



STATE OF
COLORADO

Wein - DNR, Clayton <clayton.wein@state.co.us>

New Horizon Mine, C-1981-008, MR-133 Preliminary Adequacy Review

1 message

Wein - DNR, Clayton <clayton.wein@state.co.us>

Tue, Oct 1, 2024 at 11:19 AM

To: "Tennyson, Tony (Colowyo)" <tony.tennyson@tristategt.org>

Good morning Tony,

Attached is the Division's Preliminary Adequacy Review Letter and Reclamation Cost Estimate for the New Horizon Mine's MR-133. Please feel free to contact me if you have any questions.

Sincerely,

Clayton Wein

Environmental Protection Specialist



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

P 720.762.6156 | F 303.832.8106

1313 Sherman Street, Room 215, Denver, CO 80203

clayton.wein@state.co.us | <https://www.drms.colorado.gov>



C-008, MR-133 PAR Letter_CCW.pdf

657K



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

October 1, 2024

Tony Tennyson
Elk Ridge Mining and
Reclamation, LLC
P.O. Box 628
27646 West 5th Avenue
Nucla, CO 81424

**RE: New Horizon Mine, Permit No. C-1981-008
Minor Revision No. 133 Preliminary Adequacy Review**

Dear Mr. Tennyson,

The Colorado Division of Reclamation, Mining and Safety (the Division) received Elk Ridge Mining and Reclamation's (ERMR) submittal of required items for a Minor Revision on September 19, 2024. The information provided allowed Minor Revision No. 133 to be called complete on September 23, 2024. The Division has completed reviewing the application submittal for MR-133 and has the following adequacy comments.

1. Please review the attached Reclamation Cost Estimate for MR-133. The Division calculated the reclamation costs associated with the revision to be \$5,716.00.

This concludes the Division's preliminary adequacy review for the New Horizon Mine's Minor Revision No. 133 application. If you have any questions or concerns, please feel free to contact me.

Sincerely,

Clayton Wein
Environmental Protection Specialist
clayton.wein@state.co.us

cc: Travis Marshall, Senior Environmental Protection Specialist DRMS GJFO



COST SUMMARY WORK

Task description: Reclamation Cost Summary for Geotech Boreholes

Site: New Horizon Mine

Permit Action: MR133

Permit/Job#: C1981008

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 10/1/2024

County: Montrose

Filename: C008-000

User: CCW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Plug and Seal 2 Geotechnical Boreholes	BOREHOLE	1	2.00	\$184
002	Equipment Mobilization for MR-133	MOBILIZE	1	7.56	\$4,108
003	Test Pits Backfill (3 pits)	EXCAVATE	1	0.13	\$67
<u>SUBTOTALS:</u>				9.69	\$4,359

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$88

Performance bond: 1.05

Total = \$46

Job superintendent: 3.84

Total = \$304

Profit: 10.00

Total = \$436

TOTAL O & P = \$874

CONTRACT AMOUNT (direct + O & P) = \$5,233

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 5.23

Total = \$274

Reclamation management and/or administration: 4.00

\$209

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,357

TOTAL BOND AMOUNT (direct + indirect) = \$5,716

BOREHOLE SEALING WORK

Task description: Plug and Seal 2 Geotechnical Boreholes

Site: New Horizon Mine

Permit Action: MR133

Permit/Job#: C1981008

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 10/1/2024

County: Montrose

Filename: C008-001

User: CCW

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Cement cap on borehole B-4	Portland cement grout - 6 in. (labor, equip, materials)	6	3	3.00	LF	\$9.68	\$29.05
Cement cap on Borehole B-5	Portland cement grout - 6 in. (labor, equip, materials)	6	3	3.00	LF	\$9.68	\$29.05
Markers for B-4 and B-5	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$46.00	\$92.00
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	1.00	EA	\$34.10	\$34.10

Job Hours: 2.00

Total Cost: \$184.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Equipment Mobilization for MR-133**Site: **New Horizon Mine**Permit Action: **MR133**Permit/Job#: **C1981008****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **10/1/2024**County: **Montrose**Filename: **C008-002**User: **CCW**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$281.20	\$59.44	1	\$340.64	\$59.44	\$250.00
Cat 311D LRR 8'- 6"Stick	14.01	\$244.29	\$59.44	1	\$303.73	\$59.44	\$250.00
Subtotals:					\$644.37	\$118.88	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$24.60	1	\$24.60	\$24.60
Water Tanker, 2,500 Gal.	\$34.10	1	\$34.10	\$34.10
Subtotals:			\$58.70	\$58.70

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>104.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,886.47</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$221.99</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.89</u>	<u>1.89</u>
Return Time (Hours):	<u>1.89</u>	<u>1.89</u>
Loading Time (Hours):	<u>0.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.00</u>	<u>NA</u>
Subtotals:	<u>3.78</u>	<u>3.78</u>

JOB TIME AND COST

Total job time: 7.56 Hours

Total job cost: \$4,108

HYDRAULIC EXCAVATOR WORK

Task description: Test Pits Backfill (3 pits)

Site: New Horizon Mine

Permit Action: MR133

Permit/Job#: C1981008

PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 10/1/2024

County: Montrose

Filename: C008-003

User: CCW

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 311D LRR 8'-6" Stick

Horsepower: 80

Attachment 1: ROPS Cab

Weight (MT): 12.74

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$244.29	NA
Operating Cost/Hour:	\$218.49	100
Operator Cost/Hour:	\$33.87	NA
Total Unit Cost/Hour:	\$496.65	
Total Fleet Cost/Hour:	\$496.65	

MATERIAL QUANTITIES

Initial volume: 9

CCY

Swell factor: 1.125

Loose volume: 10

LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: AVERAGE

Secondary Job Condition within Basic Description: AVERAGE

Cycle Time Value: 0.242 minutes

Load Bucket Capacity

Bucket Size Class: Small

Rated Capacity: 0.39 LCY (heaped)

Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925

Adjusted Capacity: 0.36 LCY

Job Condition Correction Factors

Site Altitude: 5600 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production: 89.44 LCY/Hour

Adjusted Hourly Unit Production: 74.24 LCY/Hour

Adjusted Hourly Fleet Production: 74.24 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 0.13 Hours

Unit cost: \$6.690 /LCY Total job cost: \$67