

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

# Passiflora NOI Project, P2024011- Adequacy Review #3 Letter and Cost Estimate

1 message

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

Tue, Dec 17, 2024 at 3:36 PM

To: HARALD HOEGBERG <geohoeg@comcast.net> Cc: "Pike, James D" <jpike@blm.gov>, Jared Ebert - DNR <jared.ebert@state.co.us>, Sara Stevenson-Benn - DNR <sara.stevenson-benn@state.co.us>

Hello Harald,

Attached to this email is a copy of the Division's Adequacy Review #3 Letter and Cost Estimate.

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** 



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

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/

PassifloraNOIAdequacyReview#3\_UpdatedCostEstimate.pdf 427K



December 17, 2024

Viscount Colorado Holdings Attn: Harald Hoegberg 1805 Turnbridge Dr. Richmond, VA 23238

# RE: Passiflora Project, DRMS File No. P-2024-011, Notice of Intent to Conduct Mineral Prospecting, Adequacy Review #3

Dear Mr. Harald Hoegberg,

On September 10<sup>th</sup>, 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. The Division sent an adequacy review letter on October 28, 2024, and on November 5, 2024 the Division received the response submitted by Viscount Colorado Holdings (VCH) for the Passiflora Project NOI. The Division sent an adequacy review #2 letter on November 13, 2024, and on December 6, 2024 the Division received a response by VCH. In addition, the Division received another response from VCH on December 16, 2024. The following adequacy items in the NOI application need to be addressed before the application can be approved.

# **Project Description:**

- 1. Item 6(G)- Please clarify where chemicals and fuel containers will be stored and containment measures in the event of a spill.
  - a. VCH Response: Please see attachment 1.
  - b. **Division Response**: The Applicant clarified spill containment measures that will be employed but failed to clarify the location of chemicals and fuel containers at the drilling operation. Please clarify this.
  - c. **Division Response**: This item was not addressed in the most recent response or in the revised application pages. Please clarify the location of chemicals and fuel containers during drilling activities.
- 2. Item 6(H)- The Applicant indicates the disturbed area will be less than 0.25 acres. See item #10 below regarding drill pads. If each of the drill pads will be affected based on the dimensions provided on topographic gradient calculations page provided by with the application, then about 0.5 acres will be affected. Please clarify and update the NOI application accordingly.
  - a. VCH Response: The drill pad calculation was prepared to show the general



gradient combined with the "before" photographs, to see if the drillers though we needed to construct pad. None of the drillers though the pads were necessary, and that the drill could be levelled using the drills hydraulics system. The "before" photographs and gradient calculations was attached to the NOI to conduct exploration for the DRMS reviewer to add support to item 5, in the application. It seems that the disturbance of 0.5 acres was calculated and includes the 5 drill pads, since drill pads will not be needed the 0.25 seems more accurate.

- b. Division Response: It appears the applicant is arguing that a "drill pad", will not need to be constructed since the natural grade of the area does not require it for the drilling operation. The Division understands this, however the drill rig, water truck, rod truck, pickups (3), mud pits, light plant, and backhoe proposed to be used will certainly disturb the ground and affect the land during the operation. These areas will need to be reclaimed in accordance with the approved plan that conforms to the performance standards of Rule 3. Topsoil must be salvaged and stockpiled prior to the drilling operation and then replaced after the drilling operation. The affected land will then need to be revegetated. Please clarify the area that will be affected by the drilling operation, including access route/roads created, topsoil storage areas, equipment storage, parking, work areas, etc.
- c. VCH Response: The top 6-8" of soil will be stockpiled in the area of the mud pits and will be returned after the completion of the hole. The area will then be re-seeded with the approved seed mix.
- d. **Division Response:** Please clarify, using a figure, to depict the location of the borehole, topsoil stockpiles, mud pits, equipment storage, parking, etc. In addition, the Applicant included pictures of topsoil and the surrounding area labeled as PF-3A. Please clarify if PF-03 will be the sole borehole location drilled as per the revised submittal. Please submit a revised map showing the location of the drill hole location in accordance with Rule 5.1.2(v).
- 3. Item 6(C)- The Applicant states the depth of the mud pits will 4 feet. However, Item 5 indicates the depth of the mud pits will be 8 feet. Please clarify this discrepancy and update the NOI application accordingly.

#### **Financial Warranty:**

- 4. Enclosed is the reclamation cost estimate for the proposed operation. Please review the estimate. DRMS must seek concurrence with the Bureau of Land Management (BLM) on the proposed financial warranty amount. In the meantime, please review the estimate and provide feedback on specific items if there are disagreements.
  - a. VCH Response: We have reviewed your reclamation cost estimate, and we do not concur. It is over 420% higher than the cost estimate calculated by BLM's Daniel Pike, with which we agree. Our calculations, based on our experience

since 2016, were around \$12,000.

- b. **Division Response**: The Division is required to hold a financial warranty sufficient to complete the reclamation plan in accordance with Rule 4.2.1. The reclamation cost estimate provided is what it would cost the Division to, plug and seal the drillholes proposed with this project and reclaim the land affected by the operation. The Division has consulted with the Bureau of Land Management regarding this, and we agree with this requirement. However, it seems there may be a discrepancy in the scope of the project in terms of number and depth of drill holes. As the applicant is proposing five drill holes at a depth of 5,000 feet each and with drill holes being 12 inches in diameter, the Division must hold a financial warranty to plug and seal these holes which is a substantial cost. If the applicant would like to revise their plan by reducing the number of drill holes, drill depths, etc. that would reduce the required financial warranty amount. The applicant will need to post the required financial warranty and receive DRMS authorization to proceed prior to conducting the prospecting operation.
- c. VCH Response: Based on our experience working in this area, we estimate that the reclamation will cost \$4,000 or less.
- d. **Division Response**: The Division is required to hold a financial warranty in the amount it would cost the State to complete reclamation in accordance with Rule 4.2.1 and Rule 5.3.3. Based on the revised NOI application provided, enclosed is the Division's cost estimate. The Division finds the reclamation liability for the project to be \$70,640. Please submit a financial warranty in this amount.

Pursuant to Rule 5.1.3(c) of the Hard Rock/Metal Mining Rules and Regulations, all adequacy items must be addressed by **December 27, 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 Bureau of Land Management.

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

Sincerely,

Chris Dirardi

Chris Girardi Environmental Protection Specialist Intern

EC: Daniel Pike, BLM, jpike@blm.gov Jared Ebert, DRMS jared.ebert@state.co.us Sara Stevensen-Benn, DRMS <u>sara.stevenson-benn@state.co.us</u>

# COST SUMMARY WORK

	sk description:	<b>Reclamation of Boreholes</b>				
Site:	Passiflora	Permit Action:	Passiflora NOI		Permit/.	Job#: <u>P2024011</u>
<u>PR</u>	OJECT IDENTIFICA	ATION				
	Task #: 000	State: Colorado			Abbreviation	
	Date: 10/21/2024 User: CMG	County: Custer			Filename	: <u>P011-000</u>
	Agency or organiza	tion name: DRMS				
TAS	SK LIST (DIRECT C	<u>OSTS)</u>	1	1		
`ask	Description		Form Used	Fleet Size	Task Hours	Cost
01	Sealing of Boreholes		BOREHOLE	1	52.00	\$48,023
01B		and Spreading of Topsoil	DOZER	1	2.20	\$193
02 03	Revegetation Mobilization to site		REVEGE MOBILIZE	1	1.00 6.17	\$134
03	Mobilization to site		MOBILIZE	1	0.17	\$4,786
			<u>SUBTO</u>	TALS:	61.	37 \$53,136
	DIRECT COSTS ERHEAD AND PROFIT: Liability insurance Performance bone Job superintenden Profi	e: 2.02 d: 1.05 t: 30.69 t: 10.00			Total = $Total = $ $Total = $ $Total = $ $Total = $ $Co & P =$	\$1,073 \$558 \$2,432 \$5,314 \$9,377 \$(2,512)
		CONT	RACT AMOUNT	(direct +	O & P) =	\$62,513
LEC	GAL - ENGINEERING -	PROJECT MANAGEMENT	:			
		essing (legal/related costs):	\$0	_	Total =	\$0
	Engineering work and/		8.00		Total =	\$5,001
		or contract/bid preparation:		_	-	
		ment and/or administration:	5.00	-	-	\$3,126
				-	Total =	
		ment and/or administration:	5.00	- - NDIRECT	Total =	\$3,126

#### BOREHOLE SEALING WORK

	Task des	scription:	Sealing of B	oreholes				
Site:	Passiflo	ra	Permi	t Action:	Passiflora N	OI P	ermit/Job#:	P2024011
	PROJEC	T IDENTIFICA	TION					
	Task #:	001	State:	Colorado		Abbreviation	: None	
	Date: User:	10/21/2024 CMG	County:	Custer		Filename:	P011-001	
	Agency	or organization n	ame:	DRMS				

#### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal 1 Borehole with Bentonite from bottom to top 20'	Bentonite seal - 4 in. (labor, equip, materials)	4.5	5000	4,980.00	LF	\$9.61	\$47,848.84
Seal 1 Borehole with Cement at top 20'	Portland cement grout - 4 in. (labor, equip, materials)	4.5	5000	20.00	LF	\$8.71	\$174.26

Job Hours:

52.00

**Total Cost**:

\$48,023.00

## BULLDOZER WORK

Task description:	Backfilling of M	ud Pits and S	Spreading of Topsoil		
e: Passiflora	Pe	rmit Action:	Passiflora NOI	Permit/Jo	b#: <u>P2024011</u>
PROJECT IDENTIF	ICATION				
Task #:         001B           Date:         12/17/202           User:         CMG	4 State: County:	Colorado Custer		Abbreviation: Filename:	None P011-001B
Agency or organized of the second sec		RMS			
Basic Machine:CaHorsepower:74Blade Type:PoAttachment:3-sShift Basis:1 p	t D3K LGP - 3P				
Cost Breakdown:			Litilization 0/		
Ownership Cost/Hour:		\$31.95	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$13.00	50		
Ripper own. Cost/Hour:		\$3.31	NA		
Ripper op. Cost/Hour:		\$1.21	50		
Operator Cost/Hour:		\$38.59	NA		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>120</u> Swell factor: <u>1.00</u> Loose volume: <b>120</b>					
Source of estimated vol Source of estimated swe factor:			ensions of Mud Pits		
HOURLY PRODUCT	<u>FION</u>				
Average push distance: Unadjusted hourly production:	50 feet 169.6 LCY	/hr			
Materials consistency description:	Loose	stockpile 1.2			
Average push gradient:	0 %				
Average site altitude:	8,010 feet				
Material weight:	1,600 lbs/LCY				
Weight description:	Top Soil				

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6445

Adjusted unit production:	109.31 LCY/hr
Adjusted fleet production:	109.31 LCY/hr

#### JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.806/LCY	

Total job time:	<b>2.20</b> Hours
Total job cost:	\$193

# **REVEGETATION WORK**

PROJECT IDENTIFICATIO			
	<u>N</u>		
Task #:       002         Date:       10/21/2024         User:       CMG	State:ColoradoCounty:Custer	 Abbreviation: Filename:	None P011-002

# <u>Materials</u>

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

## Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	1.00	20.66	\$15.85
Arizona Fescue - Redondo	2.50	28.70	\$37.66
Blue Grama - Native	1.50	24.48	\$31.99
Mountain Brome - Bromar	10.00	16.07	\$60.17
Intermediate Wheatgrass - Oahe	10.00	21.35	\$46.46
Milk Vetch, Cicer - Lutana	6.00	19.97	\$58.73
Western Wheatgrass - Native	8.00	20.20	\$72.05
Totals Seed Mix	39.00	151.43	\$322.90

#### 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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre				\$0.00	

#### JOB TIME AND COST

	No. of Acres:	0.15	Cost /Acr	e: \$595.46
Estimate	ed Failure Rate:	50%	Cost /Acre	*: \$595.46
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$89.32			
Reseeding Job Cost:	\$44.66			
Total Job Cost:	\$134			
Job Hours:	1.00			

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	n: <u>Mo</u>	bilization to site					
Passiflora		Permit	Action: Passi	flora NOI		Permit/Job#: <u>P</u> 2	2024011
PROJECT ID	ENTIFICAT	ION					
Task #: 00	03	State: C	olorado		Abbre	eviation: None	
	0/21/2024		uster			lename: P011-	
	MG						
Agency	v or organizatio	n name: DRMS	5				
EQUIPMENT	TRANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	v
				(	Cost Data Sour		
т	-la Tracata D						
Iru	ck Tractor Desc	cription: GENE	RIC ON-HIGH		(2ND HALF,	OR, 6X4, DIESEI	_ POWERED,
Tm	ick Trailer Desc	mintion:	ENEDIC EOLD			2000) ROP DECK EQU	IDMENIT
Iru	ick Traffer Desc				(25T, 50T, AI		IPIVIENI
				INAILLI	(251, 501, AI	(D 1001)	
Cost Breakdown:	<u>.</u>						
Available Rig	Canacities	0-25 Tons	26-50 Tons	51+	- Tons		
	ip Cost/Hour:	\$10.44	\$22.18		23.94		
	ng Cost/Hour:	\$26.48	\$54.55		55.65		
	or Cost/Hour:	\$22.52	\$22.52	\$2	22.52		
	er Cost/Hour:	\$0.00	\$23.53	\$2	23.53		
Total Ur	nit Cost/Hour:	\$59.44	\$122.78	\$1	25.64		
NON-ROADA	BLE EQUIP	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)		Cost/iii/uiiit	SIZC	fleet		
Atlas Capco DMM2 - 10-5/8"	0.00	\$324.36	\$59.44	1	\$383.80	\$59.44	\$250.00
Drill/Broadcast Seeder with	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Tractor Cat D3K XL - 3I	9.85	\$26.67	\$59.44	1	\$86.11	\$59.44	\$250.00
Cui Doix AL - Ji	7.05	Ψ20.07	φυν.11	_		-	-
				Subtotals:	\$570.37	\$178.32	\$750.00
ROADABLE I	EQUIPMENT	<u>[:</u>					
Mashina D	intian	Total Cost/hr/	Fleet Siz		Haul Trip	Return Trip	
Machine Descr	ipuon	Total Cost/nr/	rieet Siz	,c	maur i mp	recum mp	1

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 7-8 cy, 4x4	\$74.84	3	\$224.52	\$224.52
Water Tanker, 3,500 Gal.	\$53.90	1	\$53.90	\$53.90
		Subtotals:	\$278.42	\$278.42

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	CAÑON CITY	
Total one-way travel distance:	47.00	miles
Average Travel Speed:	45.00	mph

#### Total Non-Roadable Mob/Demob Cost \* '\* two round trips with haul rig: \$4,204.67 Total Roadable Mob/Demob Cost \*\* \*\* one round trip, no haul rig: \$581.59

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.04	1.04
Return Time (Hours):	1.04	1.04
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.09	2.09

#### JOB TIME AND COST

Total job time: 6.18 Hours

Total job cost: \$4,786