

# Kinngait Field Program

11 July, 2023

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## 1. Project Overview

### 1.1 Introduction and Project Location

Worley Canada Services Ltd. (Advisian) and Pilitak Enterprises (the Project Team) have been retained by the Hamlet of Kinngait (the Hamlet) to construct a marine infrastructure project (the Project). Kinngait is located on Dorset Island near Foxe Peninsula at the southern tip of Baffin Island in the Qikiqtani Region of Nunavut (64° 13.923'N, 76° 32.874'W, see Figure 1-1). The Project Team is undertaking a test pit field program (the Program) in advance of Project construction.

This letter provides the details for the Program to fulfil the requirements for the Nunavut Planning Commission (NPC) to confirm compliance with all terms and conditions of any applicable land use plans.

### 1.2 Project Name

Kinngait Field Program (the Program).

## 2. Proponent and Representative Details

Contact information for the proponent and representative are provided in Table 2-1.

**Table 2-1: Proponent and Contact Information**

Contact Category	Contact Details
<b>Name of Proponent Contact / Primary Contact</b>	Jeff Gibson / Shokouh Meshkinfar
<b>Proponent Mailing Address</b>	Worley Canada Services Ltd. (Advisian) 2930 Virtual Way Vancouver, BC, V5M 3M4  Email: <a href="mailto:Jeffrey.Gibson@advisian.com">Jeffrey.Gibson@advisian.com</a> / <a href="mailto:Shokouh.Meshkinfar@advisian.com">Shokouh.Meshkinfar@advisian.com</a>
<b>Name of Consultant</b>	Victoria Burdett-Coutts, Marine Biologist and Regulatory Lead, M.Sc., R.P.Bio.
<b>Consultant Mailing Address</b>	Dynamic Ocean Consulting 1490 Union Street Port Moody, BC, V3H 3X5 Mobile: 778-839-2372  Email: <a href="mailto:Victoria@dynamicocean.ca">Victoria@dynamicocean.ca</a>





WGS 84 / Arctic Polar Stereographic  
 Properties  
 Units: meters  
 Dynamic (relies on a datum which is not plate-fixed)  
 Celestial body: Earth  
 Based on World Geodetic System 1984 ensemble (EPSG:6326), which has a limited accuracy of at best 2 meters.  
 Method: Stereographic

Scale	Figure	Draw
As Shown	20230704-001	C.Knight



Figure 1-1 Kinngait Project Location

### 3. Project Description

#### 3.1 Program Scope

The Program consists of a geotechnical assessment using test pits.

#### 3.2 Study Areas

The Program Study Area will include the footprint of the proposed sealift laydown and breakwater. The approximate locations of the test pits are depicted in Figure 3-1. Final locations will be a field decision and georeferenced points will be taken.

#### 3.3 Program

Test pits are required to understand ground conditions within the Kinngait foreshore to support detailed design of the Project. Test pits will consist of beach excavation, which will occur in out-of-water tidal conditions in the Kinngait Study Area. Up to nine test pits will be dug and will be approximately 1 m x 3 m and 4 m deep. In order to access the Study Area and minimize intertidal disturbance, the field lead will develop a plan to establish an Intertidal Access Area and will conduct a salvage program to confirm that all large mobile invertebrates are removed, and areas of marine vegetation are avoided within the Intertidal Access Area. Subsequent to the Program, the equipment operator will return the intertidal area to its pre-existing conditions, and confirm the excavated areas are infilled and compressed as required.

Equipment required for the Program will consist of an excavator. The Study Area will be accessed by foot.





#### Legend

 test pit Locations

WGS 84 / Arctic Polar Stereographic

Properties

Units: meters

Dynamic (relies on a datum which is not plate-fixed)

Celestial body: Earth

Based on World Geodetic System 1984 ensemble (EPSG:6326), which has a limited accuracy of at best 2 meters.

Method: Stereographic

Scale	Figure	Draw
As Shown	20230704-001	C.Knight



Figure 3-1 Kinngait Test Pit Locations

## 4. Schedule

The Program will be undertaken in August or September 2023 and will require two to three field days.

## 5. Personnel

### 5.1 Proposed Field Team

The Project Team affiliated with the Program will consist of personnel from Advisian or Pilitak Enterprises and local support, and will include up to four people. Any questions associated with the Program can be directed to Victoria Burdett-Coutts (email: [Victoria@dynamicocean.ca](mailto:Victoria@dynamicocean.ca); phone: 778-839-2372).

### 5.2 Opportunities for Local Participation

The field team will require local support, including field assistants.

## 6. Consultation

### 6.1 Consultation Summary

Consultation will be undertaken as a part of the Project. Meetings will be conducted with the Hamlet and the Aiviq Hunters and Trappers Associations (HTA).

Meetings will begin with the consultation specialist providing an overview of the Project followed by open discussion. The presentations will cover the following topics relevant to the Program:

- Project schedule.
- Description of the Program.
- Finding local field support and communicating opportunities and study activities/ results with the community.

Meetings will be facilitated by the use of maps, surveys and photographs. A local interpreter will be hired, as required.

## 7. Project Map

See Figure 1-1.

## 8. Land Use and Licensing

### 8.1 Land Use

Field-based studies will occur within land use areas as described in Table 8-1.



**Table 8-1: Land Use and Ownership**

Administrative Boundary	Details
Planning Region	Qikiqtani Region
Land Use	Field activities which by NPC's descriptions would be most closely categorized as pits and quarries
Land Ownership	Federal

## 8.2 Permitting

The Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) will be engaged to confirm if a Land Use Permit (LUP) is required for the Program.

## 8.3 Equipment

Equipment required for the Program is described in Section 3.3.

## 8.4 Fuel Use

Consumption of fuel to operate the excavator is expected to be minimal and thus refueling of equipment will not be required within the Study Area. Equipment will be inspected prior to use to confirm it is in good working order and there are no leaks.

## 8.5 Hazardous Materials

Not relevant; no hazardous materials will be required for the Program.

# 9. Environmental Management

Potential environmental effects and proposed mitigation measures are provided in Table 9-1.

**Table 9-1: Environmental Effects and Mitigation**

Environmental Effect	Mitigation
Disturbance of terrestrial and marine habitat and wildlife	Field personnel will be accompanied by local field assistants to confirm minimal disturbance to terrestrial and marine habitats and organisms.  Test pits will be dug during out-of-water tidal conditions. Mobile invertebrates will be moved and seaweed will be avoided.
Disruption of traditional use of proposed study area	Arrival of the field team will be advertised in advance of the Program. There is no aspect of works required that would modify the use of terrestrial or marine areas by local people.
Increased overall anthropogenic presence within study areas	The field team is small and are conducting a non-invasive short-term assessment.

## 10. Waste Management

- Waste Management – the Program will employ a ‘pack in, pack out’ policy in terms of waste management. Bulk waste is not anticipated during the Program.
- Sewage / Human Waste – field personnel will use existing facilities.