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Ocean Nova 2023 - Arctic Cruises

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ᓄᓇᓂᓪᓄᓪᓴᓪ:

Amendment

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8/10/2023 12:35:35 PM

Period of operation:

from 0001-01-01 to 0001-01-01

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from 0001-01-01 to 0001-01-01

ᐱᓕᓂᐃᓴᓂᓴᓂᓪ:

F.K. Warren Ltd.

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Canada

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ፍጹሙ ለሥራ ለማድረግ ለሚችሉ ሰዎች ለማግኘት ማድረግ ይቻላል።

[illegible]

Personnel

Operations Phase: from 2023-09-02 to 2023-09-09

Λ Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω

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			Territorial Park is home to caribou and Arctic foxes. Qaummaarviit Territorial Park, on a tiny island near the city, contains archaeological remains of the ancient Thule people. —		
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ᓄᓇᓕᓂᓪᓐ ᓂᓕᓂᓪᓐᓂᓪᓐ ᓄᓇᓕᓂᓪᓐ ᓂᓕᓂᓪᓐᓂᓪᓐ ᓂᓕᓂᓪᓐᓂᓪᓐ ᓂᓕᓂᓪᓐᓂᓪᓐ

ᓄᓇᓕᓂᓪᓐ	ᓂᓕᓂᓪᓐ	ᓂᓕᓂᓪᓐᓂᓪᓐ	ᓂᓕᓂᓪᓐᓂᓪᓐ
ᓂᓕᓂᓪᓐ	Coreen Green / Dylan Mablick	Hamlet	2023-05-30
ᓂᓕᓂᓪᓐᓂᓪᓐ	Daisy Nuqingaq	Hamlet	2023-08-01
ᓂᓕᓂᓪᓐ	Louis Pothier	Inukpak Outfitting	2023-08-01

ᑕᐃᑦᑭᑦ ᐱᑭᑦᐅᑎ ᐊᑦᑭᑦᑕᐅᑭᑭᑦ

ᐊᑭᑦᐊᑦᑭᑦ ᐱᑦᑎᐊᑎᑦᐅᑭᑦᐅᑦ ᑎᑎᑦᑭᑦᑭᑦ:

North Baffin
South Baffin

ᑕᐃᑦᑭᑦ ᐱᑭᑦᐅᑎ ᐊᑦᑭᑦᑕᐅᑭᑭᑦ

ᑭᐊᑭᑦᑭᑦᑭᑦ ᐊᐱᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑕᐃᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ	ᑦᑭᑭᑦᑭᑦᑭᑦᑭᑦ ᑕᐃᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᐊᑦᑭᑦᑕᐅᑭᑦᑭᑦᑭᑦ	ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ	ᐅᑦᑭᑦᑭᑦᑭᑦᑭᑦ/ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ	ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ
ᑭᑭᑦᑭᑦ ᑭᑭᑦᑭᑦ, ᐱᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ & ᐊᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ	Outfitters License	Applied, Decision Pending		
ᑭᑭᑦᑭᑦ ᑭᑭᑦᑭᑦ, ᐊᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ	Wildlife Observation License	Applied, Decision Pending		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Applicant not seeking archaeology permit. Only community landings and zodiac near Lady Franklin Island	Not Yet Applied		

Project transportation types

Transportation Type	ᑭᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ	Length of Use
Water	Cruise Vessel - Ocean Nova	

Project accomodation types

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$\Delta L^{\zeta_b} \triangleleft D^{\zeta_b} C \triangleright \dot{L}^{\zeta_b} D^{\zeta_b}$

▷ ◡ CĬ ^{ᶜᵇ} ◁▷ ^{ᶜᵇ} C▷σ◁ ^{ᶜᵇ} ▷ ^{ᶜᵇ}	ᶜᵇᵇ ΔΓ ^{ᶜᵇ} Cᶜᵇ C ^ᶜ σ◁ ^{ᶜᵇ} ◁ ^ᶜ	ᵇP ^ᶜ ΔΓ ^{ᶜᵇ} Cᶜᵇ C ^ᶜ σ◁ ^{ᶜᵇ} ◁ ^ᶜ
0		

$$\Delta^b C d \Gamma n \sigma \Delta^c \sigma^c$$

ᐱᑕᓂᐸᓚᔭᔨᒪᕈᖅ ᐱᑕᓂᐸᓚᔭᔨᔨᔫᖅ	ᖃᓄᐸᑐᖅ ᐸᑲᑦᑤᑯᖅ	ᖃᓄᓂᓯᑦ ᐸᑲᑥᑦᑤ ᙳᖅᓯᐸᓄᐸᑲᑐᓇᔭᔩᖅ	ᖃᓄᖅ ᐸᑲᑥᑥᑦᑤᔨᔫᖅ	ᙳᗧᒪᖅᙳᔭᓂᙳᖅᓄᔭᔨᔫᖅ
Tourism Activities	ᐸᑲᑥᑥᑥᑥ ᐸᑶᐸᑕᑕᔭᔨᓴᓄᖅ	TBA	Retained on board until licensed disposal facility in Newfoundland or Greenland	.
Tourism Activities	ᐸᒪᐸᑥ ᐸᑵᖅᑕᔭᔭᓚᖅᓯᒪᕈᖅ	TBA	According to Marpol regulations	.
Tourism Activities	ᐸᑕᑕᓴᖅᑤᖅ	TBA	Retained on board until licensed disposal facility in Newfoundland or Greenland	.
Tourism Activities	ᖃᓄᑕᑕᓂᓄᖅ	TBA	According to Marpol regulations	.

$\triangleleft \nabla \cap \Gamma \triangleright C \dot{\sigma}^C \supset^C \triangleleft^b \supset^{qb} C \triangleright \gamma L \dot{\gamma}^C$

essel will be transiting through wildlife habitats and passengers and crew will be landing ashore in areas where wildlife may be present. This activity could be indirectly disruptive to certain species. Oil spill, noise disturbance and emissions could potentially effect wildlife. Emissions to air and water are limited by the strictest marine regulations and the engines are therefore running on low sulphur Marine Gas Oil. The vessel has a treatment system for the ballast water to avoid the spread of biological organisms from one area to another, and she is designed to minimize the impact on marine life by causing low underwater noise levels. When in operation the vessel will ensure, in wildlife concentrated areas, ship's speed will be reduced. The vessel is sailing between 5-10 knots in the areas where wildlife is present and the full capacity of the ship is 10 knots. Therefore, speed is of utmost consideration when sailing in wildlife rich areas.

Measures to Avoid Dangerous Wildlife Encounters: Direct contact and interaction with wildlife will be avoided. All activities the vessel, passengers and crew engage in will be environmentally concious and intended for the purpose of sightseeing only. No manmade structures or materials will be left in wildlife area. Crew members who are trained and certified naturalists will provide safety guidance and information on the environment to the passengers and other crew. The information provided is specific to each location and is made in an effort to afford protection and conservation by minimizing any potential damage or disruption that could occur. The crew on board the cruise vessel are well versed in measures to avoid dangerous wildlife encounters. They keep watch for dangerous animals, and will not approach land if dangerous wildlife is spotted ashore. When ashore, food is not left unattended (if brought ashore at all). The crew have a system in place to safely and efficiently move passengers back to

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

[illegible]

Please see project map which outlines coordinates for all planned landing locations. Vessel will only call communities and zodiac near Lady Franklin Island. The Canadian Arctic Archipelago comprises of 94 major and 36,469 minor islands, covering a vast area of 1.4 million square kilometers in Northern Canada's North Atlantic Ocean. Nunavut and Northwest Territories form the majority of this region, which is separated from the mainland and each other by the Northwest Passage, the largest high Arctic land area worldwide. The terrain is mostly tundra, with the exception of mountainous areas, and Canada's glacial ice is mostly located in the highlands. The archipelago experiences cold winters, averaging between -20°C and -35°C, and mild summers, with temperatures ranging from 10°C to 25°C, with a wide range of plant and animal life, including various land and marine mammals, insects, and birds. The islands also have a range of plant species, such as mosses, liverworts, and lichens.

[illegible]

During the expedition through Nunavut there are various endangered species in both marine and land environments that the vessel could potentially encounter. The Species at Risk Act (SARA) aims to protect species from extinction and has identified several species in Northern Canada as endangered, such as Barren-ground Caribou (NWT), Beluga Whale (Nvt), Caribou (Nvt), Eskimo Curlew (NWT, Nvt, YT), Gypsy Cuckoo Bumble Bee (NWT, YT), Ivory Gull (NWT), Little Brown Myotis (NWT, YT), Northern Myotis (NWT, YT), Red Knot (NWT), Ross's Gull (Nvt), and Whooping Crane (NWT).

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Several community visits are planned to Iqaluit, Pond Inlet, and Qikiqtarjuaq. We are looking forward to working with the communities to develop a program that allows the passengers to learn about the culture in a respectful and engaging manner. Passenger landing fees are paid to the Hamlet to ensure there is a fiscal benefit to the community. While the federal covid regulations have been dropped, we will adhere to any/all covid protocols requested by the communities. Appropriate archaeological permits have been applied for, and the onboard archaeologist will ensure all procedures are respected.

Miscellaneous Project Information

[illegible]

Minimization and mitigation measures include following established standard operating procedures and education, which are viewed as being the key factors toward ensuring that crew, expedition staff and guests are educated and briefed appropriately. Staff and Guest Briefings will include pre-landing briefings on

wildlife sensitivities and potential hazards, proper wildlife viewing techniques and safety and operational practices. While the OCEAN NOVA will take necessary measures to limit their impact on all species within the surrounding environment, extra precautions will be taken for the species listed above. It is important to note that the proposed activity may cause disturbances to the flora and fauna. However, Grand Espaces believes that with proper procedures and attention to detail, any potential impacts caused by the OCAEN NOVA can be minimized. Ship's command and the Expedition Leader are aware of Species at Risk to ensure that activities do not impact these species. Environment and Climate Change Canada's "Environment Assessment Best Practice Guide for Wildlife at Risk in Canada" (http://www.sararegistry.gc.ca/virtual_sara/files/policies/EA%20Best%20Practices%202004.pdf) provides information on what is required when Wildlife at Risk, including Species at Risk, are encountered or affected by the Project.

Cumulative Effects

Cumulative effects are expected to be minimal. Vessel will only call communities and zodiac near Lady Franklin Island. No landing to be conducted there.

Impacts

$\mathbf{e} \rightarrow \mathbf{e} \Delta^{\mathbf{q}_b} \mathbf{C} \triangleright \sigma^{\mathbf{q}_c} \mathbf{r}^{\mathbf{c}} \leftarrow \mathbf{e} \mathbf{n} \Gamma \triangleright \mathbf{C} \dot{\sigma}^{\mathbf{c}} \mathbf{J}^{\mathbf{c}} \leftarrow \mathbf{e}^b \mathbf{J}^{\mathbf{q}_b} \mathbf{C} \triangleright \mathbf{r}^{\mathbf{L}} \mathbf{r}^{\mathbf{c}}$

[illegible]
$$(P = \langle b \rangle_{\dot{a} p n^a q^c}, N = \langle b \rangle_{\dot{a} n^a r^c} \langle \dot{c} \rangle_{\dot{d} p n^a q^c} \langle \dot{c} \rangle_{\dot{d} n^a r^c}, M = \langle b \rangle_{\dot{a} n^a r^c} \langle \dot{c} \rangle_{\dot{d} p n^a q^c} \langle \dot{c} \rangle_{\dot{d} n^a r^c}, U = \langle b \rangle_{\dot{a} l^a q^c})$$



List of Project Geometries

1	point	Pond Inlet
2	point	Qikiqtarjuaq
3	point	Lady Franklin Island
4	point	Iqaluit