STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land and Water

LAND USE PERMIT APPLICATION
AS 38.05.850

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

- the use of the uplands must also complete the Supplemental Questionnaire for Use of State-Owned Uplands accompanying this application;
- off-road travel must also complete the Supplemental Questionnaire for Off-Road Travel accompanying this application; and/or
- the use of shorelands, tidelands, and submerged lands must also complete the Supplemental Questionnaire for Use of State-Owned Waters accompanying this application.

Other items that must accompany the completed application are:

- a (non-refundable) application fee; see current Director's Fee Order or contact your regional office for applicable fees;
- a topographic map or aerial photo 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 Land Use Permit Applications should be submitted electronically or mailed to one of the following offices:

Northern Region Land Office
3700 Airport Way
Fairbanks, AK 99709-4699
(907) 451-2740
nro.lands@alaska.gov

Southcentral Region Land Office
550 West 7th Ave, Suite 900C
Anchorage, AK 99501-3577
(907) 269-8503
dnr.scro.permitting@alaska.gov

Southeast Region Land Office
P. O. Box 111020
Juneau, AK 99811-1020
(907) 465-3400
sero@alaska.gov

Statewide TTY – 771 for Alaska Relay or 1-800-770-8973

LAS # _____
(Applicant please provide if known)

Applicant Information:

Name: Jason Davis, Owner
Doing Business As: Turnagain Marine Construction
Mailing Address: 5050 Cordova Street, Suite 200
Anchorage, AK 99503
Email Address: [redacted]

Date of Birth: [redacted]
Business License #: 1007444
EIN: [redacted]
Contact Person: Jason Davis
Home Phone:
Work Phone: 907.261.8960
Cell Phone:
Fax:

If you are applying for a corporation, give the following information:

Name, address and place of incorporation:
Alaska

Is the corporation qualified to do business in Alaska? Yes ☒ No ☐

If yes, provide name, address and phone number of the resident agent:
Jason Davis
5050 Cordova Street, Suite 200,
Anchorage, AK 99503

907.261.8960

Type of User (Select One): ☐ Private non-commercial (personal use) ☐ Commercial Recreation or Tourism

☐ Public Non-profit including Federal, State, Municipal Government Agency ☒ Other commercial or industrial

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Duration of Project: The proposed activity will require the use of state land for: **(Check one)**

☒ A single term of less than one year. **Beginning month:** June 2025 **Ending month:** October 2025

☐ A multi year term for up to 5 years. **Beginning year:** _____ **Ending year:** _____

If multi year and seasonal, mark months of use in each year.

☐ Jan, ☐ Feb, ☐ Mar, ☐ Apr, ☐ May, ☐ Jun, ☐ Jul, ☐ Aug, ☐ Sept, ☐ Oct, ☐ Nov, ☐ Dec

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Project Location:

Latitude/Longitude or UTM: 58.290'N, 134.678' W or

Section: 29,30,32 **Township:** 041S **Range:** 66E **Meridian:** Copper River

Section: _____ **Township:** _____ **Range:** _____ **Meridian:** _____

Proposed project will require the use of up to 7.48 acres.

(Please add additional sheets for this section 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 waterbodies of the state.) Discuss development and activities. (Attach additional pages as necessary.)

Turnagain Marine Construction (TMC) is planning a marine project on the western shore of Douglas Island in Stephens Passage. As part of the design effort for the project, TMC needs to complete an offshore geotechnical study to gather information.

The proposed offshore geotechnical study would occur at approximately 28 boreholes at the site. Of these, 25 boreholes would below mean high water (MHW) line and 3 would be on Goldbelt, Inc.-owned land above MHW. Six (6) would be on the shoreline between MHW line and mean lower low water line. It is estimated that the proposed drilling will occur over a 30-day period between June and October 2025. The actual start date is dependent on contractor availability, obtaining the necessary permit authorizations, and environmental factors such as weather.

Please see the attached Study Description for more details.

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.
N/A

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 consists of large rounded cobbles/bedrock outcroppings. There are several tidepools that form in the mid and low intertidal zones. Sections of the beach are dominated by mussel and barnacle growth, while others have minimal marine growth due to the wave energy on the shore. Limited debris from tidal deposition is present along the HTL, typical of rocky shorelines in Southeast Alaska, and no signs of contamination are present at the site.

See attached Study Description for photos.

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.)
N/A

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.

The location is within the intertidal area between high tide line and mean lower low water. The boreholes would be minimal and therefore no changes are proposed.

See photos and shore description in attached Study Description.

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

The site will be accessed by tug-assisted barge.

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

N/A

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

Number of people:

1. Indicate the number of employees and supervisors who will be working on the site. approx. 10
2. Indicate the number of customers who will be using the site per year or season. _____
3. Indicate the number of days the site will be used per year or season. approx. 30

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:
The barge and tug and drill rig and pump will also contain fuel and fluids.

For a photo of the the barge and drill rig, please see the attached Study Description.

The types and volumes of fuel or other hazardous substances present or proposed:
The drill crew would have less than 100 gallons of diesel stored for equipment, less than 100 gallons of hydraulic oil, less than 10 gallons of 90 weight gear oil, less than 50 gallons of antifreeze, less than 25 gallons of motor oil, and less than 25 gallons of gasoline if needed.

The barge and tug will have fuel and fluids that will be contained inside tanks and hose on the vessels.

The specific storage location(s):
Extra fuel/fluids for the drill rig and pump may be stored in appropriate sized containers onboard the barge.

The spill plan and prevention methods:
Spill kits and containment systems are maintained onboard the tug and barge.

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?
On the barge.

What will be stored in the container?
diesel (up to 100 gallons)
hydraulic oil (less than 100 gallons)
gear oil (less than 10 gallons)
antifreeze (less than 50 gallons)
motor oil (less than 25 gallons)
gasoline (25 gallons)

What will be the container's size in gallons? See above

LAS #: _____

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

Will the container be tested for leaks? **Yes** ☒ **No** ☐ .

Will the container be equipped with leak detection devices? **Yes** ☒ **No** ☐ . **If no**, describe:
N/A

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:
N/A

_____	President	03/24/2025
Signature of Applicant or Authorized Representative	Title	Date

This form must be filled out completely and submitted with the applicable fees. Failure to do so will result in a delay in processing your permit. 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 certifies that he or she has not changed the original text of the form or any attached documents provided by the Division. 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.

For Department Use Only
Application received date stamp

Receipt Type: ☐ **7A** ☐ **RR** ☐ **FF**

LAS #: _____

LAND USE PERMIT APPLICATION SUPPLEMENTAL QUESTIONNAIRE FOR:
Use of State-Owned Waters (Shorelands, Tidelands & Submerged Lands)

Shorelands are those below ordinary high water mark of non-tidally influenced navigable waterbodies. **Tidelands** are that portion of the intertidal zone below the elevation of mean high water. This elevation varies by location. Contact the nearest Department of Natural Resources (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 three miles offshore. If your activity includes the use of State shorelands, tidelands, or submerged lands and the waters above them, answer the questions within applicable sections 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 waterfront property? **Yes** ☐ **No** ☒

If no, give name(s) and current address/phone number of the property owner.
Goldbelt. Inc. is the owner of the upland property.

Give names and current addresses and/phone numbers for both upland property owners on either side of the above waterfront property.
Goldbelt, Inc: 3205 Clinton Drive, Juneau, AK 99801

Note: You must obtain the upland owner's written permission for any use of uplands you do not own including for waste disposal, access 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.
TMC is performing the study in cooperation with the upland property owner, Goldbelt, Inc.

Will your tideland use 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.
N/A

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

Will you be developing / using a Mooring Buoy 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 page 2 and Part 6 on pages 10, 11**.)

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 also answer all questions in **Part 2, on page 3 and Part 6 on pages 10, 11**.)

Will you be anchoring or mooring your own personal use Float house?

Yes ☐ **No** ■ (If yes, please also answer all questions in **Part 2, on pages 3 and Part 6 on pages 10, 11**.)

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, on page 4 and Part 6 on pages 10, 11**.)

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, pages 5, 6, 7 and Part 6 on pages 10, 11**.)

Will you be placing fill or dredging material on a beach?

Yes ■ **No** ☐ (If yes, please also answer all questions in **Part 5, pages 8, 9 and Part 6 on pages 10, 11**.)

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** ☐ **No** ☒ If no, explain why.
N/A

What type of vessel will use the site? ☐ Commercial Fish Tender / Processor ☐ Log Ship ☐ General Cargo Ship ☐ Unoccupied Barge ☐ Fuel Barge ☐ Passenger Vessel ☒ Other: Ramp Barge with a drill rig mounted on a truck

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 used? **From** June 2025 **to** October 2025

What is the maximum swing radius of vessel at anchor? Length: 0 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)

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

Float Dimensions: float 185 x 50 float _____ x _____ float _____ x _____ Total float area 7,400 sq ft

Living quarters total area: 0 sq ft. Number of stories: 1. Maximum occupancy: _____ persons

Describe other structures on floats, such as storage and generator sheds; give structure dimensions.
There will be a storage connex that is 20 feet by 8 feet.

Describe anchoring system and address all that apply: No. of anchors 4 Type Navy Anchors Weight 4,500

No. of Rock bolts: 0 No. of Shore ties: 0

Other methods:
N/A

Grounding is prohibited. What is the water depth beneath the facility at extreme low tide? Location dependant 10-50ft

How many feet of maximum draft does the floating facility have? 4 feet

Describe your potable Water Source: type, location, ownership of the source:
No potable water on barge.

Wastewater System. Describe how you will handle human waste, black water, grey water:
There will be a porta potty on board and waste will be disposed of at the appropriate location once the barge returns to Juneau.

Do you have an approved Alaska Department of Environmental Conservation marine sanitation system? **Yes** ☐ **No** ☒

Approval # _____

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

The porta porty will be emptied at the appropriate facility once the barge is back in Juneau. Garbage will be contained and secured and disposed of in the landfill once back in Juneau.

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 ordinary high water (OHW) or mean high water (MHW) is the boundary where State (public) ownership of shorelands, tidelands and submerged land begins. For OHW, the boundary is the highest water level which has been maintained for a sufficient period of time to leave evidence upon the landscape, commonly that point where the natural vegetation changes from predominantly aquatic to predominantly terrestrial. For MHW, this boundary is an elevation contour on the beach and is determined by the tidal stage of MHW water elevation against the beach topography. These lines are 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; natural forces can either erode 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 typically becomes fixed from that point on. When altering the boundary line through fill below MHW or (OHW), the upland owner will not gain ownership of the newly filled areas; these areas remain in State (public) ownership.

What is the elevation of the line of MHW at the proposed permit site? 15.3 feet

Are you proposing to alter the line of MHW in any manner? **Yes** ☒ **No** ☐ If Yes, explain what you intent to do.
There will be 25 boreholes below the mean high-water line, and six (6) will be between mean high-water line and mean low-low water line. After drilling, there would be a hole that would be filled in by the tidal movement of sediment over time. Each borehole would produce approximately 1 cubic yard of cuttings, which would be considered a minor amount of fill.
Please see the attached Study Description for more information.

Placing fill material on a beach.

What is the purpose of the fill?
The minimal amounts of fill would be released from the drill cuttings as a product of drilling the geotechnical boreholes. The offshore geotechnical information gathered from the marine environment will support design of a new cruise ship facility. Geotechnical data is needed to support the design of permanent structures that use the most compact design, the smallest pile size, the least number of piles, and minimizes pile installation time.

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 #)

Will heavy equipment be used below the mean high-water line to alter the beach? **Yes** ☒ **No** ☐ If Yes, explain:
As stated above, a drill rig on a barge would be used to drill the boreholes.

How many cubic yards of fill are you proposing to place at and below the line of MHW? Approximately 25 cubic yards

What are the dimensions of fill area below MHW elevation? Approximately 630 square feet

How many linear feet along the (beach) line of MHW will be covered with fill? N/A 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.

Part 5. (continued)

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?

The cuttings produced while drilling the boreholes and how many cubic yards? 25

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?

It should not affect public access.

Excavation of materials from a beach.

What is the purpose of the excavation?

The offshore geotechnical information gathered from the marine environment will support design of a new cruise ship facility.

How many linear feet along the beach will be affected? n/a feet

To what depth will you be excavating? 100-150 feet

How many cubic yards will be excavated from the area seaward of the line of MHW? 25 cubic yards and what will this excavated material be used for or where will it be disposed?

The minor amount of seawater and finely-ground rock cuttings would be returned to the top of the drill string through the outer casing and output into the marine environment. Each boring location would produce less than one cubic yard of drill cuttings.

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.

The barge will pull the anchors and leave the site.

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? (e.g. photo documentation, resurvey)

It will not be removed. The amount of fill produced by geotech drilling will be negligible, and after a few tidal cycles, the sediment should back fill the holes naturally.

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?

The anchors will be lifted onto the barge, and the barge will return to Juneau. No special removal equipment would be needed.

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

No structural components will be created by the geotech effort. Solid waste, mainly household garbage, will be disposed at a dumpster or landfill once the barge is back in Juneau. Hazardous waste should not be accumulated, but would be disposed of at an approved location once back in Juneau.

Part 6. (continued)

E. If components can be reused for other projects, such as anchors, identify where they would be stored?
All resulable items, such as anchors, will be stored on the barge.

This form must be filled out completely and submitted with the applicable fees. Failure to do so will result in a delay in processing your permit. 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 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 40.25.310, 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 certifies that he or she has not changed the original text of the form or any attached documents provided by the Division. 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.

Attachment 2: Study Description

Douglas Island Cruise Ship Terminal Project
Offshore Geotechnical Study Land Use Permit Application
Study Description
March 2025

1 BACKGROUND

Turnagain Marine Construction (TMC) is proposing a project to construct two separate cruise ship docks and associated facilities on the western shore of Douglas Island in Stephens Passage, approximately 15 kilometers (km) northwest of downtown Juneau, Alaska. The proposed cruise ship dock would provide safe harbor for two cruise ships and passengers during the visitor season, while helping to decrease cruise ship visitor traffic in downtown Juneau. As part of the design effort for this project, TMC is proposing an offshore geotechnical study to gather information needed for design of the facility. This application is for work associated with the offshore geotechnical investigation only.

2 STUDY DESCRIPTION

Location

The proposed Douglas Island Cruise Ship Terminal Project's offshore geotechnical study would occur offshore where the docks would be located within Township 041S, Range 66E, Sections 29 and 30, Meridian Copper River; U.S. Geological Survey Quadrangle Juneau A-2; latitude 58.290° and longitude -134.678° (Figure 1).

Terrain/Ground Cover

According to the NMFS Alaska ShoreZone, the project's shoreline is defined as a semi-protected/partially mobile/sediment or rock and sediment habitat class with mostly mixed sand and gravel beaches, some gravel breaches, and a small section of sheltered tide flats environmental sensitivity index [1] (Figure *2* and Figure 3).

Purpose and Need

The purpose of this effort is to gather offshore geotechnical information from the marine environment to support design of the new cruise ship docks and facilities for a small boat harbor and boat launch. Geotechnical data is needed to support the design of permanent structures that use the most compact design, the smallest pile size, the least number of piles, and minimizes pile installation time.

[1] NMFS. 2025. Alaska ShoreZone Mapping Website. Accessed at: https://alaskafisheries.noaa.gov/mapping/sz/ on March 10, 2025

Figure 1. Location of Proposed Douglas Island Offshore Geotechnical Study

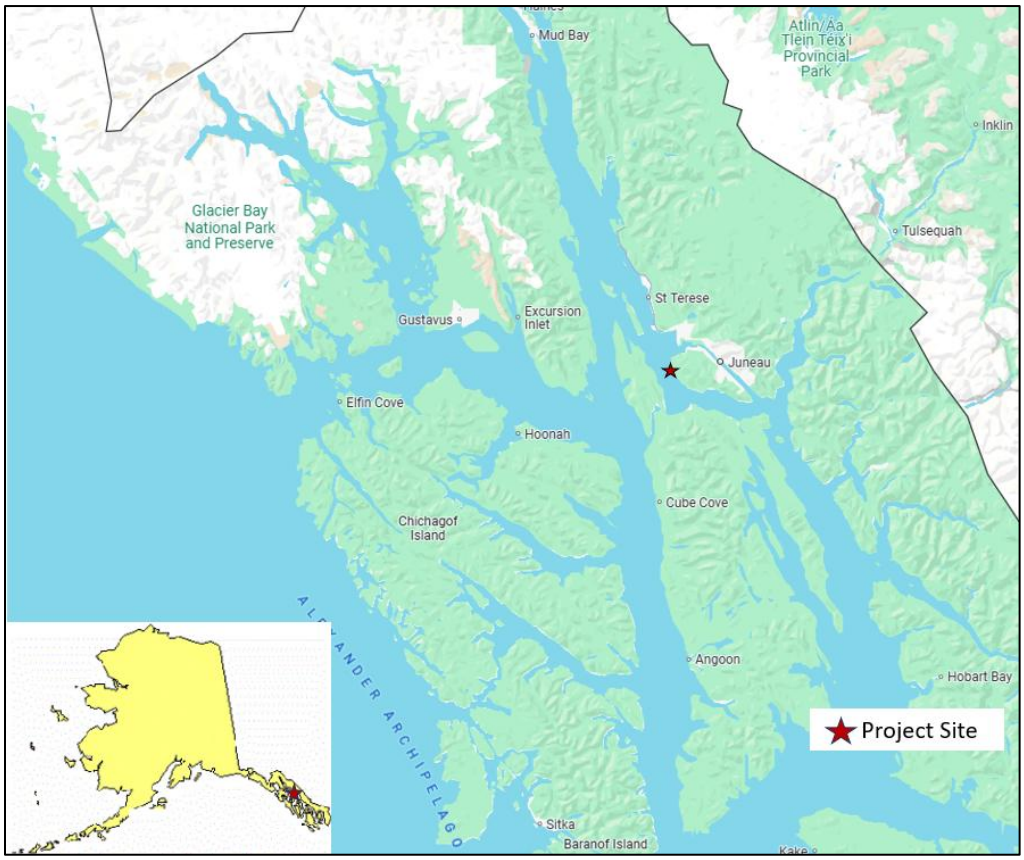


Figure 2. View of the Douglas Island Offshore Geotechnical Study to the South at Low Tide

Figure 3. View from the Northern Side of the Offshore Geotechnical Study looking South at the Low Tide Line

Study Details

The proposed offshore geotechnical survey program would occur at approximately 28 boreholes at the site. Of these, 25 boreholes would below mean high water (MHW) line and 3 would be on Goldbelt, Inc.-owned land above MHW (**Figure *4***). Six (6) would be on the shoreline between MHW line and mean lower low water line. It is estimated that the proposed drilling will occur over a 30-day period between June and October 2025. The actual start date is dependent on contractor availability, obtaining the necessary permit authorizations, and environmental factors such as weather.

Study Vessels

The offshore geotechnical study would be supported by a ramp barge owned by Trucano Construction. The ramp barge would travel from an existing barge loading and unloading ramp on the north side of Douglas Island to the program site and would be anchored onsite until the geotechnical study is completed. The maximum cruising speed of the ramp barge would be 8 knots. The barge would be equipped with sufficient anchors to hold position during the geotechnical study.

Geotechnical Study Methods

To conduct the proposed borings, a truck or track-mounted drill rig (Figure 5) supplied by Discovery Drilling of Anchorage, Alaska would be mobilized to the north end of Douglas Island and placed on the ramp barge. The drill rig would be equipped to conduct tri-cone rotary drilling, soil sampling, and rock coring.

At 25 separate borehole sampling locations, an initial hollow outer casing will be seated on the ocean floor under its own weight. An inner casing will then be placed inside the outer casing and will be advanced in 5-foot intervals to facilitate sampling. At the end of each 5-foot interval, a sampler will be lowered through the casings and impact hammered to obtain the sample. Once bedrock is encountered, rock core samples will also be taken in 5-foot intervals. Borings would be advanced to the shallower of 100 to 150 feet below mudline or approximately 30 feet below the bedrock surface.

Personnel would consist of a six-person drill crew from Discovery Drilling and two engineering or geology staff from Shannon & Wilson. This would allow for 24-hour operations which are common in over-water work to minimize the time that the barge must be held on location at each drill hole.

Figure 4. Location of Douglas Island Cruise Ship Terminal Geotechnical Sampling Locations

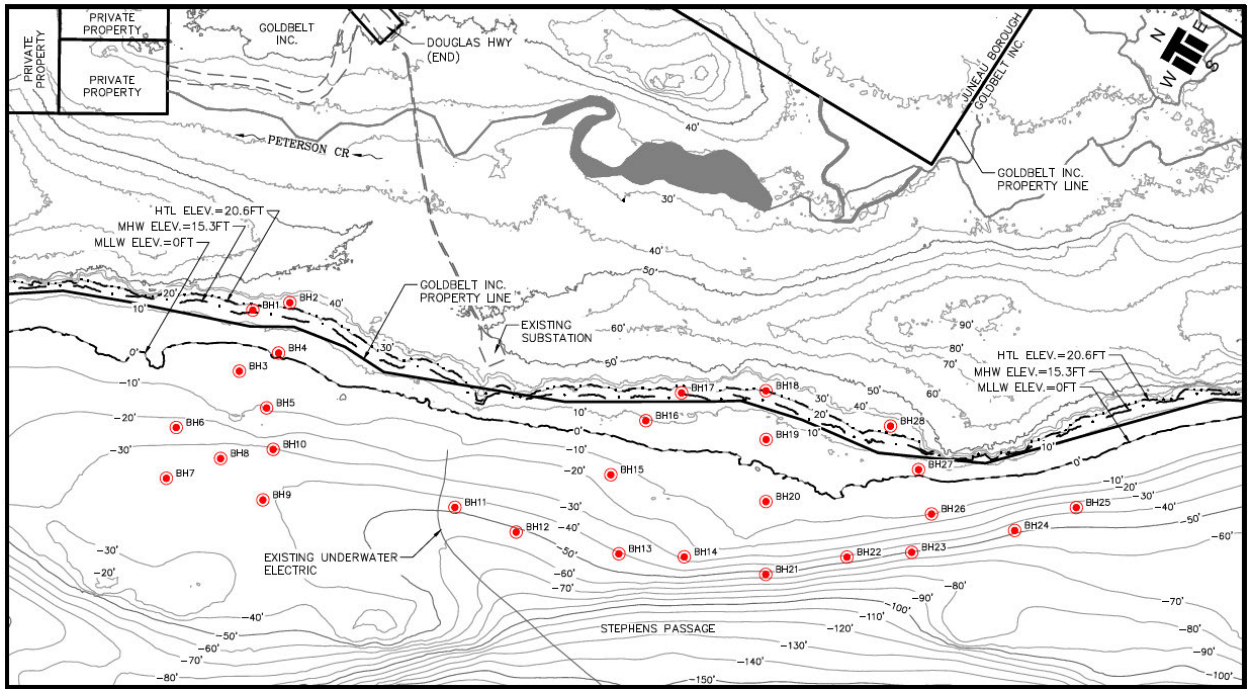
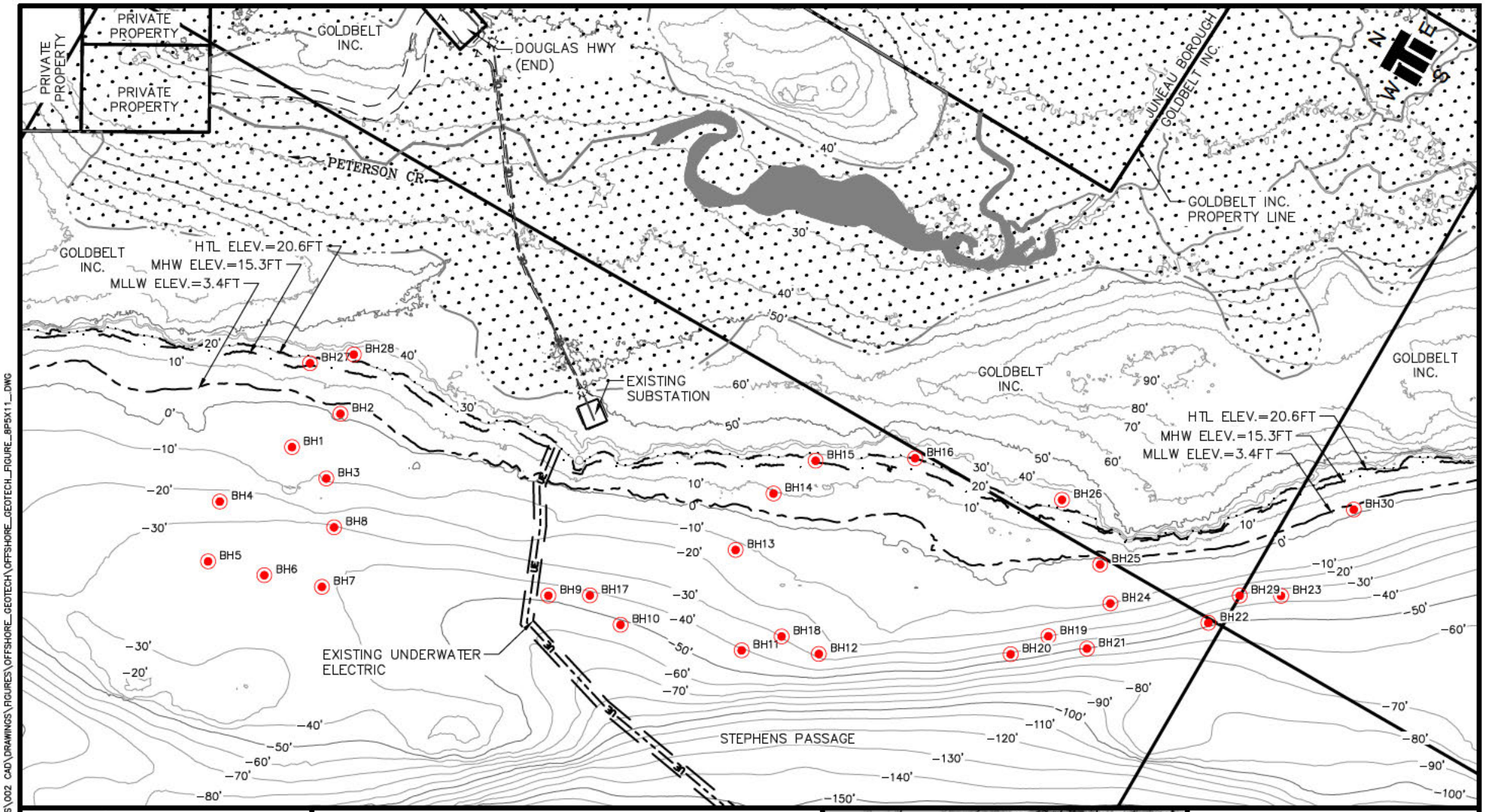


Figure 5. Closeup of the Drill Mounted on a Truck on a Ramp Barge

Attachment 3: Study Figure



Turnagain Marine Construction

DOUGLAS ISLAND CRUISE SHIP TERMINAL

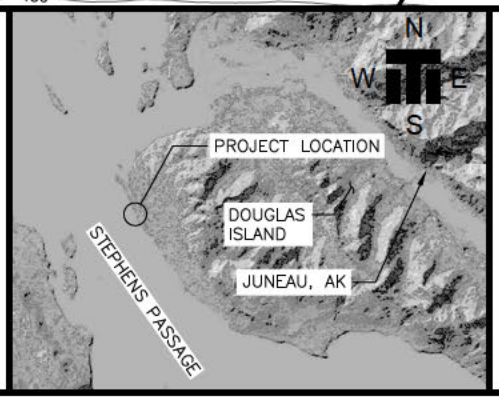
ALASKA DNR TIDELANDS FIGURE

LAT: 58.290' N, LONG: 134.678' W

0 300' 600' FEET

LEGEND

- HTL ELEV.=20.6FT
- MHW ELEV.=15.3FT
- MLLW ELEV.=3.4FT
- PROPOSED BOREHOLE (LOCATION APPROX.)



APPLICANT: TURNAGAIN MARINE CONSTRUCTION
5050 CORDOVA ST, ANCHORAGE, AK

PERMIT NO: TBD

WATERWAY: STEPHENS PASSAGE

LOCATION: JUNEAU, ALASKA
T41S R66E S29–32 CR

SHEET 01 OF 01

DATE: March 24, 2025

DRAWING LOCATION: Z:\SHARED\02 ESTIMATES\24-008 DOUGLAS\002 CAD\DRAWINGS\FIGURES\OFFSHORE_GEOTECH\OFFSHORE_GEOTECH_FIGURE_8P5X11_.DWG