

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, ****) F21 2449

What type activity are you planning to perform? <small>*REQUIRED</small> (1) <input type="checkbox"/> Exploration/Reclamation <input type="checkbox"/> Mining/Reclamation <input checked="" type="checkbox"/> Hardrock Exploration/Reclamation <input type="checkbox"/> Access Equipment <input type="checkbox"/> Suction Dredge <input type="checkbox"/> Reclamation		Surface estate of mineral properties: <small>*REQUIRED</small> (2) <input checked="" type="checkbox"/> State (General) <input type="checkbox"/> Private (Patented) <input type="checkbox"/> Private (Native Corp.) <input type="checkbox"/> State (Mental Health) <input type="checkbox"/> Federal <input type="checkbox"/> City or Borough	
Mineral Property Owners: <small>*REQUIRED</small> (3) Individual Contact Name and Company Name Kit Marrs Western Alaska Copper & Gold Co.	Lessee: *if applicable (4) Individual Contact Name and Company Name	Operator: <small>*REQUIRED</small> (5) Individual Contact Name and Company Name Kit Marrs Western Alaska Copper & Gold Co.	
Mailing Address for official correspondence: <small>*REQUIRED</small> PO BOX 881 Talkeetna AK 99676	Mailing Address for official correspondence:	Mailing Address for official correspondence: <small>*REQUIRED</small> PO BOX 881 Talkeetna AK 99676	
Summer phone# (Primary): <small>*REQUIRED</small> 520-237-1475	Summer phone# (Primary):	Summer phone# (Primary): <small>*REQUIRED</small> 520-237-1475	
Summer phone# (Secondary):	Summer phone# (Secondary):	Summer phone# (Secondary):	
Winter phone# (Primary): <small>*REQUIRED</small> 520-237-1475	Winter phone# (Primary):	Winter phone# (Primary): <small>*REQUIRED</small> 520-237-1475	
Winter phone# (Secondary):	Winter phone# (Secondary):	Winter phone# (Secondary):	
Cell/Satellite:	Cell/Satellite:	Cell/Satellite:	
FAX:	FAX:	FAX:	
E-mail: <u>kit.marrs@mac.com</u>	E-mail:	E-mail: <u>kit.marrs@mac.com</u>	
Alaska Business/Corporation Entity #: <u>129142</u>	Alaska Business/Corporation Entity #:	Alaska Business/Corporation Entity #: <u>129142</u>	
Registered Agent (Corp./LLC/LP):	Registered Agent (Corp./LLC/LP):	Registered Agent (Corp./LLC/LP):	
Project Name If Applicable: (6) <u>Round Top Project</u>	Average Number of Workers: <small>*REQUIRED</small> (7) <u>8</u>	Start-Up/Shut Down: (Month/Day) (8) _____ to _____.	
Mining District: <small>*REQUIRED</small> (9) <u>Kaiyuh</u> Illinois Creek District	Applicable USGS Map: <small>*REQUIRED</small> (10) <u>Nulato A-4, Nulato A-5</u>	On What Stream Is This Activity? (11) <u>tribs to W. Fork Little Mud River</u>	
Legal Description of mineral properties to be worked (MTRS) <small>*REQUIRED</small> (12) Example: Fairbanks Meridian Township 001N Range 003E Sections 15, 16, and 21 or F 001N 003E Sec. 15, 16, and 21 <u>Kateel R. Meridian, T.15S., R.6E., Sect 1, 2,11,12,13,14, 23, 24, 25, 26, 35, 36, T.15S., R.7E., Sect 16,17,18,19,20,21,28,29,30,31,32,33</u> <u>T. 16S., R. 6E., Sect 1, 12, T16S., R. 7E., Sect 4, 5, 6, 7, 8, 9.</u>			
Internal Use Only: Date Application Received Complete: _____ Adjudicator: _____ LAS Entry: _____ CID(s): <u>51884</u> 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.

Check One:

	Make, Model, Type, Size, Purpose of Equipment or Pump	Quantity of this type	Located on the claim block?	Transporting to claim block?
1.	Will be supplied in APMA amendment/annual exploration plans			
2.				
3.				
4.				
5.				
6.				
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 1/2" 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: n/a

ADL 667128	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667129	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667130	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667131	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667132	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667133	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667134	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667135	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667136	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667137	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667138	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667139	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667140	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667141	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667142	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 667143	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	21-AUG-09
ADL 707534	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	05-JUN-11
ADL 707535	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	05-JUN-11
ADL 707536	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	05-JUN-11
ADL 707537	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	05-JUN-11
ADL 707538	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	05-JUN-11
ADL 707539	Active (35)	Mining Claim (713)	Western Alaska Copper & Gold C O.	05-JUN-11

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ACCESS OUTSIDE OF CLAIM BLOCK, CONTINUED

Indicate type(s) of existing access:

- All Season Road: _____.
- 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.

The only fuel that will be stored on site during the term of this permit is drill-related diesel fuel stored in 55 gallon drums or flyable fuel tanks

Indicate Distance Stored From Flowing Waters:

water bodies required by DNR is 100 feet). 100 ft. 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: _____

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:						

** 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):

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).

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 <input type="checkbox"/> / No <input type="checkbox"/>		Yes <input type="checkbox"/> / No <input type="checkbox"/>		Yes <input type="checkbox"/> / No <input type="checkbox"/>	
Vessel Registration # / State	#:	State:	#:	State:	#:	State:

- Location: Offshore / Salt Water Pond connected to stream
 Stream Pond isolated from stream
 Mine cut 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: _____ . How long will trenches be open? _____ .

Average Size: Length: _____ Feet Width: _____ Feet Depth: _____ Feet

Drilling: Yes No

Total Number of Holes To Be Drilled: TBD Type of Drill(s) Used: TBD

Estimated Maximum Depth: 2,000 Feet Diameter of Drill Rod/Casing Rod NQ (NQ/HQ/H, Etc.).

Will water be used? Yes No Indicate how many pumps per water source: 1

Water source name(s): TBD

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)
	TBD		

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):

Drill pump locations and water withdrawal points will be identified in a future amendment to this APMA

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.	Trib to California Creek	64.1843	157.6318	K 15S6E13 NWSW	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	Trib to Eddy Creek	64.1835	157.5527	K 15S7E18 SWSE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Trib to Minnesota Creek	64.1637	157.5765	K 15S6E25 NENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Trib to Minnesota Creek	64.1634	157.5454	K 15S7E30 SENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.	Trib to Minnesota Creek	64.1654	64.1654	K 15S7E29 NWNE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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.? _____

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

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? _____

- 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: _____ gpm _____ hrs/day
- Pump from stream. Number of days pumping from stream for start-up water: _____
- Number of water pumps for start-up water: _____ Water intake rate (list for each pump): _____ gpm _____ 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? _____

- 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: _____ gpm _____ hrs/day
- Pump from stream. Number of days pumping from stream for make-up water: _____
- Number of water pumps for make-up: _____ Water intake rate (list for each pump): _____ gpm _____ hrs/day Pump intake size: _____ 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? 1 (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: 20 hrs/day 1 inches 20 gpm 30 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
(Operations on State Lands Only)**

(25)

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 development 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 areas 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 property is located is considered to be "timberlands" for purposes of AS 38.05.255"

WASTEWATER DISCHARGE PERMIT APPLICATION

(26)

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 further 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**

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.

ADDITIONAL NARRATIVE INFORMATION IS PROVIDED ON THE FOLLOWING PAGE

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

Access to property is by helicopter, Details of drilling will be supplied in an amendment to this APMA and annual plan updates as plans are developed

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

Exploration of the property is accomplished through diamond drilling, geophysics, rock and soil sampling.

Exploration personnel are housed offsite at a trailer camp located near the old Illinois Creek Mine, owned by WAC&G

DESCRIBE SITE PREPARATION ACTIVITIES AND PRE-RECLAMATION MEASURES:

Drill site are levelled using hand tools, organic matt/topsoil is stockpiled and then reused during drill pad reclamation

DESCRIBE PAD CONSTRUCTION AND DIMENSIONS:

Pads generally consist of wood timbers laid on the ground with decking added on top of timbers

Decks are approximately 12 ft. X 12 ft.

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

Return water and drill cuttings flow initially into a small hand-dug pit - overflow water flows out onto the tundra.

Cuttings accumulate in the pit.

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

Fuel is transported by helicopter from the Illinois Creek airstrip and stored in 55 gallon drums. It is pumped (manual or electric pumps) from drums into the drill and water pumps.

DESCRIBE WATER USE INCLUDING ESTIMATE OF DAILY WATER USE:

Water use is limited to water required for the core drilling. Water withdrawal points are in streams that drain the property.

Typical water consumption is 15 gpm for each drill rig. Estimated daily use (15x60x20) is 18,000 gallons per drill

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

Impacts to fish at water withdrawal points are minimized with the use of 1/4 inch intake screens.

Wildlife impacts are minimized by avoiding disturbing large mammals with the helicopter.

Cultural Resource impacts are minimized because we will stop work and notify DNR-OHA in the event we find any.

DESCRIBE CLOSURE, PLUGGING METHODOLOGY, SURFACE RECLAMATION AND ABANDONEMENT:

Holes are plugged in accordance with the permit; 10 ft of bentonite is placed in the upper 20 feet of the hole.

Drill pads are cleared of trash and stockpiled top soil and/or organics are placed over the disturbed ground

Round Top APMA Narrative Addendum

The Round Top property consist of 88 State of Alaska 160-acre mining claims. The property is the focus of exploration primarily as a copper-molybdenum-silver porphyry target. The property is located 42 miles southwest from the town of Galena, Alaska.

The Round Top property is a porphyry system that includes both high grade copper surface discoveries and drill intercepts to a depth of 800 meters. Cu-Mo-Ag mineralization is associated with Cretaceous (+/- 74 Ma) age intrusive rocks.

The 2016-2019 drilling programs demonstrated the existence of an extensive copper mineralized system at Round Top with chalcocite as a meaningful component of the mineralization.

WAC&G intend to continue exploring this mineral deposit under this APMA. Future work will likely include drilling, geophysics and surface rock and soil sampling.

No exploration is currently planned for the 2021 exploration season. However, WAC&G will submit an amendment to this APMA application if that changes and when exploration is planned for subsequent years during the 5-yr. term of this APMA.

The water withdrawal points that have been used in the past remain important to us and we are requesting a TWUA for the 5 sources we identify here in the APMA.

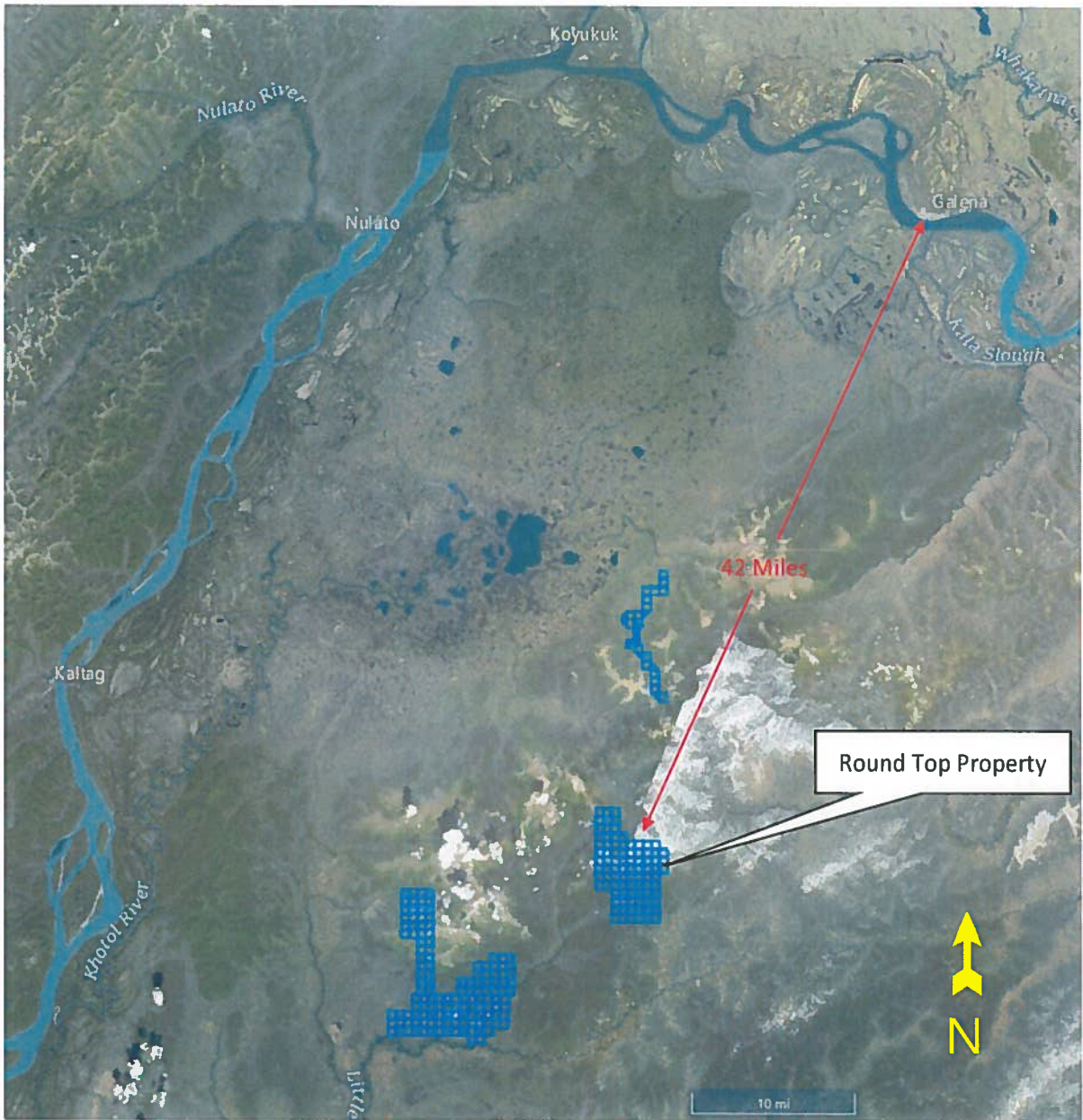


Figure 1. Location Map of the Round Top Property

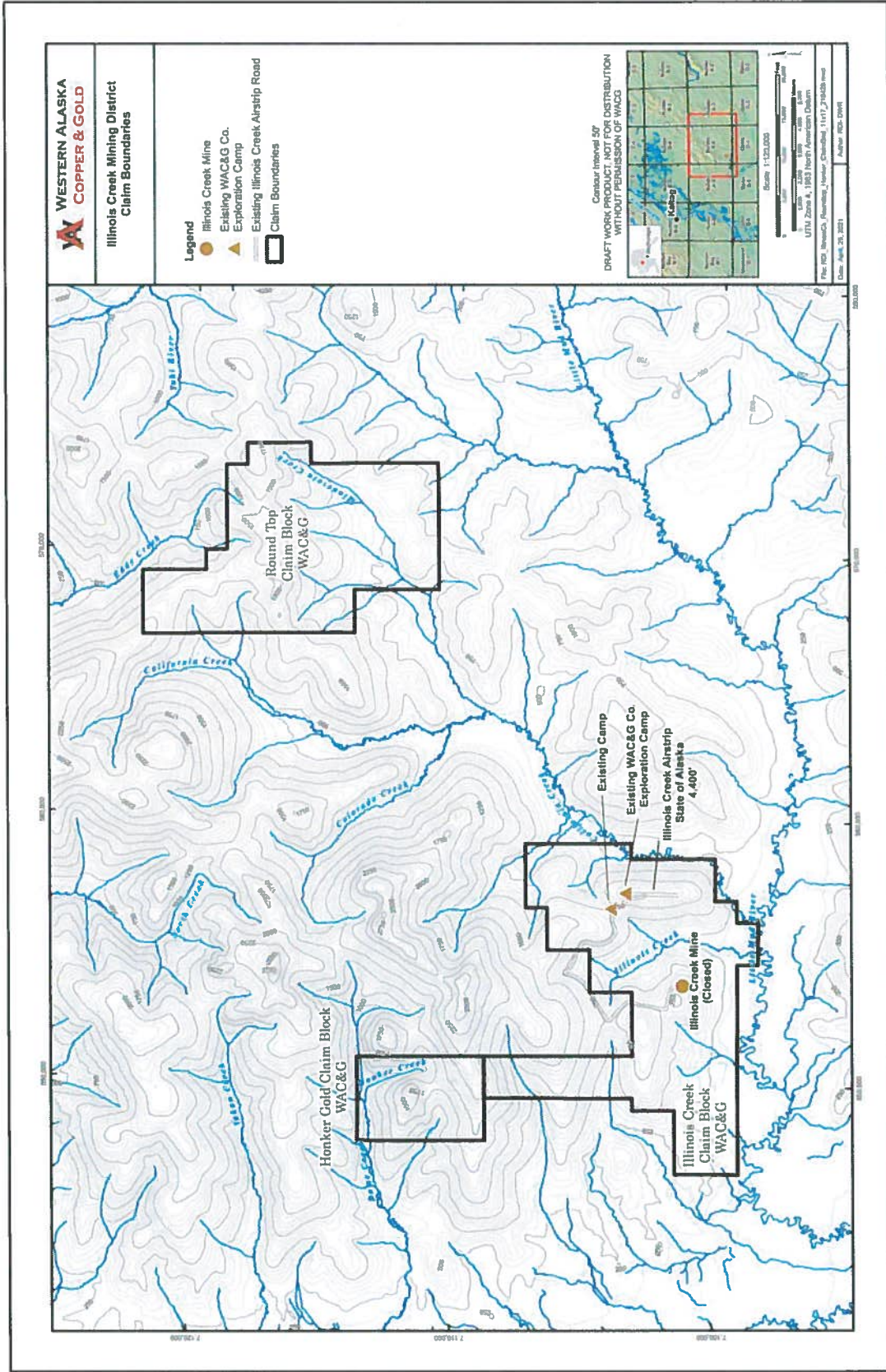


Figure 2. Round Top, Honker Gold and Illinois Creek Claim Blocks (all WAC&G)

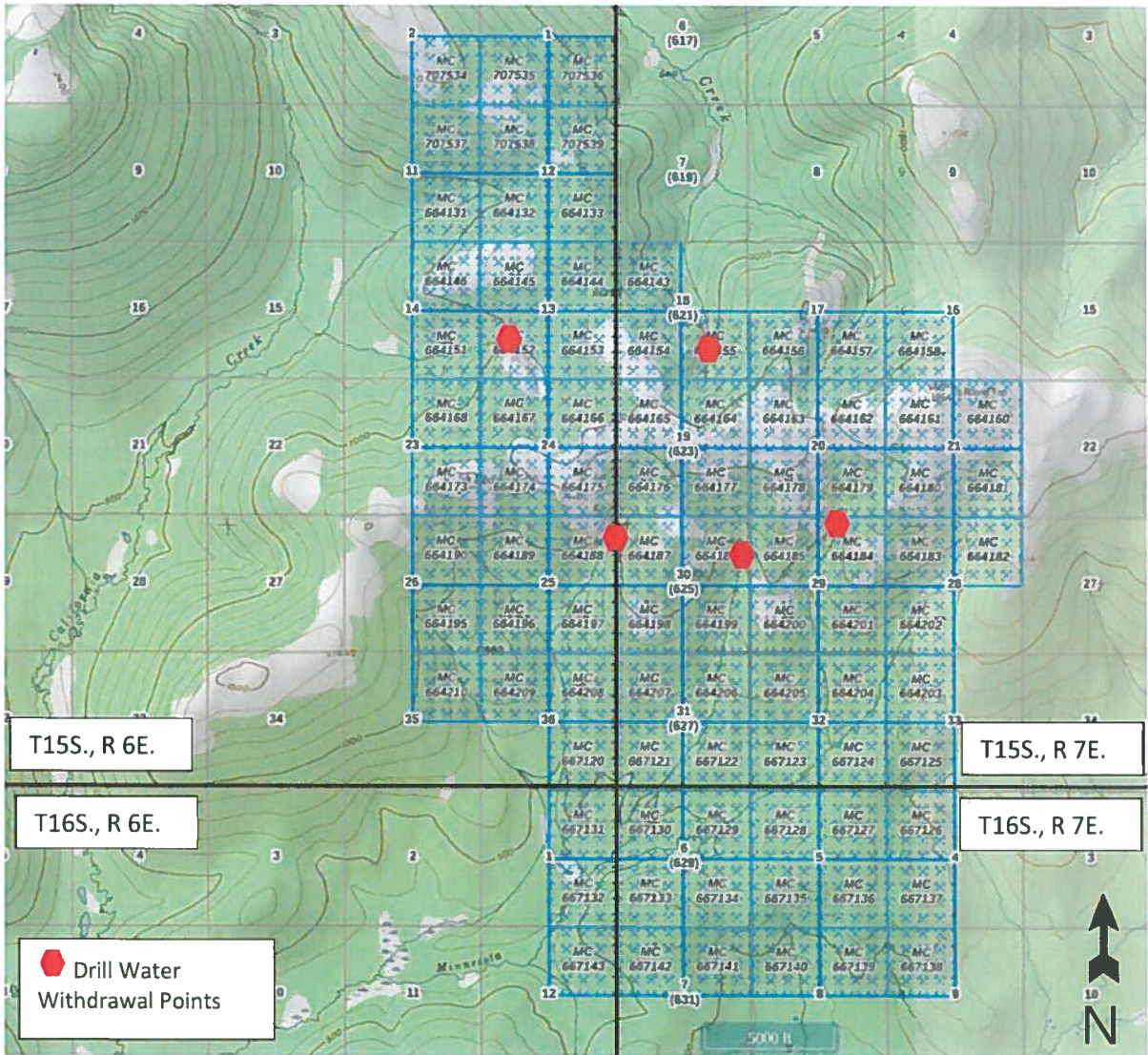


Figure 3. Mining Claim Map of the Round Top Property with Water Withdrawal Points

Table 1. List of Round Top Mining Claims

ADL#	Claim Name	ADL#	Claim Name
664131	Round Top II 03	664197	Round Top II 69
664132	Round Top II 04	664198	Round Top II 70
664133	Round Top II 05	664199	Round Top II 71
664143	Round Top II 15	664200	Round Top II 72
664144	Round Top II 16	664201	Round Top II 73
664145	Round Top II 17	664202	Round Top II 74
664146	Round Top II 18	664203	Round Top II 75
664151	Round Top II 23	664204	Round Top II 76
664152	Round Top II 24	664205	Round Top II 77
664153	Round Top II 25	664206	Round Top II 78
664154	Round Top II 26	664207	Round Top II 79
664155	Round Top II 27	664208	Round Top II 80
664156	Round Top II 28	664209	Round Top II 81
664157	Round Top II 29	664210	Round Top II 82
664158	Round Top II 30	667120	Round Top II 85
664160	Round Top II 32	667121	Round Top II 86
664161	Round Top II 33	667122	Round Top II 87
664162	Round Top II 34	667123	Round Top II 88
664163	Round Top II 35	667124	Round Top II 89
664164	Round Top II 36	667125	Round Top II 90
664165	Round Top II 37	667126	Round Top II 91
664166	Round Top II 38	667127	Round Top II 92
664167	Round Top II 39	667128	Round Top II 93
664168	Round Top II 40	667129	Round Top II 94
664173	Round Top II 45	667130	Round Top II 95
664174	Round Top II 46	667131	Round Top II 96
664175	Round Top II 47	667132	Round Top II 97
664176	Round Top II 48	667133	Round Top II 98
664177	Round Top II 49	667134	Round Top II 99
664178	Round Top II 50	667135	Round Top II 100
664179	Round Top II 51	667136	Round Top II 101
664180	Round Top II 52	667137	Round Top II 102
664181	Round Top II 53	667138	Round Top II 103
664182	Round Top II 54	667139	Round Top II 104
664183	Round Top II 55	667140	Round Top II 105
664184	Round Top II 56	667141	Round Top II 106
664185	Round Top II 57	667142	Round Top II 107
664186	Round Top II 58	667143	Round Top II 108
664187	Round Top II 59	707534	Round Top II 201
664188	Round Top II 60	707535	Round Top II 202
664189	Round Top II 61	707536	Round Top II 203
664190	Round Top II 62	707537	Round Top II 204
664195	Round Top II 67	707538	Round Top II 205
664196	Round Top II 68	707539	Round Top II 206

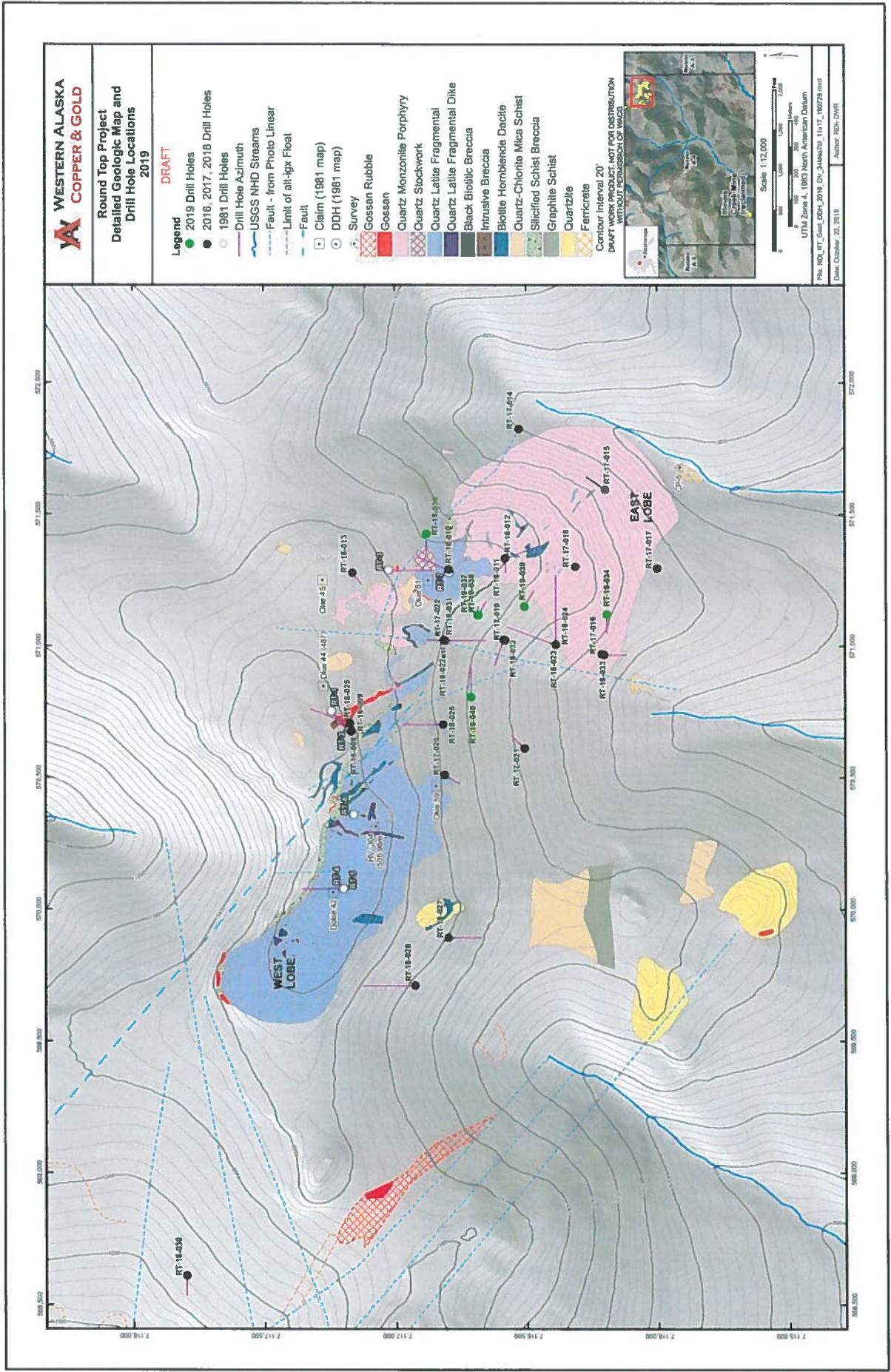


Figure 4. Geologic Map of the Round Top Property, including 1981-2019 drill holes.

CROSS SECTION SKETCH *REQUIRED

BEFORE ACTIVITY

(30)

DURING ACTIVITY

AFTER ACTIVITY

Date Prepared:	Applicant Name:
STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER	
MAP:	
Sec.(s) _____ Township _____, Range _____, Meridian _____	
Scale: 1" = _____	ADLs:
SHEET OF	APMA #

PLACER/SUCTION DREDGE NARRATIVE *REQUIRED

(31)

A narrative of the operation is required. Please use this space to describe the access, mining process, environmental protection measures and reclamation measures to be used for the duration of this permit. Use multiple sheets if necessary.

DESCRIBE ACCESS, PERSONNEL HOUSING AND CAMP LAYOUT:

DESCRIBE PROGRESSIVE STEPS OF MINING METHOD:

DESCRIBE PLANNED RECLAMATION MEASURES INCLUDING TIMELINE FOR RECLAMATION TO TAKE PLACE:

DISCUSS WATER MANAGEMENT PLANS, INCLUDING USE, SOURCE, QUANTITY AND SURFACE WATER/ EROSION MANAGEMENT PLAN:

DISCUSS FUEL STORAGE, HANDLING, AND SPILL PREVENTION AND RESPONSE PLANS.

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

2020 ANNUAL RECLAMATION STATEMENT

(32)

- Placer Mining
- Suction Dredging
- Hardrock Exploration

APMA # 2444

Complete and return this statement by December 31, 2020. If you did not operate, fill in your name, check bottom box, sign, and return form.

In accordance with AS 27.19 (Reclamation Act):

I, Christopher Marrs hereby file an annual reclamation statement for the 2020 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 2020: 0 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 2020: State 0, Federal 0, Private 0. (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 2020: 0.0 acres.

Total un-reclaimed acres: 0.1 (This should match "total acreage currently disturbed" on the 2021 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:

[Empty box for other reclamation measures]

Did not operate in 2020 and therefore did not conduct reclamation.

Relationship to Claim(s)

- Owner Lessee Operator
- Agent For: _____

Signed Christopher Marrs Date 12/30/20

2021 RECLAMATION PLAN FORM (HARDROCK EXPLORATION)

<input 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 checked="" 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: 0.1 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 0 acres. Total acreage (currently disturbed plus new acres): 0.1 acres.

Acreage disturbed by land status: 0.1 State (general) 0 State (Mental Health) 0 Private 0 Federal

Total acreage to be reclaimed in 2021 0 acres; Total volume of material to be disturbed in 2021: 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:

(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.

Christopher Marrs Printed name (Applicant)	Relationship to Mineral Property: <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <input type="checkbox"/> Agent For: _____	Date: <u>12/30/20</u> APMA #: _____
 Signature (Applicant)		