

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

☐ Single Year ☒ Multi-year Start: 2020 Finish: 2021 APMA Number (A/F/J, Year, ****) _____

What type activity are you planning to perform? *REQUIRED (1) <input type="checkbox"/> Exploration/Reclamation <input type="checkbox"/> Access Equipment <input type="checkbox"/> Mining/Reclamation <input type="checkbox"/> Suction Dredge <input checked="" type="checkbox"/> Hardrock Exploration/Reclamation <input type="checkbox"/> Reclamation		Surface estate of mineral properties: *REQUIRED (2) <input type="checkbox"/> State (General) <input type="checkbox"/> State (Mental Health) <input checked="" type="checkbox"/> Private (Patented) <input type="checkbox"/> Federal <input type="checkbox"/> Private (Native Corp.) <input type="checkbox"/> City or Borough	
Mineral Property Owners: *REQUIRED (3) Individual Contact Name and Company Name Niblack Project LLC	Lessee: (4) Individual Contact Name and Company Name *if applicable	Operator: *REQUIRED (5) Individual Contact Name and Company Name Niblack Project LLC	
Mailing Address for official correspondence: *REQUIRED PO Box 8295 Ketchikan, AK 99901	Mailing Address for official correspondence:	Mailing Address for official correspondence: *REQUIRED	
Summer phone# (Primary): *REQUIRED 604-551-0875	Summer phone# (Primary):	Summer phone# (Primary): *REQUIRED	
Summer phone# (Secondary):	Summer phone# (Secondary):	Summer phone# (Secondary):	
Winter phone# (Primary): *REQUIRED 604-551-0875	Winter phone# (Primary):	Winter phone# (Primary): *REQUIRED	
Winter phone# (Secondary):	Winter phone# (Secondary):	Winter phone# (Secondary):	
Cell/Satellite: 604-551-0875	Cell/Satellite:	Cell/Satellite:	
FAX:	FAX:	FAX:	
E-mail: grahamneale.nib@gmail.com	E-mail:	E-mail:	
Alaska Business/Corporation Entity #: 931566 Registered Agent (Corp./LLC/LP): LLC	Alaska Business/Corporation Entity #: _____ Registered Agent (Corp./LLC/LP): _____	Alaska Business/Corporation Entity #: _____ Registered Agent (Corp./LLC/LP): _____	
Project Name If Applicable: (6) Niblack Project	Average Number of Workers: *REQUIRED (7) 14	Start-Up/Shut Down: (Month/Day) (8) <u>Oct 15, 2020</u> to <u>Dec 31, 2021</u>	
Mining District: *REQUIRED (9) Ketchikan	Applicable USGS Map: *REQUIRED (10) Craig A-1 SE	On What Stream Is This Activity? (11)	
Legal Description of mineral properties to be worked and other projected related activities (MTRS): *REQUIRED (12) Copper River Meridian; Township 78S; Range 88E; Sections 33 & 34			
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.	USMS1437	Mary Lode (Patented)	7.		
2.	USMS644	Iron and Copper Lode (Patent)	8.		
3.	USMS644	Forest Lode (Patented)	9.		
4.	USMS644	Judge Lode (Patented)	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.	Zinex Mining Corp A5 Drill mounted on tracks 101.5"L x 72"W	1		<input checked="" type="checkbox"/>
2.	Submersible electric pump for water withdrawal	2		<input checked="" type="checkbox"/>
3.	Chevrolet 2500 Diesel Pickup for crew and equipment transport	2		<input checked="" type="checkbox"/>
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: _____

ACCESS OUTSIDE OF CLAIM BLOCK, CONTINUED

Indicate type(s) of existing access:

- ☒ All Season Road: Existing project roads.
- ☐ 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:

Access to the project site will be provided via supply barge transport directly to the claim block. Access within the claim block will be along roads constructed during activities supporting Waste Management Permit (WMP) 2007-DB0037 (currently WMP2013-DB0001). ~~Equipment will be offloaded onto the claim block and existing road system, which will be used to transport the equipment to the drill locations.~~

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:

N/A

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?

[BLM Operators Only - Spill Worksheet is Required]

- ☐ 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.
- ☒ 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: 100 Feet. (Minimum distance from naturally occurring water bodies required by DNR is 100 feet).

Is waste oil stored on the project site? ☒ Yes ☐ No If yes, describe quantity and storage modality: >250g in 55g drums

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

ABOVEGROUND STORAGE TANK REGISTRATION**(18)**

If your operation will employ the use of at least one 1,000-gallon aboveground storage tank of noncrude oil (e.g. diesel), it must now be listed on a Class 2 Facility Registration and Notification Form. For additional information, including the registration form, visit <http://dec.alaska.gov/spar/ppr/prevention-preparedness/class-2-facilities/> or contact Class 2 facility staff at (907)465-5237 or dec.spar.class2@alaska.gov.

Understood: ☒ Yes ☐ No

TEMPORARY STRUCTURES/FACILITIES

(19)

Is a camp or placement of any temporary structure requested? ☐ Yes ☒ No

If No, Please explain: Camp and support structures are part of project site infrastructure to support exploration activities

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	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.

Wastewater - Describe the wastewater type and quantity and proposed method of wastewater disposal:
Wastewater will be generated on the existing barge camp and discharged through ADPES AKG572102

Solid Waste - Describe the types of waste that will be generated on-site, including solid waste, the source of the waste, and the method of waste disposal, i.e. pit privy, or self-contained system, or outfall line; **Include distance from the nearest water body:**

Pit privy may be installed at drill location. Privy will be dug to a depth of 24" and be placed a minimum 100ft from nearest water body.

What is the distance structures, including pit privies 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

(20)

☐ 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)	N / A		N / A		N / A	
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

(21)

(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: _____ Type of Drill(s) Used: _____

Estimated Maximum Depth: _____ 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: 2 _____

Water source name(s): Unnamed streams and stormwater ditches

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)
2020-1	USMS644	55.0640	-132.1499
2020-2	USMS644	55.0650	-132.1511
2020-3	USMS644	55.0663	-132.1516
2020-4	USMS644	55.0668	-132.1503
2020-5	USMS644	55.0665	-132.1499
2020-6	USMS644	55.665	-132.1487

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

EXPLOSIVES**(22)**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**(23)**

Definition of "dam" as described in AS 46.17.900(3). 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.

☒ No dam required ☐ Existing ☐ To be constructedProposed Structure: ☐ Temporary ☐ PermanentPurpose: ☐ Makeup water pond ☐ Settling/recycle pond ☐ Stream diversion Other: _____

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

Calculated Water impoundment capacity: _____ acre-feet

IN-STREAM ACTIVITIES and STREAM CROSSINGS**(24)**

List any equipment that will be crossing streams or used in-stream (refer to Box 14 if necessary):

Submersible electric pumps with screens for water supply to drill rig.

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.	Diversion ditch/catchbasin	55.0669	-132.1490	C078S088E33 NENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	Unnamed stream	55.0664	-132.1409	C078S088E33 NENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Diversion ditch/catchbasin	55.9656	-132.1515	C078S088E33 NENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Unnamed stream	55.0653	-132.1511	C078S088E33 NESE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.					<input type="checkbox"/>	<input type="checkbox"/>	<input 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.? Existing drainage; unnamed stream; _____

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 20 _____

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

Name of water source (if any): _____

Camp pump intake diameter: 2" _____ Camp pump rate: _____ gpm _____ hrs/day

**Requesting year-round TWUA
for camp water from existing
well, previously authorized on
expired TWUP**

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? 2 _____ (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: 24 _____ hrs/day 2 _____ 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 (20) MINING METHOD.

**TIMBER CLEARING AND USE
(Operations on State Lands Only)**

(26)

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 area of timber to be cleared.

N/A

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.

N/A

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**(27)**

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: 55.0666 Longitude: - 132.1488

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

Please list Corps permits previously issued for this site: POA- 1982 - 290 , 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

(29)

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 24 (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/index.cfm>

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

Stream Name: N/A

☐ 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

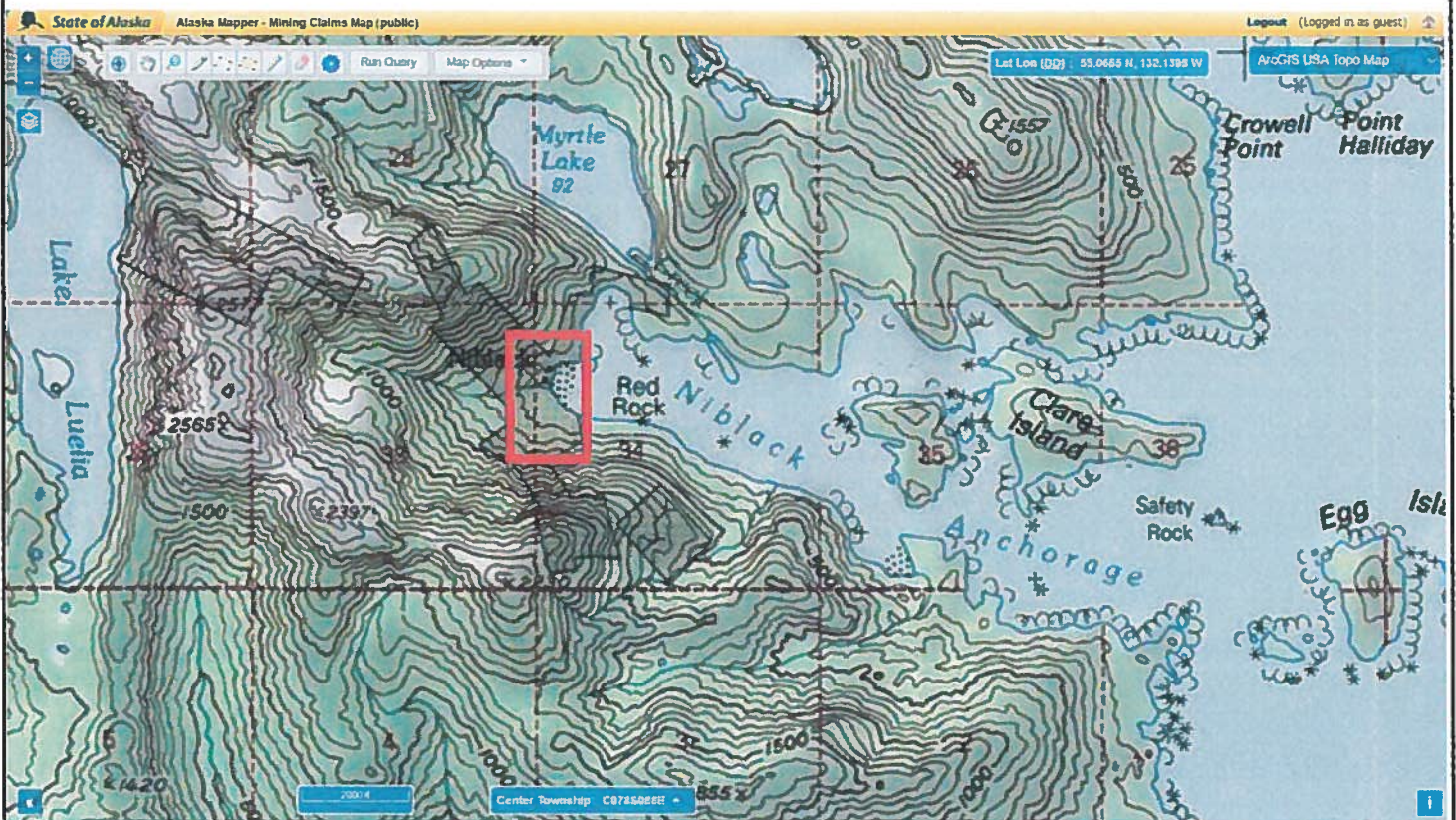
Note: Diversion should approximate the existing stream in terms of meander bends, length, depth, stream width, and floodplain width.

**(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

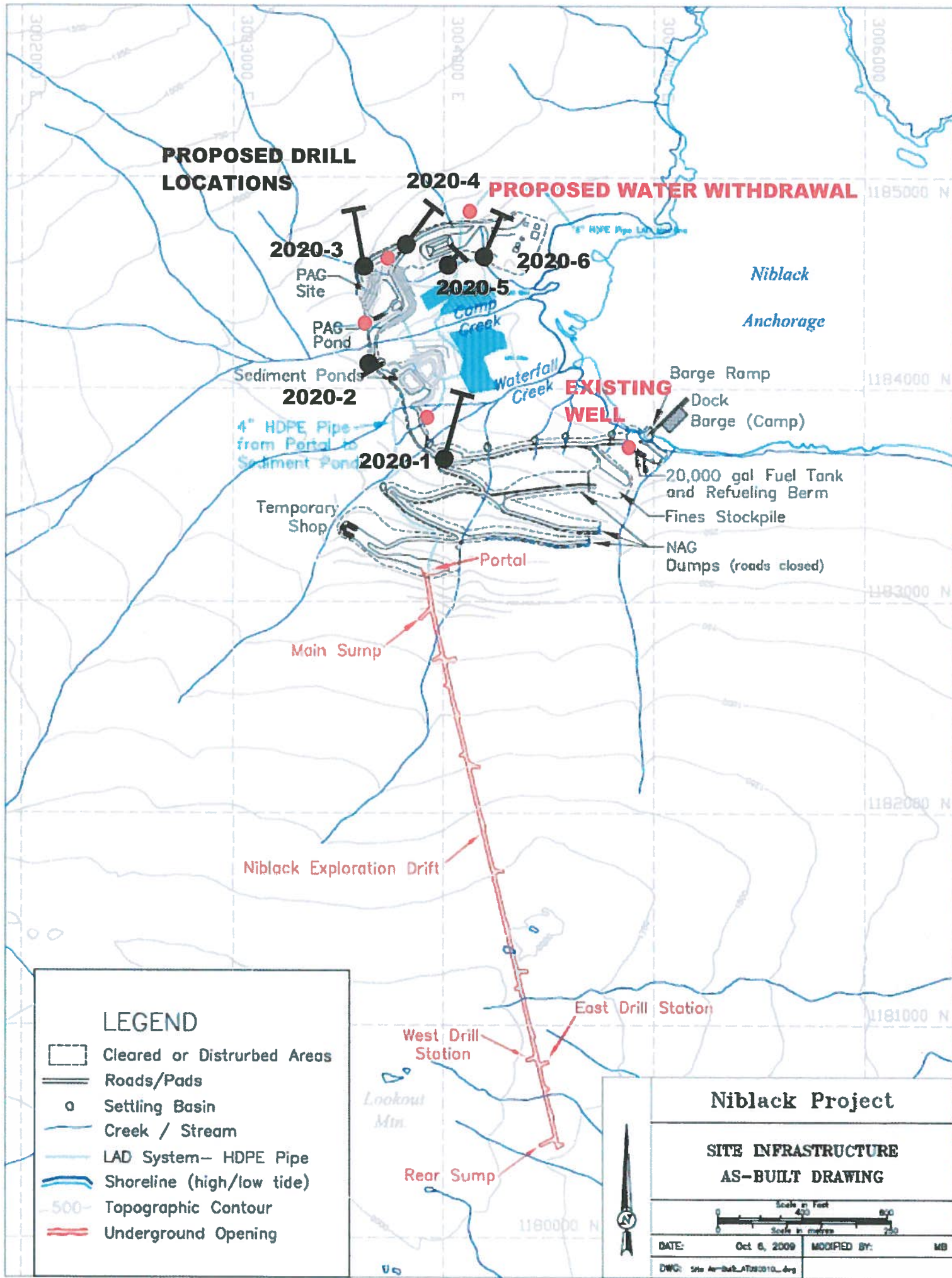
(30)

VICINITY MAP



Date Prepared: 09/30/	Applicant Name: Niblack Project LLC
STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER	
MAP: VICINITY MAP	
Sec.(s) <u>33,34</u> Township <u>78S</u> , Range <u>88E</u> , Meridian <u>C</u>	
Scale: 1" = _____	ADLs: _____
SHEET <u>1</u> OF <u>2</u>	APMA # _____

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



CROSS SECTION SKETCH *REQUIRED

BEFORE ACTIVITY

(31)

DURING ACTIVITY

AFTER ACTIVITY

Date Prepared: 09/30/14 Applicant Name: Niblack Project LLC

**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER**

MAP: VICINITY MAP

Sec.(s) 33,34 Township 78S, Range 88E, Meridian C

Scale: 1" = _____ ADLs: _____

SHEET OF 2 APMA # _____

PLACER/SUCTION DREDGE NARRATIVE *REQUIRED

(32)

A narrative of the operation is required. Please use the space provided below or attach additional sheets as necessary to answer the following questions. Include any additional information to fully define your operation.

DESCRIBE ACCESS, PERSONNEL HOUSING AND CAMP LAYOUT:

N/A

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:

2019 ANNUAL RECLAMATION STATEMENT

(32)

- ☐ Placer Mining
☐ Suction Dredging
☐ Hardrock Exploration

APMA # : _____

Complete and return this statement by December 31, 2019. If you did not operate, fill in name, check bottom box, sign and return form.

In accordance with AS 27.19 (Reclamation Act):

I, _____ hereby file an annual reclamation statement for the 2019 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 2019: _____ cubic yards (includes strippings and processed material).

Sluice days last season: _____ Cubic yards of material processed daily: _____ Annually : _____

Total acreage disturbed in 2019: _____ acres. (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 _____ feet and Width _____ feet of stream diversion.

☐ No Diversion

Stream diversion: ☐ Temporary ☐ Permanent (check one).

Total area reclaimed in 2019: _____ acres.

Total un-reclaimed acres: _____ (This should match "total acreage currently disturbed" on the 2019 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:

☐ did not operate in 2019 and therefore did not conduct reclamation.

Relationship to Claim(s)
☐ Owner ☐ Lessee ☐ Operator
☐ Agent For: _____

Signed _____

Date _____

HARDROCK NARRATIVE *REQUIRED

(32, CONT)

A narrative of the operation is required. A narrative of the operation is required. Please use the space provided below or attach additional sheets as necessary to answer the following questions. Include any additional information to fully define your operation.

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 will be via supply barge or landing craft. All equipment will be transported over existing roads to the drillhole locations

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

Exploration method will be using XXX drill rigs to extract exploration core samples from the area around the historic Niblack Mine. All activities will be limited to existing infrastructure. Personnel will be housed on existing Cape Muzon camp barge adjacent to the claim block.

DESCRIBE SITE PREPARATION ACTIVITIES AND PRE-RECLAMATION MEASURES:

Site preparation will involve leveling the drill rig on existing infrastructure and ensuring there is a safe work environment using existing facilities. Sumps will be dug, and lined if necessary, to control drill water return

DESCRIBE PAD CONSTRUCTION AND DIMENSIONS:

Pad will be maximum 30ft x 30ft and level ground or road will be selected whenever possible. Anticipated little need to build or crib level timber pads.

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

Drill water return will be managed through sumps in existing disturbance to control unintentional discharge into adjacent areas, with particular care to streams and wetlands. If necessary, cuttings will be removed and disposed in existing settling ponds permitted through WMP 2013DB-0001

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

All fuel will be handled in accordance with SPCC Plan for the Niblack Project

DESCRIBE WATER USE INCLUDING ESTIMATE OF DAILY WATER USE:

Water will be taken from nearby catch basins as part of SWPPP plan where possible, or unnamed stream. Water will be used for drilling activities only at an estimated use of XXX

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

All activity will take place on existing infrastructure within patented claim boundaries. No in-stream crossings are necessary and the proposed drilling will occur in late fall to minimize impacts to fish and wildlife

DESCRIBE CLOSURE, PLUGGING METHODOLOGY, SURFACE RECLAMATION AND ABANDONEMENT:

Holes will be plugged at a minimum of 20ft from surface or complete grouting of hole if necessary. Drill casing will be cut off at or below surface and marked to mitigate future safety impacts at the project site. At sumps will be filled and covered as part of hole closure.

ANNUAL RECLAMATION REPORT FOR HARDROCK EXPLORATION REQUIREMENTS

The Alaska Reclamation Act AS 27.19 requires operations that disturb less than five acres to file an Annual Reclamation Statement. DNR- Mining requests that you do so by December 31st of each year that the permit is in effect. Operations that will disturb more than five acres are required to have a Reclamation Plan Approval and to submit an Annual Exploration Report detailing the exploration and reclamation actions taken during the year. Please ensure that your Annual Hardrock Exploration Report contains the following information:

- A written narrative describing your activities and the reclamation measures taken at all disturbances.
- A topographic map showing the portion of the claim block where surface disturbing exploration activities have occurred. The plan map should be at a scale of 1"= 1 mile, or other appropriate scale sufficient to illustrate: existing trails and roads; new trails and roads; drill hole locations (other than shallow auger holes); trench locations; the camp location; and, any other surface disturbances (please distinguish between reclaimed and unreclaimed features).
- A photo of representative sections of any new road or trail construction.
- A detailed description of the methods used to plug the drill holes.

DEPENDING ON YOUR LEVEL OF ACTIVITY, THE FOLLOWING REPORTING REQUIREMENTS INCLUDE A REQUEST FOR DATA IN TABULAR FORMAT

For reclamation reporting we require that operators submit requested reclamation information in tabular format. **Please use the MS Excel Workbook provided by DNR-Mining.** The table is available for download at http://dnr.alaska.gov/mlw/forms/19apma/AHEA_ReclamationSpreadsheet.xls (electronic copies can be submitted via e-mail to dnr.fbx.mining@alaska.gov, dnr.anch.mining@alaska.gov or provided on other media with application packet). Contact DNR-Mining if you have questions or need assistance.

- A table of drill sites with Latitude & Longitudes in NAD 83. Included with the sites list if fuel storage is on site, if a tundra mat is present, where trash and sanitary facilities are located, if drill additives are in use, if artesian zones are encountered and if water is discharged from the drill site. Also list whether the drill site has been reclaimed. If a drill site has been reclaimed, please include how the hole has been plugged and cemented (may reference description for more detail), if there is a standing pipe, if the site has been revegetated and the date that the reclamation occurred.
- A table of sump pit sites with Latitude & Longitudes in NAD 83. Included with the sites list if there is a discharge trench and the dimensions of the pit. Also list whether the sump pit has been reclaimed.
- A table of drill water supply sites with Latitude & Longitudes in NAD 83. Included with the sites list what kind of site it is (lake, pond, stream, etc.), intake size, mesh size on intake, if the intake is completely submerged, hose color, average gallons per minute consumed and start up and stop dates.
- A photo, with appropriate caption including reference to drill site table location, of each reclaimed drill site and exploration trench.
- A list of Mining Claims by ADL# or BLM # that contain unreclaimed disturbance at the end of the year and a total acreage that remains unreclaimed.

Hardrock Exploration Statement of Need:

Alaska's mineral industry is important to the state's economy and its health is tracked by the Department of Natural Resources in part through a voluntary questionnaire <http://www.dggs.alaska.gov/minerals_questionnaire>. Your answers provided in the questionnaire are crucial to make an accurate compilation of yearly exploration and mining activities in Alaska, provided in annual *Alaska's Mineral Industry* reports <<http://www.dggs.alaska.gov/sections/minerals/>>.

Please consider submitting important information such as yearly exploration expenditures, which are not collected through any other agency. All information on the questionnaire will be considered to be confidential, unless items are clearly marked as publicly available or are already available in the public record.

2020 RECLAMATION PLAN FORM (PLACER EXPLORATION OR MINING)

<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 (34) (less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
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In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of operations with disturbance of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and for a "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, you must provide additional information concerning your plans for reclamation under separate attachments.

Total acreage currently disturbed: 13.5 acres. This should match: "Total Unreclaimed Acres" on your 2019 Annual Reclamation Statement for Small Mines, or line #7 on your 2020 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 2020: 0 acres. Total acreage (currently disturbed plus new acres): _____ acres.

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

Total acreage to be reclaimed in 2020: _____ acres; Total volume of material to be disturbed in 2020: 0 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 as to why these measures are not necessary at your site.)

- 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 the area can reasonably be expected to revegetate within five years. Stockpiled vegetation will be spread over topsoils.
- Settling ponds located within the active flood plain and necessary for continued use during the next mining season will be protected from erosion or the fines removed.
- If the mining operation diverts a stream channel or modifies a flood plain to the extent that the stream channel is no longer stable, the stream channel will be reestablished in a stable location in the valley flood plain.
- The flood plain will be established as appropriate to accommodate seasonal high-water flood events and prevent undue erosional degradation.
- 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.
- 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.
- At placer drift mine closure, all mine 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 alternate 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 greater than or equaling 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 <http://www.blm.gov/ak/st/en/prog/minerals.html> for more information on what is needed for a reclamation plan on Federal lands, as they may be different than those identified above.

Graham Neale 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>Oct 1, 2020</u> APMA #: _____
_____ Signature (Applicant)		

2020 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 (35) (less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
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In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of operations with disturbance of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and for a "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, you must provide additional information concerning your plans for reclamation under separate attachments.

Total acreage currently disturbed: 13.5 acres. This should match: "Total Unreclaimed Acres" on your 2019 Annual Reclamation Statement for Small Mines, or line #7 on your 2020 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 2020 0 acres. Total acreage (currently disturbed plus new acres): _____ acres.

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

Total acreage to be reclaimed in 2020 _____ acres; Total volume of material to be disturbed in 2020: 0 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 greater than or equal to 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 <http://www.blm.gov/ak/st/en/prog/minerals.html> for more information on what is needed for a reclamation plan on Federal lands, as they may be different than those identified above.

Graham Neale Printed name (Applicant) <div style="text-align: center;"><i>Graham Neale</i></div> Signature (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>Oct 1, 2020</u> APMA #: _____
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2020 RECLAMATION PLAN FORM (SUCTION DREDGE)

<input type="checkbox"/> A. RECLAMATION PLAN (REQUIRED if the operation will disturb five or more acres in a 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 (36) (less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
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In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of operations with disturbance of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and for a "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, you must provide additional information concerning your plans for reclamation under separate attachments.

Total acreage currently disturbed: 13.5 acres. This should match: "Total Unreclaimed Acres" on your 2019 Annual Reclamation Statement for Small Mines, or line #7 on your 2020 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 2020: 0 acres. Total acreage (currently disturbed plus new acres): _____ acres.

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

Total acreage to be reclaimed in 2020: _____ acres; Total volume of material to be disturbed in 2020: 0 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.)

☐ **Stream Suction Dredge Operations:**

- Reclamation will be completed prior to the end of the mining season. Reclamation will consist of leveling or contouring all gravel bar and stream bed tailings. Tailings will be left in such a manner that spring run-off will level the tailings without causing undue erosion.
- In no case will tailing piles extend more than 18 inches above the water surface at the end of the mining season.
- Prior to the end of the mining season, tailing piles, berms, or wing dams will be removed or left in such a manner to allow unrestricted passage of fish and flood waters.
- Other: _____

☐ **Offshore Suction Dredge Operations:**

- Tailings discharged from the dredge to the lake, channel, sound, bay or sea floor will be placed in a manner that will approximate the adjacent floor surface. The dredge shall be moved as necessary to allow for the proper low-profile distribution of tailings.
- Tailings will be placed in a manner that will maintain a water depth suitable for safe passage of traffic.
- Other: _____

Generally:

- On all 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 alternate 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 greater than or equal to 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 regulation for Federal Operations. Refer to 43 CFR 3809 or the BLM minerals website available at <http://www.blm.gov/ak/st/en/prog/minerals.html> for more information on what is needed for a reclamation plan on Federal lands, as they may be different than those identified above.

Graham Neale 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>Oct 1, 2020</u> APMA #: _____
Signature (Applicant)		

**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
STATE WIDE BOND POOL FORM**

APMA # _____.

Name

Mailing Address

City

State

Zip Code

Submits unto the State of Alaska, Department of Natural Resources, the sum of

\$ _____ DOLLARS

for payment into the State Wide Bonding Pool to meet the bonding requirements of Alaska Statute 27.19 for mining activity located on claim numbers _____.

These claims are located within legal description (Township, Range, Section, Meridian)

This bond amount was calculated as follows:

For **Federal Claims**: The total area of the mining operation, including camp site, access roads, unreclaimed areas, and areas to be stripped for mining next season is _____ acres. Acreage should be rounded to the next whole acre. This acreage must include all areas disturbed by mining operations after January 1, 1981, that have not been approved as reclaimed by BLM. If a mining operation disturbs a previously mined area, that area must also be included in the acreage to be bonded.

For **State and Patented Claims**: The active mining disturbance, not including camp and access roads is _____ acres (acreage should be rounded to the next whole acre). This includes all areas that are part of the mining operation; including stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary or permanent stream diversions, and settling ponds. This acreage must include all areas disturbed by a mining operation after October 15, 1991 that have not been approved as reclaimed by ADNR. If a mining operation disturbs a previously mined area, that area must also be included in the acreage to be bonded.

Refundable bond deposit (new): _____ acres X \$112.50 = \$ _____.

Nonrefundable bond pool annual fee (new): _____ acres X \$ 37.50 = \$ _____.

Total \$ _____.

Make check payable to 'Department of Natural Resources'. Sign and return form with applicable fees to: DNR - Mining: 550 W. 7th Ave. Suite 900B, Anchorage, AK 99501-3577 or 3700 Airport Way, Fairbanks, AK 99709-4699.

Signed - Miner

Date

ADNR - Division of Mining, Land & Water

Date

BLM - Bureau of Land Management

Date

AMENDED ACREAGE
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
STATE WIDE BOND POOL FORM

APMA # _____

Name

Mailing Address

City State Zip Code

Submits unto the State of Alaska, Department of Natural Resources, the sum of
\$ _____ DOLLARS

for payment into the State Wide Bonding Pool to meet the bonding requirements of Alaska Statute 27.19 for mining activity located on
claim numbers _____

These claims are located within legal description (Township, Range, Section, Meridian)

This bond amount was calculated as follows:

For Federal Claims: The total area of the mining operation, including camp site, access roads, unreclaimed areas, and areas to be stripped for mining next season is _____ acres. Acreage should be rounded to the next whole acre. This acreage must include all areas disturbed by mining operations after January 1, 1981, that have not been approved as reclaimed by BLM. If a mining operation disturbs a previously mined area, that area must also be included in the acreage to be bonded.

For State and Patented Claims: The active mining disturbance, not including camp and access roads is _____ acres (acreage should be rounded to the next whole acre). This includes all areas that are part of the mining operation; including stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary or permanent stream diversions, and settling ponds. This acreage must include all areas disturbed by a mining operation after October 15, 1991 that have not been approved as reclaimed by ADNR. If a mining operation disturbs a previously mined area, that area must also be included in the acreage to be bonded.

Original acreage bonded: _____

New acreage bonded: _____

Refundable bond deposit (new): _____ acres X \$112.50 = \$ _____

Nonrefundable bond pool annual fee (new): _____ acres X \$ 37.50 = \$ _____

Total \$ _____

Grand total of bonded acres: _____

Make check payable to 'Department of Natural Resources'. Sign and return form with applicable fees to: DNR - Mining: 550 W. 7th Ave. Suite 900B, Anchorage, AK 99501-3577 or 3700 Airport Way, Fairbanks, AK 99709-4699.

Signed - Miner Date

ADNR - Division of Mining, Land & Water Date

BLM - Bureau of Land Management Date

STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
STATE WIDE BOND POOL RENEWAL FORM
FOR 2020 OPERATIONS

APMA # _____.

Name

Mailing Address

Submits to the State of Alaska, Department of Natural Resources, a renewal of reclamation bonding in accordance with AS 27.19 for mining activity on claim's: _____.

located in T. 78S _____, R. 88E _____, Sections _____, C _____, M.

The amount of the refund or amount owed was calculated as follows:

1. Number of acres bonded in 2019: _____ acres
2. Total number of acres disturbed in 2019? _____ acres

This includes unreclaimed acreage from previous years, October 1991 to present, for state or private lands, and 1981 to present for federal claims. On federal claims include area of camp and access roads.

Bonding credits carried forward from 2019 to 2020:

3. Number of acres bonded in 2019 but not disturbed: _____ acres x \$ 112.50 = \$ _____.
(1 minus 2 above)
4. Number of acres reclaimed in 2019 and approved by BLM/
DNR (must submit Bond Release Application for State claims, _____ acres x \$ 112.50 = \$ _____.
when field inspection was not completed for reclaimed area --
(PHOTO/VIDEO DOCUMENTATION REQUIRED.)
5. Dollar total of lines 3 + 4: \$ _____.

Bonding obligations for 2020:

6. Number of acres disturbed but not bonded in 2019: _____ acres x \$ 150.00 = \$ _____.
7. Total number of all unreclaimed acres: _____ acres x \$ 37.50 = \$ _____.
(line 7 should match "total acreage currently disturbed"
on your 2020 Reclamation Plan. (2 minus 4 above)
8. New acres to be disturbed in 2020: _____ acres x \$ 150.00 = \$ _____.
9. Dollar total of lines 6 + 7 + 8: \$ _____.
10. Total acreage bonded in 2019 (7 + 8): _____ acres

If line 5 is larger than line 9 enter the difference here \$ _____. This amount will be refunded.

If line 9 is larger than line 5, the difference is due DNR \$ _____. Make check payable to: DEPARTMENT OF NATURAL RESOURCES.

Signed - Miner

Date

ADNR - Division of Mining, Land & Water

Date

BLM - Bureau of Land Management

Date

NOTICE OF OPERATOR AUTHORIZATION -- STATE MINERAL LOCATIONS

All operators or lease holders submitting APMA's for operations on State mineral locations must submit a "Notice of Authorization" from the owner of record. This notice of authorization must name the operator and leaseholder (if different), the claims(s) by Name and ADL number(s), and the time frame (beginning and ending dates) for which the authorization remains in force. The Division of Mining, Land & Water will not issue any mining permits until we receive this Notice of Authorization. **Please include it with your APMA.**

OPERATOR AUTHORIZATION

I, _____, OWNER of state claim(s) :

<u>Claim Name</u>	<u>ADL Number</u>	<u>Claim Name</u>	<u>ADL Number</u>	<u>Claim Name</u>	<u>ADL Number</u>
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_____	_____	_____	_____	_____	_____
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(Attach additional sheet if necessary)

Have authorized _____.

Address of Operator _____.

to operate on these claims from ____ / ____ / ____ to ____ / ____ / ____.

Owner's Signature _____ Date _____

NOTARY

Subscribed and sworn to before me this ____ day of _____, 20 ____.

For (owner)

(Signature of Notary) _____.

My commission expires:

OR (If the LESSEE and OPERATOR are not the same, both sections must be completed)

I, _____, LESSEE of state claim(s) :

<u>Claim Name</u>	<u>ADL Number</u>	<u>Claim Name</u>	<u>ADL Number</u>	<u>Claim Name</u>	<u>ADL Number</u>
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_____	_____	_____	_____	_____	_____
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(Attach additional sheet if necessary)

have authorized _____ to operate on these claims from ____ / ____ / ____ to ____ / ____ / ____.

Lessee's Signature _____ Date _____

Lessee's Address _____.

NOTARY:

Subscribed and sworn to before me this ____ day of _____, 20 ____.

For (Lessee)

(Signature of Notary) _____.

My commission expires: