



Teck Alaska Incorporated  
Red Dog Operations  
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Anchorage, AK USA 99517 www.teck.com

December 30, 2019

Mr. Richard Lessard  
State of Alaska  
Department of Natural Resources  
Atwood Building, 9<sup>th</sup> floor  
550 W 7th Ave  
Anchorage, Alaska 99501

Mr. Lessard,

Teck Alaska Incorporated (TAK) is submitting this application for a millsite lease on state lands adjoining our Red Dog Mine operations in northwest Alaska.

The millsite lease will allow TAK to expand the footprint of the existing tailings management facility onto state lands. We anticipate using the proposed millsite lease lands for tailings storage and eventually to construct a spillway as part of future mine closure activities.

TAK will submit a Plan of Operations by mid-January 2020 that more fully describes the activities that would likely occur on the millsite lease lands, including reclamation of future surface impacts.

We appreciate ADNR's prompt review of this application. We have also included a check for the \$800 application fee with this application.

If you have any questions please do not hesitate to call me at 907-754-5139 or [chris.eckert@teck.com](mailto:chris.eckert@teck.com)

Sincerely,

Les Yesnik  
General Manager

Cc: Leslie Olmstead, TAI  
Chris Eckert, TAK  
Michael Gonzales, TAK  
Stephen Buckley, ADNR  
Brent Martellaro, ADNR  
Tim Pilon, ADEC  
Charles Cobb, ADNR

Attachments: application, check

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

**MILLSITE PERMIT APPLICATION**

AS 38.05.255

**Receipt Types: 44 – Application Fee**

**Applicants must complete all sections of this application. In addition, applicants proposing:**

- the use of the uplands and non marine waters must also complete the Supplemental Questionnaire for Use of Uplands and Non Marine Waters accompanying this application;
- off-road travel must also complete the Supplemental Questionnaire for Off-Road Travel accompanying this application; and/or
- the use of tide and submerged lands must also complete the Supplemental Questionnaire for Use of Marine Waters accompanying this application.

**Other items that must accompany the completed application are:**

- a **(non-refundable) application fee**; see current Director’s Fee Order for applicable fees;
- a 1:250,000 or 1:63,360 scale USGS map showing the location of the proposed activity;
- additional items identified and required in any supplemental questionnaire(s) to this application; and
- additional pages if more space is necessary to answer the questions completely.

**Completed Millsite Permit Application should be mailed to the following office:**

<b>Department of Natural Resources Division of Mining, Land &amp; Water 550 W. 7<sup>th</sup> Avenue, Suite 900B Anchorage, AK 99501-3577</b>		
<b>LAS #</b> (to be assigned by DNR)		
<b>Applicant Information:</b>		
Applicant Name Teck Alaska Incorporated		
Doing Business As Red Dog Mine	Contact Person Chris Eckert	EIN 91-1170390
Mailing Address with City, State and Zip 3105 Lakeshore Drive, Building A, Suite 101, Anchorage, AK 99517		Email Address
( ) Home Phone	( 907 ) 754-5139 Work Phone	( ) Cell Phone
If you are applying for a corporation, give the following information: Name, address and place of incorporation: <u>Teck Alaska Incorporated, 3105 Lakeshore Drive, Building A, Suite 101</u> <u>Anchorage, Alaska 99517</u>		
Is the corporation qualified to do business in Alaska? Yes <input checked="" type="checkbox"/> No [ ]. If yes, provide name, address and phone number of resident agent: _____ _____ _____		

**Project Location**

Latitude/Longitude or UTM: \_\_\_\_\_ or

Section: \_\_\_\_\_, Township: \_\_\_\_\_, Range: \_\_\_\_\_, Meridian: \_\_\_\_\_  
(The spaces below are to be used if the boundaries of the proposed project cross section lines.)

Section: E 1/2 of 25, Township: 31N, Range: 19W, Meridian: Kateel River

Section: SE 1/4 of 24, Township: 31N, Range: 19W, Meridian: Kateel River  
NE 1/4 of 36 31N 19W Kateel River

Proposed project will require the use of up to 640 acres. (Add additional sheets as necessary)

**Project Description** - Describe in detail your intended use of state land. (State land also includes all tide and submerged lands beneath coastal waters and all shorelands beneath other navigable water bodies of the state.) Discuss development and activities. (Attach additional pages as necessary.)

State land will be used for the expansion of the existing Red Dog Mine Tailings Storage Facility.

The current plans include pumping a tailings slurry into a man-made depression in the bottom of the DD-2 quarry.

Additional tailings may be stored in the proposed lease area after that, in the future.

Future plans include construction of a dam spillway complex prior to mine closure.

Should a portion of the permitted area be closed to the general public? Yes  No . If yes, explain which portion and provide justification for exclusive use:

The Tailings Storage Facility is a permitted waste management facility.

Concerns for public health and safety warrant closing the area to the general public.

**Site Description** - Briefly describe the current condition of the proposed site of use, noting any trash, garbage, debris or signs of possible site contamination (If significant, we recommend you provide pictures to establish initial conditions):

The current site is partially impacted by disturbance related to development of a material site ("DD-2" material site).

Portions of the site are also crossed by existing storm water diversion ditches.

The remainder of the site remains in a natural state.

Are there improvements or materials on the site now? Yes  No  If yes, briefly describe the improvements, their approximate value, and who owns them (We recommend you provide pictures of improvements):

Describe the natural vegetation --- ground cover, trees, shrubs --- and any proposed changes. Describe the location of any estuarine, riparian, or wetlands and any noticeable animal use of area.

Natural vegetation consists of willow and alder bushes, tundra lichen and moss. There are no trees in the area.

There is limited wetlands in the bottom of the streams. Dredge or fill activities to any jurisdictional wetlands will be permitted in a process separate from the millsite lease application.

**Site Access** - Describe how you plan to access the site, and your mode of transportation.

The site is accessible via existing Red Dog Mine roads

If your access is by aircraft, specify the type and size of aircraft:

To access the site, the aircraft is equipped with floats  wheels  skis .

**Environmental Risk / Hazardous Substances** - In the course of your proposed activity will you generate, use, store, transport, dispose of, or otherwise come in contact with toxic and/or hazardous materials, and/or hydrocarbons? Yes  No  . If yes, please describe:

Activities will include storage of Red Dog Mine tailings. These tailings contain elevated concentrations of Zn, Pb, Cd and other metals. The tailings are capable of generating acid rock drainage. However the tailings disposal and storage is already permitted under State of Alaska Integrated Waste Management Permit No.2016DB0002

The types and volumes of fuel or other hazardous substances present or proposed: \_\_\_\_\_

At the time of this application the man-made depression in the proposed lease are can store approximately 72 million gallons of tailings and water. The volume of stored tailings could increase over time.

The specific storage location(s): Generally within the lower relief areas coincident with material site DD-2

The spill plan and prevention methods: All tailings will be confined within the tailings impoundment created by natural topography, and the main and back dams. The dams are operated under the terms of Certificates to Operate Dams issued by ADN/Dam Safety Unit. The entire tailings facility also operates under the terms of the State of Alaska Integrated Waste Management Permit No. 2016DB0002.

**Environmental Risk/Hazardous Substances (continued)** - If you plan to use either above or below ground storage containers (like tanks, drums, or other containers) for hazardous material storage, answer the following questions for each container:

Where will the container be located? n/a

What will be stored in the container? \_\_\_\_\_

What will be the container's size in gallons? \_\_\_\_\_


Give a description of any secondary containment structure, including volume in gallons, the type of lining material, and configuration: \_\_\_\_\_

Will the container be tested for leaks? Yes  No

Will the container be equipped with leak detection devices? Yes  No  . If no, describe: \_\_\_\_\_

Do you have any reason to suspect, or do you know if the site may have been previously contaminated? Yes  No  . If yes, please explain: \_\_\_\_\_

Date Stamp:

  
Signature of Applicant or Authorized Representative

OPERATING SUPERINTENDENT, CONCENTRATOR  
Title

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 – AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

**Land Use Permit Application Supplemental Questionnaire for:  
Off Road Travel**

Answer the following questions if your proposed activity includes off-road travel.

**Terrain Factor.** Circle the following terrain type(s) that best describes your route of travel:

- Wetlands
- Open, non-tundra or wetland areas.
- Rivers or other water bodies.
- Wooded areas with trees of 6" or greater diameter (at breast height).
- Tundra areas.

**Vehicles and Weight.** List the number and kinds of vehicles to be used for motorized travel, the weight of each vehicle and the weight of each trailer or sled (including loaded weight) to be carried by that vehicle:

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**Mileage.**

- State the average total miles traveled in one roundtrip: \_\_\_\_\_
- State the number of trips proposed: \_\_\_\_\_

**Season Factor.** Proposed date(s) of travel will be: **From:** \_\_\_\_\_ **To:** \_\_\_\_\_

**Stream and Water Body Crossings.** - Note who you contacted in the ADF&G, Division of Habitat:

Date: \_\_\_\_\_ Person: \_\_\_\_\_

**Fuel and Hazardous Substance Factor.** 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: \_\_\_\_\_ gallons.

- Hazardous substances other than fuel:

Substance \_\_\_\_\_

Substance \_\_\_\_\_

- 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[ ]

**Land Use Permit Application Supplemental Questionnaire for:  
Use of Uplands and Non Marine Waters**

To be completed to provide more detailed information about projects or activities requiring the use of state-owned uplands and non-marine waters. All site development details identified in this section must be represented graphically in the scaled drawings on Page 4 of the supplement.

**Temporary Structures** – 1) Describe all temporary improvements (including buildings, tent platforms, out-buildings, docks, floats, and floating facilities), including their dimensions and building materials.

n/a

**Distance structures including pit privies will be located from the ordinary highwater mark of the nearest freshwater body (lake, stream, river, etc), or the mean high water mark of a saltwater body: \_\_\_\_\_**

**Harvest of Non-Timber Related Forest Products** – Please list the type and quantity of each non-timber related forest product (berries, ferns, willow, mushrooms, birch bark, etc.) to be harvested for commercial use:

n/a

**Contact the DNR Division of Forestry to obtain authorizations for the harvest of small trees.**

**Motorized Equipment** - List mechanized/motorized equipment to be used, including type, size, purpose, and number of each.

Motorized equipment may include pickup trucks for movement of personnel and equipment,

Pumps rated up to 2,500 gpm used for pumping of water or tailings slurry.

General mining equipment; dozers, excavators, haul trucks for material movement and placement.

**Storage and Parking** - If you plan to store items or park boats, vehicles and/or heavy equipment on the site, describe complete the following:

Describe and give dimensions of long term and short term parking and or storage areas. n/a

Is parking or storage planned to take place on filled tidelands. Yes[ ] No[ ]

Does storage involve structures or materials floating in a waterbody? Yes[ ] No[ ] If yes, describe. \_\_\_\_\_



**Storage and Parking (continued)**

Number of disassembled tent frames \_\_\_\_\_

Number of tent platforms \_\_\_\_\_

List and describe items that are large and difficult to transport. Include dimensions: \_\_\_\_\_

n/a

Will barrel(s) or an equivalent type of storage container be used? Yes[ ] No[ ] If using something other than barrels for storage containers, describe the alternative container.

Describe any measures you plan to take to minimize drips or spills from leaking vehicles or equipment. \_\_\_\_\_

Red Dog Mine operates under a SPCC Plan that addresses sprill prevention, control and countermeasures

Please refer to that plan for details.

**Water / Wastewater**

**Water Supply** – Describe the water supply and proposed use. \_\_\_\_\_ n/a

**Wastewater** – Describe the wastewater type and quantity and proposed method of wastewater disposal: (for the marine environment, also describe the proposed gray and black water systems or out fall pipeline.

**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; indicate distance from the nearest waterbody.

No waste will be generated on site. Tailings will be stored on site. The site will include expanded areas of the mine tailings management facility.

**Animal Use**

Will there be any use of animals (horses, llamas, dogs, etc.)? Yes  No

Will there be commercial use of the animals (horseback rides, packing, dog sled rides, etc.)? Yes  No  If yes, please explain:

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**Dismantle, Removal, Restoration Plan** – Provide a plan for dismantling and removing temporary structures. Include method and timeline for total site restoration:

Restoration of any surface disturbance on the proposed millsite lease will be addressed in an update to the Red Dog Mine Reclamation Plan.

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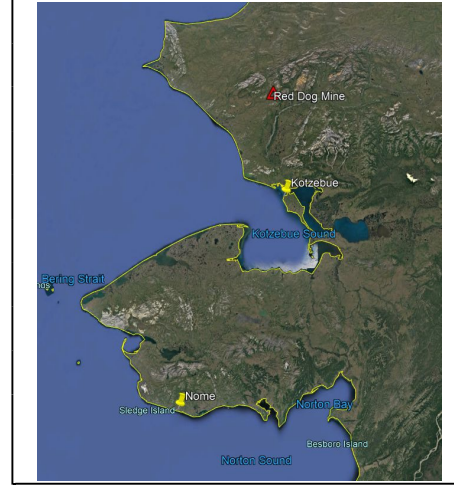
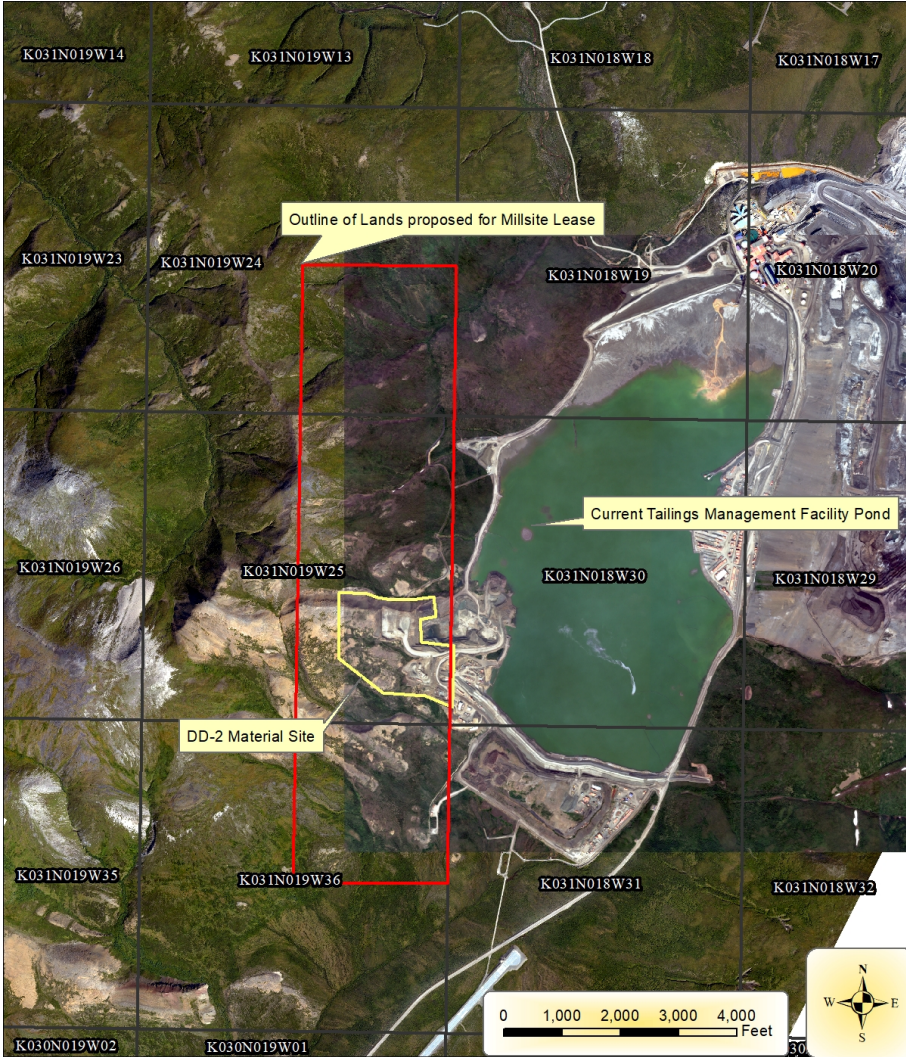
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# Site Development Diagram



**VICINITY MAP**

Date Prepared:	Applicant's Name:
December , 2019	Teck Alaska Incorporated
<b>ALASKA DEPARTMENT OF NATURAL RESOURCES DIV. OF MINING, LAND , WATER MILLSITE PERMIT</b>	
<b>SITE DEVELOPMENT DIAGRAM</b>	
Sec.(s) <u>24, 25</u> T. <u>31N</u> , R. <u>19W</u> , <u>Kateel RM</u>	
SHEET <u>1</u> OF <u>1</u>	

LAS #

**Millsite Permit Application Supplemental Questionnaire for:  
Use of Marine Waters (Tide & Submerged Lands)**

**Tidelands** are that portion of the intertidal zone below the elevation of mean high water. This elevation varies by location. Contact the nearest DNR regional office for assistance. **Submerged lands** are those below the lowest tidal elevation. The State of Alaska, with few exceptions, owns these lands out to 3 miles off shore. – If your activity includes the use of State tide and or submerged lands and the waters above them, answer the questions below and those applicable sections determined below. All site development details identified in this section must be represented graphically in the scaled drawings on Page 9 of the supplement.

Does the applicant own the directly adjacent, upland water front property? Yes  No  If no, give name(s) and current address / phone # of that property owner.

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Give names and current addresses / phone #s for both upland property owners on either side of the above water front property. \_\_\_\_\_

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**Note:** You must obtain the upland owner's written permission for any use of uplands you do not own including for waste disposal, access to roads, waterlines, power lines, or shore ties above MHW, and you must provide a copy to DNR before a permit is issued. If not the immediately adjacent upland property owner, does the applicant have legal access across the uplands? Yes  No  Please explain.

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Will your tideland use also involve any use of adjacent State owned uplands? Yes  No  (If yes, indicate uses and show on your development plan diagram.)  Shore tie  Waterline  Power line  Access to roads  Other Explain:

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**Type of Use, Activity, Development (Answer All )**

Will you be developing / using a Mooring Buoy system or anchoring a commercial or industrial use vessel for more than 14 days? Yes  No  ( If yes, please also answer all questions in **Part 1 on pg. 2 and Part 6 on pg. 8.**)

Will you be anchoring or mooring a commercial or industrial related floating facility that is or can be occupied, i.e. a float camp or floating lodge, a float house you rent, a seafood processor? Yes  No  (If yes, please answer all questions in **Part 2, pgs. 2, 3 and Part 6 on pg. 8.**)

Will you be anchoring or mooring your own personal use Float house? Yes  No  (If yes, please also answer all questions in **Part 2, pgs. 2, 3 and Part 6 on pg. 8.**)

Will you be placing non-occupied structures including but not limited to Piling, Dolphins, Fixed docks, Floating docks, or other floating structures? Yes  No  (If yes, please also answer all questions in **Part 3, pg. 3 and Part 6 on pg. 8.**)

**Type of Use, Activity, Development (continued)**

Are you seeking authorization to use or develop a Log Transfer Facility, a floating Log Storage area, or a Log Ship Loading site? **Yes** [ ] **No** [ ] (If yes, please also answer all questions in **Part 4, pgs. 4, 5, 6 and Part 6 on pg. 8.**)

Will you be placing fill or dredging material on a beach? **Yes** [ ] **No** [ ] (If yes, please also answer all questions in **Part 5, pgs. 6, 7 and Part 6 on pg. 8.**)

**Part 1. Anchoring vessels and mooring buoy systems**

Does the proposed use location include a known anchorage? **Yes** [ ] **No** [ ] If yes, have alternative locations been considered to reduce impact to the anchorage? **Yes** [ ] List below. **No** [ ] If no, explain why.

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What type of vessel will use the site? [ ] Commercial Fish Tender/ Processor [ ] Log Ship [ ] General Cargo Ship [ ] Unoccupied Barge [ ] Fuel Barge [ ] Passenger Vessel [ ] Other: \_\_\_\_\_

Does the anchoring vessel require the ability to be able to occupy this site all year long? **Yes** [ ] **No** [ ] If No, what months will the site be needed? **From** \_\_\_\_\_ **to** \_\_\_\_\_

What is the maximum swing radius of vessel at anchor? Length \_\_\_\_\_ feet (distance from anchor to the aft of the vessel)

Will the vessel require the placement of a mooring buoy system? **Yes** [ ] **No** [ ] **Number of buoys:** \_\_\_\_\_  
**If placing buoys, fill out applicable parts of Part 3 to explain the anchoring system.**

**Part 2. Floathouses and Commercial, Industrial Floating Lodges, Float camps, Caretaker Residences** (including seafood processors). An associated part of approving this type of use is The US Army Corps of Engineers (USACE) permit. Their general permit, GP 89-4N, for occupied floating facilities can be obtained you meet all conditions of GP 89-4N. Please obtain a copy of GP 89-4N from the Corps, review the conditions and indicate below if your facility will meet all of these conditions. This will help streamline the approval process.

Does your project meet all conditions for general permit GP 89-4N? **Yes** [ ] **No** [ ]

If no, you must Contact USACE at 1-800-478-2712 and apply for an individual Corps of Engineers permit.

**Description of Facility** Note: The structures and dimensions must be shown on the development plan diagram

Float Dimensions: float \_\_\_\_\_ x \_\_\_\_\_ float \_\_\_\_\_ x \_\_\_\_\_ float \_\_\_\_\_ x \_\_\_\_\_ Total float area \_\_\_\_\_ sq ft

Living quarters total area: \_\_\_\_\_ sq ft. Number of stories: \_\_\_\_\_ Maximum occupancy \_\_\_\_\_ persons

Describe other structures on floats, such as storage and generator sheds; give structure dimensions.

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Describe anchoring system and address all that apply: No. of anchors \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_  
No. of Rock bolts \_\_\_\_\_ No. of Shore ties \_\_\_\_\_

Other methods \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part 2. (continued)**

Grounding is prohibited. What is the water depth beneath the facility at extreme low tide \_\_\_\_\_

How many feet of maximum draft does the floating facility have \_\_\_\_\_

Describe your potable Water Source: type, location, ownership of the source \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Wastewater System. Describe how you will handle human waste, black water, grey water \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do you have an approved ADEC marine sanitation system Yes[ ] No[ ] Approval # \_\_\_\_\_

Describe how you will dispose of all solid waste including human waste and household garbage generated on facility \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part 3. Non occupied structures - Piling, Dolphins, fixed docks, floating docks, or other floating structures.**

Select all boxes that apply for structures located below MHW and show all on the development plan diagram

- Fixed pile-supported dock, wharf or landing (non-floating) - dimensions \_\_\_\_\_ x \_\_\_\_\_ feet No. of pilings \_\_\_\_\_
- Ramp to floating dock - dimensions \_\_\_\_\_ x \_\_\_\_\_ feet
- Boat haulout or non-floating ramp - dimensions \_\_\_\_\_ x \_\_\_\_\_ feet
- Floating dock Dimensions \_\_\_\_\_ x \_\_\_\_\_ feet; \_\_\_\_\_ x \_\_\_\_\_ feet; \_\_\_\_\_ x \_\_\_\_\_ feet; \_\_\_\_\_ x \_\_\_\_\_ feet;
- Floating breakwater - materials \_\_\_\_\_ Dimensions \_\_\_\_\_ x \_\_\_\_\_ feet
- Other floating structures (e.g., net pens, gear storage float) - describe materials, structures, dimensions \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- Storage sheds or similar structures on docks - description \_\_\_\_\_ Dimensions \_\_\_\_\_ x \_\_\_\_\_
- Bulkhead - type (log crib, sheet pile, etc) \_\_\_\_\_ Dimensions \_\_\_\_\_ x \_\_\_\_\_ Cubic Yards of Fill \_\_\_\_\_
- Individual pilings not counted under fixed dock above. Number \_\_\_\_\_
- Dolphins - Number \_\_\_\_\_ Number of piling per dolphin \_\_\_\_\_
- Anchors- Number \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_
- Rock bolts- Number \_\_\_\_\_
- Shore ties- Number \_\_\_\_\_ Note: You must obtain the upland owner's permission to place shore ties above MHW before a permit is issued.

Note: Grounding is prohibited.  
What is the water depth beneath the floating structures at extreme low tide? \_\_\_\_\_ feet

**Part 4. Temporary log transfer facility (LTF) including floating log storage area.**

Siting of an LTF which discharges wood into the marine waters must meet the 1985 Alaska Timber Task Force siting criteria guidelines and the criteria established under the US EPA's - NPDES general permit and the AK Dept of Environmental Conservation 401 certification.

What is the maximum length of time that you will need to use the facility \_\_\_\_\_ years.

What will be your seasonal periods of operation? \_\_\_\_\_

What is the total timber volume you need to transfer across this LTF? \_\_\_\_\_ mmbf.

How many total acres do you need for this facility? \_\_\_\_\_ acres.

**Note:** This acreage must include all improvements including the anchors and lines. It must include the area required for such items as log raft construction, off shore storage, associated barge and vessel moorage, and shoreties.

Does the associated transfer site require a log raft building area? **Yes** [ ] **No** [ ] If yes then:

How many boom logs \_\_\_\_\_ and anchors \_\_\_\_\_ and what is the total length of boom logs \_\_\_\_\_ feet, that you need for the rafting area?

Will the log rafts ground or be moored in water at depths less than 40 feet as measured from MLLW? **Yes** [ ] **No** [ ]

What is the near shore depth \_\_\_\_\_ feet, and the offshore depth \_\_\_\_\_ feet, of the log rafting area as measured from MLLW (0.0' elevation)?

What nautical chart did you use for reference \_\_\_\_\_, please include a copy of this area of the chart with the attachments.

Will you need an associated in-water log storage area? **Yes** [ ] **No** [ ] If yes, then answer the set of questions in the **Floating Log Storage Area section of Part 4.**

Will you need an associated log ship moorage and loading area? **Yes** [ ] **No** [ ] If yes then complete Part 1 on page 2.

What kind of transfer facility do you propose to operate? (i.e. A-Frame letdown, slide ramp, drive down ramp, barge ramp)

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**Will you be transferring logs into the marine waters?**

**No, logs will never be discharged into the water, they will always be transported directly onto barges.**

**Yes - new facility.** The applicant must conduct a dive survey of the near shore area to document the pre-project underwater topography and habitat conditions that will be covered by the discharge of bark on to the likely one-acre zone of deposit. The initial dive survey must be done to guidelines established for bark monitoring by the USEPA and the Alaska Department of Environmental Conservation. A written report of findings including photographic documentation must be submitted prior to review and consideration of this application.

**Yes - existing facility.** Include a report of the last dive survey with attachments. The applicant / operator is responsible to conduct bark monitoring dive surveys, done to the guidelines established by the US EPA and the Alaska Department of Environmental Conservation to document the current extent of bark accumulation at the site. A written report of current monitoring findings must be submitted prior to review and consideration of this application.

**Is this an existing LTF that has been fully approved and used to transport timber in the past? **Yes** [ ] **No** [ ]**

If Yes, then answer the following set of questions. If No, you are finished with **Part 4.**

**Part 4. (continued)**

Was the facility constructed before 1985? Yes  No

Is the facility currently authorized? Yes  No  If Yes, provide the Army Corp of Engineer's Permit Name and number (i.e. Mud bay 43) : \_\_\_\_\_ and attach a copy of it and all modifications.

What is the EPA - NPDES authorization number? \_\_\_\_\_ Date of approval \_\_\_\_\_ and who is the authorized operator: \_\_\_\_\_

When was the facility last actively used? \_\_\_\_\_ How long was it used for? \_\_\_\_\_  
How much volume was transferred? \_\_\_\_\_ mmbf

What type of log entry system is currently authorized? (i.e. A-Frame letdown, slide ramp, drive down ramp, barge ramp)

\_\_\_\_\_  
\_\_\_\_\_

Is there a tideland survey for the site?  Yes  No, ATS# \_\_\_\_\_

Does the existing facility require a physical modification? Yes  No  If yes, please submit your modification request to the USACE and include a copy with this application. Please briefly explain the modification.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Floating Log Storage Area**

Will the storage area be inside the permit area at the log transfer facility? Yes  No  If no, Will there be a separate tract or tracts? Yes  No  If yes how many tracts do you need? \_\_\_\_\_ and list below the acreage of each tract.

\_\_\_\_\_  
\_\_\_\_\_

How long do you need to use the storage area (s)? \_\_\_\_\_

How much volume will be moved thru this storage area? \_\_\_\_\_ mmbf.

How many log booms and anchors and what is the total length of the log boom perimeter that will be needed for storage?  
# of log booms \_\_\_\_\_, #of anchors \_\_\_\_\_ total length of all log booms \_\_\_\_\_ feet.

Will you be using shore ties? Yes  No  If yes how many? \_\_\_\_\_ and if you are not the upland owner have you received permission to place shore ties? Yes  No  If yes, provide a copy of this permission, if no, you need to obtain and provide this.

Will the log rafts ground or be moored in water at depths less than 40 feet as measured from MLLW? Yes  No

What is the near shore depth and the offshore depth of the log storage area as measured from MLLW?  
Near shore depth \_\_\_\_\_ feet, Offshore depth \_\_\_\_\_ feet.

What nautical chart did you use for reference \_\_\_\_\_ . If possible please include a copy with the attachments.



**Part 4. (continued)**

If the log storage area is one which has been fully approved and used to store log rafts in the past then answer the following:

When was the site last actively used? \_\_\_\_\_ and for how long ? \_\_\_\_\_

If known, how much volume was stored here? \_\_\_\_\_ mmbf

Is the facility currently authorized? Yes[ ] No[ ] If yes, provide the Army Corp of Engineer's Permit Name and number (i.e. Mud bay 43) : \_\_\_\_\_ and attach a copy of the permit and all modifications

What is the DNR authorization number? \_\_\_\_\_

What is the EPA - NPDES authorization number? \_\_\_\_\_ Date of approval \_\_\_\_\_ and who is the authorized operator: \_\_\_\_\_

Has there been a recent dive survey completed? Yes[ ] No[ ] If yes, then include a copy of this report with the attachments.

Note: The applicant may have to conduct a dive survey of the log storage area to document the underwater topography and habitat that would be covered by the bark zone of deposit or to establish current bark accumulation levels. If required due to level of use, a bark monitoring dive survey must be done to guidelines established by the USEPA and the Alaska Department of Environmental Conservation to document the current conditions at the site

**Part 5. Use that involves dredging, placing fill material or altering beaches.**

NOTE: When altering the location of the line of mean high water on a beach by placing fill on or seaward of this line you need to be aware of the following. The line of mean high water (MHW) is the boundary where State (public) ownership of tide and submerged land begins. This boundary is an elevation contour on the beach and is determined by the tidal stage of MHW water elevation against the beach topography. This line is not fixed by a past survey of the upland property if that land survey shows a meandered boundary as is typically done. A meandered boundary is intended to be dynamic and move over time as natural forces affect the beach. Natural forces can either erode beach material or deposit material and as a result, the boundary can naturally move. Another natural way that boundaries can change is in tidal areas where glaciers have recently receded and the land is rebounding or uplifting over time. When any natural process is interrupted by the actions of man, such as placing material to stop erosion, the boundary line becomes fixed from that point on.

What is the elevation of the line of MHW at the proposed permit site? \_\_\_\_\_ feet

Are you proposing to alter the line of MHW in any manner? Yes[ ] No[ ] If yes, explain what you intend to do?

**Placing fill material on a beach.**

What is the purpose of the fill? \_\_\_\_\_

Is there an upland survey that has established a meandered boundary line? Yes[ ] No[ ] If yes, Survey # \_\_\_\_\_  
(if a subdivision survey please provide a legible copy) (ATS, ASLS, US Survey#)

**Part 5.** (continued)

Will heavy equipment be used below the mean high water line to alter the beach? Yes[ ] No[ ] If yes, explain

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How many cubic yards of fill are you proposing to place at and below the line of MHW? \_\_\_\_\_ cubic yards

What are the dimensions of fill area below MHW elevation? \_\_\_\_\_

How many linear feet along the (beach) line of MHW will be covered with fill? \_\_\_\_\_ feet.

Is there more than one area along the beach which will be filled? Yes[ ] No[ ] Identify the location of each area on the development plan diagram.

Will any of the fill material come from State owned uplands or tide and submerged lands? Yes[ ] No[ ] If yes, then what is the source? \_\_\_\_\_ and how many cubic yards? \_\_\_\_\_.

If you are intending to limit beach fill to the area above the current line of MHW will any of the fill or associated retaining wall material including the toe of the fill or retaining wall extend beyond the line of MHW? Yes[ ] No[ ]

Is the adjacent upland property encumbered with a public easement along the waterfront boundary? Yes[ ] No[ ]

How will the fill affect public access along the beach? \_\_\_\_\_

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**Excavation of materials from a beach.**

What is the purpose of the excavation? \_\_\_\_\_

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How many linear feet along the beach will be affected? \_\_\_\_\_ feet

To what depth will you be excavating? \_\_\_\_\_ feet

How many cubic yards will be excavated from the area seaward of the line of MHW? \_\_\_\_\_ cubic yards and what will this excavated material be used for or where will it be disposed of ?

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**Part 6. Dismantle, Removal, Restoration Plan** – The permit will require that upon expiration, completion, or termination the site shall be vacated and all improvements and personal property removed. The site shall be left in a clean, safe condition acceptable to the Regional Manager. Your answers to the following questions will establish your proposed restoration plan.

A. Explain how you plan to dismantle and remove the improvements and restore the site to a clean, safe condition acceptable to the Regional Manager. **Note:** One acceptable alternative is returning the permit site to the condition that existed before the site was developed or used.

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B. If your project involves fill describe how it will be removed and where will it be removed to. How will you document that the original line of Mean High Water has been restored? (i.e. photo documentation, resurvey)

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C. If your project involves anchors and/or pilings how do you plan on removing them? Where is the nearest community that provides this type of removal equipment / service?

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D. Describe the disposal method and identify the disposal site or sites for structural components, solid wastes, and hazardous wastes.

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E. If components can be reused for other projects, such as anchors, identify where they would be stored? \_\_\_\_\_

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**SITE DEVELOPMENT DIAGRAM**

<p>n/a - for tidelands</p>	<p>VICINITY MAP</p>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">Date Prepared:</td> <td style="padding: 2px;">Applicant's Name:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;"> <b>ALASKA DEPARTEMENT OF NATURAL RESOURCES                  DIV. OF MINING, LAND , WATER                  MILLSITE PERMIT</b> </td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;"> <b>SITE DEVELOPMENT DIAGRAM</b> </td> </tr> <tr> <td colspan="2" style="padding: 2px;">                 Sec.(s) _____ T. _____ S., R. _____ E., _____ M             </td> </tr> <tr> <td style="width: 30%; padding: 2px;">SHEET OF</td> <td style="padding: 2px;">LAS #</td> </tr> </table>		Date Prepared:	Applicant's Name:	<b>ALASKA DEPARTEMENT OF NATURAL RESOURCES                  DIV. OF MINING, LAND , WATER                  MILLSITE PERMIT</b>		<b>SITE DEVELOPMENT DIAGRAM</b>		Sec.(s) _____ T. _____ S., R. _____ E., _____ M		SHEET OF	LAS #
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