

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

Single Year Multi-year Start: 2022 Finish: 2026 APMA Number (A/F/I/J, Year, ****) 2403

What type activity are you planning to perform? *REQUIRED (1) <input type="checkbox"/> Exploration/Reclamation <input checked="" type="checkbox"/> Mining/Reclamation <input type="checkbox"/> Hardrock Exploration/Reclamat <input type="checkbox"/> Access Equipment <input type="checkbox"/> Suction Dredge <input type="checkbox"/> Reclamation	Surface estate of mineral properties: *REQUIRED (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
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Check All That Apply: Mineral Property Owner Lessee Operator *Required (3)

Name: Placer marine mining Primary Phone Number: 907-304-0216
 Address: 17837 1st AVE SPMB310 Secondary Phone Number: 907 947 1264
Normandy Park, WA 98148 Email: gold@placermarinemining.com

If Applicable, Corporation Name: _____ Alaska Business/Corporation Entity# 10004555
 Registered Agent (Corp./LLC/LP) Peter Diemer Click here for the Department of Commerce Link

Check All That Apply: Mineral Property Owner Lessee Operator *Required (4)

Name: _____ Primary Phone Number: _____
 Address: _____ Secondary Phone Number: _____
 Email: _____

If Applicable, Corporation Name: _____ Alaska Business/Corporation Entity# _____
 Registered Agent (Corp./LLC/LP) _____

Check All That Apply: Mineral Property Owner Lessee Operator *Required (5)

Name: _____ Primary Phone Number: _____
 Address: _____ Secondary Phone Number: _____
 Email: _____

If Applicable, Corporation Name: _____ Alaska Business/Corporation Entity# _____
 Registered Agent (Corp./LLC/LP) _____

Check All That Apply: Mineral Property Owner Lessee Operator *Required (6)

Name: _____ Primary Phone Number: _____
 Address: _____ Secondary Phone Number: _____
 Email: _____

If Applicable, Corporation Name: _____ Alaska Business/Corporation Entity# _____
 Registered Agent (Corp./LLC/LP) _____ Attach a separate sheet for additional contacts

Project Name If Applicable: (7) <u>Placer marine mining</u>	Average Number of Workers: *REQUIRED (8) <u>14</u>	Start-Up/Shut Down: (Month/Day) (9) <u>May 1</u> to <u>Nov 30</u>
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Mining District: *REQUIRED (10) <u>Cape Nome</u>	Applicable USGS Map: *REQUIRED (11) <u>Nome B-1</u>	On What Stream Is This Activity? (12) <u>Norton Sound</u>
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Legal Description of mineral properties to be worked (MTRS) *REQUIRED (13)
 Example: Fairbanks Meridian Township 001N Range 003E Sections 15, 16, and 21 or F 001N 003E Sec. 15, 16, and 21

ABL 603907 See Attached ABL 603924 K12S 34W 5-8 ABL 603925 K12S 33W 8-10
K11S 36W See 23 K12S 35W 1+12 15-17

received
6-10-22 MS

Internal Use Only:
 Date Application Received Complete: _____ Adjudicator: _____ LAS Entry: _____
 CID(s): _____ CID(s): _____ CID(s): _____

MV PERMIT LEASE_ME

Source: Alaska Department of Natural Resources, Information Resource Management

Case ID	Case Status	Case Status Description	Case Type Description	Case Type Special Code Label	Customer Last Name	Refresh Date
ADL 603935	35	Issued (35)	Offshore Lease Comp (724)	OFS LEASE	PLACER MARINE MINING INC.	06/03/2023
ADL 603924	35	Issued (35)	Offshore Lease Comp (724)	OFS LEASE	PLACER MARINE MINING INC.	06/03/2023
ADL 603907	35	Issued (35)	Offshore Lease Comp (724)	OFS LEASE	PLACER MARINE MINING INC.	06/03/2023

END OF REPORT

Report Information

Source ID 107
 Source Name MV_PERMIT_LEASE_ME
 Source Descriptic
 Run Date and Titr 06/05/2023 04:15:32 AKDT
 Record Count 3

SQL Statement

SELECT

APMA 2403 Active Area



This map was created on 6/5/2023 by the Alaska Department of Natural Resources as a courtesy to supplement the application received. This map displays a graphical illustration only. Source documents remain the official record.

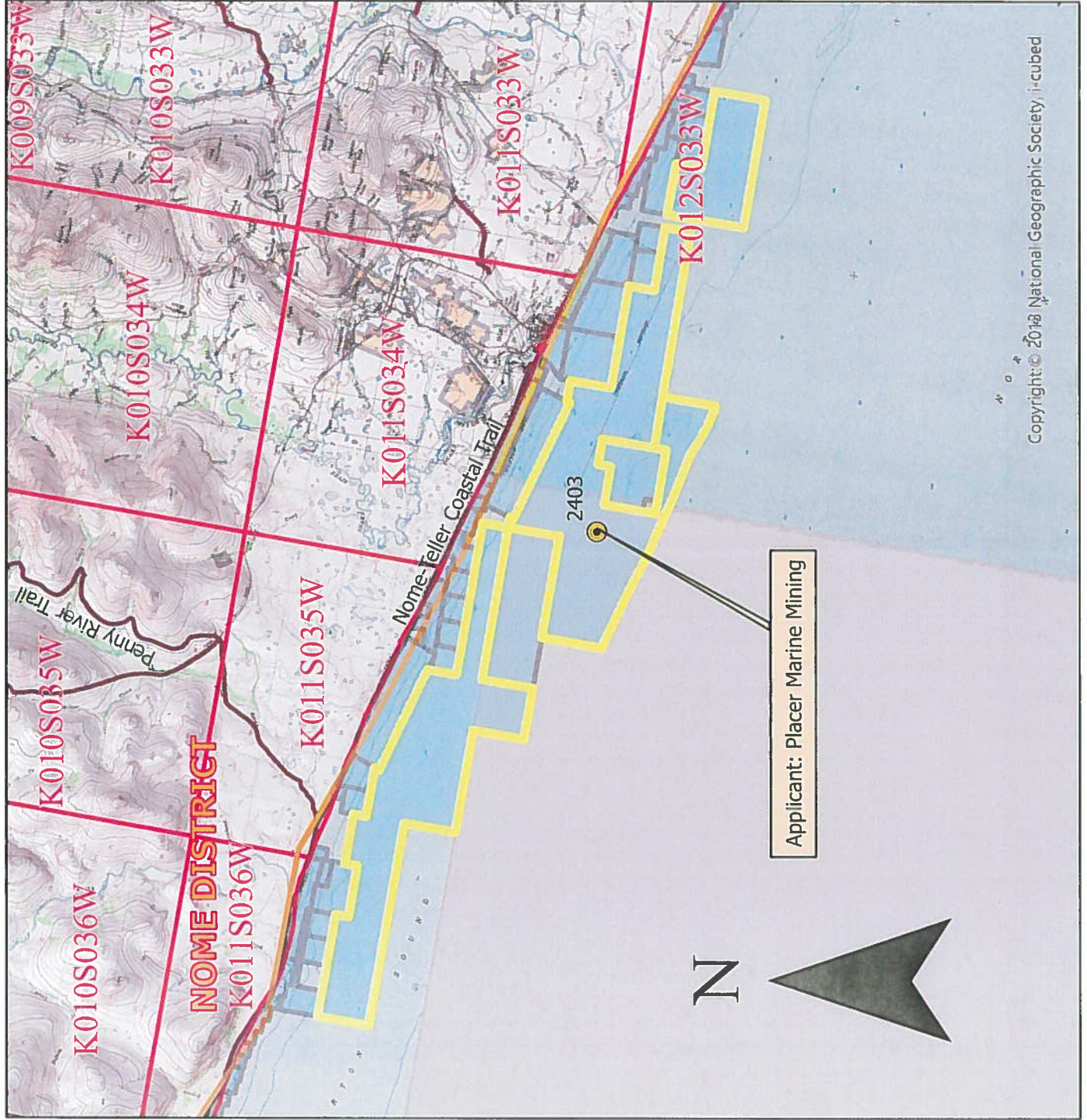
The State of Alaska makes no express or implied warranties (including warranties of merchantability and fitness) with respect to the character, function, or capabilities of electronic services or products or their appropriateness for any user's purposes. In no event will the State of Alaska be liable for any incidental, indirect, special, consequential or other damages suffered by the user or any other person or entity whether from the use of the electronic services or products, any failure thereof or otherwise, and in no event will the State of Alaska's liability to the requestor or anyone else exceed the fee paid for the electronic service or product.

APMA Type Scale: 1:182,346

- Mechanical Placer Mining
- Suction Dredge / Dredging
- <all other values>



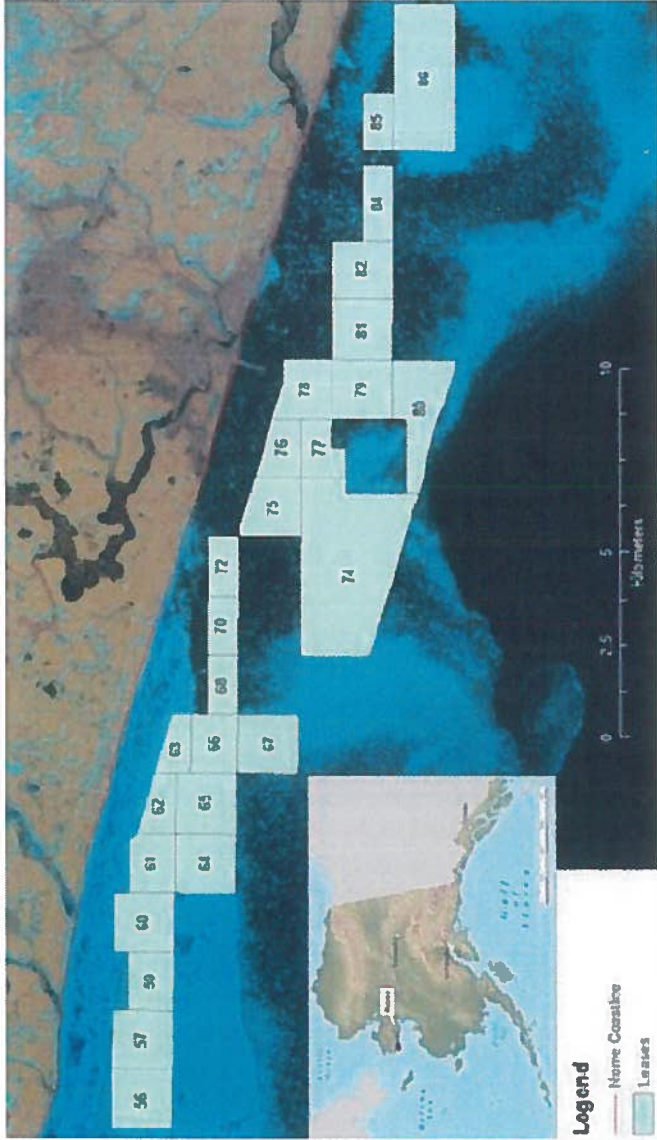
Center: 165°33'6"W 64°29'17"N



(30)



VICINITY MAP



Date Prepared: 4/15/2022	Applicant Name: Placer Marine Mining
STATE OF ALASKA	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER	
MAP:	
Sec.(s)	Township * Range * Meridian K011/K012
Scale: 1" =	ADLs: See Attached
SHEET OF	APMA # 2403

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

MINERAL PROPERTIES LIST

(14)

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.	ADL 603906	See Attached	7.		
2.	ADL 603907		8.		
3.	ADL		9.		
4.	ADL 603907	Western Block	10.		
5.	ADL 603924	Central Block	11.		
6.	ADL 603935	Eastern Block	12.		

INVENTORY OF EQUIPMENT

(15)

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

	Make, Model, Type, Size, Purpose of Equipment or Pump	Quantity of this type	Check One:	
			Located on the claim block?	Transporting to claim block?
1.	See "Name Offshore Operator Supplementals"			
2.				
3.				
4.				
5.				
6.				
7.				
8.				

ACCESS OUTSIDE OF CLAIM BLOCK

(16)

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: Seppala Dr, Nome / West F Street, Nome
- Summer Cross Country Travel off of claim block that is not considered Generally Allowed Uses (Complete Box 17)
- Airstrip
- River
- Winter Cross Country Travel that is not generally allowed use (Complete Box17)

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:

N/A Access will be via Port of Nome and the Norton Sound

CROSS COUNTRY TRAVEL

(17)

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:

[Empty box for name]

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

[Empty box for equipment list]

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

(18)

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 encouraged to use the optional BLM-Spill contingency plan that can be downloaded at: https://www.blm.gov/sites/blm.gov/files/BLM-AK_spill-contingency-plan_APMA_worksheetSup.pdf

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: N/A 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: _____.

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

MINING METHOD

(20)

Mechanical Placer Mining (e.g., terrestrial open-cut operations with dozer or excavator, etc.)

Estimated cubic yards processed annually: ~~100,000~~ 50,000 total ~~by operators~~

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	See "Nome Offshore Operator Supplemental's"					
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/HQ/H, Etc.).

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

Water source name(s): _____

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)

If more than 8 trenches/drill sites, please provide data in tabular format (http://dnr.alaska.gov/miw/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)

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

(24)

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

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

	Stream Name/ Water Source	NAD 83 Datum (approximate) Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/mapper/controller		MTRSC ¼ ¼ Ex: F001S001N01 SWSW	Check boxes to indicate type(s) of activity		
		Latitude ddd.mmmm	Longitude -ddd.mmmm		Crossing	Dredging	Water Intake
1.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.					<input type="checkbox"/>	<input type="checkbox"/>	<input 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.? Norton Sound

What are the months of water use needed (for example May 1st through October 31st)? May 1 through Nov 30

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? Norton Sound

- 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? Norton Sound

- 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: _____	Pond # 2: L: _____	ft W: _____	ft D: _____	ft
Pond # 3: L: _____	ft W: _____	ft D: _____	Pond # 4: L: _____	ft W: _____	ft D: _____	ft
Pond # 5: L: _____	ft W: _____	ft D: _____	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): City of Nome

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? _____ (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: _____ hrs/day _____ inches _____ gpm _____ 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.

For questions on the appropriate use of timber on federal mining claims, contact your local BLM field office.

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

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

(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 #: See "None Offshore operator Supplementals"

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: Norton Sound

Approximate coordinates of mine site:

Latitude: 64° 29' N Longitude: 165° 32' W

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

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. Operations on BLM lands that are proposing a stream diversion are encouraged to contact their local field office as early as possible in the permitting process due to additional requirements.

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 23 (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 30, PLAN MAP OF OPERATION or attach additional sheets as necessary)

CROSS SECTION SKETCH *REQUIRED

BEFORE ACTIVITY

(31)

Norton Sound Sea Level

Natural Bathymetry

DURING ACTIVITY

Sea floor ROV suction dredges

1' to 3' cut while mining

AFTER ACTIVITY

Reclamation Concurrent w/ mining

Date Prepared: 4/15/2022	Applicant Name: Placer marine mining
STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER	
MAP:	
Sec.(s) _____ Township _____, Range _____, Meridian _____	
Scale: 1" = _____	ADLs: See Attached
SHEET OF _____	APMA # 2403

PLACER/SUCTION DREDGE NARRATIVE *REQUIRED

(32)

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:

Access to the mine site will be via Port of Nome using motor vessels. Personnel will be housed at private residences and/or on vessels.

DESCRIBE PROGRESSIVE STEPS OF MINING METHOD:

Vessels leaves port of Nome and motors to mine site.
Vessels sets up anchors & deploys ROV to seafloor.
ROV uses suction to gather material.
Material is screened & pumped as needed to vessel
Vessel uses gravity recovery methods to recover gold
Tailings are discharged back to seafloor
Concentrate from gravity methods are brought to shore for final processing

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

Reclamation is concurrent with mining. Tailings are returned to seafloor, onto mined ground as much as possible. Contours will be close to natural, as the ROV and vessels frequently move while mining.

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

Process water will be from Norton Sound and returned.

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

Fuel will be stored on vessels in USCG approved tanks.

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

Operations will follow requirements of permits to reduce impacts to crab and wildlife.

Discharge down spouts will be used to reduce turbidity and impacted areas.

Nome Offshore Operator—Supplemental Information

Supply this information to your mineral property holder for submission to DNR.

Mineral Property Owner (s): Placer marine mining APMA #: 2403
 Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Cape Nome Mining Craig Coggins
 Operator Summer Mailing Address: PO Box 1435 Operator Winter Mailing Address: PO Box 308

City: Nome State: AK Zip: 99762 City: SKULL VALLEY State: AZ Zip: 86338
 Summer Phone #: 907-299-4292 (cell) Winter Phone #: 928-442-2487
 Email: Cogginsacak@gmail.com

Name and Phone Numbers of Other Operators to work on dredge (if more than one):

Name: David Whitmire Phone Number: 907-299-4434
 Name: Rob Hehnlín Phone Number: 907-351-1301
 Name: _____ Phone Number: _____

Location of Operator Housing While in Nome: Residential Housing

List All Equipment to be Permitted:

	Dredge 1	Dredge 2	Dredge 3
Vessel ID (Name or Number)	<u>Casa De Paga</u>		
Vessel Dimensions	<u>66' x 20</u>		
Vessel Registration # and State	<u>#: 559220</u> State:	#: State:	#: State:
DEC APDES Permit	<u>#: AK6374002</u>	#:	#:
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches: <u>20</u> HP: <u>150</u>	Inches: HP:	Inches: HP:
Mech. Dredge Bucket Volume	Cubic Yards:	Cubic Yards:	Cubic Yards:
Processing Rate	Yds. ³ /Hr: <u>30</u>	Yds. ³ /Hr:	Yds. ³ /Hr:
Wastewater Discharge Rate	GPM: <u>1500</u>	GPM:	GPM:
Maximum Water Depth	Feet: <u>60</u>	Feet:	Feet:
Average Daily Operating Hours	<u>18</u>		
Operation on Sea Ice	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No

Operations using equipment with a nozzle intake of 6" or less, 23 HP or less and solely operating in open waters are not required to have an APDES number.

Authorization for this Operator Valid from 5 / 1 / 2022 to 12 / 31 / 2026
 Mineral Property Owner Signature: Andrew C. Lee Date: 4/15/2022
 Mineral Property Owner Printed Name: Andrew C. Lee for Placer marine mining

Nome Offshore Operator—Supplemental Information

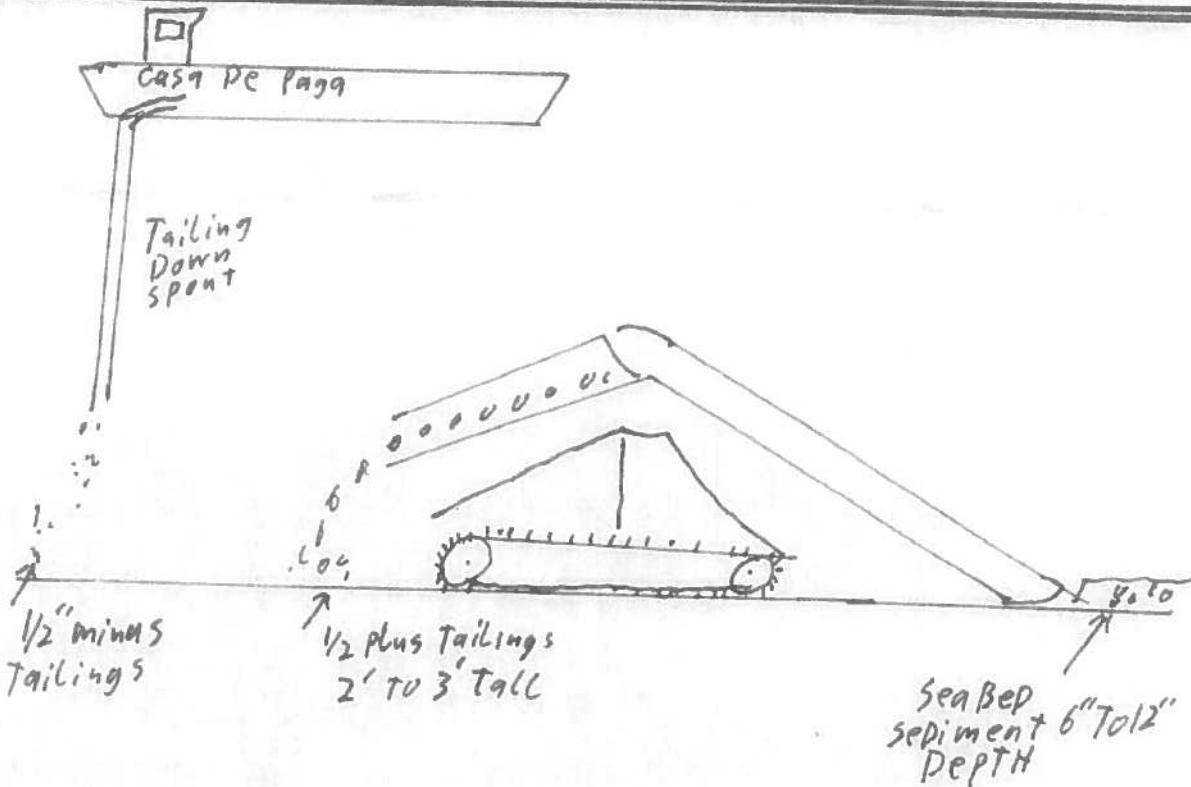
Operation Sketch

Mineral Property Owner (s): Placer marine mining

APMA #: 2403

Lease Tract or Mining Claim Number (s): see Attached

Operator Name: Cape Nome Mining



Nome Offshore Operator—Supplemental Information

Supply this information to your mineral property holder for submission to DNR.

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Palmerosa Mining, LLC

Operator Summer Mailing Address:
PO Box 21

Operator Winter Mailing Address:
2806 Hempridge Rd

City: Nome State: AK zip: 99762

City: Shelbyville State: KY zip: 40065

Summer Phone #: 502-419-0796

Winter Phone #: 502-419-0796

Email: TPalmer2nd@msn.com

Name and Phone Numbers of Other Operators to work on dredge (if more than one):

Name: Thomas Palmer

Phone Number: 502-419-0796

Name: Tom Palmer

Phone Number: 907-434-6499

Name: _____

Phone Number: _____

Location of Operator Housing While in Nome: 0.72 mile, Dexter Bypass, Nome, AK

List All Equipment to be Permitted:

	Dredge 1	Dredge 2	Dredge 3
Vessel ID (Name or Number)	<u>JAG of Nome AK</u>		
Vessel Dimensions	<u>69' x 30'</u>		
Vessel Registration # and State	<u>#: 1078619 State:</u>	<u>#:</u> <u>State:</u>	<u>#:</u> <u>State:</u>
DEC APDES Permit	<u>#: AK6374013</u>	<u>#:</u>	<u>#:</u>
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches: <u>18</u> HP: <u>50</u>	Inches: HP:	Inches: HP:
Mech. Dredge Bucket Volume	Cubic Yards:	Cubic Yards:	Cubic Yards:
Processing Rate	Yds. ³ /Hr: <u>30</u>	Yds. ³ /Hr:	Yds. ³ /Hr:
Wastewater Discharge Rate	GPM: <u>500</u>	GPM:	GPM:
Maximum Water Depth	Feet: <u>70</u>	Feet:	Feet:
Average Daily Operating Hours	<u>10</u>		
Operation on Sea Ice	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No

Operations using equipment with a nozzle intake of 6" or less, 23 HP or less and solely operating in open waters are not required to have an APDES number.

Authorization for this Operator Valid from 5 / 1 / 2022 to 12 / 31 / 2026

Mineral Property Owner Signature: Andrew C. Lee Date: 4/15/2022

Mineral Property Owner Printed Name: Andrew C. Lee for Placer Marine Mining

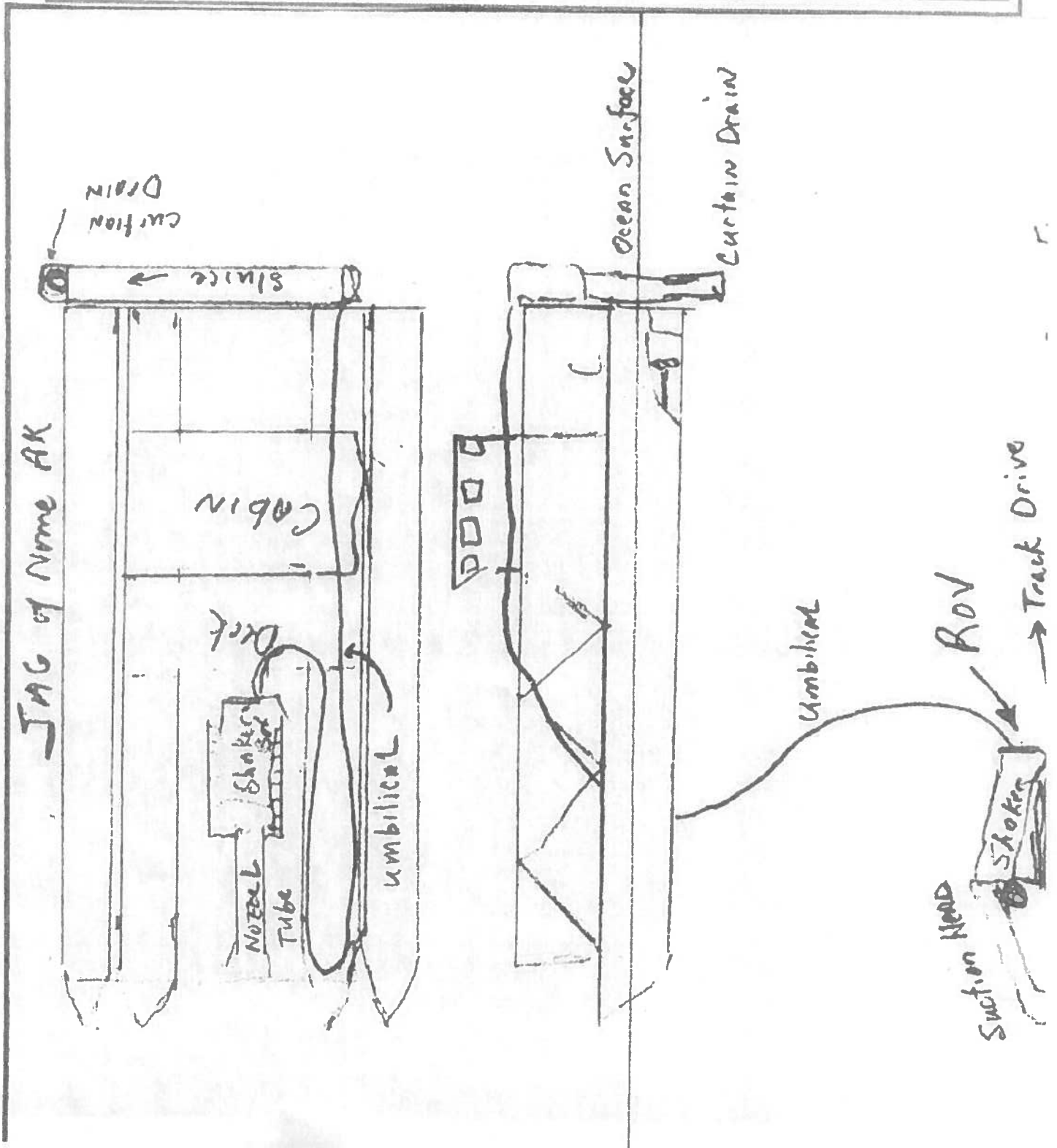
Nome Offshore Operator—Supplemental Information

Operation Sketch

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached List

Operator Name: Palmerosa Mining, LLC



Nome Offshore Operator—Supplemental Information

Supply this information to your mineral property holder for submission to DNR.

Mineral Property Owner (s): Placer marine mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: MVPelagic I, LLC Kyle Harris

Operator Summer Mailing Address: 4510 Foster Place NE Operator Winter Mailing Address: Same

City: Tacoma State: WA Zip: 98422 City: _____ State: _____ Zip: _____

Summer Phone #: 425-508-9158 Winter Phone #: _____

Email: kylejharris127@gmail.com

Name and Phone Numbers of Other Operators to work on dredge (if more than one):

Name: Kyle Harris Phone Number: 425-508-9158

Name: _____ Phone Number: _____

Name: _____ Phone Number: _____

Location of Operator Housing While in Nome: _____

List All Equipment to be Permitted:

	Dredge 1	Dredge 2	Dredge 3
Vessel ID (Name or Number)	<u>PELAGIC</u>		
Vessel Dimensions	<u>135' x 28</u>		
Vessel Registration # and State	<u>#: 1157820</u> State:	#: State:	#: State:
DEC APDES Permit	<u>#: AKG374027</u>	#:	#:
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches: <u>15.75</u> HP: <u>260</u>	Inches: HP:	Inches: HP:
Mech. Dredge Bucket Volume	Cubic Yards:	Cubic Yards:	Cubic Yards:
Processing Rate	Yds. ³ /Hr: <u>100</u>	Yds. ³ /Hr:	Yds. ³ /Hr:
Wastewater Discharge Rate	GPM: <u>4200</u>	GPM:	GPM:
Maximum Water Depth	Feet: <u>75</u>	Feet:	Feet:
Average Daily Operating Hours	<u>12</u>		
Operation on Sea Ice	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No

***Operations using equipment with a nozzle intake of 6" or less, 23 HP or less and solely operating in open waters are not required to have an APDES number. ***

Authorization for this Operator Valid from 5 1 1 2022 to 12 31 2026.

Mineral Property Owner Signature: Andrew C. Lee Date: 4/15/2022

Mineral Property Owner Printed Name: Andrew C. Lee for Placer marine mining

Nome Offshore Operator—Supplemental Information

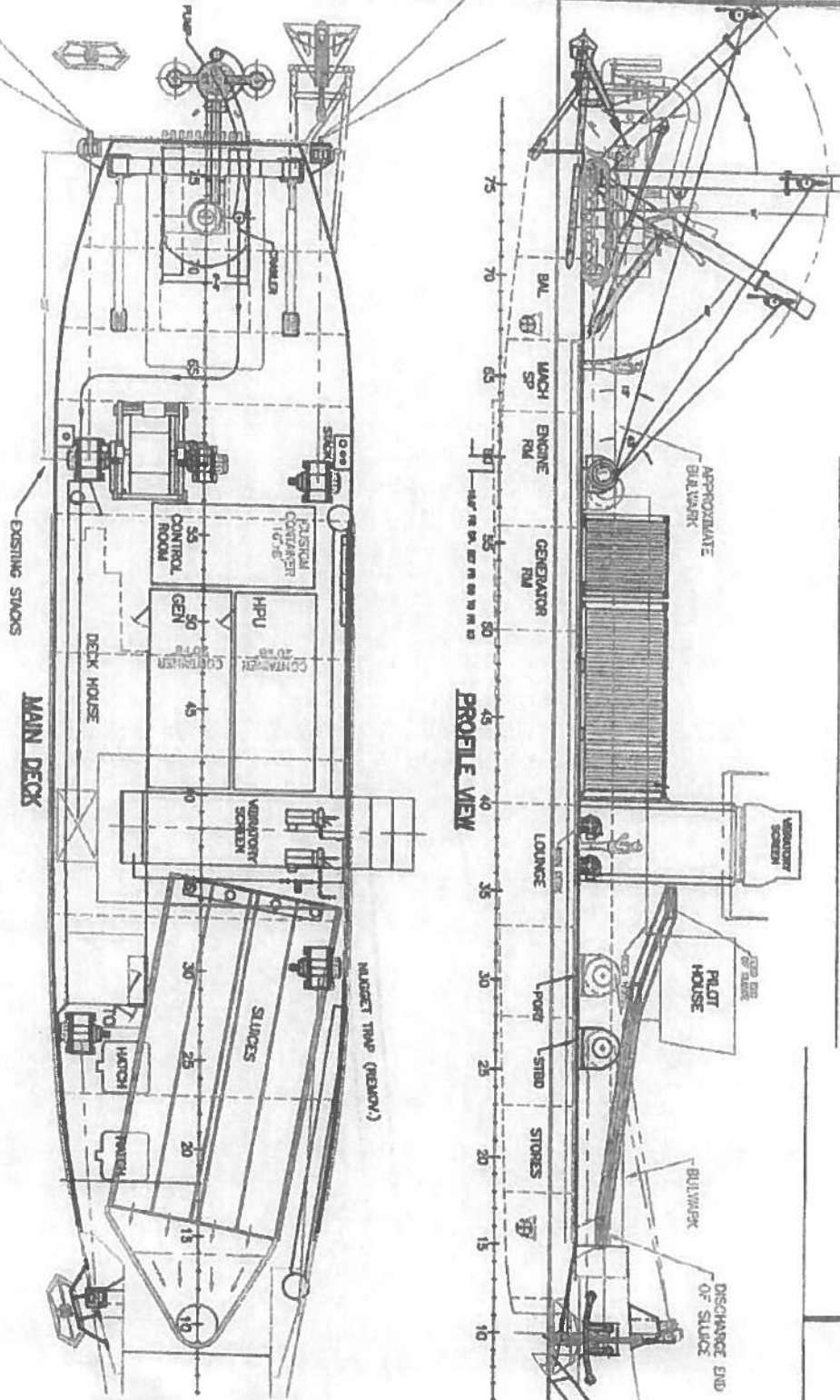
Operation Sketch

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached List

Operator Name: MV PELAGIC 1, LLC Kyle Harris

L: 134'-0"
B: 29'-0"
D: 8'-0"



GENERAL NOTES:

1. DRAWING SHOWS PLANNED LAYOUT OF EQUIPMENT.

Nome Offshore Operator—Supplemental Information

Supply this information to your mineral property holder for submission to DNR.

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Arctic Star Mining LLC.

Operator Summer Mailing Address:

1220 265th Ave NE

Operator Winter Mailing Address:

Same

City: isanti State: MN Zip: 55040

City: _____ State: _____ Zip: _____

Summer Phone #: 612-290-3285

Winter Phone #: _____

Email: arcticstarmining@gmail.com

Name and Phone Numbers of Other Operators to work on dredge (if more than one):

Name: Ethan Runyon

Phone Number: 612-251-0819

Name: Daniel Joy

Phone Number: 763-200-3397

Name: Brian Pates

Phone Number: 952-838-5050

Location of Operator Housing While in Nome: On Vessel

List All Equipment to be Permitted:

	Dredge 1	Dredge 2	Dredge 3
Vessel ID (Name or Number)	<u>Nikola</u>		
Vessel Dimensions	<u>122' x 30'</u>		
Vessel Registration # and State	<u>#: 617891 State: AK</u>	<u>#:</u> <u>State:</u>	<u>#:</u> <u>State:</u>
DEC APDES Permit	<u>#:</u>	<u>#:</u>	<u>#:</u>
Suction Dredge Intake Nozzle Diameter / Pump Size	<u>Inches:</u> <u>HP:</u>	<u>Inches:</u> <u>HP:</u>	<u>Inches:</u> <u>HP:</u>
Mech. Dredge Bucket Volume	<u>Cubic Yards: 3</u>	<u>Cubic Yards:</u>	<u>Cubic Yards:</u>
Processing Rate	<u>Yds.³/Hr: 100</u>	<u>Yds.³/Hr:</u>	<u>Yds.³/Hr:</u>
Wastewater Discharge Rate	<u>GPM: 2500</u>	<u>GPM:</u>	<u>GPM:</u>
Maximum Water Depth	<u>Feet: 85</u>	<u>Feet:</u>	<u>Feet:</u>
Average Daily Operating Hours	<u>15</u>		
Operation on Sea Ice	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No

Operations using equipment with a nozzle intake of 6" or less, 23 HP or less and solely operating in open waters are not required to have an APDES number.

Authorization for this Operator Valid from 6 / 1 / 2023 to 12 / 31 / 2026

Mineral Property Owner Signature: Andrew C Lee Date: April 30, 2023

Mineral Property Owner Printed Name: Andrew C Lee on behalf of Placer Marine Mining

Nome Offshore Operator—Supplemental Information

DEC Alaska Pollutant Discharge Elimination System (APDES) Application

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Arctic Star Mining LLC

WASTEWATER DISCHARGE PERMIT APPLICATION

All 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.

Do you want this supplement to act as an application or renewal for the following APDES general permit (GPs):

Small-Size Suction Dredge GP (nozzle diameter of 6" or less): 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: Norton Sound

Approximate coordinates of mine site:

Latitude: 64° 29' N Longitude: 165° 32' W

Source (e.g., DNR - Alaska Mapper): DNR - Alaska Mapper Datum: NAD83

****Please attach a drawing of the operation.****

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 (Operator/Vessel Owner): 

Responsible Party Name (First Last, Position) - Printed: Jeremy Runyon, President

Business Name (if applicable) - Printed: Arctic Star Mining LLC

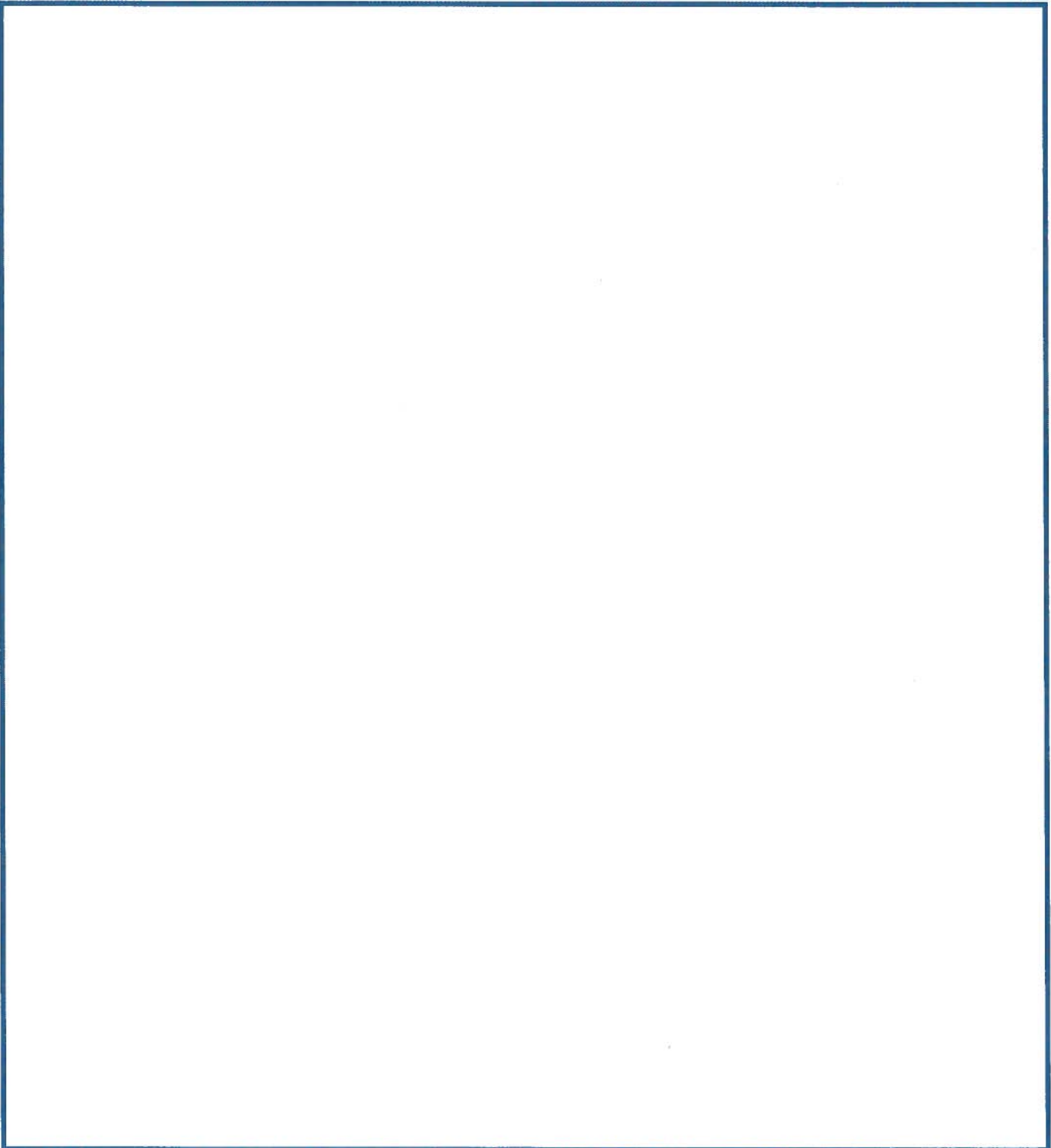
Nome Offshore Operator—Supplemental Information

Operation Sketch

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Arctic Star Mining LLC



Nome Offshore Operator—Supplemental Information

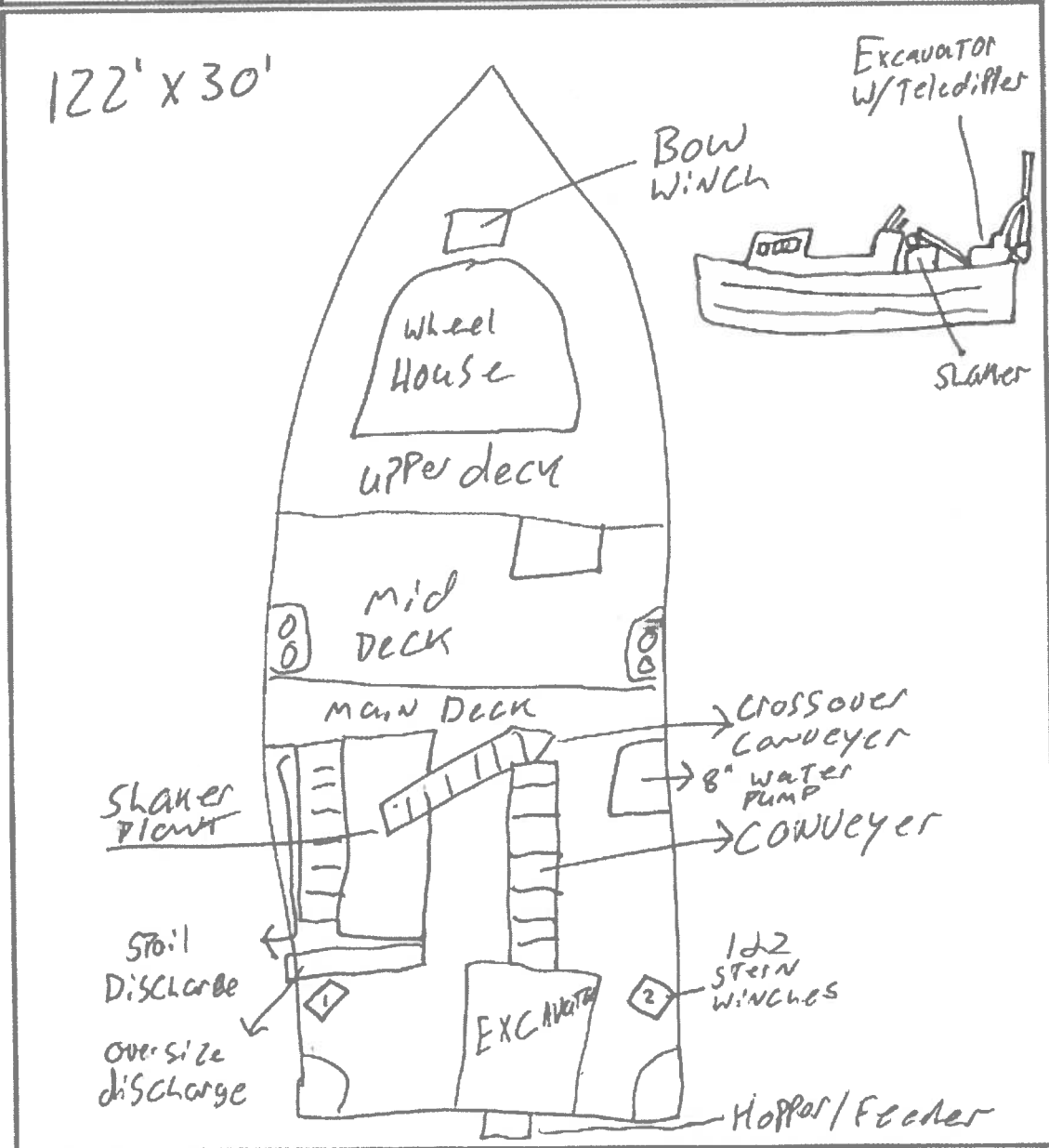
Operation Sketch

Mineral Property Owner (s): Placer Marine Mining

APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: ~~Placer~~ ARCTIC STAR MINING INC.



Nome Offshore Operator—Supplemental Information

Supply this information to your mineral property holder for submission to DNR.

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Gold Bering Sea Mining Company

Operator Summer Mailing Address:
26675 White Spruce Dr

Operator Winter Mailing Address:
Same

City: Eagle River State: AK Zip: 99577

City: _____ State: _____ Zip: _____

Summer Phone #: 907-406-2181

Winter Phone #: _____

Email: gold.bering.sea@gmail.com

Name and Phone Numbers of Other Operators to work on dredge (if more than one):

Name: Stephen Lee

Phone Number: 907-406-2181

Name: _____

Phone Number: _____

Name: _____

Phone Number: _____

Location of Operator Housing While in Nome: On Vessel

List All Equipment to be Permitted:

	Dredge 1	Dredge 2	Dredge 3
Vessel ID (Name or Number)	DAGNY GALT		
Vessel Dimensions	100 x 34		
Vessel Registration # and State	#: 653894 State: USA	#: State:	#: State:
DEC APDES Permit	#: AKG371647	#: State:	#: State:
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches: 6 HP: 18	Inches: HP:	Inches: HP:
Mech. Dredge Bucket Volume	Cubic Yards: n/a	Cubic Yards:	Cubic Yards:
Processing Rate	Yds. ³ /Hr: 8	Yds. ³ /Hr:	Yds. ³ /Hr:
Wastewater Discharge Rate	GPM: 400	GPM:	GPM:
Maximum Water Depth	Feet: 65	Feet:	Feet:
Average Daily Operating Hours	15		
Operation on Sea Ice	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> Yes / <input type="checkbox"/> No

***Operations using equipment with a nozzle intake of 6" or less, 23 HP or less and solely operating in open waters are not required to have an APDES number. ***

Authorization for this Operator Valid from 6 / 1 / 2023 to 12 / 31 / 2026

Mineral Property Owner Signature: Andrew C. Lee Date: April 30, 2023

Mineral Property Owner Printed Name: Andrew C Lee on behalf of Placer Marine Mining

Nome Offshore Operator—Supplemental Information

DEC Alaska Pollutant Discharge Elimination System (APDES) Application

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Gold Bering Sea Mining Company

WASTEWATER DISCHARGE PERMIT APPLICATION

All 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.

Do you want this supplement to act as an application or renewal for the following APDES general permit (GPs):

Small-Size Suction Dredge GP (nozzle diameter of 6" or less): 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: Norton Sound

Approximate coordinates of mine site:

Latitude: 64° 29' N Longitude: 165° 32' W

Source (e.g., DNR - Alaska Mapper): DNR - Alaska Mapper Datum: NAD83

****Please attach a drawing of the operation.****

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 (Operator/Vessel Owner): 

Responsible Party Name (First Last, Position) - Printed: Stephen Lee, CEO

Business Name (if applicable) - Printed: Gold Bering Sea Mining Company

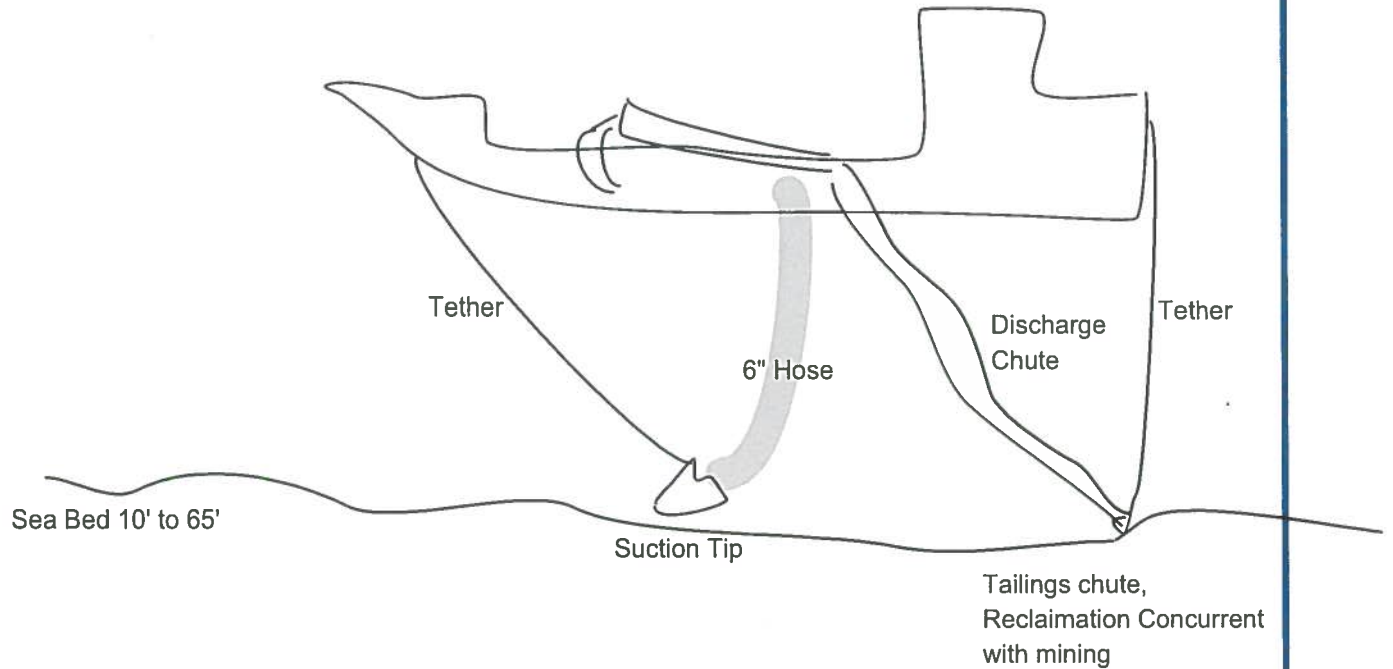
Nome Offshore Operator—Supplemental Information

Operation Sketch

Mineral Property Owner (s): Placer Marine Mining APMA #: 2403

Lease Tract or Mining Claim Number (s): See Attached

Operator Name: Gold Bering Sea Mining Company



2021 ANNUAL RECLAMATION STATEMENT

(33)

- Placer Mining
- Suction Dredging
- Hardrock Exploration

APMA # 2403

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

In accordance with AS 27.19 (Reclamation Act):

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

Volume of material disturbed in 2021: 48,400 cubic yards (Includes strippings and processed material.)

Sluice days last season: 76 Cubic yards of material processed daily: 360-1500 Annually: 48,400

Total acreage disturbed in 2021: State 19, Federal /, Private /. (Includes stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary stream diversions, stream bypasses, and settling ponds.) Federal operators should include area of camp and access roads.

Length / feet and Width / feet of stream diversion.

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

Total Area reclaimed in 2021: 19 acres.

Total un-reclaimed acres: 0 (This should match "total acreage currently disturbed" on the 2022 Reclamation Plan Form.)

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

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

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

Other Reclamation Measures Taken:

[Empty box for other reclamation measures taken]

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

Relationship to Claim(s)

Owner Lessee Operator

Agent For: Placer marine mining

Signed Andrew C. Lee Date 4/15/2022

2022 RECLAMATION PLAN FORM (SUCTION DREDGE EXPLORATION)

<input checked="" type="checkbox"/> A. RECLAMATION PLAN (REQUIRED if the operation will disturb five or more acres this year, OR 50,000 cubic yards, OR if the operation has a cumulative disturbed area of five or more acres).	<input type="checkbox"/> B. RECLAMATION PLAN VOLUNTARY (for an operation below limits shown in Box A but wanting to qualify for the statewide bonding pool. (Operations on BLM Lands and others not filing Letter of Intent).	<input type="checkbox"/> C. LETTER OF INTENT (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: 0 acres. This should match: "Total Unreclaimed Acres" on your 2021 Annual Reclamation Statement for Small Mines, or line #7 on your 2022 Bond Pool Renewal Form. Disturbed ground includes all unreclaimed mining and exploration activity (excluding camps and roads) since October 1991. Federal operators must include areas of camps and roads.

New acres to be disturbed in 2022: 4.9 acres. Total acreage (currently disturbed plus new acres): _____ acres.

Acreage disturbed by land status: 4.9 State (general) _____ State (Mental Health) _____ Private _____ Federal _____

Total acreage to be reclaimed in 2022: 4.9 acres; Total volume of material to be disturbed in 2022: 48,400 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.

*v. email
6-24-22*

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 \geq 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.

<p><u>Andrew C. Lee</u> Printed name (Applicant)</p> <p><u>Andrew C. Lee</u> Signature (Applicant)</p>	Relationship to Mineral Property: <input type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Agent For: <u>Placer marine mining</u>	Date: <u>4/15/2022</u> APMA #: <u>2403</u>
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2022 ANNUAL RECLMATION STATEMENT

(33)

- Placer Mining
- Suction Dredging
- Hardrock Exploration

APMA # 2403

Complete and return this statement by December 31, 2022. 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, Andrew Lee, for Placer Marine Mining hereby file an annual reclamation statement for the 2022 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 2022: 45000 cubic yards (Includes strippings and processed material.)

Sluice days last season: 75 Cubic yards of material processed daily: 600 Annually: 45000

Total acreage disturbed in 2022: State 7, 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 2022: 5 acres.

Total un-reclaimed acres: 0 (This should match "total acreage currently disturbed" on the 2023 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:

Reclamation concurrent with mining, offshore dredging

Did not operate in 2022 and therefore did not conduct reclamation.

Relationship to Claim(s)

Signed Andrew C Lee Date June 5, 2023

Owner Lessee Operator

Agent For: lacer Marine Minin

2023 RECLAMATION PLAN FORM (SUCTION DREDGE EXPLORATION)

<input checked="" type="checkbox"/> A. RECLAMATION PLAN (REQUIRED if the operation will disturb five or more acres this year, OR 50,000 cubic yards, OR if the operation has a cumulative disturbed area of five or more acres).	<input type="checkbox"/> B. RECLAMATION PLAN VOLUNTARY (for an operation below limits shown in Box A but wanting to qualify for the statewide bonding pool. (Operations on BLM Lands and others not filing Letter of Intent).	<input type="checkbox"/> C. LETTER OF INTENT (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: 0 acres. This should match: "Total Unreclaimed Acres" on your 2022 Annual Reclamation Statement for Small Mines, or line #7 on your 2023 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 2023 15 acres. Total acreage (currently disturbed plus new acres): 15 acres.

Acreage disturbed by land status: 15 State (general) 0 State (Mental Health) 0 Private 0 Federal

Total acreage to be reclaimed in 2023 15 acres; Total volume of material to be disturbed in 2023: 100,000 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: Tailings chute will guide material closer to sea bed reducing plume

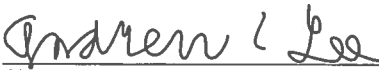
Generally:

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

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

<u>Andrew Lee for Placer Marine Mining</u> Printed name (Applicant)  Signature (Applicant)	Relationship to Mineral Property: <input type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Agent For: <u>Placer Marine Mining</u>	Date: <u>June 5, 2023</u> APMA #: <u>2403</u>
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