STATE OF ALASKA

Application for Permits to Mine in Alaska (APMA)

☐ Single Year ____ ☑ Multi-year Start: 2021 Finish: 2025 APMA Number (A/F/J,Year,****) F#2238

What type activity are you planning to perform? *REQUIRED (1)

- ☐ Exploration/Reclamation
- ☐ Mining/Reclamation
- ☑ Hardrock Exploration/Reclamat
- ☐ Access Equipment
- ☐ Suction Dredge
- ☐ Reclamation

Surface estate of mineral properties: *REQUIRED (2)

- ☑ State (General)
- ☐ Private (Patented)
- ☐ Private (Native Corp.)
- ☐ State (Mental Health)
- ☐ Federal
- ☑ City or Borough

Mineral Property Owners: *REQUIRED (3) Individual Contact Name and Company Name	Lessee: *if applicable (4) Individual Contact Name and Company Name	Operator: *REQUIRED (5) Individual Contact Name and Company Name
Property Owner - Tanya Stolz Contact Person - Raffie Berberian	Ken Brook, Dino Titaro Avidian Gold Alaska Inc.	Ken Brook, Dino Titaro Avidian Gold Alaska Inc.
Mailing Address for official correspondence: *REQUIRED 7551 E. 45th Street Tucson, Arizona 85730-2422	Mailing Address for official correspondence: 241 Ridge Street Suite 210 Reno, Nevada, 89501	Mailing Address for official correspondence: *REQUIRED 241 Ridge Street Suite 210 Reno, Nevada, 89501
Summer phone# (Primary): *REQUIRED 520-748-2311	Summer phone# (Primary): 755.843.4872 or 647.283.7600	Summer phone# (Primary): *REQUIRED 755.843.4872 or 647.283.7600
Summer phone# (Secondary): same as above	Summer phone# (Secondary): same as above	Summer phone# (Secondary): same as above
Winter phone# (Primary): *REQUIRED 520-748-2311	Winter phone# (Primary): same as above	Winter phone# (Primary): *REQUIRED same as above
Winter phone# (Secondary): same as above	Winter phone# (Secondary): same as above	Winter phone# (Secondary): same as above
Cell/Satellite: 520-748-2311	Cell/Satellite: same as above	Cell/Satellite: same as above
FAX: N/A	FAX: N/A	FAX: N/A
E-mail: RBTG33@aol.com	E-mail: kbrook@avidiangold.com	E-mail: dtitaro@avidiangold.com
Alaska Business/Corporation Entity #: N/A Registered Agent (Corp./LLC/LP): N/A	Alaska Business/Corporation Entity #: Avidian Gold Alask: 10040073 Registered Agent (Corp./LLC/LP): CT Corporation Corp	Alaska Business/Corporation Entity #: Avidian Gold Ala 10040073 Registered Agent (Corp./LLC/LP): CT Corporation Corp
Project Name If Applicable: (6) Amanita	Average Number of Workers: *REQUIRED (7) up to 10	Start-Up/Shut Down: (Month/Day) (8) 4/1 to 11/1
Mining District: *REQUIRED (9) Fairbanks	Applicable USGS Map: *REQUIRED (10) Fairbanks (D-1)	On What Stream Is This Activity? (11) Ruby Creek, Rex Creek

RECEIVED
MAR 02 2021

Legal Description of mineral properties to be worked (MTRS) *REQUIRED (12)

Example: Fairbanks Meridian Township 001N Range 003E Sections 15, 16, and 21 or F 001N 003E Sec. 15, 16, and 21

T.1N. R1E., Sec. ; and T.1N, R.2E, Sec.

Internal Use Only:

Date Application Received Complete:_____ Adjudicator:_____ LAS Entry:_____

CID(s):_____ CID(s):_____ CID(s):_____

MINERAL PROPERTIES LIST

(13)

If requesting more than 12 claims, Are additional sheets with ADL/BLM/USMS and Legal Descriptions Attached? ☑ Yes ☐ No

Are any of these mineral properties an Upland or Offshore Mining Lease? ☑ Yes ☐ No

	ADL/BLM/USMS #	PROPERTY NAME		ADL/BLM/USMS #	PROPERTY NAME
1.	See Attached List		7.		
2.			8.		
3.			9.		
4.			10.		
5.			11.		
6.			12.		

INVENTORY OF EQUIPMENT

(14)

List all mechanized equipment to be used (make, model, type, size, purpose, and number of each, including pumps). Attach additional sheets as necessary. If you are transporting on a trailer to the claim block, include the trailer size.

	Make, Model, Type, Size, Purpose of Equipment or Pump	Quantity of this type	Check One: Located on the claim block?	Check One: Transporting to claim block?
1.	Cat D-6	1		✓
2.	John Deere 160 Excavator or equivelant	1		✓
3.	Zoom Boom	1		✓
4.	Water truck	1		✓
5.	Drill Rig	1		✓
6.	FMC 450 Triplex pump	1		✓
7.				
8.				

ACCESS OUTSIDE OF CLAIM BLOCK

(15)

Access across surface estates not owned by the State requires approval of the managing agency. It is the responsibility of the applicant to contact the owners of private property to obtain authorization for access.

All season roads may be an improved dirt road intended to be used during all seasons of the year without causing long term damage to the road. NOTE: It is strongly recommended that you contact the appropriate Regional Land Office as certain roads are subject to Generally Allowed Uses, and authorization (permit or easement) may be required for use of the route with off-road vehicles greater than 1500 lbs curb weight (like mining equipment).

A completed access map must be submitted with your application. Copies of USGS topographic maps at a scale of 1"=1 mile must clearly indicate the proposed access route from start to finish and include appropriate legal descriptions (township and range) on each map sheet. The quadrangle map name should also be indicated (Healy A-3, etc.). Paper size should be limited to 8 ½" x 11". Do not tape maps together.

Is a complete route map attached, including winter cross country travel if applicable? ☑ Yes ☐ No

Access is: ☑ Existing ☐ To be constructed off claim block ☐ Both, or ☐ Helicopter Supported

Access outside the claim block crosses what type of land(s)? ☑ State (General) ☐ State (Mental Health) ☑ City/Borough ☐ Federal ☐ Private ☐ Private (Patented) ☐ Private (Native Corp. Land)

Does the proposed route of travel include use of RS 2477 access? ☐ Yes ☐ No.

If the RS 2477 ROW has a State of Alaska RST number, please list: _____

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MINERAL PROPERTY LIST:

UPLAND MINING LEASE

ADL 233600

MINING CLAIMS

ADL's 528154 through 528169
ADL's 525994 through 526007
ADL 526008
ADLs 526010 through 528021
ADL's 336848 through 336851
ADL 347466
ADL 506842

ACCESS OUTSIDE OF CLAIM BLOCK, CONTINUED

Indicate type(s) of existing access:

- [x] All Season Road: Gilmore Dome Rd.
- [ ] Summer Cross Country Travel off of claim block that is not considered Generally Allowed Uses (Complete Box 16)
- [ ] Airstrip
- [ ] River
- [ ] Winter Cross Country Travel that is not generally allowed use (Complete Box 16)

Indicate type(s) of access to be constructed:

- [ ] Access Road
- [ ] Airstrip

Please describe your construction activities and include mitigation measures to protect water, fish and game resources. (A map outlining the route of construction activities is required). Attach additional pages if necessary:

CROSS COUNTRY TRAVEL (16)

Summer Cross Country Travel: Approvals for summer travel are issued from the DNR/DMLW Land section. Applications for LUPs may require sixty to ninety days to process and applications for easements may require six months to one year to process. A performance guarantee, insurance and fees are required before a permit will be issued and will only be released after travel is completed and no negative trail impacts have occurred.

Winter Cross Country Travel: May be approved when ground conditions will support the movement of heavy equipment. Existing roads and trails should be used whenever possible. The winter operation of ground contact vehicles for off-road travel must be limited to areas where ground frost and snow cover are adequate to prevent damage to the vegetation mat and underlying substrate. A completion report is required within 30 days of travel completion. Travel is generally not authorized after April 15th of each year (extensions may be granted as conditions allow).

A Cross Country Travel Route Map is required to obtain authorization. Is the map attached? ☐ Yes ☐ No

Name the individual(s) or business(es) who will be conducting the cross country travel:

List all equipment and vehicles being transported from box 14, including vehicle weights:

State the average total miles traveled in one round trip:_____. State the number of trips proposed:_____.

State the start and end date(s) or period(s) of proposed cross country travel:_____.

Select the following terrain type(s) that best describes your route of travel: ☐ Wetlands ☐ Tundra

☐ Uplands ☐ Rivers or Other Water Bodies ☐ Wooded Areas (6" Trees or larger at breast height)

Will water be needed to construct ramps/ ice bridges? ☐ Yes ☐ No

If Yes, estimated quantity of water will be used _____ gallons/day WaterSource: _____

CROSS COUNTRY TRAVEL, CONTINUED

Are you transporting fuel? ☐ Yes ☐ No

The volume of fuel and hazardous substances to be used is the total volume (in gallons) to be carried on one vehicle and any trailers or sleds that vehicle is towing.

Maximum volume of fuel (in gallons) that is being transported by one vehicle and any trailers or sleds it is towing:

Are you transporting other hazardous substances? ☐ Yes ☐ No If "yes", indicate type and amount (e.g. gallons, lbs, psi):

How are petroleum products contained? (i.e. drums, bladders, steel tanks, etc.) Indicate size of containers:

How are petroleum products being transported? (i.e. skid-mounted tank; trailer; 55 gallon drums on skid; etc.)

Do you have an Oil Discharge Prevention and Contingency Plan approved by the Alaska Department of Environmental Conservation? ☐ Yes ☐ No

Do you have either a trained spill response team or a contract with a spill response company? ☐ Yes ☐ No

Describe any measures you plan to take to minimize drips or spills from leaking equipment or vehicles:

Does your cross country travel include the staging or storage of equipment or structures off the claim block? ☐ Yes ☐ No

If Yes, describe the location and dimensions of the long term or short term parking and/or storage areas.

PETROLEUM PRODUCTS AT PROJECT SITE (17)

Will Petroleum Products Be Stored on the Project Site?

☐ 0-1,320 gallons of total storage (Secondary Containment recommended, but not required)

☐ 1,321-10,000 gallons of total storage (count only containers greater than 55 gallon capacity). A self-certified Spill Prevention, Control, and Countermeasure (SPCC) plan is required and applies to all products, such as diesel fuel, gasoline, lube oil, hydraulic oil and waste oil. The self certified SPCC form can be downloaded at: https://www.sfdph.org/dph/files/EHSdocs/ehsHMUPAdocs/TIERIQFSPCCPlan.pdf

BLM Operators are required to fill out the BLM Spill contingency plan that can be downloaded at: https://www.blm.gov/node/5393

☐ 10,000+ gallons of total storage (count only containers with 55 gallons or greater storage capacity). An SPCC certified by a professional engineer is required and applies to all oil products, such as diesel fuel, gasoline, lube oil, hydraulic oil and waste oil.

Indicate Distance Stored From Flowing Waters:
water bodies required by DNR is 100 feet). _____ Feet. (Minimum distance from naturally occurring

Is waste oil stored on the project site? ☐ Yes ☐ No If yes, describe quantity and storage modality: _____.

Are fuel containment berms around storage containers? ☐ Yes ☐ No Is berm area lined? ☐ Yes ☐ No

TEMPORARY STRUCTURES/FACILITIES (18)

Is a camp or placement of *any* temporary structure requested? ☑ Yes ☐ No
If No, Please explain: small conex at drill pad one to be used as a well house for a pump

Describe all temporary improvements (including buildings, tent platforms, out-buildings, etc., including thier quantity, dimensions and building type.

What type of property is the camp located on? ☐ State ☐ Federal ☐ Private (Patented) ☑ City or Borough ☐ MHTL
If camp is on private land, provide location:

Proposed Perimeter Dimensions of Camp: _____ length (ft) _____ Width (feet).

☐ Request use of existing facilities, list ADL(s):
☐ Year-Round ☐ Seasonal, from Approx. _____ to _____, annually.

☐ Request to place temporary structures, list ADL(s):
☐ Year-Round ☐ Seasonal, from Approx. _____ to _____, annually.

	Temporary New Structures Quantity	Existing Structure Quantity	Use (Shop, office, etc.)	Dimensions (ft x ft)	Dimensions (ft x ft)	Dimensions (ft x ft)
Framed						
Tent						
Trailer						
Platforms						
Out-Buildings						
Other:	conex	one	well house for pump	10 x 10		

** If Required, list any other structures on a seperate sheet, include dimensions, use and type.*

Grey water and Biological Waste - Describe storage and proposed method of disposal(*e.g.*; leach line, septic, holding tank, or pit privy).

N/A

Solid Waste - Describe the types of waste that will be generated on-site including garbage, scrap metal, industrial; and describe its disposal (*e.g.;* burn, haul away, buried).

N/A

What is the distance grey water, biological, and solid waste will be located from the ordinary high water mark of the nearest freshwater body (lake, stream, river, rivulet, etc.), or the mean high water mark of a saltwater body:
Will there be any use of animals (horses, dogs, goats/sheep, etc)? ☐ Yes ☐ No

Dismantle, Removal, and Restoration Plan: Provide a plan for dismantling and removing temporary structures. Include the method and timeline for restoration of all stucture location areas. **Be sure to include this in your narrative as part of your reclamation, See Section 31.**

MINING METHOD

(19)

☐ Mechanical Placer Mining (e.g., terrestrial open-cut operations with dozer or excavator, etc.)
Estimated cubic yards processed annually: _____
☐ Suction dredge ☐ Mechanical dredge (e.g., excavator or clam-shell)

List all suction and mechanical dredges. If information is not applicable, write "N/A." Attach extra sheet if necessary.

	Dredge 1		Dredge 2		Dredge 3	
Vessel ID (Name or Number)						
Vessel Dimensions						
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches:	HP:	Inches:	HP:	Inches:	HP:
Mechanical Dredge Bucket Volume	Cubic Yards:		Cubic Yards:		Cubic Yards:	
Processing Rate	Yds.^{3}/Hr.:		Yds.^{3}/Hr.:		Yds.^{3}/Hr.:	
Wastewater Discharge Rate	GPM:		GPM:		GPM:	
Maximum Water Depth	Feet:		Feet:		Feet:	
Average Daily Operating Hours						
Operation on Sea Ice (Yes/No)	Yes ☐ / No ☐		Yes ☐ / No ☐		Yes ☐ / No ☐	
Vessel Registration # / State	#:	State:	#:	State:	#:	State:

Location: ☐ Offshore / Salt Water ☐ Pond connected to stream
☐ Stream
☐ Mine cut isolated from stream ☐ Pond isolated from stream

EXPLORATION TRENCHING and DRILLING

(20)

(Indicate target and trenching locations on sketch sheet and/or topographic map)

Trenching: ☑ Yes ☐ No
Estimated number of trenches to be excavated: 3 . How long will trenches be open? less than 30 days
Average Size: Length: 250 meters Feet Width: 25 Feet Depth: up to 15 Feet

Drilling: ☑ Yes ☐ No
Total Number of Holes To Be Drilled: 60 Type of Drill(s) Used: Core
Estimated Maximum Depth: 400 m or 1300 Feet Diameter of Drill Rod/Casing Rod H (NQ/HQ/H,Etc.).
Will water be used? ☑ Yes ☐ No Indicate how many pumps per water source: one
Water source name(s): Ruby Creek, Rex Creek, Drill Hole on drill pad 1 AM20-01

Describe detailed drill plan, closure, plugging methodology, reclamation and abandonment in project narrative.

Trench/Drilling Location and Mining Claim Information			
Trench/Drill ID on Map	ADL/BLM/USMS NUMBER	Decimal Degrees, NAD 83 Datum	
		Latitude	Longitude (approximate)
trench A extension	ADL 528150	480300	720612
Trench C extension	ADL 525990	479465	7201715
Trench D extension	ADL 525993	479306	7201509
Upland Lease	ADL 233600	See Attachment 3	

If more than 8 trenches/drill sites, please provide data in tabular format (http://dnr.alaska.gov/mlw/forms/19apma/AHEA_ReclamationSpreadsheet.xls.)

EXPLOSIVES (21)

Will explosives be used? ☐ Yes ☑ No If "Yes", Indicate: Type: _____ Amount: _____

Explosive Handler's Certification/ATF Permit Numbers: _____

Describe your blast design, blast schedule, and explosives handling plan in the project narrative.

DAMS (22)

☑ No dam required ☐ Existing ☐ To be constructed

Proposed Structure: ☐ Temporary ☐ Permanent

Purpose: ☐ Makeup water pond ☐ Settling/recycle pond ☐ Stream diversion Other: _____

Length: _____ ft Height: _____ ft Width At Crest: _____ ft Width At Base: _____ ft

Note: Height should be measured from the lowest point at either the upstream or downstream toe of the dam to the crest of the dam.

Water impoundment capacity (if known): _____ acre-feet

IN-STREAM ACTIVITIES and STREAM CROSSINGS (23)

List any equipment that will be crossing streams (including low-water crossings along established trails/roads) or used in any natural waterbody (refer to Box 14 if necessary).or used in-stream (refer to Box 14 if necessary):

List all stream crossings, suction dredge or pump locations, including unnamed streams.

	Stream Name/ Water Source	NAD 83 Datum (approximate) Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/mapper/controller		MTRSC ¼ ¼ Ex: F001S001N01 SWSW	Check boxes to indicate type(s) of activity		
		Latitude ddd.mmmm	Longitude -ddd.mmmm		Crossing	Dredging	Water Intake
1.	Ruby Creek						✓
2.	Rex Creek						✓
3.							
4.							
5.							

If in-stream activities and/or stream crossings are requested at more than 5 locations, please provide tabular data format (DNR template available at http://dnr.alaska.gov/mlw/forms/?tab=mining).

WATER USE AUTHORIZATIONS

Water usage (including from 100% recycle systems) may require approval by either Temporary Water Use Authorization or a Water Right. Information provided below will be used to determine the quantity of water that you may be authorized to use for your mining operation. When estimating water quantities, please estimate withdrawal amounts typical of a dry summer and provide the maximum quantity that you may withdraw from a particular source (e.g. stream, pond, groundwater, etc.) in a season.

A Temporary Water Use Authorization application may be initiated from this APMA application unless a Water Right is requested. Please contact the ADNR, Water Resources Section at telephone number (907) 451-2790 if interested in a Water Right or for more information.

A. START-UP WATER AND MAKE-UP WATER:

Is water withdrawn from any lake, stream, creek, river, etc. (does not include recycling/settling ponds)? ☑ Yes ☐ No

What is the name(s) of the lake, stream, creek, river, etc.? Ruby Creek, Drill Hole Pad One

What are the months of water use needed (for example May 1st through October 31st)? April 1 thru November 1

Start-up water: Is water required at the start of the season ***to fill*** your recycle/settling pond system?

☑ Yes (if **YES**, complete information below). ☐ No If yes, what is the source name? Ruby Ck, Rex Ck, AM20

Source:
- ☐ Seepage infiltration from groundwater gained from cut and/or stream
- ☐ Diversion ditch from stream. Number of days diverting from stream for start-up water:
- ☐ Water intake rate: 7 to 15 gpm TBD hrs/day
- ☑ Pump from stream. Number of days pumping from stream for start-up water: TBD
- ☐ Number of water pumps for start-up water: 1 Water intake rate (list for each pump): 6 to 15 gpm TBD hrs/day

Make-up water: Is water required ***to maintain*** water level in your recycle/settling pond system?

☑ Yes (if **YES**, complete information below). ☐ No If yes, what is the source name? Ruby, Rex Ck, DH-1

Source:
- ☐ Seepage infiltration from groundwater gained from cut and/or stream
- ☐ Ditch from stream. Number of days diverting from stream for make-up water:
- ☐ Water intake rate: 7 to 15 gpm TBD hrs/day
- ☐ Pump from stream. Number of days pumping from stream for make-up water: TBD
- ☐ Number of water pumps for make-up: one Water intake rate (list for each pump): 7 to 15 gpm TBD hrs/day Pump intake size: 2 inches

B. RECYCLE/SETTLING POND SYSTEM.

Beaver ponds or other natural water features will not be permitted for use as settling ponds.

Is a pre-settling pond used? ☐ Yes ☐ No Is recycle used?: ☐ Yes ☐ No

How many ponds are used in the recycle system?

Recycle pond is pond #: Settling pond is pond #:

C. RECYCLE/SETTLING POND SYSTEM (continued).

Indicate Length (L), Width (W), and Depth (D) of each pond:

Pond # 1: L: ft W: ft D: ft Pond # 2: L: ft W: ft D: ft
Pond # 3: L: ft W: ft D: ft Pond # 4: L: ft W: ft D: ft
Pond # 5: L: ft W: ft D: ft Pond # 6: L: ft W: ft D: ft

Estimated hours per day that pump(s) will be used, return line size (in inches), operating pump rate (in gallons per minute), and water usage days per month:

Pump #1: ____ hrs/day ____ inches ____ gpm ____ days/month
Pump #2: ____ hrs/day ____ inches ____ gpm ____ days/month
Pump #3: ____ hrs/day ____ inches ____ gpm ____ days/month

D. CAMP WATER USE.

Is camp water used? ☐ Yes ☒ No

Maximum number of persons present in camp at a time ____

Camp water source: ☐ Well ☐ Haul ☐ Stream ☐ Spring ☐ Lake

Name of water source (if any): ____

Camp pump intake diameter: ____ Camp pump rate: ____ gpm ____ hrs/day

E. EXPLORATION ACTIVITIES.

Is water required for exploration activities? ☑ Yes ☐ No

If **YES,** What types of exploration activities are being performed? ☑ Trenching ☑ Drilling

If **YES,** How many total pumps are used in the exploration activities? one (Max pumps per source).

Estimated hours per day that pump(s) will be used, return line size (in inches), operating pump rate (in gallons per minute), and water usage days per month: Pump #1: TBD hrs/day 2 inches 7 to 15 gpm TBD days/month

A map of your requested drilling water sources is required with the following information:

-MTRS sections,
-stream reaches or other water sources (please label, including take points if known)
-and drill hole locations

F. SUCTION DREDGING.

If suction dredging activity is occurring please ensure that you have completed the dredge table in Section **(19) MINING METHOD.**

TIMBER CLEARING AND USE (25)

(Operations on State Lands Only)

Pursuant to AS 38.05.255, timber from land open to *mining without lease*, except "timberland", may be used by a mining claimant or prospecting site locator for the mining or development of the location or adjacent claims under common ownership. Timber not used for the mining or developement of the location or adjacent locations, that is *removed* from the operation must be acquired via timber sale or written letter of non-objection from the Alaska Division of Forestry.

On other lands ("timberlands" and in areas that are closed to mining without lease), timber cleared, used and/or removed must be acquired via a timber sale or a written letter of non-objection from the Alaska Division of Forestry.

Will timber be used for the mining or development of the location or lease? ☐ Yes ☑ No If yes, continue:

Describe the timbered area or areas to be cleared; include a map or drawing of the ares of timber to be cleared.

Describe the amount of timber to be used for the mining or development of the location or lease and the clearing methods you will use.

Are more than 40 acres of timbered area(s) to be cleared? ☐ Yes ☑ No

11 AAC 86.145. "A classification or designation indicating that timber and other forest products of significant value are included within a mining property is prima facie evidence that the land on which the propoerty is located is considered to be "timberlands" for purposes of AS 38.05.255"

WASTEWATER DISCHARGE PERMIT APPLICATION (2

All mechanical placer mine, suction dredge, and mechanical dredge operations that discharge to a water of the U.S. require an Alaska Pollutant Discharge Elimination System (APDES) permit from DEC. See Cover Pages for a list of APDES permit fees.

Operations wishing to discharge under the APDES Small Suction Dredge General Permit (dredges with intake diameters of 6" or less, or highbankers) may skip this section but must complete annual online registrations, including $25 fee payments, at http://alaska.gov/go/2MPF.

Previously issued DEC-APDES Wastewater discharge permit #:_____

Do you want this APMA to act as an application or renewal for any of the following APDES general permits (GPs)*:

Mechanical Placer Miners GP (open-cut terrestrial operations): ☐ Yes ☐ No

Medium-Size Suction Dredge GP (nozzle diameter greater than 6" to 10"): ☐ Yes ☐ No

Norton Sound Large Dredge GP (nozzle diameter greater than 10" or mechanical dredge): ☐ Yes ☐ No

Waterbody the discharge flows directly into, or would potentially flow: _____

Approximate coordinates of mine site:

Latitude: _____ Longitude: _____

Source (e.g., DNR - Alaska Mapper): _____

*Mechanical placer operations that do not elect coverage under the Mechanical Placer Miners GP may be required to obtain coverage under the Multi-Sector General Permit for Storm Water. Contact DEC to terminate a permit.

Optional* - Mixing Zone Request or Termination for Mechanical Placer Mine Operations

Do you wish to apply for a mixing zone and modified turbidity limit from DEC? ☐ Yes ☐ No

If a mixing zone is requested, provide the following:

Coordinates of discharge location: Latitude: _____ Longitude: _____.

Maximum Effluent Flow anticipated from your operation _____ (GPM) [must be greater than zero (0)].

Distance to nearest downstream drinking water source _____ and downstream placer mine _____.

Do you wish to terminate an active authorized mixing zone? ☐ Yes (APDES #_____) ☐ No

*A mixing zone authorizes an increase in the permit's turbidity limit based on available dilution from the surface water. Permittees without mixing zones must meet the water quality standard for turbidity at the point of discharge into the surface water.

Certification Statement – applicable only to information required for DEC authorizations (required for all DEC permit or mixing zone applicants)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Responsible Party: _____.

Responsible Party Name (First Last, Position) - Printed: _____.

Business Name (if applicable) - Printed: _____.

SECTION 404 WETLANDS PERMIT

JURISDICTIONAL DETERMINATION (CORPS JD) and MITIGATION STATEMENT

All Placer Mining applicants are required to contact the Corps of Engineers for submittal requirements.

A complete application for a Department of the Army (DA), U.S. Army Corps of Engineers (Corps) Section 404 permit includes a description of project impacts (contained in the APMA), a Jurisdictional Determination (JD) and a Mitigation Statement. The applications for the JD and the Mitigation Statement are contained in two Corps Supplements, which may be attached to this APMA. The Supplements may be downloaded from the Corps and DNR websites, or obtained directly from a Corps office in paper copy, by email, or mail. Please contact the Corps to determine what supplements are required.

Corps Supplement, Attachment 1, Jurisdictional Determination: Attachment 1 must be filled in and submitted to the Corps for **all new placer applications (New and Existing Operations).** Photos of your mine site are required. Your JD will be valid for five years. Your photos will be used only for the purpose of conducting an offsite JD.

Corps Supplement, Attachment 2, Mitigation Statement: Alaska District regional mitigation policy for placer mining operations under this General Permit (GP) emphasizes avoidance and minimization of impacts; **compensatory mitigation is not required**. However, by regulation, a Mitigation Statement covering measures for avoidance, minimization, and compensatory mitigation, or, a reason why compensatory mitigation is not proposed, must be submitted to the Corps with each new APMA for projects that impact waters of the U.S.

Note:

- If your APMA requires, but does not include a JD or Mitigation Statement, your application will be considered incomplete. The Corps may also contact you for additional information. Please ensure your contact information on the front page is current.
- For BLM Operators: A complete 404 Wetland Permit Package with additional photos of the upland areas to be mined will be sufficient to meet the requirement for the uplands reclamation baseline data and riparian mitigation measures as required by § 43 CFR 3809.

Provide the Latitude and Longitude of the operation location (DD, NAD83):

Latitude: _____ Longitude: - _____

Source (e.g., DNR - Alaska Mapper): _____

Please list Corps permits previously issued for this site: POA- _____ - _____ , POA- _____ - _____

Certification Statement

The Alaska District will accept the APMA as a pre-construction notification, pursuant to 33 CFR 320.1 (c). Application is hereby made for a permit to authorize the work described in this APMA. I certify the information in the APMA, and any required Supplements, is complete and accurate. I future certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the operator/ applicant.

Operator or Agent:

_____

Print Name Signature Date

STREAM DIVERSION (28)

A MAP OF COMPLETE STREAM DIVERSION IS REQUIRED: Plan Map of Operation included in the APMA should show the entire length of the diversion (i.e. where the water is diverted from the natural stream channel to where it returns to the natural stream channel) with start and end locations clearly marked.

Please note: If you have a stream diversion structure; this structure may also qualify as a dam and be subject to the Alaska Department of Natural Resources Dam Safety Program per definitions provided in AS 46.17.900(3). Complete Section 22 (regarding a Dam) of this APMA. If you require further regulatory guidance regarding dams, please contact our Dam Safety and Construction Unit, Dam Safety Engineer at telephone number 907-269-8636 or for more information go to the Alaska Dam Safety Program website at: http://dnr.alaska.gov/mlw/water/dams/

Is stream diversion required? ☐ Yes (if **YES**, complete information below). ☐ No

Stream Name:_____

☐ Existing (Date Constructed_____) ☐ To Be Constructed (Date_____)

If a diversion is required or pre-existing, please contact your local ADF&G, Habitat Section for Fish Habitat Permitting information. To facilitate permit issuance, please provide the following information:

Is Stream Diversion? ☐ Permanent ☐ Temporary _____ year(s) _____ months

Will diversion be reclaimed annually prior to freeze-up or be retained throughout the mine life?

☐ Annually reclaimed/returned to natural stream ☐ Maintained throughout mine life

Dimensions of existing stream in diversion area:
Length _____(ft) Top Width___(ft) Bottom Width___(ft) Depth___(ft) Floodplain Width_____(ft)

Dimensions of proposed diversion:

Length _____(ft) Top Width___(ft) Bottom Width___(ft) Depth___(ft) Floodplain Width_____(ft)

Dominant substrate type (Choose Two): ☐ Bedrock ☐ Boulder ☐ Cobble ☐ Gravel ☐ Sand ☐ Silt/Clay

Note: Diversion should approximate the existing stream in terms of meander bends, length, depth, stream width, and floodplain width.

(Please provide plan and profile diagrams of diversion in Section 29, PLAN MAP OF OPERATION) or attach additional sheets as necessary

PLAN MAP OF OPERATION *REQUIRED

(29)

VICINITY MAP

Date Prepared: 2/25/2021	Applicant Name: Avidian Gold
STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER	
MAP: See Project Narrative___, ____,	
Sec.(s)_____Township_____, Range_____, Meridian____	
Scale: 1" = _____	ADLs: Attachment
SHEET OF	APMA #2238

(Attach additional sheets, along with detailed explanations as necessary)

HARDROCK NARRATIVE *REQUIRED

(31, CONT)

A narrative of the operation is required. Please use this space to describe the access, process, environmental protection measures and reclamation measures to be used for the duration of this permit. Use prompts provided below and include any additional information relevant to the proposed activities.

DESCRIBE ACCESS TO PROPERTY, DRILL/TRENCH SITES, INCLUDING LENGTH AND TYPE OF ACCESS ROUTES. DESCRIBE ACCESS RECLAMATION MEASURES TO BE CONDUCTED AND TIMELINE:

See Attached Plan Of Operations Narrative

DESCRIBE EXPLORATION METHOD, SCOPE OF WORK PROPOSED, EQUIPMENT, WHEN AND WHERE ACTIVITIES WILL OCCUR, PERSONNEL HOUSING LOCATION AND CAMP DESCRIPTION:

See Attached Plan of Operations Narrative

DESCRIBE SITE PREPARATION ACTIVITIES AND PRE-RECLAMATION MEASURES:

See Attached Plan of Operations Narrative

DESCRIBE PAD CONSTRUCTION AND DIMENSIONS:

See Attached Plan of Operations Narrative

DESCRIBE DRILL WASTE AND DRILL WATER MANAGEMENT, DRILL FLUIDS AND DISPOSAL METHODS. ATTACH MSDS/SDS FOR ALL SUBSTANCES:

See Attached Plan of Operations Narrative

DESCRIBE FUEL HANDLING AT EXPLORATION SITES DRILL (PADS AND TRENCHES) AND OFF SITE (CAMP OR BASE OPERATIONS), DISCUSS SPILL PREVENTION AND RESPONSE PLAN:

see Attached Plan of Operations Narrative

DESCRIBE WATER USE INDCLUDING ESTIMATE OF DAILY WATER USE:

See Attached Plan of operations Narrative

DESCRIBE HOW THE OPERATION WILL AVOID AND/OR MITIGATE POTENTIAL IMPACTS TO FISH, WILDLIFE AND CULTURAL RESOURCES:

See Attached Paln of Operations Narrative

DESCRIBE CLOSURE, PLUGGING METHODOLOGY, SURFACE RECLAMATION AND ABANDONEMENT:

See Attached Plan of Operations Narrative

Multi-Year Plan of Operations
2021 – 2025
For Hardrock Exploration Drilling & Reclamation
Amanita Project
Plan Approval # 2238
Avidian Gold

Plan of Operations Narrative

Introduction

The Amanita Project is located approximately ten miles north-northeast from Fairbanks, Alaska. Access is gained by departing north from Fairbanks on the Steese Highway (Alaska State Route 2) for approximately seven miles, then east on Steele Creek road for 0.1 miles to the turn-off on the Gilmore Trail heading north. The Amanita claim block is located approximately six miles down Gilmore Trail and is accessed directly via private lands owned by Tony Mason and onto existing four-wheel drive and four-wheeler roads and trails. Other four-wheeler trails along with the previously disturbed and reclaimed ground exist within the Upland Mining Lease (ADL 233600). This Lease consolidates State of Alaska mining claims staked on land selected and conveyed to the Fairbanks North Star Borough. The Amanita claim block is shown in attachment A in purple with the upland mining lease outlined in green. The proposed project will be a continuation of evaluation of the gold resource within the Amanita claim block.

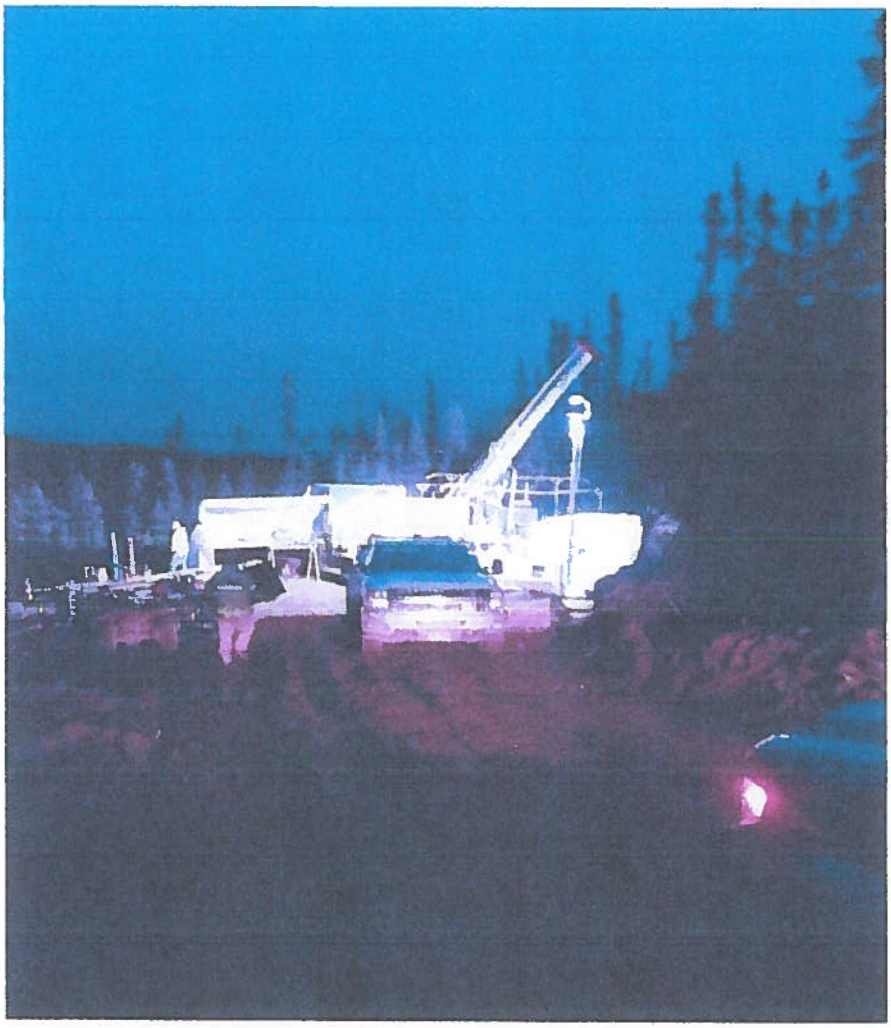
Purpose

Avidian Gold US Inc., a Nevada corporation, plans to conduct mineral exploration during the 2021-2025 time period consisting of exploration drilling, geologic mapping, trenching, soil sampling, and geophysical surveys, road maintenance and repair on the Amanita Project. A small to medium sized bulldozer (D-6 Caterpillar or equivalent, John Deere 160 excavator or similar) will be used for road, trail maintenance, reclamation and other activities as needed). Vehicles using the roads and trail system during the 2021-2025 exploration will be four-wheel drive vehicles, four wheelers, excavator and bulldozer. Use of zoom boom, water truck and other drilling support vehicles will also be used during the proposed project time 2021-2025. A tracked self-propelled drill rig will be used for drilling.

Proposed Exploration Drilling

Sixty (60) drill holes are proposed by Avidian with a proposed depth of four hundred meters (400) per drill hole with a combine length of twenty-four thousand (24,000) meters for the 2021-2025 exploration program. The exact number of holes to be drilled on a yearly basis is yet to be determined by Avidian. All proposed drill collar co-ordinates are listed on attachment six (6) and portrayed on attachment three (3) for the purpose of the proposed Plan of Operations. Attachment 3 shows the claim boundary in purple, the Upland Mining Lease (ADL 233600)

green, proposed drill holes in purple, and water extraction points in red. Ruen was the driller contracted last season, but other drilling companies may be considered and contracted for the coming project. All project personnel reside in Fairbanks and two drill shifts are utilized for drilling. Geologic staff and other staff also reside in Fairbanks during the projects time frame.



Ruen drill on drill pad five (5).

Drill Pad Construction

Temporary drill pads have been constructed during the 2020 exploration and the area cleared is approximately eighty feet by fifty feet. A total of 9 drill pads were constructed during the 2020 exploration drilling program, with two being reclaimed and seven left to be utilized for proposed exploration drilling during the 2021-2025 exploration program. Sumps

constructed as part of the drill pad are approximately ten feet by fifteen feet and six feet in depth. Cross sections of generic drill pad construction and reclamation are show in attachment five (5). All constructed sumps are lined with a plastic liner, with removal of the plastic liner at the time of reclamation of the sump and drill pad. The Seven existing temporary drill pad sumps have had liners removed and filled at the end of the 2020 drilling for safety going into a winter season. Construction of the drill pad involves stripping surface organic material and stockpiling adjacent to the drill pad site. Soils are also stockpiled adjacent to the drill pad for respreading during pad reclamation. The rocky material is segregated from the organics and stockpiled for reclamation. During active drilling water used is recycled thru a closed system with drill cuttings being settled out in the sump. All drilling muds used are biodegradable.

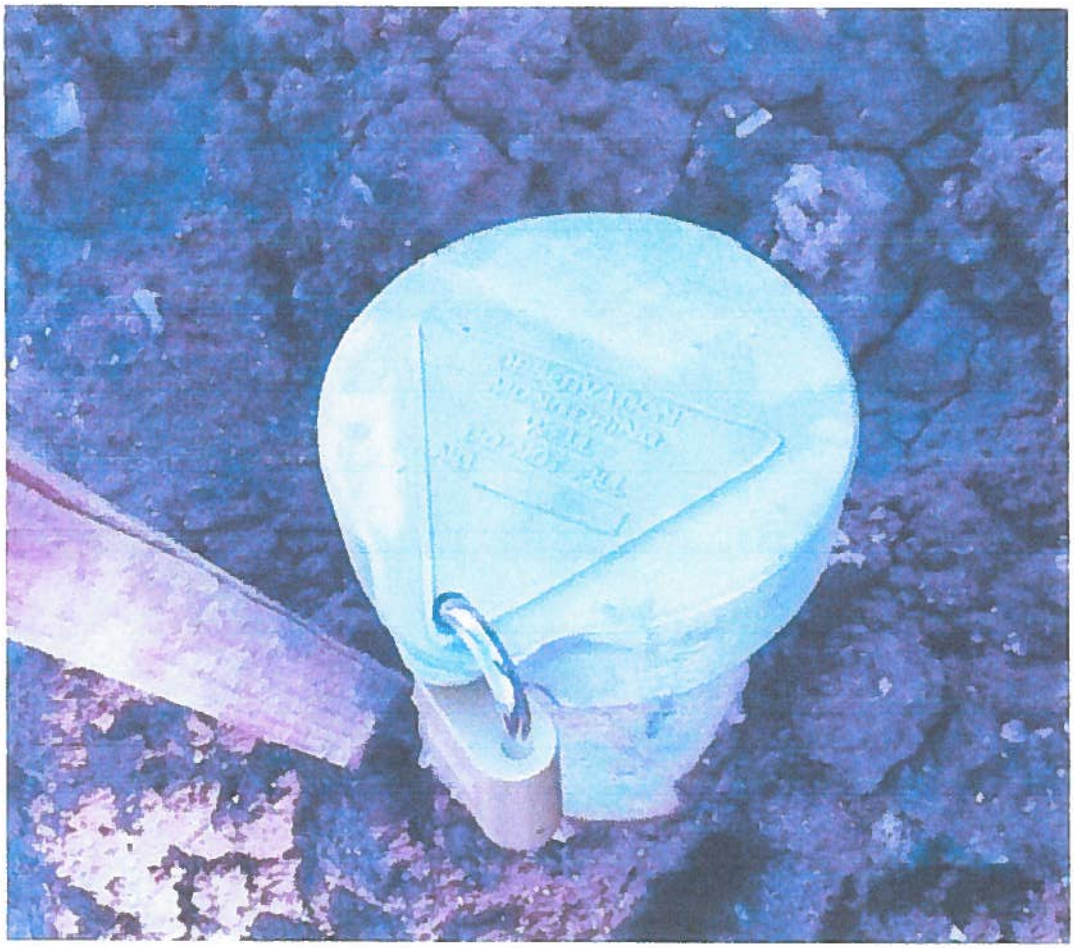
Photo showing drill pad construction from the 2020 exploration drill program on the Amanita claim block. This is representative of the type of pad construction to be utilized for the 2021-2025 Plan of Operations.

Photo showing the completed sump at Drill pad #1 from the 2020 Amanita drill program.

There are no discharges from the sump. Core boxes and drill mud bags are stacked on the drill pad for easy access.

Drill Hole Closure

Drill collars will be cut and capped below ground. Drill holes will be marked, and soil mounded around the drill hole collars. Sumps will be filled and covered. Drill holes will be plugged for a minimum of 10 feet within the top 20 feet of the drill hole. The remainder of the hole will be filled with drill cuttings or bentonite holeplug pellets or other types of equivalent bentonite muds or slurry. If water is encountered in the drill hole, a minimum of 7 feet of bentonite or holeplug or equivalent slurry shall be placed immediately above the static water level in the drill hole. Complete filling of the drill holes, from bottom to top with bentonite holeplug or equivalent is also permitted and is considered the preferred method of hole closure. It is possible one or more drill holes with water maybe requested to be kept open for the purpose of sampling for water chemistry baseline data for future permitting.



Photograph of closed drill hole AM20-01 capped and locked on drill pad 1 from the Amanita 2020 drilling. This drill hole had standing water and will be used as a temporary water source for drilling during the 2021-2025 exploration.

Fuel Handling for Drilling and Trenching

Fuel for the drill rig and equipment is brought in via a four wheel-drive vehicle with the fuel tank located in the back of the vehicle. The Contracted driller handles refueling of the drill rig and maintains a spill kit on site with the drill. Refueling for the dozer and excavator is handled by the company contracted to build drill pads, conduct maintenance on the road and trails and perform the required reclamation.

Water Use

Two water use withdrawal sites have been identified, on Ruby and Rex creeks. The site on Ruby creek was used in 2020 as a supply for drilling water. Both sites are identified on attachment three (3) by red stars. A third alternative is a capped drill hole AM20-01 on drill pad one (above photograph). The small conex at drill pad six would be move to this afore mentioned location and used as a well house.

Water Take Point Co-ordinates

Datum NAD 27, co-ordinates are 478725 E/7201190 N for Ruby Creek
Alaska Mapper co-ordinates for Rex creek are 64.9425N, 147.4224W sec. 6, Ts 1N, 2E, FM.

Proposed Extension of Existing Trenches

During the 2019 exploration season Four trenches were excavated and reclaimed on the Amanita claim block. These consisted of Trenches A, B, C, and D. For the 2021-2025 exploration Plan of Operations, Avidian is proposing to extend trenches A, C, and D. The proposed excavations would be as follows:

Trench A would be extended and excavated to the west northwest approximately 250 meters. Trench C – North would be extended north for approximately 250 meters. Trench D – West would be extended approximately 50 meters to the west. These trench extensions are shown in attachment four (4).

Proposed Trench Extension Co-ordinates

Trench	Easting	Northing
A-Extn	480300	7202612
A-Extn	480090	7202672
C north-Extn	479465	7201715
C north-Extn	479464	7201963
D west-Extn	479306	7201509
D west-Extn	479227	7201520

drilling occurs during the hunting season safety precautions will be taken for the drill crew and hunters. Drill crew personnel wear bright orange safety vests and the drill is lit up with lights during the night operation. Appropriate signage is also posted at each drill pad when it is occupied by an active drill. Wildlife observed within the project area are upland game birds, and moose. No black or grizzly bears have been encountered. If drilling activity such as construction of drill pads encounters a cultural or archeological site, activity will be shut down and the appropriate state and borough agencies contacted.

Reclamation Plan

Avidian has maintained an aggressive reclamation program starting with the exploration trench program in 2019 and reclamation of two (2) drill pads and access trails in 2020. Revegetation is progressing very well in the reclaimed trench areas (see 2020 reclamation statement). Reclamation of nonessential drill pads is conducted concurrently during the field season and involves recontouring, spreading of nonorganic materials and placement of organic materials over the contoured and reclaimed drill pads. Equipment used in reclamation consist of a D-6 Caterpillar dozer or equivalent and a John Deere 160 or equivalent excavator. All public trails within the project area are graded and maintained throughout the exploration season and left in stable condition at freeze-up.

Drill sumps are drained with plastic liners pulled from the sumps and disposed of at an appropriate land fill facility in Fairbanks. Drill cuttings are buried in the sump and covered with gravels used to build the sumps. All trash is cleaned up and hauled off site to an appropriate transfer site or landfill. All materials are used in the drilling activity are hauled offsite or put in storage on a specific drill pad for the next exploration season.

Avidian Gold is proposing to extend trenches A, C, and D to collect additional geologic and geochemical data for the Amanita Project. The trenches will be 25 to 50 feet in width and from 5 feet to 15 feet in depth depending on the depth of bedrock. Organic overburden will be stripped and stockpiled adjacent to the trench, soil will be segregated from rock and gravelly material and stockpiled adjacent to the trench for easy handling. Gravelly rocky material will also be stockpiled adjacent to the excavated trench. All stockpiled organic and other materials will be positioned to be protected from erosion.

Upon completion of the trench work the stockpiled rocky/gravelly material will be used to backfill the excavated trench. Soil and organic material will be spread over the backfilled material and contoured and graded.

The goal for reclamation will be to maintain surface disturbance under the five (5) acre limit with concurrent reclamation being conducted to maintain that balance where possible as exploration activities progress.

ATTACHMENTS

Attachment 1 – Upland Mining Lease ADL 233600, mining claim list and owner authorization letter for the Amanita Project

Attachment 2 – Project location Map.

Attachment 3 – Map showing Amanita Upland Mining Lease (green outline) and mining claim block (purple outline), proposed drill hole collars (purple dots), and water extraction points on Ruby and Rex Creeks (red stars).

Attachment 4 – Map showing proposed trench extensions, A, C, D, Upland Mining Lease is in green.

Attachment 5 – Cross sections showing temporary drill pad construction and reclamation of drill pad.

Attachment 6 – Drill hole co-ordinates.

The MSDS lists of products used on the Amanita Project for exploration drilling can be found at the following link:

https://drive.google.com/drive/folders/ISRO6Irm_ZY3BTIXCczAW_ykDIWHaM_ZL?usp=sharing

whom it may concern:

This is a Letter of Authorization giving permission to Avidian Gold, Inc. to perform work such as drilling, prospecting, sampling and anything else to help create mining data. The claims are the 33 claims listed on the Upland Lease ADL 233600 created in 2020. The other 55 individual claims are also included with this permission.

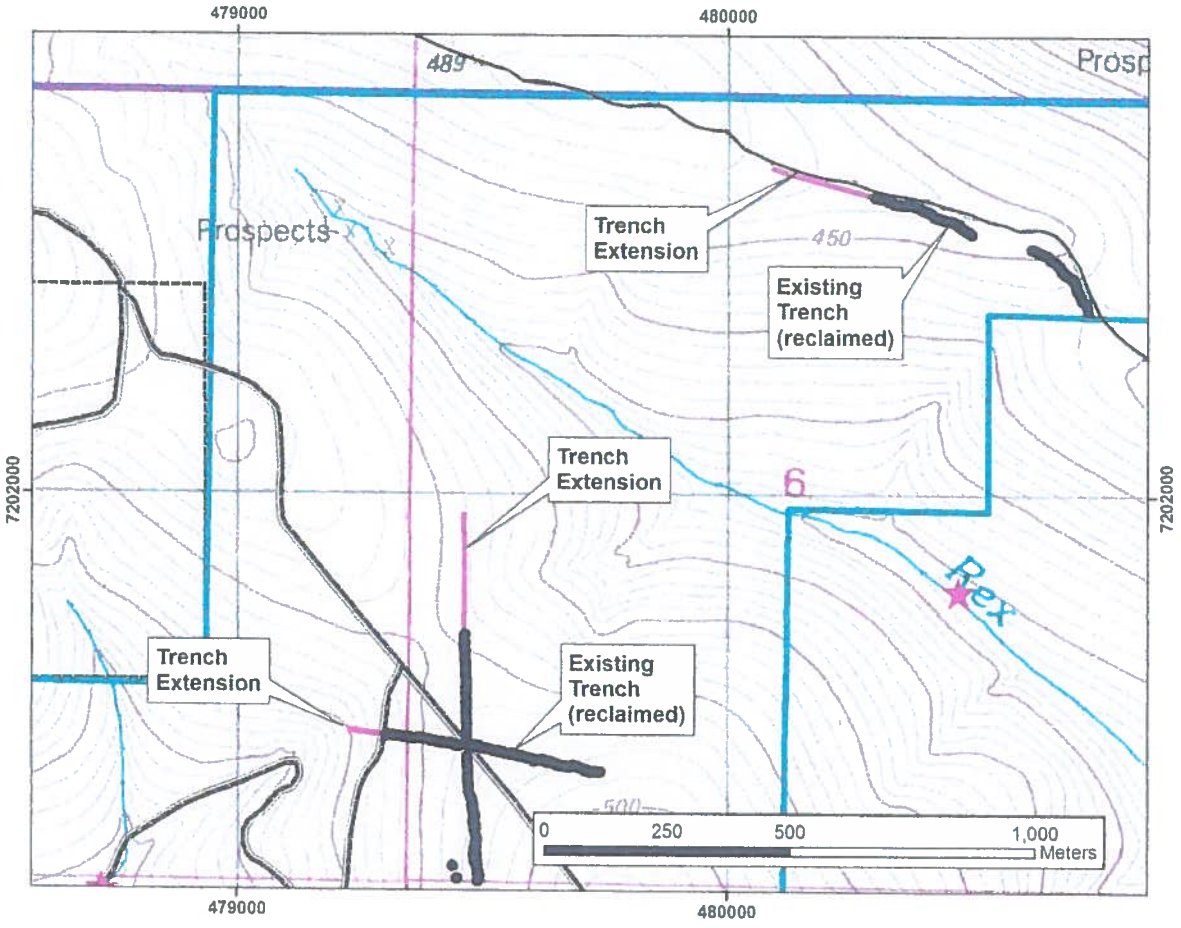
A. Tanya Stolz, Claims Owner

Signature

2-24-2021

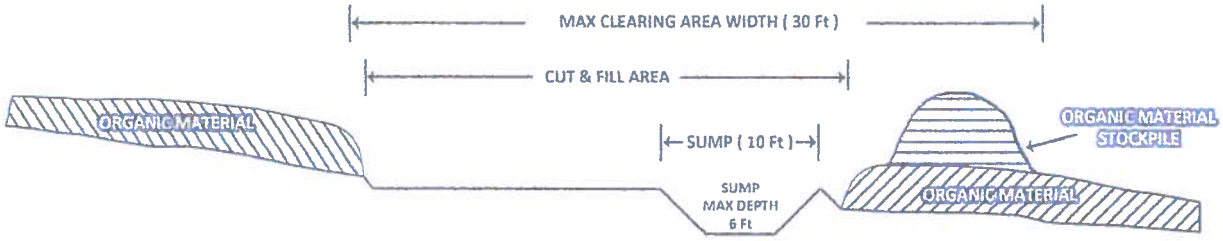
Date

Attachment 4

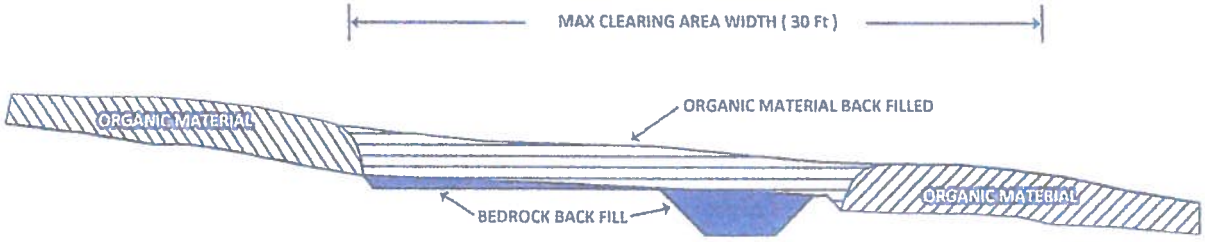


Attachment 5

TYPICAL CROSS-SECTION - TEMPORARY DRILL PAD CONSTRUCTION



TYPICAL CROSS-SECTION - TEMPORARY DRILL PAD RECLAMATION



Proposed Drill Hole Co-ordinates

	Easting	Northing		Easting	Northing
1.	479675.4	7201696	31.	479016.1	7201300
2.	479585.1	7201606	32.	479200.2	720194
3.	479720.2	7201475	33.	479100.7	7201046
4.	479360.4	7201389	34.	478967.6	7201014
5.	479010.8	7201399	35.	478873.2	7200965
6.	479464.5	7201243	36.	478753.8	7200878
7.	479328.3	7201336	37.	479220	7201143
8.	479692.1	7201788	38.	479230	7201199
9.	479252.3	7201341	39.	479237.5	7201275
10.	479307.7	7201407	40.	479247.4	7201336
11.	479355.9	7201447	41.	479257.3	7201392
12.	479397.6	7201473	42.	479284.7	7201441
13.	479416.1	7201507	43.	479305.8	7201501
14.	479459.5	7201534	44.	479312.1	7201563
15.	480532.7	7202549	45.	479322	7201639
16.	480371.2	7202604	46.	479399.1	7201588
17.	481774.7	7202045	47.	479473.7	7201660
18.	481932.7	7202056	48.	479535.5	7201684
19.	478561.4	7200704	49.	479140.4	7201167
20.	478590.9	7202503	50.	479078.4	7201228
21.	480107.8	7201208	51.	479558.6	7201395
22.	480233.8	7200970	52.	479634	7201297
23.	480313.3	7200889	53.	479706.8	7201207
24.	480455.7	7200842	54.	479278.1	7200770
25.	480557	7200778	55.	479684.3	7201014
26.	480685.8	7202480	56.	479589	7200895
27.	480722.2	7202416	57.	479467.3	7200755
28.	479120.7	7201920	58.	478495.3	7201060
29.	479212.9	7201813	59.	478664.6	7201155
30.	479121.8	7201453	60.	478752.2	7201259

2021 RECLAMATION PLAN FORM (HARDROCK EXPLORATION)

☐ A. RECLAMATION PLAN	☐ B. RECLAMATION PLAN VOLUNTARY	☑ C. LETTER OF INTENT (33)
(REQUIRED if the operation will disturb five or more acres this year, OR 50,000 cubic yards, OR the operation has a cumulative disturbed area of five or more acres).	(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).	(less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).

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: 1 acres. This should match: "Total Unreclaimed Acres" on your 2020 Annual Reclamation Statement for Small Mines, or line #7 on your 2021 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 2021 2 acres. Total acreage (currently disturbed plus new acres): 3 acres.

Acreage disturbed by land status: _____ State (general) FNSB State (Mental Health) _____ Private _____ Federal

Total acreage to be reclaimed in 2021 2 acres; Total volume of material to be disturbed in 2021: _____ 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:

(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, hardwear, 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.**

Mitchell W Henning Printed name (Applicant) Mitchell W. Henning Signature (Applicant)	Relationship to Mineral Property: ☐ Owner ☐ Lessee ☐ Operator ☑ Agent For: Avidian Gold	Date: 2/28/2021 APMA #: 2238