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Personnel

Personnel on site: 8

Days on site: 15

Total Person days: 120

Operations Phase: from 2026-07-05 to 2026-08-05

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

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These areas represent standard physical environments in the region, in the sense there is nothing particularly observably different (except the particulars of the underlying geology, which we are interested in studying). We have not been to this area before so are primarily providing this information based on aerial photographs. Our camp areas will be near the helicopter/twin otter landing areas on flat ground. The rocks we are studying will primarily be near small streams, which is how the rocks are best exposed on Cornwallis and Bathurst Islands.

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These areas represent standard biological environments in the region, in the sense there is nothing especially different or unique about them. However, we would note we are geologists and so there may be unique biological environment features that we are unaware of. If those are revealed during this NIRB review, we would be happy to revise our plans accordingly.

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Our research will start at the PCSP base in Resolute Bay, where we are hiring a wildlife monitor and purchasing some of our field food. Our actual field research will be remote to this community and will not directly impact it. We are not aware of archaeological or culturally significant sites near our field areas based on our knowledge to date, but can adjust our plans accordingly if those are revealed during the NIRB screening process. There is a strong Silurian-Devonian paleontological record in the rocks we are studying--indeed, the paleontological and geochemical record in these rocks is the prime reasons we are going to these areas (to study the impact of early land plants on the Earth systems). We have explained our scientific and paleontological research plan in all applications and are separately applying for a Government of Nunavut paleontological permit. We are not aware of any subsistence harvesting, guiding, trapping, or tourism activities in our areas, based on our research and discussions with our wildlife monitor. We have reached out to the Hamlet of Resolute Bay, Resolute Bay Hunters and Trappers Association, and Qikiqtani Inuit Association with our plans, and can adjust our plans if any of these organizations or the NIRB screening procedure reveals proximity to such activities. We do not believe this proposal relates to traffic patterns, human health, or VSEC components.

Miscellaneous Project Information

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The impacts are primarily those associated with a small team of researchers in a temporary camp, and sampling the rock strata. To mitigate this, we operate on the philosophy of no (or at least minimal) impact. We will leave no rubbish or other trace of our base camps or sampling locations. No campfires are allowed in camp and we only use small, gas-powered stoves. We use small personal tents (no structures). Team leader Dr. Sperling and Dr. Tarhan have worked and camped in many remote areas during previous field seasons throughout northwestern Canada (and elsewhere in the Arctic) during previous field seasons, and have left campsite areas essentially indistinguishable from before arriving, in keeping with the wild character of these

field areas. Our team previously did fieldwork in Qausuittuq National Park in 2023 at Grant Point, and our camp area was essentially unchanged (pictures available on request). In fact we left it 'cleaner than we found it' by hauling out some minor trash apparently left by an older and less careful field party (the previous geological work at that site was in the late 1980s). All human waste will be packed out with the team, using the portable toilet system available from the PCSP base in Resolute Bay. With respect to rock sampling, we will be collecting geological rock samples via hand or geological hammer. We will not be making any holes or excavations or using any mechanized equipment. All rock samples to be collected are normal rock samples with no aesthetic or commercial value. We will attempt to minimize the amount of sample being removed and use our rock hammers as little as possible and we will target easily accessible broken or fractured outcrops to avoid excessive hammer use. We are experienced at sampling with minimal impact on the outcrop, and as stated above, strive to minimize our impact on the environment.

Cumulative Effects

Although there have been geological field parties where we are planning to camp and work, they have commonly been decades apart. For at least some of our sites, they have not been re-studied in nearly 50 years. Thus, we do not believe there are cumulative effects from re-study of these geological field areas.

