09  | 0.10     |         |           |
| Desert globemallow   | Sphaeralcea ambugua c    |                   | 4.36  | 0.40     |         |           |
| _                    |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          | Shrubs            |       |          |         |           |
| Four-wing saltbush   | Atriplex canescens       |                   | 19.06 | 1.75     |         |           |
| Rubber rabbitbrush   | Ericamerica intermedia c |                   | 3.81  | 0.35     |         |           |
| Apache plume         | Fallugia paradoxa c      |                   | 1.09  | 0.10     |         |           |
| Winterfat            | Krascheninnikovia lanata |                   | 7.63  | 0.70     |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      |                          |                   |       |          |         |           |
|                      | Total                    |                   |       | \$9.18   | i       | \$0.0     |

| Total   |  | \$9.18 | \$0.00 |
|---------|--|--------|--------|
|         |  |        |        |
| Source: |  |        |        |
|         |  |        |        |
|         |  |        |        |
| Notes:  |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |
|         |  |        |        |

Project Name: Foothill Dolomite Mine - Reclamation Plan

Date of Submittal: 01/18/2020

File Name: Att 2\_Cost 20200820\_SRCE\_Version\_1\_4\_1\_017b\_NV\_20 Year Rev 2.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-Am\_Mg\_Foothill\_Dolomite\_ Mine\_1\_12 Rev 2.xlsm
Cost Estimate Type: Surety
Cost Basis: American Magnesium - Option 1 Revised

Seed Mix Cost Quotes



TO: Feliz Toprak, Mining Consultant, SRK Consulting, Inc.

CC: Jeff Smith, Chief Operating Officer, NMCC

FROM: Katie Emmer, Permitting & Environmental Compliance Manager, NMCC

DATE: 20 March 2018

SUBJECT: Seed Mix Quotes – Average cost \$175.00/acre PLS

The purpose of this memorandum is to summarize research into seed mix costs for seed mixes identified in the Copper Flat Mine Operation & Reclamation Plan (MORP) and to present the estimated cost of pure live seed (PLS) per acre.

The MORP calls for a specific seed mix and rate of application for interim and final reclamation:

Table E7: Interim and Final Reclamation Seed Mixes

|                              |                      | PL      | .S/ac1 |
|------------------------------|----------------------|---------|--------|
| Scientific Name              | Common Name          | Interim | Final  |
| Grasses – Warm Season        |                      | -       |        |
| Bothriochloa barbinodis      | Cane bluestem        | 0.15    | 0.20   |
| Bouteloua curtipendula       | Sideoats grama       | 1.00    | 1.10   |
| Bouteloua gracilis           | Blue grama           | 0.20    | 0.25   |
| Pleuraphis jamesii           | Galleta              | 0.75    | 1.10   |
| Leptochloa dubia             | Green sprangletop    | 0.15    | 0.20   |
| Seteria vulpiseta            | Plains bristlegrass  | 0.20    | 0.30   |
| Sporobolus cryptandrus       | Sand dropseed        | 0.03    | 0.04   |
| Grasses - Cool, Intermediate | Season               |         |        |
| Achnatherum hymenoides       | Indian ricegrass     | 0.60    | 1.30   |
| Eragrostis intermedia        | Plains lovegrass     | 0.05    | 0.04   |
| Hesperostipa newmexicana     | NM feathergrass      | 0.70    | 0.50   |
| Shrubs                       | •                    |         |        |
| Atriplex canescens           | Four-wing saltbush   | 0.30    | 1.75   |
| Ericamerica nauseosus        | Rubber rabbitbrush   | 0.10    | 0.35   |
| Fallugia paradoxa            | Apache plume         |         | 0.10   |
| Krascheninnikovia lanata     | Winterfat            | 0.15    | 0.70   |
| Forbs                        |                      |         | **     |
| Dalea candida                | White prairie clover | 0.10    | 0.40   |
| Linum lewisii                | Blue flax            | 0.15    | 0.35   |
| Ratibida colomnifera         | Prairie coneflower   |         | 0.10   |
| Sphaeralcea ambigua          | Desert globemallow   | 0.10    | 0.40   |
|                              | Total                | 4.73    | 9.18   |

Notes

1-Rate is in pounds of pure live seed (PLS) per acre; Substitutions may change seeding rates.

In the week of 12 March 2018, I requested recommendations for seed mix suppliers from knowledgeable personnel at the Bureau of Land Management (BLM) Las Cruces office and Golder & Associates.

Emily Clark, Soil Scientist at Golder, indicated that they commonly work with Granite Seed. Shannon Gentry, Rangeland Management Specialist, suggested Bamert Seed, Granite Seed, and Curtis & Curtis Seed companies. Based on these recommendations, I contacted all three companies and provided MORP Table E7 and requested quotes on PLS/acre that would be certified weed free at the final reclamation rate. I instructed each company that comparable seed substitutions could be made based on availability. Quotes for PLS/acre were received from each company and are presented in the table below.

Seed Mix Quotes for MORP Table E7, Final Rate, March 2018

| Company                   | Date          | Price quote PLS/acre | Notes                         |  |
|---------------------------|---------------|----------------------|-------------------------------|--|
| Curtis & Curtis, Inc.     | 15 March 2018 | \$174.72             | Low acreage<br>Quote attached |  |
| Curtis & Curtis, Inc.     | 15 March 2018 | \$163.79             | 100 acres+<br>Quote attached  |  |
| Granite Seed              | 15 March 2018 | \$186.50             | Quote attached                |  |
| Bamert Seed 16 March 2018 |               | \$750.00             | Quote via email, attached.    |  |

In further correspondence with Bamert, the supplier speculated the quote could be decreased "as much as 2/3rds" if strategic substitutions of similar seeds were made based on availability. If the Bamert quote was decreased by 67%, it would be about \$247.50/acre. Based on the difference in price from the other two suppliers, I conclude this quote is an outlier that is based on differing assumptions from those communicated in the quote request and have not included it in our estimated average seed mix cost.

Based on these quotes, attached, I conclude the average cost of PLS that would meet MORP requirements for final seed rates shown in Table E7 would be \$175.00 per acre.

### Attachements:

Curtis & Curtis, Inc. Quote Granite Seed Quote Bamert Seed Quote (via email)

## CURTIS & CURTIS, INC.

4500 North Prince, Clovis, New Mexico 88101 PH: 575-762-4759 FAX: 575-763-4213

Irrigated Pasture Grasses Mountain Pasture Grasses Native Pasture Grasses

Yard and Playground Grasses Golf Course Grasses Alfalfa/Clovers

## PRICE QUOTATION

TO: Themac Resources DATE: March 15, 2018 ATTENTION: Katie Emmer SALESPERSON: Tyler Stuemky As Directed PHONE: 505-400-7925 SHIPPING DATE: EMAIL: kemmer@themacresourcesgroup.com FOB: Clovis PROJECT: Sierra County Mine Reclamation TERMS: 30 Days Net

DESCRIPTION PRICE AMOUNT

\$174.72/Acre (Low Acreage) Custom Seed Mix:

\$163.79/Acre (100 Acres+)

COMMON NAME BOTANICAL NAME PLS/ACRE Cane Bluestem Bouteloua dactyloides 0.20 Sub. Buffalograss Sideoats Grama Bouteloua curtipendula 1.10 Blue Grama Bouteloua gracilis 0.25 Galleta Grass Pleuraphis jamesii 1.10 Leptochloa dubia 0.20 Green Sprangletop Plains Bristlegrass Setaria vulpiseta 0.30 Sand Dropseed Sporobolus cryptandrus 0.04 Indian Ricegrass Oryzopsis hymenoides 1.30 Plains Lovegrass Eragrostis trichodes 0.04 Sand Lovegrass Hesperostipa comata 0.50 NM Feathergrass Needle and Thread Four-Wing Saltbush Atriplex canescens 1.75 Rubber Rabbitbrush Ericameria nauseosa 0.35 Apache Plume 0.10 Rhus trilobata Sub. Three-Leaf Sumac Krascheninnikovia lanata 0.70 Winterfat White Prairie Clover 0.40 Dalea purpurea Sub. Purple Prairie Clover Blue Flax Linum lewisii 0.35 Prairie Coneflower Ratibida columnifera 0.10 Desert Globemallow Sphaeralcea ambigua 0.40

### \*\*\*THIS QUOTE IS GOOD FOR 10 DAYS\*\*

\*\*\*ALL PRICES SUBJECT TO AVAILABILITY \*\*SUBJECT TO BEING UNSOLD\*\*\*

Here is our quotation on the goods named, subject to the conditions noted:

The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and

quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

Typographical and stenographic errors are subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for prorata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production. Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein, which may appear on Purchaser's formal order will not be binding on the Seller.

QUOTE

tren@graniteseed.com Phone: (801) 768-4422 Fax: (801) 701-9413



Tren Hagman 1697 West 2100 North Lehi, UT 84043

Date: March 15, 2018

To: Katie Emmer

Company: Themac Resources

From: Tren Hagman

Re: Seed Quote

Katie,

We can provide the mix below for \$186.50/acre

| Species                                   | PLS lbs./acre |
|---|---------------|
| Cane beardgrass (Bothriochloa barbinodis) | 0.20          |
| Sideoats grama (Bouteloua curtipendula)   | 1.10          |
| Blue grama (Bouteloua gracilis)           | 0.25          |
| Galleta grass (Pleuraphis jamesii)        | 1.10          |
| Green sprangletop (Leptochloa dubia)      | 0.20          |
| Plains bristlegrass (Setaria vulpiseta)   | 0.30          |
| Sand dropseed (Sporobolus cryptandrus)    | 0.04          |
| Indian ricegrass (Achnatherum hymenoides) | 1.30          |
| Fourwing saltbush (Atriplex canescens)    | 1.75          |
| Rubber rabbitbrush (Ericameria nauseosa)  | 0.35          |
| Apache plume (Fallugia paradoxa)          | 0.10          |
| Winterfat (Krascheninnikovia lanata)      | 0.70          |
| White prairie clover (Dalea candida)      | 0.40          |
| Blue flax (Linum perenne)                 | 0.35          |
| Prairie coneflower (Ratibida columnifera) | 0.10          |
| Desert globemallow (Sphaeralcea ambigua)  | 0.40          |
| Toal:                                     | 8.64          |

If you have any questions, please contact me at the number above or by email  $\underline{\text{tren}@\text{qraniteseed.com}}$  .

Thanks

### Katie Emmer

From: Colby Scroggins <cscroggins@bamertseed.com>

**Sent:** Friday, March 16, 2018 12:18 PM

To: Katie Emmer
Subject: RE: Seed mix quote

Katie,

I would estimate that the attached blend may be near \$750 per acre.

Please let me know if I may be of help in the future!

Have a great day,

Colby F. Scroggins

**Reclamation Specialist** 

cscroagins@BamertSeed.com

Office | 800.262.9892 Fax | 888.378.0419 www.BamertSeed.com





## Sign Up for Our Newsletter!

From: Katie Emmer [mailto:kemmer@themacresourcesgroup.com]

Sent: Wednesday, March 14, 2018 4:25 PM

To: Colby Scroggins <a href="mailto:cscroggins@bamertseed.com">cscroggins@bamertseed.com</a>>

Subject: Seed mix quote

Here's the seed mix I'm looking at, see attached.

Katie Emmer | Permitting & Environmental Compliance Manager

M: +1 505.400.7925| F: +1 505.881.4616

A: 4253 Montgomery Blvd. NE, Suite 130, Albuquerque, NM 87109

W: themacresourcesgroup.com | E: kemmer@themacresourcesgroup.com



Attachment 3

Cost Data

| Format Version: | SRCE Data File v1.12                        |   |
|-----------------|---|---|
| File Name:      | SRCE_Cost_data-Am_Mg_Foothill_Dolomite      | _ Mine_1_12 Rev 2.xlsm  |
| Date:           | January 6, 2021                             |   |
| Cost Type:      | User Data                                   |   |
| Author/Source:  | New Mexico Department of Workforce Solution | ions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction & Equip |

| Units of Measure: | Imperial |
|-------------------|----------|
|                   |          |

No. of Bases/Regions: 1

| Basis/Region | Basis/Region Name                     | Basis/Region Description  |
|--------------|---------------------------------------|---|
| Basis 1      | American Magnesium - Option 1 Revised | American Magnesium - Foothill Dolomite Mine - Northern Nevada Equipme |
| Basis 2      |                                       |   |
| Basis 3      |                                       |   |
| Basis 4      |                                       |   |
| Basis 5      |                                       |   |
| Basis 6      |                                       |   |
| Basis 7      |                                       |   |
| Basis 8      |                                       |   |
| Basis 9      |                                       |   |
| Basis 10     |                                       |   |
| Basis 11     |                                       |   |
| Basis 12     |                                       |   |
| Basis 13     |                                       |   |
| Basis 14     |                                       |   |
| Basis 15     |                                       |   |

nentWatch & Nevada Division of Environmental Protection (NDEP) & NV BLM & 20200801\_SRCE\_Coost\_Data\_File\_1\_12\_Std\_2020

## **Equipment Costs**

| File Name:     | SRCE_Cost_data-Am_Mg_Foothill_Dolom  |
|----------------|--|
| Date:          | January 6, 2021  |
| Cost Basis:    | User Data  |
| Author/Source: | New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy End |

| Monthly Rental Basis    | 460 |  |  |
|-------------------------|-----|--|--|
| (operating hrs/ period) | 160 |  |  |

| EQUIPMENT TYPE (2) | Basis 1                 | Basis 2 | Basis 3 | Basis 4 | Basis 5 |
|--------------------|-------------------------|---------|---------|---------|---------|
|                    | American<br>Magnesium - |         |         |         |         |
|                    | Ontion 1 Povised        |         |         |         |         |
| ulldozers          | <b>A7.000</b>           |         |         |         |         |
| 6R                 | \$7,222                 |         |         |         |         |
| 6R w/ Winch        | \$7,222                 |         |         |         |         |
| 7R                 | \$10,466                |         |         |         |         |
| 8R                 | \$20,180                |         |         |         |         |
| 9R                 | \$30,100                |         |         |         |         |
| 10R                | \$44,500                |         |         |         |         |
| 11R                | \$56,234                |         |         |         |         |
| heeled Dozers      |                         |         |         |         |         |
| 24G                | \$19,849                |         |         |         |         |
| 34G                | \$24,929                |         |         |         |         |
| 44                 | \$33,734                |         |         |         |         |
| 54G                | \$33,802                |         |         |         |         |
| Notor Graders      |                         |         |         |         |         |
| 20H                | \$3,965                 |         |         |         |         |
| 4G/H               | \$14,790                |         |         |         |         |
| 6G/H               | \$18,806                |         |         |         |         |
| 4M                 | \$20,686                |         |         |         |         |
| rack Excavators    |                         |         |         |         |         |
| 12C                | \$5,610                 |         |         |         |         |
| 20C                | \$7,750                 |         |         |         |         |
| 25C                | \$10,048                |         |         |         |         |
| 30C                | \$11,500                |         |         |         |         |
| 45B                | \$16,730                |         |         |         |         |
| 65BL               | \$23,119                |         |         |         |         |
| 85BL               | \$28,472                |         |         |         |         |
| Scrapers           |                         |         |         |         |         |
| 31G                | \$27,700                |         |         |         |         |
| 37G PP             | \$36,819                |         |         |         |         |
| Vheeled Loaders    | . , .                   |         |         |         |         |
| 24G                | \$5,610                 |         |         |         |         |
| 28G                | \$6,530                 |         |         |         |         |
| 50G                | \$9,520                 |         |         |         |         |
| 66G                | \$5,856                 |         |         |         |         |
| 72G                | \$13,480                |         |         |         |         |
| 30G                | \$15,690                |         |         |         |         |
| 38G                | \$19,589                |         |         |         |         |
| 90                 | \$28,299                |         |         |         |         |
| 92G                | \$47,500                |         |         |         |         |
| 94D                | \$45,175                |         |         |         |         |
| -2350              | \$82,607                |         |         |         |         |

## **Equipment Costs**

| EQUIPMENT TYPE (2)           | Basis 1          | Basis 2 | Basis 3 | Basis 4 | Basis 5 |
|------------------------------|------------------|---------|---------|---------|---------|
|                              | Magnesium -      |         |         |         |         |
| Shovels                      | Detion 1 Boulead |         |         |         |         |
| KOM PC2000                   | \$70,917         |         |         |         |         |
| KOM PC3000                   | \$72,526         |         |         |         |         |
| KOM PC4000                   | \$74,135         |         |         |         |         |
| KOM PC5500                   | \$81,548         |         |         |         |         |
| KOM PC8000                   | \$89,703         |         |         |         |         |
| Hydraulic Hammers            |                  |         |         |         |         |
| H-120 (fits 325)             | \$3,420          |         |         |         |         |
| H-160 (fits 345)             | \$7,028          |         |         |         |         |
| H-180 (fits 365/385)         | \$8,168          |         |         |         |         |
| Demolition Shears            |                  |         |         |         |         |
| S340 (fits 322/325/330)      | \$3,524          |         | 1       | l l     |         |
| S365 (fits 330/345)          | \$4,131          |         |         |         |         |
| S390 (fits 365/385)          | \$6,593          |         |         |         |         |
| Demolition Grapples          | \$0,000          |         |         |         |         |
| G315 (fits 322/325)          | T T              |         |         |         |         |
| G320 (fits 325/330)          |                  |         |         |         |         |
| G330 (fits 345/365)          |                  |         |         |         |         |
| Other Equipment              |                  |         |         |         |         |
| 420D 4WD Backhoe             | \$3,240          |         |         |         | T T     |
| 428D 4WD Backhoe             | \$3,870          |         |         |         |         |
| CS533E Vibratory Roller      | \$4,402          |         |         |         |         |
| CS663E Vibratory Roller      | \$4,291          |         |         |         |         |
| CP533E Sheepsfoot Compactor  | \$4,085          |         |         |         |         |
| CP663E Sheepsfoot Compactor  | \$6,588          |         |         |         |         |
| Light Truck - 1.5 Ton        | \$2,184          |         |         |         |         |
| Supervisor's Truck           | \$834            |         |         |         |         |
| Flatbed Truck                | \$621            |         |         |         |         |
| Air Compressor + tools       | \$597            |         |         |         |         |
| Welding Equipment            | \$405            |         |         |         |         |
| Heavy Duty Drill Rig         | \$52,018         |         |         |         |         |
| Pump (plugging) Drill Rig    | \$52,018         |         |         |         |         |
| Concrete Pump                | \$14,864         |         |         |         |         |
| Gas Engine Vibrator          | \$357            |         |         |         |         |
| Generator 5KW                | \$938            |         |         |         |         |
| HDEP Welder (pipe or liner)  | \$7,023          |         |         |         |         |
| 5 Ton Crane                  | \$7,160          |         |         |         |         |
| 20 Ton Crane                 | \$7,955          |         |         |         |         |
| 50 Ton Crane                 | \$15,154         |         |         |         |         |
| 120 Ton Crane                | \$28,943         |         |         |         |         |
| Trucks                       |                  |         |         |         |         |
| 725 (articulated)            | \$9,300          |         |         |         |         |
| 730 (articulated)            | \$14,640         |         |         |         |         |
| 735 (articulated)            | \$16,730         |         |         |         |         |
| 740 (articulated)            | \$18,820         |         |         |         |         |
| 769D                         |                  |         |         |         |         |
| 773E                         | \$18,267         |         |         |         |         |
| 777D                         | \$37,750         |         |         |         |         |
| 785C                         | \$40,948         |         |         |         |         |
| 793C                         | \$49,547         |         |         |         |         |
| 797B                         | \$89,160         |         |         |         |         |
| 613E (5,000 gal) Water Wagon | \$8,726          |         |         |         |         |
| 621E (8,000 gal) Water Wagon | \$10,006         |         |         |         |         |
| 777D Water Truck             | \$37,226         |         |         |         |         |
| 785C Water Truck             | \$40,948         |         |         |         |         |
| Dump Truck (10-12 yd°) (5)   | \$3,752          |         |         |         |         |

| (0)                             | Basis 1                 | Basis 2                | Basis 3                | Basis 4                | Basis 5                |
|---------------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
| EQUIPMENT TYPE (2)              | American                |                        |                        |                        |                        |
|                                 | Magnesium -             |                        |                        |                        |                        |
|                                 | Ontion 1 Poviced        |                        |                        |                        |                        |
| NOTES:                          |                         |                        |                        |                        |                        |
| (1) Power Equipment Source:     | Catepillar model or     |                        |                        |                        |                        |
|                                 | equivalent, LeTourneau  |                        |                        |                        |                        |
|                                 | loader, Komatsu shovels |                        |                        |                        |                        |
| (2) Power Equipment Type:       | Catepillar model or     | Catepillar model or    | Catepillar model or    | Catepillar model or    | Catepillar model or    |
|                                 | equivalent, LeTourneau  | equivalent, LeTourneau | equivalent, LeTourneau | equivalent, LeTourneau | equivalent, LeTourneau |
|                                 | loader, Komatsu         | loader, Komatsu        | loader, Komatsu        | loader, Komatsu        | loader, Komatsu        |
|                                 | shovels                 | shovels                | shovels                | shovels                | shovels                |
| (3) Drilliing Equipment Source: | RS Means Heavy          |                        |                        |                        |                        |
|                                 | Construction (2020 Q2)  |                        |                        |                        |                        |
| (4) Other Equipment Source:     | RS Means Heavy          |                        |                        |                        |                        |
|                                 | Construction (2020 Q2)  |                        |                        |                        |                        |
|                                 |                         | _                      |                        | _                      |                        |

| (2)                | Basis 1     | Basis 2   | Basis 3     | Basis 4            | Basis 5 |
|--------------------|-------------|-----------|-------------|--------------------|---------|
| EQUIPMENT TYPE (2) | Magnesium - |           |             |                    |         |
| PREVENTATIVE N     | AINTENANC   | E COST [C | ost Per Hou | ır] <sup>(1)</sup> |         |
| EQUIPMENT TYPE     | Basis 1     | Basis 2   | Basis 3     | Basis 4            | Basis 5 |
|                    | Magnesium - |           |             |                    |         |
| Bulldozers         |             |           |             |                    |         |
| D6R                | \$34.60     |           |             |                    |         |
| D6R w/ Winch       | \$34.60     |           |             |                    |         |
| D7R                | \$2.69      |           |             |                    |         |
| D8R                | \$3.49      |           |             |                    |         |
| D9R                | \$3.61      |           |             |                    |         |
| D10R               | \$3.79      |           |             |                    |         |
| D11R               | \$160.74    |           |             |                    |         |
| Wheeled Dozers     |             |           |             |                    |         |
| 824G               | \$49.58     |           |             |                    |         |
| 834G               | \$59.69     |           |             |                    |         |
| 844                | \$77.91     |           |             |                    |         |
| 854G               | \$90.20     |           |             |                    |         |
| Motor Graders      |             |           |             |                    |         |
| 120H               | \$20.32     |           |             |                    |         |
| 14G/H              | \$37.21     |           |             |                    |         |
| 16G/H              | \$50.42     |           |             |                    |         |
| 24M                | \$55.46     |           |             |                    |         |
| Track Excavators   |             |           |             |                    |         |
| 312C               | \$2.14      |           |             |                    |         |
| 320C               | \$2.38      |           |             |                    |         |
| 325C               | \$2.64      |           |             |                    |         |
| 330C               | \$3.01      |           |             |                    |         |
| 345B               | \$3.36      |           |             |                    |         |
| 365BL              | \$80.63     |           |             |                    |         |
| 385BL              | \$91.31     |           |             |                    |         |
| Scrapers           |             |           |             |                    |         |
| 631G               | \$3.22      |           |             |                    |         |
| 637G PP            | \$116.00    |           |             |                    |         |
| Wheeled Loaders    |             |           |             |                    |         |
| 924G               | \$9.33      |           |             |                    |         |
| 928G               | \$16.35     |           |             |                    |         |
| 950G               | \$2.30      |           |             |                    |         |
| 966G               | \$2.42      |           |             |                    |         |
| 972G               | \$2.53      |           |             |                    |         |
| 980G               | \$2.57      |           |             |                    |         |
| 988G               | \$57.81     |           |             |                    |         |
| 990                | \$85.58     |           |             |                    |         |
| 992G               | \$11.87     |           |             |                    |         |
| 994D               | \$122.36    |           |             |                    |         |
| L-2350             | \$203.53    |           |             |                    |         |

|  | Basis 1                 | Basis 2    | Basis 3    | Basis 4    | Basis 5    |
|--|-------------------------|------------|------------|------------|------------|
| EQUIPMENT TYPE (2)                         | American<br>Magnesium - |            |            |            |            |
| Shovels                                    | Ontion 1 Povised        |            |            |            |            |
| KOM PC2000                                 | \$400.00                |            |            |            |            |
| KOM PC3000                                 | \$183.38<br>\$218.80    |            |            |            |            |
| KOM PC4000                                 | \$254.21                |            |            |            |            |
| KOM PC5500                                 | \$279.63                |            |            |            |            |
| KOM PC8000                                 | \$307.59                |            |            |            |            |
| Hydraulic Hammers                          | ψ001.00                 |            |            |            |            |
| H-120 (fits 325)                           | N/A                     | NI/A       | NI/A       | NI/A       | NI/A       |
| H-160 (fits 345)                           | N/A<br>N/A              | N/A<br>N/A | N/A<br>N/A | N/A<br>N/A | N/A        |
| H-180 (fits 365/385)                       | N/A<br>N/A              | N/A<br>N/A | N/A<br>N/A | N/A<br>N/A | N/A<br>N/A |
| Demolition Shears                          | IN/A                    | IN/A       | 11/7       | IN/A       | IN/A       |
|  | 1 1/41                  | N1/A       | A1/A       | A1/A       | N1/A       |
| S340 (fits 322/325/330)                    | N/A                     | N/A        | N/A        | N/A        | N/A        |
| S365 (fits 330/345)<br>S390 (fits 365/385) | N/A<br>N/A              | N/A<br>N/A | N/A<br>N/A | N/A<br>N/A | N/A<br>N/A |
| ,  | IN/A                    | IN/A       | IN/A       | IN/A       | IN/A       |
| Demolition Grapples                        | 1                       | 1          | .,1        | 1          |            |
| G315 (fits 322/325)                        | N/A                     | N/A        | N/A        | N/A        | N/A        |
| G320 (fits 325/330)                        | N/A                     | N/A        | N/A        | N/A        | N/A        |
| G330 (fits 345/365)                        | N/A                     | N/A        | N/A        | N/A        | N/A        |
| Other Equipment                            |                         |            |            |            |            |
| 420D 4WD Backhoe                           | \$11.81                 |            |            |            |            |
| 428D 4WD Backhoe                           | \$12.20                 |            |            |            |            |
| CS533E Vibratory Roller                    | \$19.33                 |            |            |            |            |
| CS663E Vibratory Roller                    | \$20.65                 |            |            |            |            |
| CP533E Sheepsfoot Compactor                | \$24.87                 |            |            |            |            |
| CP663E Sheepsfoot Compactor                | \$29.78                 |            |            |            |            |
| Light Truck - 1.5 Ton                      | \$8.67                  |            |            |            |            |
| Supervisor's Truck                         | \$3.62                  |            |            |            |            |
| Flatbed Truck                              | \$3.85                  |            |            |            |            |
| Air Compressor + tools                     | \$3.38                  |            |            |            |            |
| Welding Equipment                          | \$1.92                  |            |            |            |            |
| Heavy Duty Drill Rig                       | \$278.95                |            |            |            |            |
| Pump (plugging) Drill Rig                  | \$278.95                |            |            |            |            |
| Concrete Pump Gas Engine Vibrator          | ¢1.46                   |            |            |            |            |
| Gas Engine vibrator Generator 5KW          | \$1.46<br>\$3.58        |            |            |            |            |
| HDEP Welder (pipe or liner)                | φ3.30                   |            |            |            |            |
| 5 Ton Crane                                | \$23.22                 |            |            |            |            |
| 20 Ton Crane                               | \$25.80                 |            |            |            |            |
| 50 Ton Crane                               | \$45.47                 |            |            |            |            |
| 120 Ton Crane                              | \$80.14                 |            |            |            |            |
| Trucks                                     | <b>400.1.1</b>          |            |            |            |            |
| 725 (articulated)                          | \$28.22                 |            |            |            |            |
| 730 (articulated)                          | \$2.76                  |            |            |            |            |
| 735 (articulated)                          | \$2.86                  |            |            |            |            |
| 740 (articulated)                          | \$2.97                  |            |            |            |            |
| 769D                                       | ΨΖ.31                   |            |            |            |            |
| 773E                                       | \$47.92                 |            |            |            |            |
| 777D                                       | \$95.60                 |            |            |            |            |
| 785C                                       | \$105.16                |            |            |            |            |
| 793C                                       | \$127.24                |            |            |            |            |
| 797B                                       | \$204.78                |            |            |            |            |
| 613E (5,000 gal) Water Wagon               | \$45.31                 |            |            |            |            |
| 621E (8,000 gal) Water Wagon               | \$50.66                 |            |            |            |            |
| 777D Water Truck                           | \$95.60                 |            |            |            |            |
| 785C Water Truck                           | \$105.16                |            |            |            |            |
| Dump Truck (10-12 yd3 ) (5)                | N/A                     |            |            |            |            |
|  |                         |            |            |            |            |
| (1) PM Source:                             |                         |            |            |            |            |
| (.)  |                         |            |            |            |            |

|  | Pagin 4          | Decis 2 | Decie 2     | Decis 4 | Decis F |  |  |  |  |
|--|------------------|---------|-------------|---------|---------|--|--|--|--|
| EQUIPMENT TYPE (2)                                 | Basis 1          | Basis 2 | Basis 3     | Basis 4 | Basis 5 |  |  |  |  |
| EQUIPMENT TYPE                                     | Magnesium -      |         |             |         |         |  |  |  |  |
|  | Ontion 1 Povisod |         |             |         |         |  |  |  |  |
|  |                  | (1) (   | Moor Itoms) |         |         |  |  |  |  |
| G.E.T CONSUMPTION [Cost Per Hour] (1) (Wear Items) |                  |         |             |         |         |  |  |  |  |
|  | Basis 1          | Basis 2 | Basis 3     | Basis 4 | Basis 5 |  |  |  |  |
| EQUIPMENT TYPE                                     | American         | Dasis 2 | Dasis 3     | Dasis 4 | Dasis 5 |  |  |  |  |
| Bulldozers   |                  |         |             |         |         |  |  |  |  |
| D6R  | \$2.61           |         |             |         |         |  |  |  |  |
| D6R w/ Winch                                       | \$2.61           |         |             |         |         |  |  |  |  |
| D7R  | \$3.84           |         |             |         |         |  |  |  |  |
| D8R  | \$4.86           |         |             |         |         |  |  |  |  |
| D9R  | \$6.59           |         |             |         |         |  |  |  |  |
| D10R   | \$8.22           |         |             |         |         |  |  |  |  |
| D11R   | \$16.66          |         |             |         |         |  |  |  |  |
| Wheeled Dozers                                     |                  |         |             |         |         |  |  |  |  |
| 824G   | \$1.32           |         |             |         |         |  |  |  |  |
| 834G   | \$1.70           |         |             |         |         |  |  |  |  |
| 844  | \$2.42           |         |             |         |         |  |  |  |  |
| 854G   | \$2.40           |         |             |         |         |  |  |  |  |
| Motor Graders                                      |                  |         |             |         |         |  |  |  |  |
| 120H   | \$0.62           |         |             |         |         |  |  |  |  |
| 14G/H  | \$1.38           |         |             |         |         |  |  |  |  |
| 16G/H  | \$2.00           |         |             |         |         |  |  |  |  |
| 24M  | \$2.20           |         |             |         |         |  |  |  |  |
| Track Excavators                                   |                  |         |             |         |         |  |  |  |  |
| 312C   | \$1.33           |         |             |         |         |  |  |  |  |
| 320C   | \$1.94           |         |             |         |         |  |  |  |  |
| 325C   | \$1.48           |         |             |         |         |  |  |  |  |
| 330C   | \$2.67           |         |             |         |         |  |  |  |  |
| 345B   | \$2.85           |         |             |         |         |  |  |  |  |
| 365BL<br>385BL                                     | \$3.97           |         |             |         |         |  |  |  |  |
|  | \$5.11           |         |             |         |         |  |  |  |  |
| Scrapers   |                  |         | _           |         | _       |  |  |  |  |
| 631G<br>637G PP                                    | \$1.86<br>\$2.11 |         |             |         |         |  |  |  |  |
| Wheeled Loaders                                    | φ2.11            |         |             |         |         |  |  |  |  |
|  | <b>0.40</b>      |         |             |         |         |  |  |  |  |
| 924G   | \$0.19<br>\$0.60 |         |             |         |         |  |  |  |  |
| 928G<br>950G                                       | \$0.87           |         |             |         |         |  |  |  |  |
| 966G   | \$0.87           |         |             |         |         |  |  |  |  |
| 972G   | \$1.08           |         |             |         |         |  |  |  |  |
| 980G   | \$1.41           |         |             |         |         |  |  |  |  |
| 988G   | \$2.26           |         |             |         |         |  |  |  |  |
| 990  | \$3.71           |         |             |         |         |  |  |  |  |
| 992G   | \$32.73          |         |             |         |         |  |  |  |  |
| 994D   | \$4.99           |         |             |         |         |  |  |  |  |
| L-2350   | \$9.30           |         |             |         |         |  |  |  |  |
| Shovels  |                  |         |             |         |         |  |  |  |  |
| KOM PC2000   | \$13.87          |         |             |         |         |  |  |  |  |
| KOM PC3000   | \$16.89          |         |             |         |         |  |  |  |  |
| KOM PC4000   | \$19.91          |         |             |         |         |  |  |  |  |
| KOM PC5500   | \$21.90          |         |             |         |         |  |  |  |  |
| KOM PC8000   | \$24.09          |         |             |         |         |  |  |  |  |
| Hydraulic Hammers                                  |                  |         |             |         |         |  |  |  |  |
| H-120 (fits 325)                                   | \$11.57          |         |             |         |         |  |  |  |  |
| H-160 (fits 345)                                   | \$23.24          |         |             |         |         |  |  |  |  |
| H-180 (fits 365/385)                               | \$24.96          |         |             |         |         |  |  |  |  |
| Demolition Shears                                  |                  |         |             |         |         |  |  |  |  |
|  |                  |         |             |         |         |  |  |  |  |

|                                      | Basis 1                     | Basis 2 | Basis 3 | Basis 4 | Basis 5 |
|--------------------------------------|-----------------------------|---------|---------|---------|---------|
| EQUIPMENT TYPE (2)                   | American<br>Magnesium -     |         |         |         |         |
| S340 (fits 322/325/330)              | Option 1 Povisod<br>\$20.50 |         |         |         |         |
| S365 (fits 330/345)                  | \$25.23                     |         |         |         |         |
| S390 (fits 365/385)                  | \$31.61                     |         |         |         |         |
| Demolition Grapples                  | ψο                          |         |         |         |         |
| G315 (fits 322/325)                  |                             |         |         |         |         |
| G320 (fits 325/330)                  |                             |         |         |         |         |
| G330 (fits 345/365)                  |                             |         |         |         |         |
| Other Equipment                      |                             |         |         |         |         |
| 420D 4WD Backhoe                     | CO E 4                      |         |         |         |         |
| 420D 4WD Backhoe<br>428D 4WD Backhoe | \$0.54<br>\$0.60            |         |         |         |         |
| CS533E Vibratory Roller              | \$0.00                      |         |         |         |         |
| CS663E Vibratory Roller              |                             |         |         |         |         |
| CP533E Sheepsfoot Compactor          |                             |         |         |         |         |
| CP663E Sheepsfoot Compactor          |                             |         |         |         |         |
| Light Truck - 1.5 Ton                |                             |         |         |         |         |
| Supervisor's Truck                   |                             |         |         |         |         |
| Flatbed Truck                        |                             |         |         |         |         |
| Air Compressor + tools               | N/A                         | N/A     | N/A     | N/A     | N/A     |
| Welding Equipment                    | N/A                         | N/A     | N/A     | N/A     | N/A     |
| Heavy Duty Drill Rig                 | \$9.60                      |         |         |         | . 47 .  |
| Pump (plugging) Drill Rig            | \$9.60                      |         |         |         |         |
| Concrete Pump                        | N/A                         | N/A     | N/A     | N/A     | N/A     |
| Gas Engine Vibrator                  | N/A                         | N/A     | N/A     | N/A     | N/A     |
| Generator 5KW                        | N/A                         | N/A     | N/A     | N/A     | N/A     |
| HDEP Welder (pipe or liner)          | N/A                         | N/A     | N/A     | N/A     | N/A     |
| 5 Ton Crane                          |                             |         |         |         |         |
| 20 Ton Crane                         |                             |         |         |         |         |
| 50 Ton Crane                         |                             |         |         |         |         |
| 120 Ton Crane                        |                             |         |         |         |         |
| Trucks                               |                             |         |         |         |         |
| 725 (articulated)                    | \$3.22                      |         |         |         |         |
| 730 (articulated)                    | \$3.22                      |         |         |         |         |
| 735 (articulated)                    | \$3.22                      |         |         |         |         |
| 740 (articulated)                    | \$3.22                      |         |         |         |         |
| 769D                                 | \$3.60                      |         |         |         |         |
| 773E                                 | \$4.04                      |         |         |         |         |
| 777D                                 | \$4.51                      |         |         |         |         |
| 785C                                 |                             |         |         |         |         |
| 793C                                 |                             |         |         |         |         |
| 797B                                 |                             |         |         |         |         |
| 613E (5,000 gal) Water Wagon         |                             |         |         |         |         |
| 621E (8,000 gal) Water Wagon         |                             |         |         |         |         |
| 777D Water Truck                     |                             |         |         |         |         |
| 785C Water Truck                     | <b>#</b> 0.00               |         |         |         |         |
| Dump Truck (10-12 yd3 ) (5)          | \$3.22                      |         |         |         |         |
| Notes:                               |                             |         |         |         |         |
| (1) G.E.T. Source:                   |                             |         |         |         |         |

| (0)   | Basis 1          | Basis 2                 | Basis 3 | Basis 4 | Basis 5 |
|---|------------------|-------------------------|---------|---------|---------|
| EQUIPMENT TYPE (2)  American Magnesium - Option 1 Povisod |                  |                         |         |         |         |
| TIRE COST TABL  | E [Cost Per Ti   | re <sup>(1,2,3)</sup> ] |         |         |         |
| EQUIPMENT TYPE  | Basis 1 American | Basis 2                 | Basis 3 | Basis 4 | Basis 5 |
| Bulldozers  |                  |                         |         |         |         |
| D6R   | N/A              | N/A                     | N/A     | N/A     | N/A     |
| D6R w/ Winch  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| D7R   | N/A              | N/A                     | N/A     | N/A     | N/A     |
| D8R   | N/A              | N/A                     | N/A     | N/A     | N/A     |
| D9R   | N/A              | N/A                     | N/A     | N/A     | N/A     |
| D10R  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| D11R  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| Wheeled Dozers  |                  |                         |         |         |         |
| 824G  | \$33,740.00      |                         |         |         |         |
| 834G  | \$43,505.00      |                         |         |         |         |
| 844   | \$62,020.00      |                         |         |         |         |
| 854G  | \$76,685.00      |                         |         |         |         |
| Motor Graders   |                  |                         |         |         |         |
| 120H  | \$11,025.00      |                         |         |         |         |
| 14G/H   | \$24,500.00      |                         |         |         |         |
| 16G/H   | \$35,455.00      |                         |         |         |         |
| 24M   | \$39,000.50      |                         |         |         |         |
| Track Excavators  |                  |                         |         |         |         |
| 312C  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| 320C  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| 325C  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| 330C  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| 345B  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| 365BL   | N/A              | N/A                     | N/A     | N/A     | N/A     |
| 385BL   | N/A              | N/A                     | N/A     | N/A     | N/A     |
| Scrapers  |                  |                         |         |         |         |
| 631G  | \$32,680.00      |                         |         |         |         |
| 637G PP   | \$30,280.00      |                         |         |         |         |
| Wheeled Loaders   |                  |                         |         |         |         |
| 924G  | \$4,770.00       |                         |         |         |         |
| 928G  | \$13,815.00      |                         |         |         |         |
| 950G  | \$23,085.00      |                         |         |         |         |
| 966G  | \$24,075.00      |                         |         |         |         |
| 972G  | \$29,880.00      |                         |         |         |         |
| 980G  | \$45,720.00      |                         |         |         |         |
| 988G  | \$73,350.00      |                         |         |         |         |
| 990   | \$120,195.00     |                         |         |         |         |
| 992G  | \$147,105.00     |                         |         |         |         |
| 994D  | \$161,815.50     |                         |         |         |         |
| L-2350  | \$301,680.00     |                         |         |         |         |
| Shovels   |                  |                         |         |         |         |
| KOM PC2000  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| KOM PC3000  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| KOM PC4000  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| KOM PC5500  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| KOM PC8000  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| Hydraulic Hammers   |                  |                         |         |         |         |
| H-120 (fits 325)  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| H-160 (fits 345)  | N/A              | N/A                     | N/A     | N/A     | N/A     |
| H-180 (fits 365/385)                                      | N/A              | N/A                     | N/A     | N/A     | N/A     |

|                              | Basis 1                 | Basis 2 | Basis 3 | Basis 4 | Basis 5 |
|------------------------------|-------------------------|---------|---------|---------|---------|
| EQUIPMENT TYPE (2)           | American<br>Magnesium - |         |         |         |         |
| Demolition Shears            | Ontion 1 Povisod        |         |         |         |         |
| S340 (fits 322/325/330)      | N/A                     | N/A     | N/A     | N/A     | N/A     |
| S365 (fits 330/345)          | N/A                     | N/A     | N/A     | N/A     | N/A     |
| S390 (fits 365/385)          | N/A                     | N/A     | N/A     | N/A     | N/A     |
| Demolition Grapples          |                         |         |         |         |         |
| G315 (fits 322/325)          | N/A                     | N/A     | N/A     | N/A     | N/A     |
| G320 (fits 325/330)          | N/A                     | N/A     | N/A     | N/A     | N/A     |
| G330 (fits 345/365)          | N/A                     | N/A     | N/A     | N/A     | N/A     |
| Other Equipment              |                         |         |         |         |         |
| 420D 4WD Backhoe             | \$4,770.00              |         |         |         |         |
| 428D 4WD Backhoe             | \$4,830.00              |         |         |         |         |
| CS533E Vibratory Roller      | Ψ4,830.00<br>N/A        | N/A     | N/A     | N/A     | N/A     |
| CS663E Vibratory Roller      | N/A                     | N/A     | N/A     | N/A     | N/A     |
| CP533E Sheepsfoot Compactor  | N/A                     | N/A     | N/A     | N/A     | N/A     |
| CP663E Sheepsfoot Compactor  | N/A                     | N/A     | N/A     | N/A     | N/A     |
| Light Truck - 1.5 Ton        | \$4,140.00              | IN/A    | IN/A    | 19/7    | 11/74   |
| Supervisor's Truck           | \$1,350.00              |         |         |         |         |
| Flatbed Truck                | \$1,020.00              |         |         |         |         |
| Air Compressor + tools       | Ψ1,020.00<br>N/A        | N/A     | N/A     | N/A     | N/A     |
| Welding Equipment            | N/A                     | N/A     | N/A     | N/A     | N/A     |
| Heavy Duty Drill Rig         | 14/71                   | 14// (  | 14/71   | 14/71   | 14/71   |
| Pump (plugging) Drill Rig    |                         |         |         |         |         |
| Concrete Pump                | N/A                     | N/A     | N/A     | N/A     | N/A     |
| Gas Engine Vibrator          | N/A                     | N/A     | N/A     | N/A     | N/A     |
| Generator 5KW                | N/A                     | N/A     | N/A     | N/A     | N/A     |
| HDEP Welder (pipe or liner)  | N/A                     | N/A     | N/A     | N/A     | N/A     |
| 5 Ton Crane                  | \$9,261.00              | , .     |         | .,,.    | . 4     |
| 20 Ton Crane                 | \$10,290.00             |         |         |         |         |
| 50 Ton Crane                 | \$16,530.00             |         |         |         |         |
| 120 Ton Crane                | \$42,750.00             |         |         |         |         |
| Trucks                       |                         |         |         |         |         |
| 725 (articulated)            | \$13,720.00             |         |         |         |         |
| 730 (articulated)            | \$14,980.00             |         |         |         |         |
| 735 (articulated)            | \$15,940.00             |         |         |         |         |
| 740 (articulated)            | \$17,240.00             |         |         |         |         |
| 769D                         | ¥ 11 ,= 10100           |         |         |         |         |
| 773E                         | \$69,300.00             |         |         |         |         |
| 777D                         | \$157,600.00            |         |         |         |         |
| 785C                         | \$138,688.00            |         |         |         |         |
| 793C                         | \$167,812.48            |         |         |         |         |
| 797B                         | \$322,800.00            |         |         |         |         |
| 613E (5,000 gal) Water Wagon | \$18,840.00             |         |         |         |         |
| 621E (8,000 gal) Water Wagon | \$38,960.00             |         |         |         |         |
| 777D Water Truck             | \$157,600.00            |         |         |         |         |
| 785C Water Truck             | \$138,688.00            |         |         |         |         |
| Dump Truck (10-12 yd3 ) (5)  | \$12,900.00             |         |         |         |         |
| Notes:                       |                         |         |         |         |         |
| (1) Unit Cost Basis:         |                         |         |         |         |         |
| (2) Cost Basis:              |                         |         |         |         |         |
| (3) Tire Cost Source:        |                         |         |         |         |         |
| (4) Tire Wear Source         |                         |         |         |         |         |
| (defined in model):          |                         |         |         |         |         |

#### **Labor Rates**

| File Name:  | SRCE_Cost_data-Am_Mg_Foothill_Dolon |
|-------------|-------------------------------------|
| Date:       | January 6, 2021                     |
| Cost Basis: | User Data                           |

Author/Source: New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction & EquipmentWatch & Neva

|  | New Mexico Department (                  |                          | <b>J</b> |  |         | , , <u> </u> |
|--|--|--------------------------|----------|--|---------|--------------|
| HOURLY LABOR   |  |                          |          |  |         |              |
| EQUIPMENT TYPE (1) OR                                | Basis 1                                  | Basis 2                  | Basis 3  | Basis 4  | Basis 5 | Basis 6      |
| JOB DESCRIPTION                                      | American Magnesium -<br>Option 1 Revised |                          |          |  |         |              |
| <b>EQUIPMENT OPERATORS</b>                           | - Labor Groups and B                     | ase Pay Rate (\$/hr) (2) |          |  |         |              |
| Bulldozers   |  |                          |          |  |         |              |
| D6R  | \$28.02                                  |                          |          |  |         |              |
| D6R w/ Winch<br>D7R                                  | \$28.02<br>\$28.02                       |                          |          |  |         |              |
| D8R  | \$28.02                                  |                          |          |  |         |              |
| D9R<br>D10R  | \$28.02<br>\$28.02                       |                          |          |  |         |              |
| D11R   | \$28.02                                  |                          |          |  |         |              |
| Wheeled Dozers                                       |  |                          |          |  |         |              |
| 824G<br>834G   |  |                          |          |  |         |              |
| 844  |  |                          |          |  |         |              |
| 854G   |  |                          |          |  |         |              |
| Motor Graders<br>120H                                | \$30.23                                  |                          |          |  |         |              |
| 14G/H  | \$30.23                                  |                          |          |  |         |              |
| 16G/H  | \$30.23                                  |                          |          |  |         |              |
| 24M<br>Track Excavators                              | \$30.23                                  |                          |          |  |         |              |
| 312C   | \$30.23                                  |                          |          |  |         |              |
| 320C   | \$30.23                                  |                          |          |  |         |              |
| 325C<br>330C   | \$30.23<br>\$30.23                       |                          |          |  |         |              |
| 345B   | \$30.23                                  |                          |          |  |         |              |
| 365BL<br>385BL                                       | \$30.23                                  |                          |          |  |         |              |
| Scrapers   | \$30.23                                  |                          |          |  |         |              |
| 631G   | \$28.02                                  |                          |          |  |         |              |
| 637G PP  | \$28.02                                  |                          |          |  |         |              |
| Wheeled Loaders                                      | 200.00                                   |                          |          |  |         |              |
| 924G<br>928G   | \$28.02<br>\$28.02                       |                          |          |  |         |              |
| 950G   | \$28.02                                  |                          |          |  |         |              |
| 966G<br>972G   | \$28.02<br>\$28.02                       |                          |          |  |         |              |
| 980G   | \$28.02                                  |                          |          |  |         |              |
| 988G   | \$28.02                                  |                          |          |  |         |              |
| 990<br>992G  | \$28.02<br>\$28.02                       |                          |          |  |         |              |
| 994D   | \$28.02                                  |                          |          |  |         |              |
| L-2350   | \$28.02                                  |                          |          |  |         |              |
| Shovels<br>KOM PC2000                                |  |                          |          |  |         |              |
| KOM PC3000   |  |                          |          |  |         |              |
| KOM PC4000   |  |                          |          |  |         |              |
| KOM PC5500<br>KOM PC8000                             |  |                          |          |  |         |              |
| Hydrauilc Hammers                                    |  |                          |          |  |         |              |
| H-120 (fits 325)                                     |  |                          |          |  |         |              |
| H-160 (fits 345)<br>H-180 (fits 365/385)             |  |                          |          |  |         |              |
| Demolition Shears                                    |  |                          |          |  |         |              |
| S340 (fits 322/325/330)                              |  |                          |          |  |         |              |
| S365 (fits 330/345)<br>S390 (fits 365/385)           |  |                          |          | <del>                                     </del> |         |              |
| Demolition Grapples                                  |  |                          |          |  |         |              |
| G315 (fits 322/325)                                  |  |                          |          |  |         |              |
| G320 (fits 325/330)<br>G330 (fits 345/365)           |  |                          |          |  |         |              |
| Other Equipment                                      |  |                          |          |  |         |              |
| 420D 4WD Backhoe                                     | \$28.02                                  |                          |          |  |         |              |
| 428D 4WD Backhoe                                     | \$28.02                                  |                          |          |  |         |              |
| CS533E Vibratory Roller<br>CS663E Vibratory Roller   | \$28.02<br>\$28.02                       |                          |          |  |         |              |
| CP533E Sheepsfoot Compactor                          | \$28.02                                  |                          |          |  |         |              |
| CP663E Sheepsfoot Compactor<br>Light Truck - 1.5 Ton | \$28.02<br>\$0.00                        |                          |          |  |         |              |
| Supervisor's Truck                                   | \$0.00                                   |                          |          |  |         |              |
| Flatbed Truck  |  |                          |          |  |         |              |
| Air Compressor + tools Welding Equipment             | \$27.69<br>\$27.88                       |                          |          |  |         |              |
| Heavy Duty Drill Rig                                 | \$27.88                                  |                          |          |  |         |              |
| Pump (plugging) Drill Rig                            | \$27.88                                  |                          |          |  |         |              |
| Concrete Pump Gas Engine Vibrator                    | \$14.03                                  |                          |          |  |         |              |
| Generator 5KW  | ,  |                          |          |  |         |              |

#### **Labor Rates**

| File Name:  | RCE_Cost_data-Am_Mg_Foothill_Dolon |  |  |  |  |  |
|-------------|------------------------------------|--|--|--|--|--|
| Date:       | January 6, 2021                    |  |  |  |  |  |
| Cost Basis: | User Data                          |  |  |  |  |  |

Author/Source: New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction & EquipmentWatch & Neva

| HOUDLY LABOR   |                                | <b>-</b>       |                    |        |  |        |                  |                |                  |        |                  |          |
|--|--------------------------------|----------------|--------------------|--------|--|--------|------------------|----------------|------------------|--------|------------------|----------|
| HOURLY LABOR   |                                |                | Decia              |        | Doois  | - 2    | Decia            | . 4            | Pecie            | _      | Pasia            |          |
| EQUIPMENT TYPE (1) OR JOB DESCRIPTION                            | Basis  American Mag            | nesium -       | Basis              | 3 2    | Basis  | 5 3    | Basis            | <del>3 4</del> | Basis            | 5      | Basis            | 6 6      |
|  | Option 1 Re                    | evised         |                    | •      |  | •      |                  |                |                  |        |                  |          |
| HDEP Welder (pipe or liner)                                      |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| Ton Crane  |                                | \$27.12        |                    |        |  |        |                  |                |                  |        |                  |          |
| 20 Ton Crane   |                                | \$27.12        |                    |        |  |        |                  |                |                  |        |                  |          |
| 50 Ton Crane<br>120 Ton Crane                                    |                                | \$27.12        |                    |        |  |        |                  |                |                  |        |                  |          |
|  |                                | \$27.12        |                    |        |  |        |                  |                |                  |        |                  | <u> </u> |
| Fringe Benefits  |                                |                |                    |        |  |        |                  |                |                  |        |                  | _        |
| Equip Op Fringe Benefits (\$/hr)                                 |                                |                |                    |        |  | \$0.00 |                  | \$0.00         |                  | \$0.00 |                  |          |
| Zone and Area Adjustmen  | <b>ts</b> - Miles and I        | Rates (\$I     | nr) <sup>(3)</sup> |        |  |        |                  |                |                  |        |                  |          |
| quipment Zone 1  | 0-50 miles                     | \$0.00         | none               | \$0.00 | none   | \$0.00 | none             | \$0.00         | none             | \$0.00 |                  |          |
| quipment Zone 2  | 50-150 miles                   | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| quipment Zone 3  | 150-300 miles                  | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| quipment Zone 4  | >300 miles                     | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| quipment Zone 5  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| quipment Zone 6  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| quipment Zone 7  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
|  |                                | •              |                    | •      |  |        |                  | •              |                  | •      |                  |          |
| OTES:  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| (1) Equipment Type:  | Catepillar model               |                | Catepillar model   |        | Catepillar model                                 |        | Catepillar model |                | Catepillar model |        | Catepillar model |          |
|  | or equivalent                  |                | or equivalent      |        | or equivalent                                    |        | or equivalent    |                | or equivalent    |        | or equivalent    |          |
| (2) Equipment Operator Source:                                   |                                | rtment of      |                    |        |  |        |                  |                |                  |        |                  |          |
|  | From Deming                    |                |                    |        |  |        |                  |                |                  |        |                  |          |
| RUCK DRIVERS - Labor (   | Groups and Ba                  | ase Pay        | Rate (\$/hr) (4)   |        |  |        |                  |                |                  |        |                  |          |
|  | Dump Truck                     | \$28.02        |                    |        |  |        |                  |                |                  |        |                  |          |
|  | Driver > 25 yds <              |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 25 (articulated)   | 60 vds                         |                |                    |        |  |        |                  |                |                  |        |                  |          |
|  | Dump Truck                     | \$28.02        | 2                  |        |  |        |                  |                |                  |        |                  |          |
| '30 (articulated)  | Driver > 25 yds <              |                |                    |        |  |        |                  |                |                  |        |                  |          |
| oo (articulat <del>e</del> u)                                    | 60 vds<br>Dump Truck           | \$28.02        |                    |        |  |        |                  |                |                  |        |                  |          |
|  | Driver > 25 yds <              |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 35 (articulated)   | 60 vds                         |                |                    |        |  |        |                  |                |                  |        |                  |          |
| ,  | Dump Truck                     | \$28.02        | )                  |        |  |        |                  |                |                  |        |                  |          |
|  | Driver > 25 yds <              |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 40 (articulated)   | 60 vds                         | <b>#</b> 00.00 |                    |        |  |        |                  |                |                  |        |                  |          |
|  | Dump Truck                     | \$28.02        | 2                  |        |  |        |                  |                |                  |        |                  |          |
| 69D  | Driver > 25 yds < 60 yds       |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 73E  | oo yus                         | \$28.02        | o o                |        |  |        |                  |                |                  |        |                  |          |
| 77D  | Dump Truck                     | \$28.02        | o l                |        |  |        |                  |                |                  |        |                  |          |
| 785C   |                                | , , ,          |                    |        |  |        |                  |                |                  |        |                  |          |
| 93C  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 97B  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
|  | Water Truck >                  | \$28.02        | 2                  |        |  |        |                  |                |                  |        |                  |          |
| 13E (5,000 gal) Water Wagon                                      | 2,500 gallons                  |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 0.15 (0.000   0.000   0.000                                      | Water Truck >                  | \$28.02        | 2                  |        |  |        |                  |                |                  |        |                  |          |
| 21E (8,000 gal) Water Wagon                                      | 2,500 gallons                  |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 77D Water Truck  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 85C Water Truck  | Duran Taurah                   | <b>CO4.00</b>  |                    |        |  |        |                  |                |                  |        |                  |          |
|  | Dump Truck<br>Driver > 8 yds < | \$24.92        |                    |        |  |        |                  |                |                  |        |                  |          |
| ump Truck (10-12 yd3 )   | 18 vds                         |                |                    |        |  |        |                  |                |                  |        |                  |          |
| ringe Benefits   | 10 740                         |                |                    |        |  |        |                  |                |                  |        |                  | _        |
| ruck Driver Fringe Benefits (\$/hr                               |                                | \$0.00         |                    |        |  | \$0.00 |                  | \$0.00         |                  | \$0.00 |                  |          |
| Cone and Area Adjustmen  |                                | Ψ0.00          |                    |        |  | ψ0.00  |                  | Ψ0.00          |                  | Ψ0.00  |                  |          |
|  | -                              |                |                    |        |  |        |                  |                |                  |        |                  |          |
| ruck Zone 1  | 0-50 miles                     | \$0.00         | none               | \$0.00 | none   | \$0.00 | none             | \$0.00         | none             | \$0.00 |                  |          |
| ruck Zone 2  | 50-150 miles                   | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| ruck Zone 3  | 150-300 miles                  | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| ruck Zone 4  | >300 miles                     | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| ruck Zone 5  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| ruck Zone 6  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| ruck Zone 7  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| 10750  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| OTES:  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| (4) Truck Driver Source:   |                                | rtment of      |                    |        |  |        |                  |                |                  |        |                  |          |
|  | From Deming                    |                |                    |        |  |        |                  |                |                  |        |                  |          |
| ABORERS - Labor Group  | s and Base Pa                  | ay Rate        | (\$/hr) (0,7)      |        |  |        |                  |                |                  |        |                  |          |
| eneral Laborer   | Group 1                        | \$23.88        |                    |        |  |        |                  |                |                  |        |                  |          |
| killed Laborer   | Group 4                        | \$26.14        | l .                |        |  |        |                  |                |                  |        |                  |          |
| riller's Helper  | Group 3                        | \$26.14        | ı                  |        |  |        |                  |                |                  |        |                  |          |
| odmen (reinforcing concrete)                                     | Group 1                        | \$23.88        | 3                  |        |  |        |                  |                |                  |        |                  |          |
| ement finisher   | Group 3                        | \$26.14        |                    |        |  |        |                  |                |                  |        |                  |          |
| arpenter   |                                | \$36.47        | 7                  |        |  |        |                  |                |                  |        |                  |          |
| ringe Benefits   |                                | ,              |                    |        |  |        |                  |                |                  |        |                  |          |
|  |                                | <b>#0.00</b>   |                    |        |  |        |                  |                |                  |        |                  |          |
| aborer Fringe Benefits (\$/hr) Carpenter Fringe Benefits (\$/hr) | <del> </del>                   | \$0.00         |                    |        | <del>                                     </del> |        | -                |                |                  |        |                  |          |
|  | (8)                            | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| one and Area Adjustmen   |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |
| aborer Zone 1  | 0-50 miles                     | \$0.00         | none               | \$0.00 | none   | \$0.00 | none             | \$0.00         | none             | \$0.00 |                  |          |
| aborer Zone 2  | 50-150 miles                   | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
| aborer Zone 3  | 150-300 miles                  | \$0.00         |                    |        |  |        |                  |                |                  |        |                  |          |
|  |                                |                |                    |        |  |        |                  |                |                  |        |                  |          |

#### **Labor Rates**

| File Name:  | SRCE_Cost_data-Am_Mg_Foothill_Dolon |
|-------------|-------------------------------------|
| Date:       | January 6, 2021                     |
| Cost Basis: | User Data                           |

Author/Source: New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction & EquipmentWatch & Neva

| (1)                                   | Basis                       | 1          | Basis        | 2         | Basis                 | s 3 | Basis 4 |  | Basis | 5 | Basis | 6 |
|---------------------------------------|-----------------------------|------------|--------------|-----------|-----------------------|-----|---------|--|-------|---|-------|---|
| EQUIPMENT TYPE (1) OR JOB DESCRIPTION | American Mag<br>Option 1 Re | nesium -   |              | <u>-</u>  |                       |     |         |  |       |   |       |   |
| aborer Zone 5                         |                             |            |              |           |                       |     |         |  |       |   |       |   |
| aborer Zone 6                         |                             |            |              |           |                       |     |         |  |       |   |       |   |
| aborer Zone 7                         |                             |            |              |           |                       |     |         |  |       |   |       |   |
| OTES:                                 |                             |            |              |           |                       |     |         |  |       |   |       |   |
| (6) Laborer Source:                   | New Mexico Depa             | rtment of  |              |           |                       |     |         |  |       |   |       |   |
| (7) Carpenter Source:                 | New Mexico Depa             | rtment of  |              |           |                       |     |         |  |       |   |       |   |
| (8) Zone Basis:                       | From Deming                 |            |              |           |                       |     |         |  |       |   |       |   |
| PROJECT MANAGEMENT                    |                             | CAL LAB    | OR - Base Pa | ay Rate ( | \$/hr) <sup>(9)</sup> |     |         |  |       |   |       |   |
| Project Manager                       |                             | \$72.56    |              |           | l i                   |     |         |  |       |   |       |   |
| oreman                                |                             | \$67.50    |              |           | 1                     |     |         |  |       |   |       |   |
| Field Geologist/Engineer              |                             | \$109.94   |              |           | 1                     |     |         |  |       |   |       |   |
| Field Tech/Sampler                    |                             | \$76.11    |              |           |                       |     |         |  |       |   |       |   |
| Range Scientist                       |                             | \$97.25    |              |           |                       |     |         |  |       |   |       |   |
| Senior Planning Engineer              |                             |            |              |           |                       |     |         |  |       |   |       |   |
| Project Engineer                      |                             |            |              |           |                       |     |         |  |       |   |       |   |
| Mechanic/Fitter                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       | 1   |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
| NOTES:                                |                             |            |              |           |                       |     |         |  |       |   |       |   |
| (9) Project Manager:                  | R.S.Means 2020 C            | Q2 (01 31  |              |           |                       |     |         |  |       |   |       |   |
| (9) Foreman Source:                   | R.S.Means 2020 0            | Q2 (01 31  |              |           |                       |     |         |  |       |   |       |   |
| (9) Techical Labor Source:            | Wood plc 2020 Ad            | justed for |              |           |                       |     |         |  |       |   |       |   |
| NDIRECT COSTS                         |                             |            |              |           |                       |     |         |  |       |   |       |   |
| SOCIAL SECURITY, WORK                 | MAN'S COMP                  | , INSUR    | ANCE, ETC.   |           |                       |     |         |  |       |   |       |   |
| Jnemployment (%)                      |                             | 1.84%      |              |           |                       |     |         |  |       |   |       |   |
| Retirement/SS/Medicare (%)            |                             | 7.65%      |              |           |                       |     |         |  |       |   |       |   |
| Vorkman's Compensation (%)            |                             | 13.30%     |              |           |                       |     |         |  |       |   |       |   |
| State Payroll Tax (13),(15),(17),(18  | 3)                          |            |              |           |                       |     |         |  |       |   |       |   |
|                                       | ĺ                           |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
| NOTES:                                |                             |            |              |           |                       |     |         |  |       |   |       |   |
| (10) Workman's Comp Source:           | RS Means R0131              | 13-60 NV   |              |           |                       |     |         |  |       |   |       |   |
|                                       |                             |            |              |           |                       |     |         |  |       |   |       |   |
| Inemployment Tax                      | NRS 612.540, NR             | S 612.606  |              |           |                       |     |         |  |       |   |       |   |

| File Name:  | SRCE_Cost_data-Am_Mg_Footh |
|-------------|----------------------------|
| Date:       | January 6, 2021            |
| Cost Basis: | User Data                  |
|             |                            |

Author/Source: New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction

|                                 |                        | L COST T  | <del>\D</del> LL                       |           |           |           |           |
|---------------------------------|------------------------|---|--|-----------|-----------|-----------|-----------|
| MATERIAL TYPE                   | _                      | Basis 1   | Basis 2                                | Basis 3   | Basis 4   | Basis 5   | Basis 6   |
| MATERIAL TYPE                   | <b>_</b>               | Magnesium -                                       |  |           |           |           |           |
| Revegetation Materials          |                        | Ontion 1 Povisod                                  |  |           |           |           |           |
| Seed Mixes                      |                        |   |  |           |           |           |           |
| Seed Mix                        | Units                  |   |  |           |           |           |           |
| lone                            |                        |   |  |           |           |           |           |
| Mix 1                           | Cost/Acre              | \$302.50  |  |           |           |           |           |
| Mix 2                           | Cost/Acre              | \$332.75  |  |           |           |           |           |
| Mix 3<br>Mix 4                  | Cost/Acre<br>Cost/Acre | \$363.00<br>\$393.25                              |  |           |           |           |           |
| Jser Mix 1                      | Cost/Acre              | ψυθυ.20   | ψ595.25                                |           |           |           |           |
| Jser Mix 2                      | Cost/Acre              |   |  |           |           |           |           |
| Jser Mix 3                      | Cost/Acre              |   |  |           |           |           |           |
| Jser Mix 4                      | Cost/Acre              |   |  |           |           |           |           |
| Jser Mix 5 (see Seed Mix sheet) | Cost/Acre              |   |  |           |           |           |           |
| Mariah                          | Notes:                 |   |  |           |           |           |           |
| Mulch                           | 11.2                   | ī   | T T                                    |           |           | Ī         | ī         |
| tem<br>None                     | Units                  |   |  |           |           |           |           |
| None<br>Straw Mulch             | Cost/lb                | \$0.17  | \$0.17                                 |           |           |           |           |
| Hydro Mulch                     | Cost/lb                | \$0.17  | •                                      |           |           |           |           |
| Timber Mulch                    | Cost/lb                | <b>\$0.20</b>                                     | ψ0.20                                  |           |           |           |           |
|                                 | Cost/lb                |   |  |           |           |           |           |
|                                 | Cost/lb                |   |  |           |           |           |           |
|                                 | Notes:                 | Straw Spec 60 lb.<br>bale, Cert. weed             | Straw Spec 60 lb.<br>bale, Cert. weed  |           |           |           |           |
|                                 |                        | free, (June 2019)100                              | free, (June 2019)100                   |           |           |           |           |
|                                 |                        | bales per load                                    | bales per load                         |           |           |           |           |
|                                 |                        | Granite Seed \$500                                | Granite Seed \$500                     |           |           |           |           |
|                                 |                        |   | per Ton in 50 lb bag                   |           |           |           |           |
|                                 |                        |   | Wood (Hydro) Mulch                     |           |           |           |           |
|                                 |                        | (June 2020)                                       | (June 2020)                            |           |           |           |           |
| Amendments                      |                        |   |  |           |           |           |           |
| Item                            | Units                  |   |  |           |           |           |           |
| None                            | Coot/lb                | <b>\$0.70</b>                                     | <b>\$0.70</b>                          |           |           |           |           |
| Organic Matter Treated Sludge   | Cost/lb<br>Cost/lb     | \$0.70  | \$0.70                                 |           |           |           |           |
| Chemical                        | Cost/lb                | \$0.59  | \$0.59                                 |           |           |           |           |
|                                 | Cost/lb                | ψ0.00   | 40.00                                  |           |           |           |           |
|                                 | Cost/lb                |   |  |           |           |           |           |
|                                 | Cost/lb                |   |  |           |           |           |           |
|                                 | Notes:                 | per lb. in 50 lb. bag,                            | per lb. in 50 lb. bag,                 |           |           |           |           |
|                                 |                        | 1 Ton min order                                   | 1 Ton min order                        |           |           |           |           |
|                                 |                        | Sustain 4-6-4 (June                               | Sustain 4-6-4 (June                    |           |           |           |           |
|                                 |                        | 2020)<br>Western Nevada                           | 2020)<br>Western Nevada                |           |           |           |           |
|                                 |                        |   | Supply \$29.34 per 50                  |           |           |           |           |
|                                 |                        | lb. bag 15-15-15                                  | lb. bag 15-15-15                       |           |           |           |           |
|                                 |                        | (June 2020)                                       | (June 2020)                            |           |           |           |           |
|                                 |                        |   |  |           |           |           |           |
| Well Abandonment Mat            |                        | ı   | ı                                      |           |           | 1         | ı         |
| Description                     | Units                  |   |  |           |           |           |           |
| Cement                          | 50lb bag               | \$7.57  | \$7.57                                 |           |           |           |           |
| Grout (Low Grade Bentonite)     | 50lb bag               | \$8.85  |  |           |           |           |           |
| nert Material/Cuttings          | Cy                     | <del>+ + + + + + + + + + + + + + + + + + + </del> | <b>\$2.50</b>                          |           |           |           |           |
|                                 |                        |   |  |           |           |           |           |
|                                 |                        |   | (1) Jentech Drilling                   |           |           |           |           |
|                                 | Notes:                 |   | Supply quote (June                     |           |           |           |           |
|                                 |                        | 2020) Type I,II                                   | 2020) Type I,II                        |           |           |           |           |
|                                 |                        | Cement at \$14.24                                 | Cement at \$14.24                      |           |           |           |           |
|                                 |                        | per 94 lb. bag                                    | per 94 lb. bag                         |           |           |           |           |
|                                 |                        |   | Supply (June 2020)<br>3/8 in. Chunk    |           |           |           |           |
|                                 |                        | 3/8 in. Chunk<br>Bentonite Hole Plug              | Bentonite Hole Plug                    |           |           |           |           |
|                                 |                        | at \$8.85 per 50 lb.                              | at \$8.85 per 50 lb.                   |           |           |           |           |
|                                 |                        | bag (5.75 cf/bag at                               | bag (5.75 cf/bag at                    |           |           |           |           |
|                                 |                        |   | 43 gallons slurry and                  |           |           |           |           |
|                                 |                        |   | 12.1% solids)+ 10% for bentonite chips |           |           |           |           |
|                                 |                        | added.  | added.                                 |           |           |           |           |
|                                 |                        |   |  |           |           |           |           |
| Monitoring Costs                |                        |   |  |           |           |           |           |
| Description                     | Units                  | Cost/unit   | Cost/unit                              | Cost/unit | Cost/unit | Cost/unit | Cost/unit |
|                                 |                        |   |  |           |           |           |           |

| File Name:  | SRCE_Cost_data-Am_Mg_Footh |
|-------------|----------------------------|
| Date:       | January 6, 2021            |
| Cost Basis: | User Data                  |

Author/Source: New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Constructic

|          | Basis 1  | Basis 2  | Basis 3  | Basis 4   | Basis 5    | Basis 6   |
|----------|--|--|--|-----------|------------|-----------|
| <b>=</b> | American<br>Magnesium -                                      |  |  |           |            |           |
| 1        | Ontion 1 Povisod   | <b>*</b> = = 0 //  |  |           |            |           |
|          |  | ·  |  |           |            |           |
| ea.      | \$6.51   | \$6.51   |  |           |            |           |
| ea       | \$411.00   | \$411.00   |  |           |            |           |
|          | -  | · · · · · · · · · · · · · · · · · · ·  |  |           |            |           |
|          | -  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          | <b>V.0.1.00</b>  | ψ.ισ.ι.σσ  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
| ea.      |  |  |  |           |            |           |
| ea.      |  |  |  |           |            |           |
| Notes:   | (1) WET Lab, Reno,   | (1) WET Lab, Reno,   |  |           |            |           |
|          | Nevada (July 2020)   | Nevada (July 2020)   |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  | Sample supply costs  |  |           |            |           |
|          | adjusted to 2020.  | adjusted to 2020.  |  |           |            |           |
|          | unknown.   | unknown.   |  |           |            |           |
|          |  |  |  |           |            |           |
| Unite    | Coet/unit  | Coet/unit  | Coet/unit  | Cost/unit | Cost/unit  | Cost/unit |
| Offics   | Cost/uriit   | COSt/UTII  | Cost/uriit   | Costraint | Cost/uriit | Costruint |
| len\2    | \$2.10   | \$2.10   |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
| Ψ/ΚΥΥΠ   | ψ0.0707  | ψ0.0707  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
|          |  |  |  |           |            |           |
| Notes:   | (1) Source: Oil Price  | (1) Source. Oil Plice  |  |           |            |           |
| 140103.  | Infomration Service,   | The state of the s |  |           |            |           |
|          |  |  |  |           |            |           |
|          | including freight to   | including freight to   |  |           |            |           |
|          | Nevada (July 2020).  | Nevada (July 2020).  |  |           |            |           |
|          | (0)0_0   |  |  |           |            |           |
|          |  | Source: Federal  |  |           |            |           |
|          | Source: Federal  | Source: Federal Government Vehicle   |  |           |            |           |
|          | Source: Federal<br>Government Vehicle                        | Source: Federal<br>Government Vehicle<br>Allowance Rate 2020   |  |           |            |           |
|          | Source: Federal<br>Government Vehicle<br>Allowance Rate 2020 | Government Vehicle   |  |           |            |           |
|          | ea.                      | Basis 1 American Magnesium - Ontion 1 Povisod  ea. \$2,788.41 ea. \$6.51  ea. \$411.00 ea. \$483.40 ea. \$150.00 ea. \$56.00 ea. \$56.00 ea. \$461.00 ea.  Value 1 WET Lab, Reno, Nevada (July 2020) Well pump and Sample supply costs adjusted to 2020. Original source unknown.  Units Cost/unit  \$/gal \$2.19 \$/mi \$0.58 \$/kWh \$0.0787   | American   Magnesium -   Ontion 1 Povisor   September   Septembe | Basis 1   | Basis 1    | Basis 1   |

## Nevada Standardized Bond Calculation Misc. Unit Costs

| File Name:  | SRCE_Cost_data-Am_Mg_Foothill_Dolomite_ Mine_1_12 Rev 2.xlsm |
|-------------|--|
| Date:       | January 6, 2021  |
| Cost Basis: | User Data  |

Author/Source: New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction & EquipmentWatch & Nevada

| Author/Source.   | меж мехісо дера          |                              |                         |                              |                      |           |            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | .,gc       |           |            |           |         |
|--|--------------------------|------------------------------|-------------------------|------------------------------|----------------------|-----------|------------|---|------------|-----------|------------|-----------|---------|
| MISCELLANEOUS COST TAB   | LE                       |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| IOD DESCRIPTION  |                          | Bas                          |                         | Bas                          | sis 2                | Bas       | sis 3      | Bas                                     | sis 4      | Bas       | sis 5      | Bas       | is 6    |
| JOB DESCRIPTION  |                          | American N<br>- Option 1     | //agnesium<br>  Revised |                              |                      |           |            |   |            |           |            |           |         |
| REVEGETATION   |                          | op.ion .                     | 71077000                |                              |                      |           |            |   |            |           |            |           |         |
| Item   | Units                    | Labor                        | Equip                   | Labor                        | Equip                | Labor     | Equip      | Labor                                   | Equip      | Labor     | Equip      | Labor     | Equip   |
| Seeding - Broadcast Manual (1)   | \$/acres                 | \$140.00                     | \$50.00                 | \$140.00                     | \$50.00              |           |            |   |            |           |            |           |         |
| Seeding - Broadcast Mechanical (1)   | \$/acres                 | \$140.00                     | \$50.00                 | \$140.00                     | \$50.00              |           |            |   |            |           |            |           |         |
| Seeding - Drill <sup>(1)</sup> Seeding - Hydroseeding <sup>(1)</sup>           | \$/acres                 | \$140.00<br>\$250.00         | \$120.00                | \$140.00<br>\$250.00         | \$120.00<br>\$150.00 |           |            |   |            |           |            |           |         |
| Item   | \$/acres Units           | Materials                    | \$150.00                | Materials                    | \$150.00             | Materials |            | Materials                               |            | Materials |            | Materials |         |
| Shrub Planting - bare root 6-10 in (150- 250mm) (2)                            | ea.                      |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Tree Planting - bare root 11-16 in (270- 400mm) (3)                            | ea.                      |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Cactus Planting <sup>(4)</sup>   | ea.                      |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
|  |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| NOTES:   | (1) Seeding Source:      | Source: Kalley               | Erosion                 | Source: Kelley               | Erosion              |           |            |   |            |           |            |           |         |
|  | (1) Seeding Source.      | Control (July 20             |                         | Control (July 20             |                      |           |            |   |            |           |            |           |         |
|  | (2) Shrub Source:        |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
|  | (3) Tree Source:         |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
|  | (6) 1100 000100.         |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
|  | (4) Cactus Source:       |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| BUILDING and WALL DEMOLITION   |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Item   | Units                    |                              | Premium                 |                              | Premium              |           | Premium    |   | Premium    |           | Premium    |           | Premium |
| Building Demolition  |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Lg. steel  | C.F.                     |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Lg. concrete   | C.F.                     | <u> </u>                     |                         |                              |                      | <u> </u>  |            |   |            |           |            |           |         |
| Lg. masonry<br>Lg. mixed   | C.F.                     |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Sm. steel  | C.F.                     |                              |                         |                              |                      | L_        |            | <u> </u>                                |            |           |            |           |         |
| Sm. concrete   | C.F.                     |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Sm. masonry  | C.F.                     |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Sm. wood Wall Demolition   | C.F.                     |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Block 4 in thick   | S.F.                     |                              | 20%                     |                              | 20%                  |           | 20%        |   | 20%        |           | 20%        |           |         |
| Block 6 in thick   | S.F.                     |                              | 20%                     |                              | 20%                  |           | 20%        |   | 20%        |           | 20%        |           |         |
| Block 8 in thick   | S.F.                     |                              | 20%                     |                              | 20%                  |           | 20%        |   | 20%        |           | 20%        |           |         |
| Block 12 in thick  | S.F.                     |                              | 20%                     |                              | 20%                  |           | 20%        |   | 20%        |           | 20%        |           |         |
| Conc 6 in thick Conc 8 in thick  | S.F.                     |                              | 10%<br>10%              |                              | 10%<br>10%           |           | 10%<br>10% |   | 10%<br>10% |           | 10%<br>10% |           |         |
| Conc 10 in thick   | S.F.                     |                              | 10%                     |                              | 10%                  |           | 10%        |   | 10%        |           | 10%        |           |         |
| Conc 12 in thick   | S.F.                     |                              | 10%                     |                              | 10%                  |           | 10%        |   | 10%        |           | 10%        |           |         |
| WASTE DISPOSAL   | Links                    | Matariala                    |                         | Matariala                    |                      | Metaviala |            | Matariala                               |            | Matariala |            | Matariala |         |
| Item  Rubbish and Waste Handling   | Units                    | Materials                    |                         | Materials                    |                      | Materials |            | Materials                               |            | Materials |            | Materials |         |
| Dumpster delivery (average for all sizes)                                      | ea.                      | \$51.50                      |                         | \$51.50                      |                      |           |            |   |            |           |            |           |         |
| Haul (average for all sizes)   | ea.                      | \$161.00                     |                         | \$161.00                     |                      |           |            |   |            |           |            |           |         |
| Rent per month (average for all sizes)   | ea.                      | \$55.00                      |                         | \$55.00                      |                      |           |            |   |            |           |            |           |         |
| Disposal fee per ton (tonne) (average for all sizes)                           | ton                      | \$60.50                      |                         | \$60.50                      |                      |           |            |   |            |           |            |           |         |
| NOTES:   |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
|  | Dumpster Cost Source     |                              |                         | R.S. Means H                 | Heavy                |           |            |   |            |           |            |           |         |
|  | Disposal Fee Source:     | Construction                 |                         | Construction<br>R.S. Means F | (2020 Q2).           |           |            |   |            |           |            |           |         |
|  |                          | Construction                 | (2020 Q2).              | Construction                 | (2020 Q2).           |           |            |   |            |           |            |           |         |
| Hazardous Material Handling - Solids   |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| Pickup fees 55 gal. drums  | ea.                      | \$251.00                     |                         | \$251.00                     |                      |           |            |   |            |           |            |           |         |
| Bulk material (average) Transport - truck load (80 drums, 25 cy (m3), 18 tons) | ton<br>mile              | \$409.50<br>\$5.88           |                         | \$409.50<br>\$5.88           |                      |           |            |   |            |           |            |           |         |
| Dump site disposal fee   | ton                      | \$288.50                     |                         | \$288.50                     |                      |           |            |   |            |           |            |           |         |
|  |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
| NOTES:   | id Handling Cost Source  | D.C. Manager                 | loova.                  | D C Massical                 | Joons,               |           |            |   |            |           |            |           |         |
|  |                          | Construction                 | (2019 Q2).              | R.S. Means I<br>Construction | (2019 Q2).           |           |            |   |            |           |            |           |         |
| Sc   | lid Disposal Fee Source: | 2019 Q2 R.S.                 | Means                   | 2019 Q2 R.S                  | . Means              |           |            |   |            |           |            |           |         |
| Hazardous Material Handling - Liquids  |                          | Heavy Const.                 | ave. 02 61              | Heavy Const.                 | . ave. 02 81         |           |            |   |            |           |            |           |         |
| Vacuum Truck Pickup (2200 gal or 9,700 litres)                                 | hr.                      | \$147.00                     |                         | \$147.00                     | 1                    |           |            |   | 1          |           |            |           |         |
| Vacuum Truck Pickup (5000 gal or 19,000 litres)                                | hr.                      | \$213.00                     |                         | \$213.00                     |                      |           |            |   |            |           |            |           |         |
| Dump site disposal fee   | ton                      | \$288.50                     |                         | \$288.50                     |                      |           |            |   |            |           |            |           |         |
| NOTES:   |                          |                              | _                       |                              |                      |           |            |   |            |           |            |           |         |
| NOTES:   | id Handling Cost Source  | R.S. Means F                 | łeavv                   | R.S. Means H                 | Heavv                |           |            |   |            |           |            |           |         |
|  |                          | Construction                 | (2020 Q2).              | Construction                 | (2020 Q2).           |           |            |   |            |           |            |           |         |
| Liqu   | uid Disposal Fee Source: | 2020 Q2 R.S.<br>Heavy Const. |                         | 2020 Q2 R.S<br>Heavy Const.  |                      |           |            |   |            |           |            |           |         |
| Hydrocarbon Contaminated Soils (HCS)   |                          | outy Const.                  | 2.5. 02 01              | Const.                       | 02 01                |           |            |   |            |           |            |           |         |
| Insitu Biotreatment  | C.Y                      | \$17.64                      |                         | \$17.64                      |                      |           |            |   |            |           |            |           |         |
| HCS disposal fee   | C.Y                      | \$278.50                     |                         | \$278.50                     |                      |           |            |   |            |           |            |           |         |
| NOTES:   |                          |                              |                         |                              |                      |           |            |   |            |           |            |           |         |
|  | Treatement Cost Source   | 2020 Q2 R S                  | Means                   | 2020 Q2 R.S                  | . Means              |           |            |   |            |           |            |           |         |
|  |                          | Heavy Const.                 | , ave. 02 65            | Heavy Const.                 | ., ave. 02 65        |           |            |   |            |           |            |           |         |
| H  | CS Disposal Fee Source:  | 2020 Q2 R.S.<br>Heavy Const. |                         | 2020 Q2 R.S.<br>Heavy Const. |                      |           |            |   |            |           |            |           |         |
|  |                          | 041, 001131.                 | , 4.0. 02 00            |                              | ., 4.0. 02 00        |           |            |   |            |           |            |           |         |

### Nevada Standardized Bond Calculation Misc. Unit Costs

| File Name:     | SRCE_Cost_data-Am_Mg_Foothill_Dolomite_ Mine_1_12 Rev 2.xlsm              |
|----------------|---|
| Date:          | January 6, 2021   |
| Cost Basis:    | User Data   |
| Author/Source: | New Mexico Department of Workforce Solutions Public Works Prevailing Wage |

New Mexico Department of Workforce Solutions Public Works Prevailing Wage Rates Type H - Heavy Engineering Construction & EquipmentWatch & Nevada MISCELLANEOUS COST TABLE Basis 1 Basis 2 Basis 3 Basis 4 Basis 5 Basis 6 JOB DESCRIPTION American Magnesium - Option 1 Revised UNDERGROUND OPENING CLOSURE Materials Premium Materials Premium Materials Premium Materials Premium Materials Premium Materials Premium Units Item Reinforced Concrete Bulkheads and Shaft Covers Grade walls - 15 in thick, 8 ft high \$163.00 \$163.00 C.Y Grade walls - 15 in thick, 12 ft high \$163.00 \$163.00 Elevated conc, 1-way beam & slab - 15ft span \$278.00 \$278.00 C.Y Elevated conc, 1-way beam & slab - 25ft span C.Y \$265.00 \$265.00 Materials Units Materials Materials Materials Item Materials Materials Small Adit Plugging Bat Gate (5) \$3,367.61 \$3,367.61 ea. Culvert Gate C.Y \$6,735.21 \$6,735.21 Adit Foam Plug C.Y \$336.76 \$336.76 Production Opening Foam Plug C.Y \$336.76 \$336.76 NOTES: (5) Bat Gate Source: NV BLM, 2/2006: 8 hr + 1hr NV BLM, 2/2006: 8 hr + 1hr nob/demob + 1hr setup per mob/demob + 1hr setup per gate (adjusted to 2020) gate (adjusted to 2020) (6) Foam Plug Source: NV BLM, 2/2006: 8 hr+ 1hr NV BLM, 2/2006: 8 hr+ 1hr nob/demob + 1hr setup per nob/demob + 1hr setup per adit: 16 hrs per production dit; 16 hrs per production MISC. LINEAR PROJECTS Units Materials Premium Materials | Premium | Premium | Materials | Premium | Prem Fencing Installation ft \$0.51 \$0.51 Barbed 3-strand ft \$0.68 Barbed 4-strand \$0.68 \$0.85 \$0.85 Barbed 5-strand ft Chain link 8 ft -10 ft Install ft \$38.00 \$38.00 Wood stockade fence 6 ft high - Install ft \$16.00 \$16.00 ft ft Fencing Removal Barbed 3-strand Removal ft Barbed 4-strand Removal ft Barbed 5-strand Removal ft Chain link 8 ft -10 ft Removal ft Wood, all types 4 ft -6 ft high Removal ft ft ft **Culvert Removal** 12 in (300 mm ) Diameter ft 18 in (450 mm) Diameter ft 24 in (600 mm) Diameter ft 36 in (1m) Diameter ft Pipeline Removal Plastic Pipe 3/4 in (mm) - 4 in (100 mm) diameter ft 6 in (150 mm) - 8 in (200 mm) ft 10 in (250 mm) - 18 in (450 mm) ft 20 in (500 mm) - 36 in (1 m) ft Pipe and Drainpipe Installation Water 4in (100mm) 40ft (12m) length, welded HDPE ft \$2.70 \$2.70 Water 6in (150mm) 40ft (12m) length, welded HDPE \$5.85 \$5.85 ft Nater 12in (300mm) 40ft (12m) length, welded HDPE ft \$1.74 Drain 4in (100mm) perforated PVC ft \$1.74 Drain 6in (150mm) perforated PVC ft \$4.22 \$4.22 Drain 4in (100mm) corrugated, perf or plain \$0.78 \$0.78 Orain 6in (150mm) corrugated., perf or plain ft **Drain Rock Preparation** Units Total Total Total Total Total Total C.Y \$0.50 \$0.50 Screening Misc. Units Premium ltem Premium Premium Premium Premium Premium Backhoe work **Powerline and Transformer Removal** Total Total Total **Total** Total Total Single Pole Powerlines ( \$46,80 \$46,804 mile Double Pole Powerlines (8 \$53,490 \$53,490 mile Substation ' unit \$58,997 \$58,997 NOTES: NV Energy estimate (2009) Adjusted to 2020 (7) Single Pole Source: NV Energy estimate (2009 Adjusted to 2020 (8) Double Pole Source V Energy estimate (2009) V Energy estimate (2009) Adjusted to 2020 Adjusted to 2020 (9) Transformer Source NV Energy estimate (2018) NV Energy estimate (2018)

adjusted to 2020

djusted to 2020

# Nevada Standardized Bond Calculation Misc. Unit Costs

| File Name:     | SRCE_Cost_data-Am_Mg_Foothill_Dolomite_ Mine_1_12 Rev 2.xlsm           |
|----------------|--|
| Date:          | January 6, 2021  |
| Cost Basis:    | User Data  |
| Author/Source: | New Mexico Department of Workforce Solutions Public Works Prevailing W |

| JOB DESCRIPTION                                |                       | Bas               | sis 1                                 | Bas           | sis 2         | Basis 3   |           | Bas       | sis 4     | Basis 5   |           | Basis 6   |           |
|--|-----------------------|-------------------|---------------------------------------|---------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  |                       |                   | American Magnesium - Option 1 Revised |               |               |           |           |           |           |           |           |           |           |
| EROSION, EVAPORATION and SEDIMENTATION CONTROL |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| ltem   | Units                 | Materials         | Premium                               | Materials     | Premium       | Materials | Premium   | Materials | Premium   | Materials | Premium   | Materials | Premium   |
| Rip-Rap & Rock Lining                          |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| -Rap 3/8 to 1/4 C.Y. pieces, grouted           | S.Y.                  | \$25.00           | )                                     | \$25.00       |               |           |           |           |           |           |           |           |           |
| -Rap 18 in min thick, no grout                 | S.Y.                  | \$7.65            |                                       | \$7.65        |               |           |           |           |           |           |           |           |           |
| bions, 6 in deep                               | S.Y.                  | \$7.05            |                                       | \$7.05        |               |           |           |           |           |           |           |           |           |
| bions, 9 in deep                               | S.Y.                  | \$9.85            |                                       | \$9.85        |               |           |           |           |           |           |           |           |           |
| bions, 12 in deep                              | S.Y.                  | \$14.30           | )                                     | \$14.30       |               |           |           |           |           |           |           |           |           |
| bions, 18 in deep                              | S.Y.                  | \$18.35           |                                       | \$18.35       |               |           |           |           |           |           |           |           |           |
| bions, 36 in deep                              | S.Y.                  | \$31.00           | )                                     | \$31.00       |               |           |           |           |           |           |           |           |           |
| iner Installation                              |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| ltem   | Units                 | Materials         | Premium                               | Materials     | Premium       | Materials | Premium   | Materials | Premium   | Materials | Premium   | Materials | Premium   |
| e grading                                      | S.F.                  |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| mpaction                                       | S.F.                  |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| Item   | Units                 |                   | Materials                             |               | Materials     |           | Materials |           | Materials |           | Materials |           | Materials |
| mil HDPE Liner                                 | S.F.                  |                   | \$0.57                                |               | \$0.57        |           |           |           |           |           |           |           |           |
| Construction Management Supp                   | ort                   |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| Item   | Units                 |                   | Materials                             |               | Materials     |           | Materials |           | Materials |           | Materials |           | Materials |
| ice Trailer, Furnished, no hook-ups            | month                 |                   | \$198.00                              |               | \$198.00      |           |           |           |           |           |           |           |           |
| let Portable, chemical                         | month                 |                   | \$214.20                              |               | \$214.20      |           |           |           |           |           |           |           |           |
|  |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| ODUCTION OR DEWATERING                         | WELL PUMP REMOVAL     |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| Item   | Units                 | Labor             | Equip                                 | Labor         | Equip         | Labor     | Equip     | Labor     | Equip     | Labor     | Equip     | Labor     | Equip     |
| Pump Type                                      |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| omersible <sup>(10)</sup>                      | ft to pump            | \$7.65            | \$18.86                               | \$7.65        | \$18.86       |           |           |           |           |           |           |           |           |
| e Shaft <sup>(10)</sup>                        | ft to pump            | \$7.65            | \$18.86                               | \$7.65        | \$18.86       |           |           |           |           |           |           |           |           |
|  |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| TES:   |                       |                   |                                       |               |               |           |           |           |           |           |           |           |           |
| TES:   | (10) Pump Removal Sou | rce: Boart Longve | ar Quote: June                        | Boart Longyea | r Quote: June |           |           |           |           |           |           |           |           |

| File Name:     | CostData STD 3.xls   |   |
|----------------|--|---|
| Date:          | December 1, 2005   |   |
| Cost Basis:    | Standardized Data  |   |
| Author/Source: | New Mexico Department of Workforce Solutions Public Works Prevailing | ng Wage Rates Type H - Heavy Engineering Cons |

| Administrative Cost Rates (%)  |   |                     |                     |              |            |  |  |  |  |  |
|--|---|---------------------|---------------------|--------------|------------|--|--|--|--|--|
|  | Cost Ranges for Indirect Cost Percentages |                     |                     |              |            |  |  |  |  |  |
|  | <=  | <=                  | <=                  | >            |            |  |  |  |  |  |
| <ol> <li>Engineering, Design and Construction (ED&amp;C) Plan (7)</li> </ol> | \$1,000,000                               | \$25,000,000        |                     | \$25,000,000 | Small Plan |  |  |  |  |  |
| Variable Rate  | 8%  | 6%                  |                     | 4%           |            |  |  |  |  |  |
|  | <=  | <=                  | <=                  | >            |            |  |  |  |  |  |
| 2. Contingency (8)   | \$500,000                                 | \$5,000,000         | \$50,000,000        | \$50,000,000 | Small Plan |  |  |  |  |  |
| Variable Rate  | 10%                                       | 8%                  | 6%                  | 4%           |            |  |  |  |  |  |
| 3. Insurance (9)   | 1.5%                                      | of labor costs      |                     |              |            |  |  |  |  |  |
| 4. Bond (10)   | 3.0%                                      | of the O&M costs i  | f O&M costs are >\$ | 100,000      |            |  |  |  |  |  |
| Contractor Profit (11)   | 10.0%                                     | of the O&M costs    |                     |              |            |  |  |  |  |  |
|  | <=  | <=                  | <=                  | >            |            |  |  |  |  |  |
| Contract Administration (12)   | \$1,000,000                               | \$25,000,000        |                     | \$25,000,000 |            |  |  |  |  |  |
| Variable Rate  | 10%                                       | 8%                  |                     | 6%           |            |  |  |  |  |  |
|  | 21%                                       | of contract adminis | stration            |              |            |  |  |  |  |  |

#### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

contracts over \$2,000. Wage rate estimates may include base pay, payroll loading, overhead and profit. To avoid doubte counting of any of the identified administrative costs the operator must itemize the components of their labor cost estimates or provide BLM with a signed statement, under penalty of USC 1001, that identifies what specific administrative costs are included in the quoted hourly rate.

cost of at least one drill hole for each active drill rig in the project area. Where the submitted Notice or approved Plan of Operations calls for drill holes to be plugged, but doesn't specifically require the drill holes be plugged before the drill rig has been moved from the drill pad, the reclamation cost estimate must include the plugging cost for those drill holes. For all drill holes and wells scheduled to be left open, the estimated plugging cost must be included in the reclamation cost estimate. Where the approved Plan of Operations proposes immediate mining through an area where the drilling is to occur, and the cost of the post-mining reclamation is included in the reclamation cost estimate, the cost estimate, the cost estimate, the drill reclamation cost estimate the drilling is to occur, and the cost of the post-mining reclamation is included in the reclamation cost estimate, the

3. Miscellaneous items should be itemized on accompanying worksheets.