

STATE OF ALASKA
Application for Permits to Mine in Alaska (APMA)

5205690

Single Year Multi-year - Start: 2019 Finish: 2024 APMA (District/Year/Number): 5690

What type activity are you planning to perform? (1) <input type="checkbox"/> Exploration/Reclamation <input type="checkbox"/> Access Equipment <input type="checkbox"/> Mining/Reclamation <input type="checkbox"/> Suction Dredge <input checked="" type="checkbox"/> Hardrock Exploration/Reclamat <input type="checkbox"/> Reclamation		Surface estate of mineral properties: (2) <input checked="" type="checkbox"/> State (General) <input checked="" type="checkbox"/> State (Mental Health) <input type="checkbox"/> Private (Patented) <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Private (Native Corp.) <input type="checkbox"/> City or Borough	
Mineral Property Owners: (3) Company name and contact name if applicable Alyu Mining Inc., Haines Mining & Exploration Inc.	Lessee: (4) Company name and contact name if applicable Constantine North Inc.	Operator: (5) Company name and contact name if applicable Constantine Mining LLC	
Mailing Address for official correspondence: PO Box 130, Haines, AK, 99827	Mailing Address for official correspondence: Suite 320, 800 West Pender Street Vancouver BC, V6C 2V6	Mailing Address for official correspondence: Suite 320, 800 West Pender Street Vancouver BC, V6C 2V6	
Home phone# (winter): 541-785-3543	Home phone# (winter): 604-629-2348	Home phone# (winter): 604-629-2348	
Work phone# (winter): 541-785-3543	Work phone# (winter):	Work phone# (winter):	
Home phone# (summer): 541-785-3543	Home phone# (summer): 604-629-2348	Home phone# (summer): 604-629-2348	
Work phone# (summer): 541-785-3543	Work phone# (summer):	Work phone# (summer):	
Cell/Satellite:	Cell/Satellite: 604-789-6043	Cell/Satellite: 604-789-6043	
FAX: 907-766-2613	FAX:	FAX:	
E-mail: none	E-mail: <u>allegra@constantinemetals.com</u>	E-mail: <u>allegra@constantinemetals.com</u>	
Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____	Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____	Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____	
Project Name If Applicable: (6) Palmer Project	# of Workers: (7) 20-30	Start-Up/Shut Down: (Month/Day) (8) <u>05/01</u> to <u>10/31</u>	
Mining District: (9) Juneau Office, Haines Recording District	Applicable USGS Map: (10) Skagway B4	On What Stream Is This Activity? (11) Klehini River - 2 miles away	
Legal Description of mineral properties to be worked and other projected related activities (MTRS): (12) Copper River Meridian - Township 28S: R53E SEC25, 33, 34, 35, 36, R54E SEC 30, Copper River Meridian - Township 29S: R54E SEC 5, 6, R53E SEC 1, 2, 3, 12, 15			
Internal Use Only: Date Application Received Complete: <u>2/11/19</u> Adjudicator: <u>[Signature]</u> LAS Entry: _____			

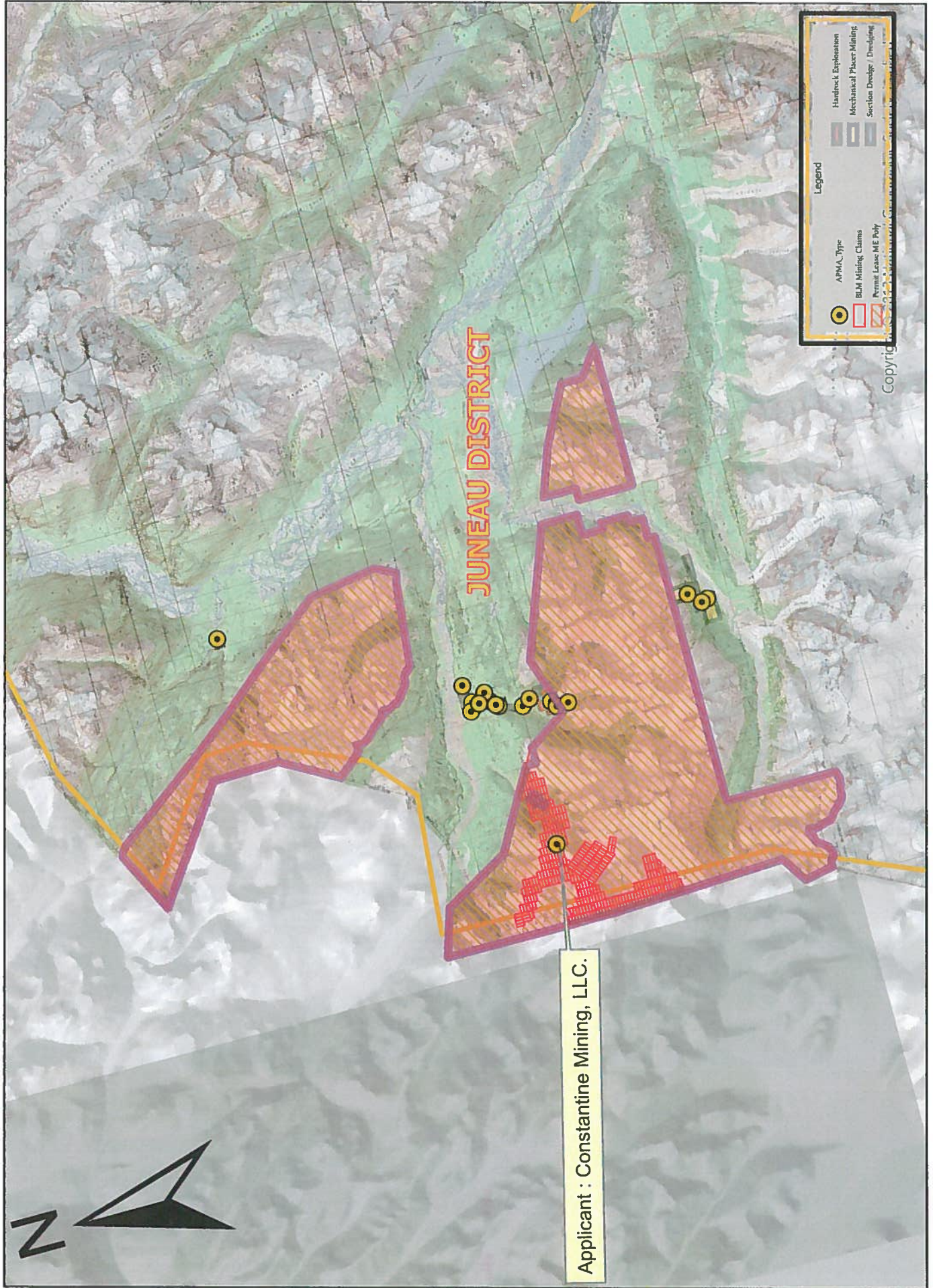
Page 1 Form 102-4071 Revised 11/2018

CID 12A679 / 21179

CID 44162

CID 62797

APMA 5690 Active Area

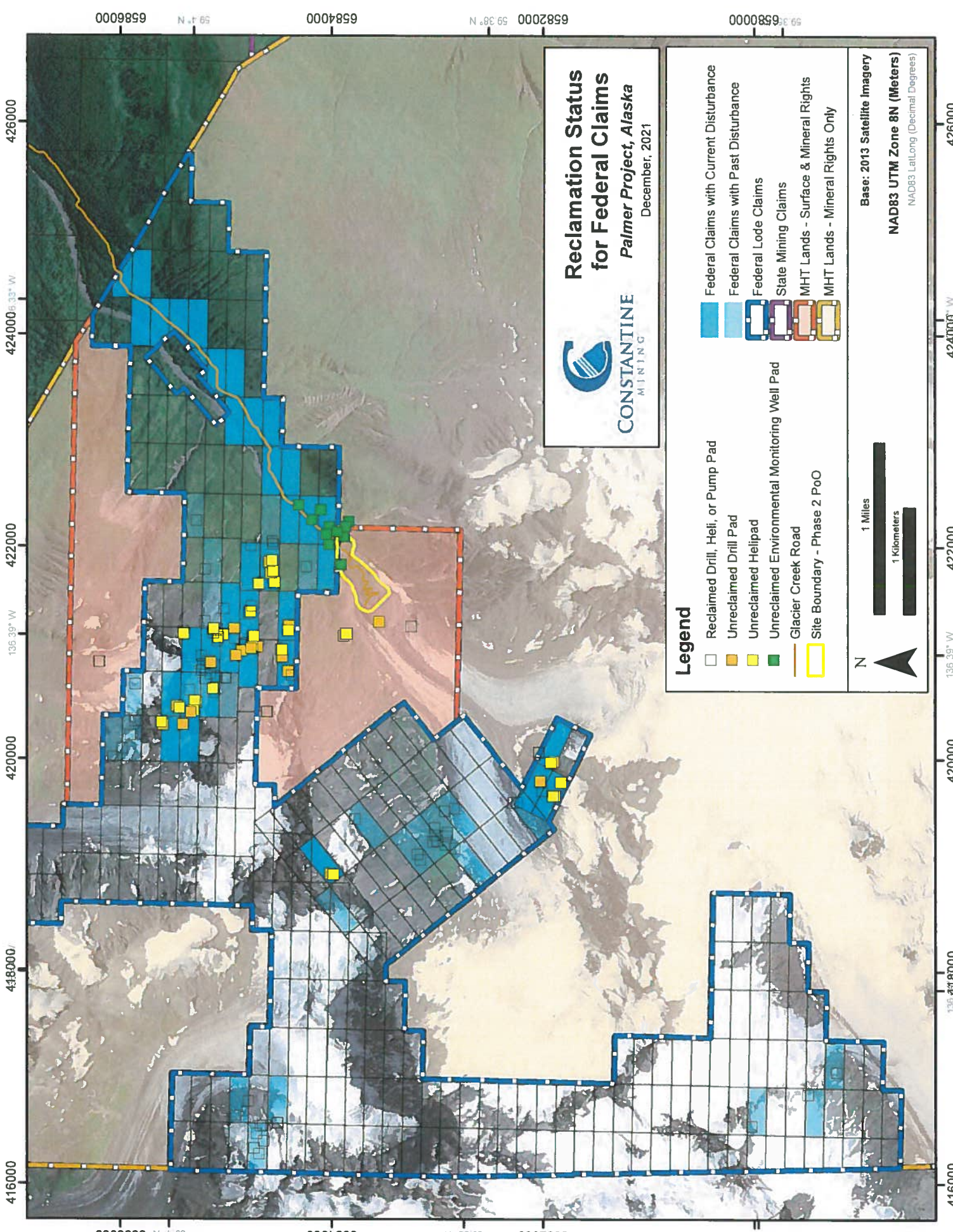


Applicant : Constantine Mining, LLC.



Center: 136°10'23"W 59°24'51"N

3/31/2022



CONSTANTINE
MINING

**Reclamation Status
for Federal Claims**
Palmer Project, Alaska
December, 2021

- Legend**
- Reclaimed Drill, Heli, or Pump Pad
 - Unreclaimed Drill Pad
 - Unreclaimed Helipad
 - Unreclaimed Environmental Monitoring Well Pad
 - Glacier Creek Road
 - Site Boundary - Phase 2 PoO
 - Federal Claims with Current Disturbance
 - Federal Claims with Past Disturbance
 - Federal Lode Claims
 - State Mining Claims
 - MHT Lands - Surface & Mineral Rights
 - MHT Lands - Mineral Rights Only

Base: 2013 Satellite Imagery

NAD83 UTM Zone 8N (Meters)
NAD83 Lat/Long (Decimal Degrees)

1 Miles
1 Kilometers

N

416000 418000 420000 422000 424000 426000

6580000 6582000 6584000 6586000 6588000

136 39° W 136 38° W 136 37° W 136 36° W 136 35° W

59 38' N 59 37' N 59 36' N

Disturbance Component	Current Unreclaimed Disturbance - Federal Claims (Acres)
Helicopter-Supported Drilling with timber-frame drill pads	0.31
2021 Overburden Drilling Pads & Access Trails	1.06
Fuel Station Fire Buffer	0.22
Linear Exploration Road (BLM only)	5.78
Equipment Laydown Area	0.5
Helipad	0.11
Fuel Station	0.05
Weather Station Clearing	0.16
Borrow Pit	0.58
Borrow Pit Extension	0.08
Quarry 1	0.56
Executive Laydown (previously Stockpile #1)	0.82
Stockpile #2	0.94
The Cut	1.13
Quarry 2	0.16
Road Pullouts	0.26
Total	12.72

2021 ANNUAL RECLAMATION STATEMENT

(32)

- Placer Mining
- Suction Dredging
- Hardrock Exploration

APMA # 5690

Complete and return this statement by December 31, 2021. ~~If you did not operate, fill in your name,~~ check bottom box, sign, and return form.

MAR 29 2022

In accordance with AS 27.19 (Reclamation Act):

I, Micheal Vande Guchte hereby file an annual reclamation statement for the 2021 mining operation described in subject Application for Permits to Mine in Alaska. (Submission of this statement does not constitute reclamation approval.)

Volume of material disturbed in 2021: n/a cubic yards (Includes strippings and processed material.)

Sluice days last season: n/a Cubic yards of material processed daily: n/a Annually: n/a

Total acreage disturbed in 2021: State 0.44, Federal 1.3, Private -. (Includes stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary stream diversions, stream bypasses, and settling ponds.) Federal operators should include area of camp and access roads.

Length n/a feet and Width n/a feet of stream diversion.

Stream diversion: Temporary Permanent No Diversion (check one).

Total Area reclaimed in 2021: 0.053 acres.

Total un-reclaimed acres: 13.2 (This should match "total acreage currently disturbed" on the 2022 Reclamation Plan Form.)

For areas reclaimed, the following reclamation measures were used (check only measures that were used).

You must include photographs or videotapes of the completed reclamation work:

- Spread and contoured tailings
- Spread topsoil, vegetation, overburden muck or fines on the surface of contoured tailings
- Reestablished flood plain with stream channel in stable position
- Ponds are reclaimed
- Backfilled and reclaimed temporary stream diversions
- Camp removed, cleaned up and left free of debris
- Hardrock Exploration: Complete and submit an electronic Annual Reclamation Report

Other Reclamation Measures Taken:

NOTE: "State" disturbance is on MHT lands.

Did not operate in 2021 and therefore did not conduct reclamation.

Relationship to Claim(s)

- Owner Lessee Operator
- Agent For: _____

Signed Michael Vande Guchte

Digitally signed by Michael Vande Guchte Date: 2021.12.31 16:02:22 -0800

Date 31-Dec-2021

2022 RECLAMATION PLAN FORM (HARDROCK EXPLORATION)

<input checked="" type="checkbox"/> A. RECLAMATION PLAN (REQUIRED if the operation will disturb five or more acres this year, OR 50,000 cubic yards, OR if the operation has a cumulative disturbed area of five or more acres).	<input type="checkbox"/> B. RECLAMATION PLAN VOLUNTARY (for an operation below limits shown in Box A but wanting to qualify for the statewide bonding pool. (Operations on BLM Lands and others not filing Letter of Intent).	<input type="checkbox"/> C. LETTER OF INTENT (33) (less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
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In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of operations with disturbance of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and for a "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, you must provide additional information concerning your plans for reclamation under separate attachments.

Total acreage currently disturbed: 13.2 acres. This should match: "Total Unreclaimed Acres" on your 2021 Annual Reclamation Statement for Small Mines, or line #7 on your 2022 Bond Pool Renewal Form. Disturbed ground includes all unreclaimed mining and exploration activity (excluding camps and roads) since October 1991. Federal operators must include areas of camps and roads.

New acres to be disturbed in 2022 7 acres. Total acreage (currently disturbed plus new acres): 20.2 acres.

Acreage disturbed by land status: na State (general) 3.5 State (Mental Health) na Private 16.7 Federal

Total acreage to be reclaimed in 2022 0.5 acres; Total volume of material to be disturbed in 2022: n/a cubic yards.

Include strippings and overburden to be removed. Cubic yards = Length (yards) x Width (yards) x Depth (yards).

Reclamation will be conducted concurrently with activity. Reclamation will be conducted at the end of the season.



THE FOLLOWING RECLAMATION MEASURES SHALL BE USED: MAR 29 2022

(These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given.)

- Topsoil, vegetation, and overburden muck, not promptly redistributed to an area being reclaimed, will be ~~individually separated and~~ stockpiled for future use. This material will be protected from erosion and from contamination by acidic or toxic materials and will not be buried by tailings.
- The area reclaimed will be reshaped to blend with the surrounding area using tailings, strippings, and overburden and be stabilized.
- Stockpiled topsoil, overburden muck, will be spread over the contoured exploration sites to promote natural plant growth such that
- Exploration trenches will be backfilled. Brush piles, stumps, topsoil, and other organics will be spread on the backfilled surface to inhibit erosion and promote natural revegetation. All exploration trenches will be reclaimed by the end of the exploration season in which they are constructed, unless specifically approved by the DMLW (Mining operations are required by law to be reclaimed as contemporaneously as practicable with the mining operation to leave the site in stable condition).
- Shallow auger holes (limited to depth of overburden) will be backfilled with drill cuttings or other locally available material in such a manner that closes the hole to minimize the risk to humans, livestock and wildlife.
- All drill hole casings will be removed or cut off at, or below, ground level. All drill holes will be plugged by the end of the exploration season with bentonite holeplug or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole. The remainder of the hole will be backfilled to the surface with drill cuttings. If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug or equivalent slurry will be placed immediately above the static water level in the drill hole. (NOTE: The operator understands that complete filling of the drill holes, from bottom to top, with bentonite holeplug or equivalent slurry is also permitted and is considered to be the preferred method of hole closure, unless communicated otherwise by DMLW.)
- If artesian conditions are encountered, the operator will take all measures practicable to prevent the offsite discharge of those waters subject to 11 AAC 97.240 and will contact the DMLW for approval of hole plugging measures.
- At closure, all shafts, adits, tunnels, and air vents to underground workings will be stabilized and properly sealed to ensure protection of the public, wildlife and the environment.
- On state lands, all buildings and structures constructed, used, or improved will be removed, dismantled, or otherwise properly disposed of unless the surface owner or manager authorizes that the buildings and structures may stay.
- On state lands, all scrap iron, equipment, tools, piping, hardware, chemicals, fuels, waste, and general construction debris will be removed or properly disposed of.
- Reclamation measures taken will be consistent with any alternative post mining land use approved by the Commissioner, subject to the provisions of 11 AAC 97.300(h) and the conditions (if any) of an approved reclamation plan.

IMPORTANT: 1. Alternative reclamation measures may be approved if the reclamation measures presented above are not applicable to your site. Please explain in separate correspondence. Submit a sketch and describe additional reclamation measures you propose to conduct at your operation. Reclamation measures must comply with AS 27.19.

BONDING: In accordance with AS 27.19, bonding is required for all operations having a mined area of ≥ five acres on State Land. This area must be bonded for \$750.00 per acre, unless the miner can demonstrate that a third party contractor can do the needed reclamation for less. The Statewide Bonding Pool may be joined by completing a bond pool application form and meeting certain requirements. No reclamation plan approval goes into effect until the bonding pool deposit and annual nonrefundable fees are paid. Use bond form to calculate area of disturbance for bonding.

BLM requires that a reclamation plan be consistent with §43 CFR 3809.420, Performance Standards for the Surface Management regulations for Federal Operations. Refer to 43 CFR 3809 or the BLM minerals website available at <https://www.blm.gov/programs/energy-and-minerals/mining-and-minerals> for more information on what is needed for a reclamation plan on Federal lands, as they may be different than those identified above.

<u>Michael Vande Guchte</u> Printed name (Applicant)	Relationship to Mineral Property: <input type="checkbox"/> Owner <input type="checkbox"/> Lessee <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Agent For: _____	Date: <u>31-Dec-2021</u> APMA #: <u>5690</u>
<u>Michael Vande Guchte</u> <small>Digitally signed by Michael Vande Guchte Date: 2021.12.31 16:04:13 -08'00'</small> Signature (Applicant)		

