



New

## Scientific Research

9/23/2024 3:06:49 PM

from 2025-02-18 to 2029-12-21

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ፍጹሙ ስለሆነ ለጥራት ምርመራ ማድረግ ይቻላል።

ᖃᓪᓴᓂᓂᓐ: The Grays Bay Road and Port (GBRP) Project (Project) is a proposed transportation corridor that will permanently connect a deep-water port at Grays Bay / Kogloktokyoq on the Coronation Gulf to the northern terminus of the Tibbitt-Contwoyto Winter Road at the former Jericho Mine, Nunavut (NU; Project Area). The Project is being proposed by West Kitikmeot Resources Corp. (WKR) and is currently subject to screening by the Nunavut Impact Review Board (NIRB; file # 24XN038), with a review under Part 3 of the Nunavut Planning and Project Assessment Act anticipated to commence in the near future. In support of advancing the design of the Project and of assessing impacts of the Project on the biophysical and socio-economic environment in an anticipated future environmental and socio-economic impact review in the coming years, WKR commenced field studies in July 2024. These studies are a continuation of, or are supplemental to, baseline studies screened and undertaken historically. To further advance impact assessment and design aspects, WKR needs to undertake additional studies (the Program). Some scope and scale aspects of these studies have not been the subject of impact screening by the NIRB; the purpose of this submission is to initiate impact screening and authorization issuance to allow for the Program to commence in early 2025. Generally, the Project involves workers accessing land and waters within the Project Area collecting biophysical environmental data, both maintain existing and install new scientific instrumentation required to support environmental data collection, and undertake design-related studies including geotechnical drilling.

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Inuinnaqtun: Kapihiliktup Ilagani Apkutikhamik Tolaktakvikmiklo (GBRP) Havak (Havak) atogomayaoyok aolavkikhak ilaleotipkaeneaktok itinikmi tolaktakvikmik Kapihiliktup Ilagani / Kogloktokyoymi Kelineop Aheaplo Takyogiyani okeoktaktoomut ihoani Tibbitt-mit Tahikyoamut Ukeomi Apkotaoyup Jericho-galoamut Oyagaktakvikmi, Nonavumi (NU; Havap Inigiya). Havak atogomayaoyok Oalikheani Kitikmeot Ihoakotiniik Koapareseoyomit (WKR) tayalo ilitokhaktaonahoak Nonavumi Avatilikiyiniit Katimayiniit (NIRB; titirakakveop nahaota 24XN038), ihiveogotimi Ilagani 3 uvani Nonavumi Upalogaeyaotiniik Havalo Ilitokhakniginiik Maligakyoami nahogiyaoymi atolikniganiik kagogonoak. Ikayoktokniganiik hivomuvalaaligeagani kanoginiikha Havap ilitokhakniginiiklo aktoknigiti Havamit umayovalokni inuyohikmi manikhakheogotiniilo avataoyoni nahogiyaoymi hivonikhami avatilikiniik inuyohikmi manikhakheogotiniiklo aktokniginiik ihiveokhiyotimik atoktukhani ukeoni, WKR-kot atolikhimayut manikami naonaeyaotiniik July-mi 2024-mi. Ukoa naonaeyaotiti ilagiyaoymi, oegogiyaelo, naonaeyaotiloat ilitokhaktaoyut havaqiyaoyolo taemani. Hivomut aolahimagaagani aktokniginiik ilitokhaot

kanoginikhagolo piyotaoyut, WKR-kot havakageakaktut ilageagotokhanik naonaeyaotiniik (Havak). Ilagit kanoginiganik agitilaganik piyotaoyut ukoa naonaeyaotit okaotaohimagitut aktokniginik ilitokhaotiniik NIRB-konit; piyotaoniga uma tonihiyotip atoligeagani aktokniganik ilitokhaotit agiktaoniganiklo nalonaekniganik ona Havak atoligeagani atolihalikat ukeok 2025.Imaetuginaktugaloak, Havak ilakaktok havaktonik ilitokhaeyonik nonamik imakniklo talvani Havap Haneani katitigivlotik umayovaloknit avataoyomik naonaepkotiniik, tamakni atokhimakhogit taya talvanetut ileogaevlotiklo notanik naonaeyaotikhanik pikotiniik atogeakaktonik ikayoktogeagani avataoyomik naonaepkotiniik katitiknigani, havagilogolo kanoginikhanik piyotikaktonik naonaeyaotiniik unalo oyagaktakvikhanik ikutaklotik

**Personnel**

Personnel on site: 30

Days on site: 750

Total Person days: 22500

Operations Phase: from 2025-02-18 to 2029-12-21

Operations Phase: from 2025-02-18 to 2029-12-21

Post-Closure Phase: from to

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			of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	stone features and artifacts.	study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Equipment installation	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Equipment installation	Marine	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Fuel and chemical storage	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Fuel and chemical storage	Inuit Owned Surface	Kitikmeot Inuit have and continue to use the study area for travel and	Archaeological investigations undertaken throughout	Kugluktuk is located 180 km to the

		Lands	resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	the Study Area identified documented a number of sites with stone features and artifacts.	west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Aerial surveys	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Aerial surveys	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Aerial surveys	Marine	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.

GBRP Study Area	Camp	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Camp	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Drilling	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Drilling	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.

			support of future road and port development.		
GBRP Study Area	Drilling	Inuit Owned Sub-Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Waste disposal	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Waste disposal	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Marine Based Activities	Marine	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km



			have undertaken environmental baseline studies in the past support of future road and port development.		northeast.
GBRP Study Area	Drilling	Marine	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.

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ᓄᓇᓕᓯᓪᓐ	Various - see attached Engagement Log	Kitikmeot Inuit Association, Kugluktuk Angoniatit Association, Hamlet of Kugluktuk, public	2024-04-15
ᓄᓇᓕᓯᓪᓐ	Various - see attached Engagement Log	Usqsuqtuuq Hunters and Trappers Association, Hamlet of Gjoa Haven, Kitikmeot Inuit Association, Nunavut Water Board, public	2024-05-04
ᓄᓇᓕᓯᓪᓐ	Various - see attached Engagement Log	Kitikmeot Inuit Association, Ekaluktutiak Hunters and Trappers Association, Hamlet of Cambridge Bay, Nunavut Impact Review Board, public, Kitikmeot Region Chamber of Commerce	2024-04-17
ᓄᓇᓕᓯᓪᓐ	Various - see attached Engagement Log	Kitikmeot Inuit Association, Hamlet of Kugaaruk, public	2024-04-30
ᓄᓇᓕᓯᓪᓐ	Various - see attached Engagement Log	Taloyoak Umarulirigut Association, Hamlet of Taloyoak, Kitikmeot Inuit Association, public	2024-05-01

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ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Type B Water Licence	Not Yet Applied		
ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Class A Land Use Permit	Not Yet Applied		
ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Social Science Research License	Active	2024-07-21	2024-12-30
ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Scientific Research License	Active	2024-05-30	2024-12-31
Nunavut Tunngavik Inc	Subsurface IOL Access	Not Yet Applied		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Archaeology and Paleontology Research Permit, Class II	Not Yet Applied		
ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Licence to fish for scientific purposes	Active	2024-05-30	
ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Land Use Licence II	Active	2024-06-19	2026-06-18
ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Wildlife Research Permit	Active	2024-07-30	2026-10-30

Project transportation types

Transportation Type	ᐱᕐᕐᑦᑕᐃᕐᑦ ᐱᕐᕐᑦᑕᐃᕐᑦ	Length of Use
Air	See attached Project Description	
Water	See attached Project Description	
Land	See attached Project Description	

Project accomodation types

Temporary Camp

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**A<sup>c</sup>d<sup>c</sup> d<sup>a</sup>r<sup>t</sup>s<sup>b</sup> d<sup>c</sup>s<sup>b</sup>Cd<sup>c</sup>sd<sup>a</sup>h<sup>t</sup>s<sup>b</sup> ΔL<sup>c</sup>h<sup>i</sup>p<sup>d</sup>n<sup>j</sup>r<sup>c</sup> ΔjCΔ<sup>c</sup>, Γ<sup>c</sup>→d<sup>r</sup>n<sup>c</sup>, s<sup>b</sup>L<sup>c</sup>h<sup>i</sup>s<sup>b</sup>, qe<sup>r</sup>d<sup>c</sup> d<sup>r</sup>a<sup>r</sup>L<sup>c</sup>**

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Survey instruments including remotes cameras, data loggers and remote operated vehicles	TBD	TBD	data collection
Rotary and fixed wing aircraft	TBD	TBD	Access, drill support
Boats	TBD	TBD	Access, data collection, accommodation
Drill	TBD	TBD	Geotechnical data collection
Snowmobiles	TBD	TBD	Access
Generators and pumps	TBD	TBD	Drill support
•Other additional supporting equipment as required	TBD	TBD	Access and program execution support
Barge	tbd	tbd	Materials and equipment staging and load/offload

[illegible]

<b>ᐱᓇᑦ ᐃᕈᑦ ᐅᔭᑲᕐ ᐸᓄᓂᐳᑦ</b>	<b>ᑖᓄᐃᕋᒃᑎᐃᑦ ᐅᔭᑲᕐ ᐅᔭᑲᕐ ᐅᔭᑲᕐ</b>	<b>ᑖᕐᑯᐃᑦ ᐅᔭᑲᕐ ᐅᔭᑲᕐ ᐅᔭᑲᕐ</b>	<b>ᐆᕐᐃᑦ ᐃᓚᑖᕐ ᐵᕐᐃᑦ ᐅᔭᑲᕐ</b>	<b>ᑖᕐᑎᕐᑐᕐ</b>	<b>ᐆᕐᐃᑦ ᐃᓚᑖᕐ ᐅᔭᑲᕐ</b>	<b>ᐱᓇᑦ ᐃᕈᑦ ᐅᔭᑲᕐ</b>
Propane	fuel	50	100	5000	Lbs	Fuel
Various lubricants, coolants, adhesives, solvents, fuel additives, paint, lab supplies	hazardous	1	1	1	Liters	Drill equipment, sampling equipment and boat operation and maintenance. Volumes and container sizes vary and are to be determined
Drilling fluids and related materials. Additional materials will be required. Volumes and container sizes are to be determined.	hazardous	1	50	50	Lbs	Drilling. Additional materials will be required. Volumes and container sizes are to be determined.
Diesel	fuel	300	205	61500	Liters	Drilling support
Aviation fuel	fuel	300	205	61500	Liters	Heli support





# **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]

See attached Project Description

[illegible]

See attached Project Description

[illegible]

See attached Project Description

### Miscellaneous Project Information

See attached Project Description

[illegible]

See attached Project Description, Impact Assessment and the next tab

## Cumulative Effects

None predicted.

## Impacts

$\mathbb{A}^1_{\mathbb{A}^1} \xrightarrow{\sigma} \mathbb{A}^1_{\mathbb{A}^1} \xrightarrow{\tau} \mathbb{A}^1_{\mathbb{A}^1} \xrightarrow{\rho} \mathbb{A}^1_{\mathbb{A}^1}$

		PHYSICAL																BIOLOGICAL								SOCIO-ECONOMIC						
		Designated environmental areas																Vegetation								Archaeological and cultural historic sites						
		Ground stability																Wildlife, including habitat and migration patterns								Employment						
		Permafrost																Birds, including habitat and migration patterns								Community wellness						
		Hydrology / Limnology																Aquatic species, incl. habitat and migration/spawning								Community infrastructure						
		Water quality																Wildlife protected areas								Human health						
		Climate conditions																														
		Eskers and other unique or fragile landscapes																														
		Surface and bedrock geology																														
		Sediment and soil quality																														
		Tidal processes and bathymetry																														
		Air quality																														
		Noise levels																														
		BIOLOGICAL																														
		Vegetation																														
		Wildlife, including habitat and migration patterns																														
		Birds, including habitat and migration patterns																														
		Aquatic species, incl. habitat and migration/spawning																														
		Wildlife protected areas																														
		SOCIO-ECONOMIC																														
		Archaeological and cultural historic sites																														
		Employment																														
		Community wellness																														
		Community infrastructure																														
		Human health																														
Physical																																
Camp		-	M	M	-	M	-	M	-	-	-	-	-		M	M	M	M	-		M	P	P	-	-							
Biological																																
Aerial surveys		-	-	-	-	-	-	-	-	-	-	M	M		-	M	M	-	-		-	P	P	-	-							
Baseline data		-	P	P	-	P	P	P	P	P	P	P	P		P	P	P	P	-		P	P	P	-	-							
Camp		-	-	M	-	M	-	-	-	M	-	M	M		-	M	M	M	-		-	P	P	-	-							
Drilling		-	M	M	-	M	-	M	-	M	M	M	M		M	M	M	M	-		M	P	P	-	-							
Equipment installation		-	-	-	-	-	P	-	-	-	P	P	P		-	P	P	-	-		-	P	P	-	-							
Fuel and chemical storage		-	M	-	-	M	-	M	-	M	-	-	-		M	-	-	M	-		M	P	P	-	-							
Waste disposal		-	M	M	-	M	-	M	-	M	-	M	-		-	M	-	M	-		M	P	P	-	-							
Marine Based Activities		-	-	-	-	M	-	-	-	M	-	M	M		-	M	M	M	-		-	P	P	-	-							
Socio-economic																																
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-							

( $P = \langle b \rangle_{\mathcal{A} \cap \mathcal{B} \cap \mathcal{C}}$ ,  $N = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$ ,  $M = \langle b \rangle_{\mathcal{B} \cap \mathcal{C}}$ ,  $U = \langle b \rangle_{\mathcal{A} \cup \mathcal{B} \cup \mathcal{C}}$ )



## List of Project Geometries

- |   |         |  |
|---|---------|--|
| 1 | polygon | Grays Bay Road and Port local study area |
| 2 | polygon | GBRP Study Area                          |