

Ihuaqhaidjutikhat PI: Bing Chen Memorial Iliharvigjuangat NewfoundlandmiKangiqlihidjutit, Qaujihainirnut Apiqhuutit unalu Hulidjutikhat: Hamna Ukiuqtaqtuq uunnakpallialiqtuq malruiqtarnigut hilarjuami aktilaangit, taimaa nuna iluani qiqumaningit auktuqpallialiqhuni, hikut aallanguqpallialivlutik, hila ajurnaqpialiqhunilu atauttikku halumailqipallialivlunilu agjaqtuqtunut, aallannurniq pihimmaarnirlu. Hapkuat aallanguqtnirningit, ilagivlugillu tamarmik atukhaarnirnut ihumagijaujut uvvalu qanilruani ikajuutit imaatut uqhurjuat munarijarningit, umiaqtuqtunut hulidjuhiit, unalu kuvvirarvingillu tutquumavingit, taimaa hivuuranaqpallialivluni halumailruanit Iqaluktuuttiami. Hapkuat halumailruangit ihumaaluutaulluaqtut: •Mikitqijaujut palaastiit: mikijunnuit palaastiit ilakuit hivitunia nungulaikhimakhaaqtut ingutaalaaqhutik niqinut nirijuktainut. •PFAS: Aallanguqtaaqtuq piliuqhimajut hivuuranaqtut atuqtauvaktuq qaptirijiit puqlaktuqtut uvvalu aalltqiit hunanut. •Uqhurjuanut-ilagijaujut ilaurutaujut: ilakuit katilviujut uqhurjuanut atuqtunut unalu imarmiuttat hulidjuhiit. •PBDEt: ikulaitkutikhat angiglilaaqtut inungnut huradjanullu hulaqutiqaqtut inungnut. Amihut haffumani ilakuit ingilrakhaalaaqtut unghahiktunut, nungutpalliattaqturlu kajumiittunnuamik alappaarnaqtumi, katitirlutiglu pitquhikkut niqitigut niridjutainun. Havakhugit kinguani havaktauhimajut hapkunangga Ukiuqtaqtumi Halumailrut Pinahuagutit taapkua ilitturijut PBDEt hanianit aviktuqhimajumi, una havaakhaq (havaqatigivlugillut ukunangat Ukiuqtaqtumi Qaujiharniq Tunngavia) naunaiqhiilaaqtut hup halumailruat ittut haniani Iqaluktuuttiaq, qanuq hilaqutit unalu hilaup hilaqutigijait, qanuq katitiqhimajut uumajunit ihumagijaujut niqinut pitquhinullu. Tikinnahuarutijut ihivriurlugit qanurinningit, aulaniit, hulaqutainun niqailiunirmun, piliurlutiglu ihuaqtunik ihuaqhaidjutikhanik havaqatigilugit nunamingni havaqatigiit. Ihumaliurutinga Atauhiq Aaninaqtailiniq piyuq ihivriuriami atajut avatinganit, huradjat, inungnullu aanniaqtailininga. Anginiqarnia uumani qaujiharutimi Iqaluktuuttiap hinaa avataita ihumaaluutaulluarijaat hila uunnakpallialirmat angiglivalaarmat tamarmik ingutaqtunut unalu angijaaqtumik halumailrungit. Mahaktiliraangat nunap puvitquumaninga imaalu aallangurningit imaqarviit hiamittiqittivaktut utuqqanik hivuagut tutquqtauhimajunik halumailrunik, kuvvirarviit imaalu haniani hinaani katitirivaktut imaalu qakugu hiamitititativaktut halumailrunik. Halumailrut taapkua aulanngittut avatitpingni hivitujumik uvvalu itirlutik niqinun niridjutainun atuqtaujut Nunaqaqqaqtut nunallaat. Piqanginmat naunaijaqhimajunik kangiqhimadjutinik inmi ukiup ilaani idjuhiit, qanuq katitiqhimajut uumajuni, uvvalu inmi hulaqutainun nunamingni nirijainun pidjutaujuq angijumik ajuqhautinik ilitturihimanikkut qajangnautinik uvvalu piraarnirmik kiudjutinik. Una havauhikhaq pipkaidjutijug European Union-mit ittuq uumani nunarjuaptingni aadjikutariiktumik tunngavinga, ikajuqtaupluni Kaanataup Nutaangujuq Kiglingit Qaujiharnirnut Manngit (NFRF), pipkaidjutijug naunaijaqtamingnik Iqaluktuuttiamit naunaijariami tahapkununga aallanit Ukiuqtaqtumi aviktuqhimajunit. Pijaangat anginirmik tautuktuujaarutikharnik ihuarjuumiqtittinniaqtun akhuurnaqtunik ikaarnikharniglu, pijaangat ihuaqhaidjutikharnik aturiaqqtunik hanaqidjutikharnik nalaumajut nunallaani pidjutikharnik taimaa aittuihimaqtillunik nunarjuaptingnik pidjutikharnik aulattittijaangat ajurnairutikharnik atugakharnik ukiuqtaqtuniittunik nunallaangit aulajut nuutaanik halumairungnik ajurnautiaqtunik talvuuna qilaminnaaq aallanguqtiliqtuq hila. Humi, Qanga, unalu Qanuq Hivitunikhaat Manirarmi Qaujihavikhaat Pinahuaqqa: Maniqqami havaaq hivunigijakhaat Iqaluktuuttiaq, kuvvirvianit, unalu haniani hinaani, humiliqaak humi tikiapkainiq uvvalu katitirningit halumailrut hulaqutauniaqtut nunallaat ikajuutainun. Ihuaqhaivaktugut pingahunik hitamanigluuniin naunaijainikkut aulaarutinik ukiuq tamaat pijaangani ukiutigut aallatqiigutait. Nunallaani katimadjutikharnik ikajuutiginiaqtun naunaijaijaangat pijumalluaqtainik auladjutikhangillu. Ikajuutikharnik umiarnik tunijauhijaujut talvannga Ukiuktaqtuniittunik Qaujihailiqijunik Tunngaviani pigiaqtittiniaqtun uvaptingnun tikiutijaangat tamarnun hinaani unghahiktunullu najugainun. Qanuriliurutingit: Ikajuqtiqarluta nunagijaujumi ikajuqtigiinit nunagijaujumilu, katitiriniaqtugut imarmik, nunamik, nunap qiqumaninganik, uumajuniglu naunaijagakhanik. Ihivriungniaqtavut qupilruit uvvalu mikijut imarmijut nunaujat, uvvalu iqalukhiurniaqtugut nunamingni angujauhijaujunin maliglugit DFO nalunaqtuliqinikkut uuktuutikkut laisikkut havauhiit. Ilittuqhaivingmi, hanaffaarniaqtugut qanurininginnik aadjikutaanik Ukiuqtaqtumi qunngiaranganani qanuq halumailruit aallannurninginnik qakugunnuraangat, aulaarninginik niqigijamingni, atauttimuqpallianingiginiglu. Ilaaliutiniaqtavut qun'ngiaqtajut maniqqami naunaijarvingmit naunaijariami pilaqutingit akhuurutaujumut nirijait huradjat naunaijariamilu aannirnaittumik, pitquhimut ihuaqtuq kiudjutimut qanuriliurutikhat. Qanuq, qanga, kimullu qanurinningit uqautauniaqqaq Nunavunmi: Paqitajut tuhaqtaituniaqtut havaktautilugit Iqaluktuuttiami aviktuqhimajumilu tigummidjutiaqtut. Havaqatiginiaqtavut nunallaani Inuit ilaqatigiigijangit, ilaujullu Kitikmeot Inuit Katidjutiqatigiingit, Anguniaqtuliqijitkut, Hamilaatkullu hivuliqtingit, ilaqatigiiktukharnik naunaijaijaangat nalvaahijainik. Iniriikumik ukiuq tamaat auladjutikharnik, naunairutikhangit ilaqatigiiktauniaqtun talvuuna nunallaani katimajukharnik, ajurnaittumik kangiqhinnaqtunik

naittumik titiraqhimajunik, uqaqatigijaangatlu inirnikhat, inulrammiit, aallallu ilihimajainik pihimajut. Kingulliq qanurinningit, halumailrukkut nunaujat, ihivriurutit niqinun pidjutainun qajangnautit, pitquidjutillu ihuaqhainirmun havaktauniaqtut atauttimun ikajuutikhat nunamingni ihumaliurutinun. Tunihimaarniaqtugut nuutaanguqtihimajunik ajuiqhautikharnik katitirutikharnik nappaqtirutikharnik iniqtiqhimajunik tunijaangallu ilitturidjutikharnik ukiuqtaqtuniittunun avikturvingmiittunullu akhuuqhailiqijunik ikajuutikharnik avatiliqinikkut munaridjutikharnik atugakharnik havakhimaaqtunik.

Personnel

Personnel on site: 3

Days on site: 20

Total Person days: 60

Operations Phase: from 2025-09-20 to 2027-03-31

				Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	
Potential Sampling site for emerging contaminant 04	Sampling sites	Inuit Owned Surface Lands	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 05	Sampling sites	Inuit Owned Surface Lands	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 06	Sampling sites	Inuit Owned Surface Lands	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any	Cambridge Bay

				<p>sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.</p>	
<p>Potential Sampling site for emerging contaminant 07</p>	<p>Sampling sites</p>	<p>Marine</p>	<p>There is no known historical use or significant site history associated with the proposed sampling areas.</p>	<p>Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.</p>	<p>Cambridge Bay</p>
<p>Potential Sampling site for emerging contaminant 08</p>	<p>Sampling sites</p>	<p>Marine</p>	<p>There is no known historical use or significant site history associated with the proposed sampling areas.</p>	<p>Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.</p>	<p>Cambridge Bay</p>
<p>Potential Sampling site for</p>	<p>Sampling sites</p>	<p>Marine</p>	<p>There is no known historical use or significant site history</p>	<p>Our project involves only non-invasive environmental</p>	<p>Cambridge Bay</p>

emerging contaminant 09			associated with the proposed sampling areas.	sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	
Potential Sampling site for emerging contaminant 10	Sampling sites	Marine	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 11	Sampling sites	Marine	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and	Cambridge Bay

				guidance.	
Potential Sampling site for emerging contaminant 12	Sampling sites	Marine	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 13	Sampling sites	Marine	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 14	Sampling sites	Marine	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites.	Cambridge Bay

				All sampling activities will be conducted only with community permission and guidance.	
Potential Sampling site for emerging contaminant 15	Sampling sites	Marine	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 16	Sampling sites	Inuit Owned Surface Lands	This proposed sampling sites is located near the Old Town area of Cambridge Bay. We will consult with local authorities and communities prior to any field activities to obtain permission and ensure that sampling will not disturb any potential heritage features.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.	Cambridge Bay
Potential Sampling site for emerging contaminant 17	Sampling sites	Inuit Owned Surface Lands	There is no known historical use or significant site history associated with the proposed sampling areas.	Our project involves only non-invasive environmental sampling at potential sites to investigate emerging pollutants. Prior to selecting any sampling locations, we will consult with local authorities and communities in Cambridge Bay to ensure that the work	Cambridge Bay

				avoids any known archaeological, paleontological, or cultural heritage sites. All sampling activities will be conducted only with community permission and guidance.
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ᓄᓇᓂᓄᓐ	Mayor Wayne Gregory, Chief Administrative Officer Jim MacEachern, Community Economic Development Officer Angela Gerbrandt, Lands Clerk Colin Dickie	the Hamlet of Cambridge Bay	2025-08-15
ᓄᓇᓂᓄᓐ	Fred Pedersen, Cory Barker	Kitikmeot Inuit Association	2025-08-15
ᓄᓇᓂᓄᓐ	Emily Angulalik	Pitquhirmikkut Ilihautiniq	2025-08-25
ᓄᓇᓂᓄᓐ	Ekaluktutiak Hunters and Trappers Organization	Ekaluktutiak Hunters and Trappers Organization	2025-08-25

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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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The proposed study area is located within and around Cambridge Bay, Nunavut, a coastal Arctic region characterized by continuous permafrost, low-lying tundra, shallow freshwater systems, and nearshore marine environments. The physical landscape consists of glacially derived sediments and sedimentary bedrock, with numerous lakes, wetlands, and drainage channels that influence surface water flow and contaminant transport pathways. Seasonal thaw and thermokarst processes are present in localized areas, which may affect the mobility of pollutants through soil and groundwater systems. Several proposed sampling sites are strategically located near key points of potential contaminant input, including the municipal drinking water source, wastewater lagoon, waste disposal site, and areas suspected of historical pollution or contaminants (e.g., microplastics and PFAS) release. These are complemented by reference sites in relatively undisturbed environments to establish baseline conditions. The marine environment is shaped by tidal processes, sea ice dynamics, and nearshore currents, all of which are relevant for understanding the transport and fate of emerging contaminants. The project area is not within or immediately adjacent to designated protected areas, cultural heritage sites, or known sensitive habitats. No new roads, trails, or marine routes will be constructed, and all access will use existing infrastructure. The physical environment provides an important process for assessing how emerging contaminants move through Arctic hydrological, sedimentary, and cryospheric systems under changing environmental conditions.

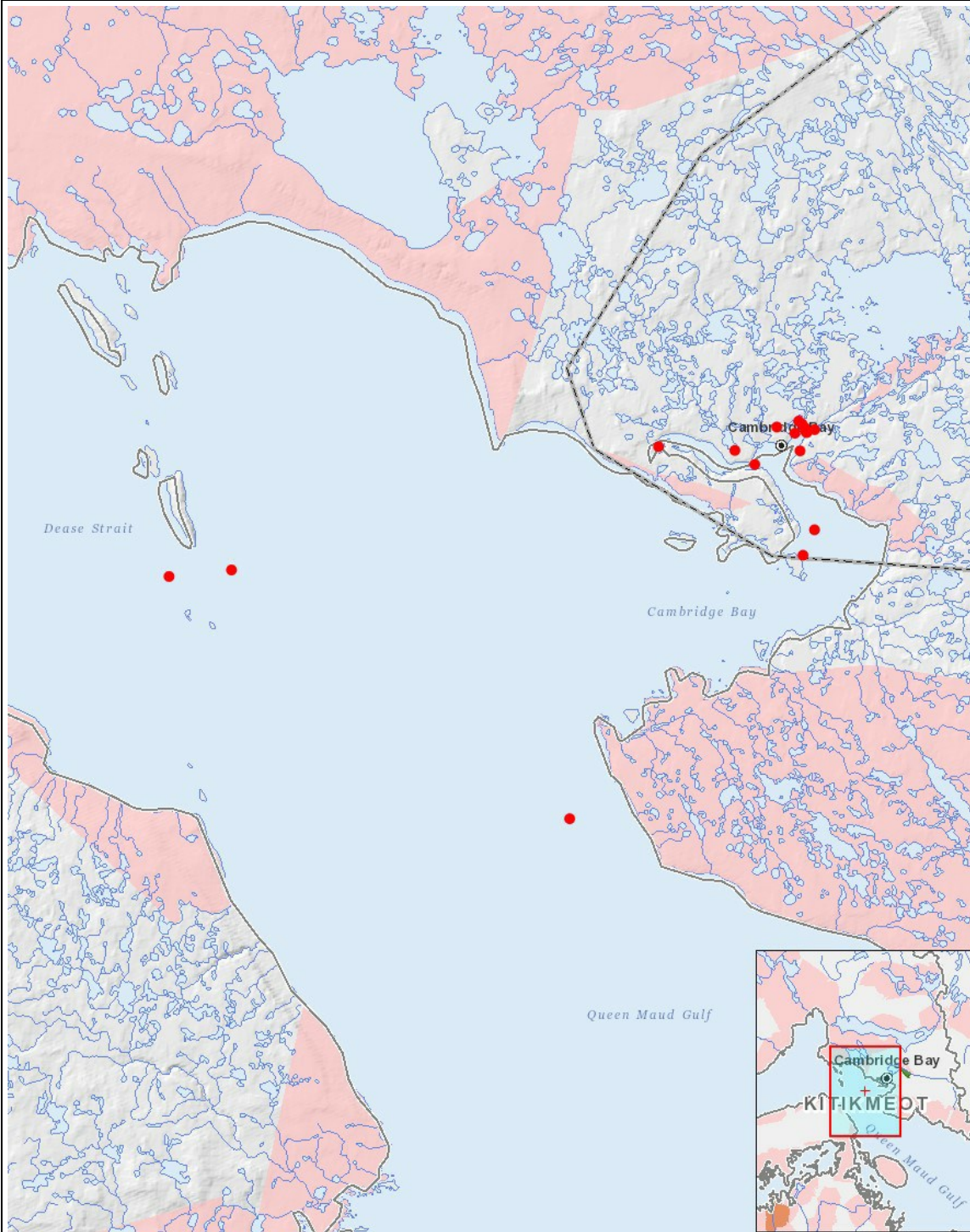
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The terrestrial environment in the Cambridge Bay region supports Arctic tundra vegetation, including mosses, lichens, sedges, and dwarf shrubs, which provide essential habitat for wildlife such as Arctic fox, muskox, and migratory birds. Freshwater and nearshore marine ecosystems support diverse planktonic and benthic communities, which form the base of the food web and sustain culturally and nutritionally important fish species such as Arctic char. These biological systems are also key pathways for the entry and movement of emerging contaminants. Microplastics, PFAS, PBDEs, and oil-derived pollutants can be taken up by plankton and benthic organisms, subsequently bioaccumulating and biomagnifying through trophic levels into fish, birds, and marine mammals. Because these species are integral to local diets and cultural practices, the presence of such contaminants poses potential risks to both wildlife health and human consumers, including endocrine disruption, immune impacts, and other chronic health effects. Currently, the distribution, concentration, and biological uptake of these contaminants remain poorly characterized in the region. By collecting water, sediment, and—with community consent—fish samples (will be obtained from the local harvest, if allowed, we will not collect sample directly), this project will establish a baseline understanding of contaminant pathways in Arctic food webs. These data are essential for assessing risks to ecosystem integrity, traditional food safety, and community health.

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The study area is closely linked to the Cambridge Bay community, with several sampling sites located near areas of active use such as the municipal drinking water source, waste disposal site, and the local port.

impacts on human health and ecosystems. In this sense, its cumulative contribution is positive: the research will generate baseline data, improve understanding of how pollutants from both global and local sources accumulate over time, and provide early-warning information to support evidence-based management. These outcomes can help reduce long-term cumulative risks to water quality, food safety, and community well-being.



List of Project Geometries

1	point	Potential Sampling site for emerging contaminant 01
2	point	Potential Sampling site for emerging contaminant 02
3	point	Potential Sampling site for emerging contaminant 03
4	point	Potential Sampling site for emerging contaminant 04
5	point	Potential Sampling site for emerging contaminant 05
6	point	Potential Sampling site for emerging contaminant 06
7	point	Potential Sampling site for emerging contaminant 07
8	point	Potential Sampling site for emerging contaminant 08
9	point	Potential Sampling site for emerging contaminant 09
10	point	Potential Sampling site for emerging contaminant 10

11	point	Potential Sampling site for emerging contaminant 11
12	point	Potential Sampling site for emerging contaminant 12
13	point	Potential Sampling site for emerging contaminant 13
14	point	Potential Sampling site for emerging contaminant 14
15	point	Potential Sampling site for emerging contaminant 15
16	point	Potential Sampling site for emerging contaminant 16
17	point	Potential Sampling site for emerging contaminant 17