

Girardi - DNR, Chris <chris.girardi@state.co.us>

Cat Creek Drilling Project, NOI File P2024009- Adequacy Review and Cost Estimate

1 message

Girardi - DNR, Chris <chris.girardi@state.co.us>

Mon, Sep 30, 2024 at 10:40 AM

To: Sandor AOL Account <ringhoffer@aol.com>

Cc: tchristensen@solitariocorp.com, andrea.jones@usda.gov, Jared Ebert - DNR <jared.ebert@state.co.us>, Sara Stevenson-Benn - DNR <sara.stevenson-benn@state.co.us>

Hello Sandor,

Attached to this email is a copy of the Division's Adequacy Review and Cost Estimate for the Cat Creek Drilling Project NOI File P2024009.

A hard copy will not be mailed unless requested.

Please let me know if you have any questions.

Thanks, Chris

Chris Girardi

Environmental Protection Specialist Intern



P: (720) 793-3041

Physical: 1313 Sherman Street, Room 215, Denver, CO 80203

Mailing: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216

chris.girardi@state.us.co | https://drms.colorado.gov/

Cat Creek NOI Adequacy Letter and Cost Estimate.pdf



September 30, 2024

Solitario Resources Corp. Attn: Sandor Ringhoffer 4251 Kipling Street, Ste. 390 Wheat Ridge, Colorado 80033

RE: Cat Creek Drilling Project, DRMS File No. P-2024-009, Notice of Intent to Conduct Mineral Prospecting, Adequacy Review

Dear Sandor Ringhoffer,

On September 4th, 2024, the Colorado Division of Reclamation, Mining and Safety ("DRMS" or "Division") received a Notice of Intent to Conduct Prospecting Operations for Hard Rock/Metal Mines ("NOI") form. Our initial review of the NOI indicates that, as of September 12, 2024, you have satisfied the minimum requirements of the Act and the Rules to begin the review process. The Division has begun the technical review process. The following adequacy items in the NOI application need to be addressed before the application can be approved.

General Information:

1. Please indicate the locations of the CC-01 and CC-02 drill pads showing latitude and longitude or Universal Transverse Mercator (UTM) coordinates. Please specify coordinates of latitude and longitude in degrees, minutes, and seconds or in decimal degrees to an accuracy of at least five (5) decimal places. For UTM, the Applicant will need to specify North American Datum (NAD) 1927, NAD 1983, or WG 84, and the applicable zone, measured in meters.

Project Description:

- 2. Item K- The Applicant states that no water bodies will be disturbed. Is the applicant aware of any aquifer they may encounter while drilling? If so, please identify them. If an unknown water-bearing zone is encountered during drilling operations, please clarify how possible cross contamination of these zones will be prevented.
- 3. Item K- The Applicant states that approximately 5,000 gallons of water will be used daily for drilling operations from permitted private or public sources. Please clarify the source of the water that will be used for drilling operations and how this will be done in compliance with applicable Colorado water laws and regulation governing injury to existing water rights per Rule 3.1.6(1)(a).
- 4. Item 5- The Applicant states that two drill sites will have one borehole drilled on each and up to three additional boreholes if warranted. Based on this description, up to four boreholes will be drilled on each drill site for a total of eight (8) boreholes. Please clarify if this is the maximum number of boreholes that will be drilled.



- 5. Item 5- The Applicant states that the drill sites will be collared within the footprint of Road 237. Please clarify how there will not be significant disturbance to Road 237.
- 6. Item F- The Applicant states that diesel fuel will be stored in a steel tank mounted on the drill rig. Please clarify what containment measures will be used for spill prevention.

IV. Operation and Reclamation Measures:

- 7. Item 3- Please clarify the method of seeding and method of mulching to be used.
- 8. Item 7- There is a typo, 'Sadar Streambank' should read 'Sodar Streambank Wheatgrass'. Please revise.

Financial Warranty

9. Enclosed is the reclamation cost estimate for the proposed operation. Please review the estimate. If you concur with the estimate, please provide the financial warranty with all the applicable forms.

Pursuant to Rule 5.1.3(c) of the Hard Rock/Metal Mining Rules and Regulations, all adequacy items must be addressed within 60 days of this letter (by **November 29, 2024**). If this date arrives and the adequacy concerns have not been addressed and/or the additional financial warranty has not been submitted and accepted by the Division, the NOI will be denied. Please note that prospecting operations may not begin until authorized by the Division and until the Plan of Operations has been approved by the United States Forest Service.

If you have any questions, please contact me at chris.girardi@state.co.us or at (720) 793-3041.

Sincerely,

Chris Girardi

Chris Diradi

Environmental Protection Specialist Intern

EC: Sandor Ringhoffer, Solitario Resources Corp. ringhoffer@aol.com

Todd Christensen, Solitario Resources Corp. tchristensen@solitariocorp.com

Andrea Jones, USFS, <u>andrea.jones@usda.gov</u>

Jared Ebert, DRMS jared.ebert@state.co.us

Sara Stevensen-Benn, DRMS sara.stevenson-benn@state.co.us

COST SUMMARY WORK

]	Task description: Sea	ling of Boreholes and Re	claiming area			
Site:	Cat Creek Prospecting Operations	Permit Action:	New NOI Appli	cation	Permit/Job#	#: <u>P2024009</u>
<u>P</u>]	ROJECT IDENTIFICATI	<u>ON</u>				
	Task #: 000 Date: 9/26/2024 User: CMG	State: Colorado County: Conejos		A	Abbreviation: _ Filename: _	None P009-000
T	Agency or organization ASK LIST (DIRECT COS					
Task 001 002 003	Description Sealing of Boreholes Revegetation Mobilization		Form Used BOREHOLE REVEGE MOBILIZE	Fleet Size 1 1	Task Hours 234.00 8.00 3.40	Cost \$201,190 \$186 \$1,296
			<u>SUBTO</u>	TALS:	245.4	\$202,672
	NDIRECT COSTS VERHEAD AND PROFIT:	2.02			Total = \$4,	094
	Liability insurance: Performance bond: Job superintendent: Profit:	1.05 78.22 10.00	RACT AMOUNT		Total =	128 200 0,267 2,690 35,362
LI	EGAL - ENGINEERING - PRO	OJECT MANAGEMENT:				
	Financial warranty process Engineering work and/or or Reclamation managemen	contract/bid preparation:	\$0 2.00 5.00			.707 1,768
		CONTINGENCY:	0.00		Total =\$0	
			TOTAL IN	DIRECT	$T COST = _$49$	9,165
		TOTAL BON	ND AMOUNT (di	irect + in	ndirect) = <u>\$25</u>	51,837

BOREHOLE SEALING WORK

	ask description:	Sealing of Borehold				
	Cat Creek Prospecting Operations	Permit	Action:	Application	Permit/	Job#: P2024009
51 .c. _	Oper accounts			принаноп	1 CITIII	12024007
ROJEC	CT IDENTIFICATION	<u>1</u>				
Task #	: 001	State: Colo	rado	Abbrev	viation:	None
	9/23/2024	County: Cone	ijos	File	ename:	P009-001
Date						

UNIT COSTS

Borehole	Sealing/Item Method					T T •.	T . 1 G .
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal 8 Boreholes with Bentonite- 30%	Bentonite seal - 4 in. (labor, equip, materials)	3.76"	2800	6,720.00	LF	\$9.61	\$64,567.10
Seal 8 Boreholes with Cement- 70%	Portland cement grout - 4 in. (labor, equip, materials)	3.76"	2800	15,680.00	LF	\$8.71	\$136,622.98

Job Hours: 234.00 Total Cost: \$201,190.00

REVEGETATION WORK

	Cat Creek Prospecting Operations	Per	rmit Action		NOI Appli	cation	Permit/Job	#: <u>P2024009</u>
R	OJECT IDENTIFICATI	ON						
	Task #: 002 Date: 9/23/2024 User: CMG	State: County:	Colorado Conejos				oreviation: _ Filename: _	None P009-003
	Agency or organization	n name: DR	RMS					
Έ	RTILIZING							
<u> </u>	terials							
	Description			Units / Acre	Unit	Cos	t / Unit	Cost /Acre
						\$		\$
						Tot	al Fertilizer Materials Cost/Acre	\$0.00
	plication Description							Cost /Acre
				Total	l Fertilizer	Applicatio	n Cost/Acre	\$
				Total	l Fertilizer	Applicatio	n Cost/Acre	\$ \$0.00
	Description			Total	l Fertilizer	Applicatio	n Cost/Acre	\$ \$0.00 Cost /Acre
	Description LLING			Total			n Cost/Acre	\$ \$0.00
111	Description LLING			Total				\$ \$0.00 Cost /Acre
	Description LLING Description			Total				\$ \$0.00 Cost /Acre
<u> </u>	Description LLING Description EDING Seed Mix Mountain Brome - Bromar			Total		Rate – PLS LBS / Acre 3.90	g Cost/Acre Seeds per SQ. FT 6.27	\$ \$0.00 Cost /Acre \$ \$0.00 Cost /Acre
	Description LLING Description EDING Seed Mix			Total		Fotal Tillin Rate – PLS LBS / Acre	g Cost/Acre Seeds per SQ. FT	\$ \$0.00 Cost /Acre \$ \$0.00

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$272.56
	Total Seed Application Cost/Acre	\$272.56

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	3.00	BALE	\$19.71	\$59.13
Tackifier, <10 acres {Materials Only}	0.80	ACRE	\$1,459.26	\$1,167.41
Total Mulch Materials Cost/Acre				\$1,226.54

Application

Description		Cost /Acre
Weed spray, hand, aquatic area, annuals [DMG]		\$151.38
7	Total Mulch Application Cost/Acre	\$151.38

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre		
					\$		
	Totals Nursery Stock Cost / Acre						

JOB TIME AND COST

No. of Acres: 0.08 Cost /Acre: \$1,738.70

Estimated Failure Rate: 50% Cost /Acre*: \$1,738.70

*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$139.10

Reseeding Job Cost: \$69.55

Total Job Cost: \$209

Job Hours: 8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mobilization
-	

Cat Creek Prospecting Permit Action:

Site: **Operations** New NOI Application Permit/Job#: P2024009

PROJECT IDENTIFICATION

Task #:003State:ColoradoAbbreviation:NoneDate:9/23/2024County:ConejosFilename:P009-004

User: CMG

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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
ATLAS COPCO	0.25	\$197.26	\$59.44	1	\$256.70	\$59.44	\$250.00
ROC D7-11,4.0 in.							
CAT 12M	16.01	\$69.16	\$59.44	1	\$128.60	\$59.44	\$250.00

Subtotals: \$385.30 \$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, 3/4 T.	\$13.77	3	\$41.31	\$41.31
Water Tanker, 3,500 Gal.	\$82.19	1	\$82.19	\$82.19

Subtotals: \$123.50 \$123.50

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

MONTE VISTA

miles

45.00

mph

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.60	0.60
Return Time (Hours):	0.60	0.60
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	1.20	1.20

JOB TIME AND COST

Total job cost: 2.40 Hours

Total job cost: \$1,753