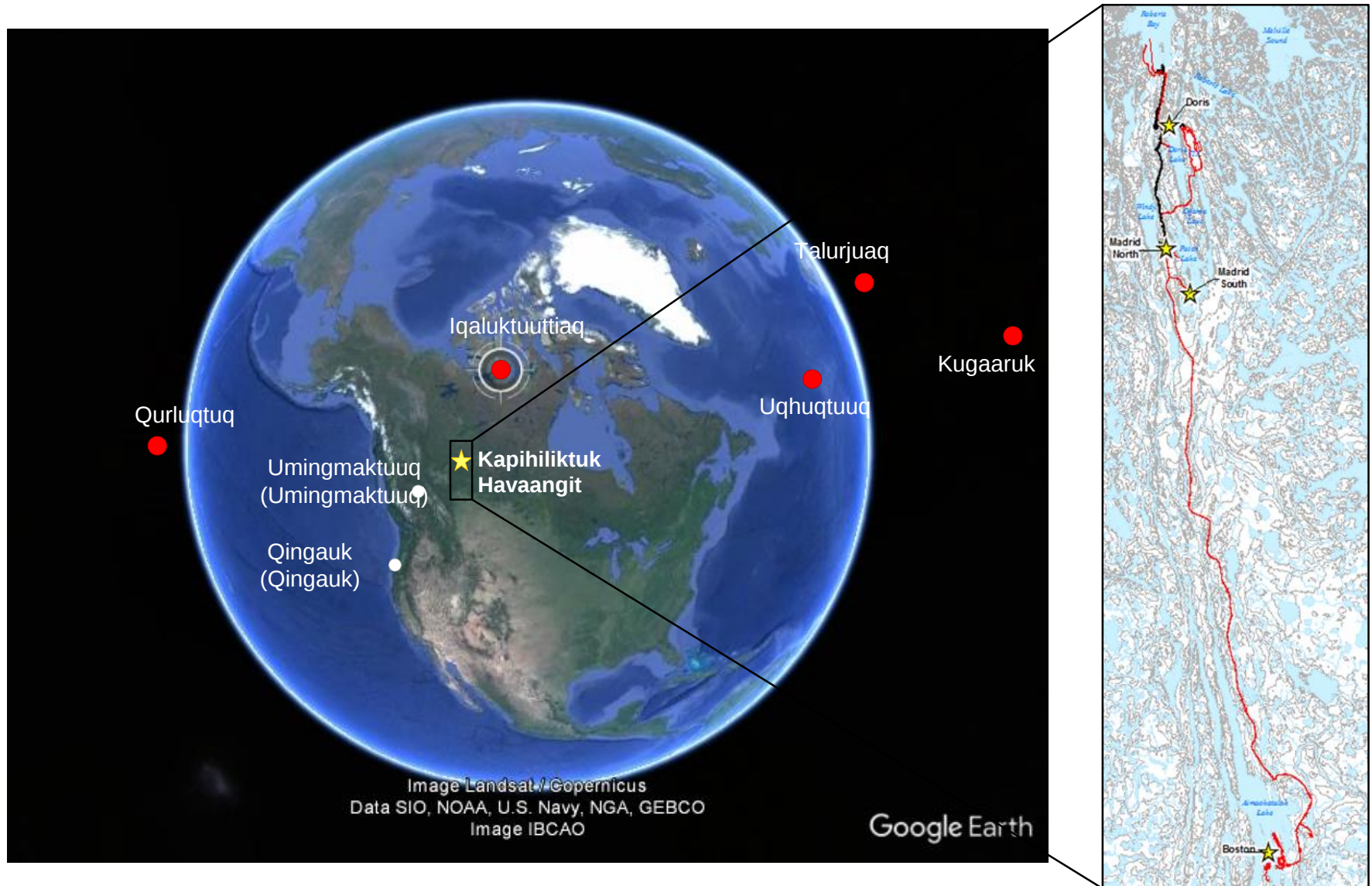




**Nunavut Imaliriyit Katimayit Qauyimattiarnikkut
Katimayut Water
Qiqaiyaluarvia, 2018**

Havaanut Nayugaaniittuq



Angiqtauhimayuq Doris Nuat Havaangit (No.003 unalu 2AM-DOH1323)



Atuqhimayaat Titiqqaitigut Atuqtakhainit unalu Laisikhait - Doris



Havaangit Iltaridjutaat titiqqaitigut

- Titiraqhimayuq 2006 mi, Nuktiqhimayauyuq 2016 mi
 - Pitquivluni Igluliuqtunut. Pivallianikkut, Havaariningit, Umigutaa
 - Avatingnut atauttimuurniq hapumminingit
 - 2000 uqumaidjuhia ubluinnaatigut
 - Ahivariningit imait nakuuyut nakuunngittuluuniit nunamut makhuqtut hila mut Roberts Bay mut

Tukiliutaa A Imarnut Laisia 2AM-DOH1323

- Titiraqtaaqhimayuq 2007 mi, Nuktiqtauhimayuq 2016 mi, Aturnaqhutik hamanngat 2013 mit 2023 mut
 - Imarnut Aturnaqtuq
 - Doris Tahiq - 480,000 m³ ukiungani – Uyaraqtarviuyuq Havaktauhimayurlu
 - Windy Tahia – 22,000 m³ ukiungani - Qanilrua
 - Himmauhiqtauyuq Imaq – umigviittuq – Havaktauyuq
 - 2.5 miliannit uqumaidjuhia Tulagviqarvia
 - Himmauhiffaarnianut Tutquumayangit - \$31 Milian taala

Tamaita auladjutingat malikhimayangit tamainnut Kavamatuqait Nunallaanut maligat maliguarutingillu

- Imaq nakuuyut nakuunngittut nunamut makhaqtut hila mut maliktuq Havigaliit Uyaraqtarviuyuq Makhaqtut Maliguarutit

Amiqhidjutiyanig Naunaipkaiyangillu



- **Imarmiuttat Atuliqtauyunut
Amiqhaidjutikhanut Upalungaiyaut**
- **Avatingnut Atuliqtauningit
Amiqhaidjutigiyanig Piliakhaq**
- **Qanilrukkut tautungnaqtut
Havaqatigiiktut Piliriakhaq**
 - Tukung A Imaup Laisinga – tatqiqhiutigut
 - Tukung B Imaup Laisinga (t) – tatqiqhiutigut
- **NWB Alaraarunmi Unipkaangit**
 - Tukung A unalu B Imaup Laisingik
 - Nutqarutaa Qiqailruq 31 mi

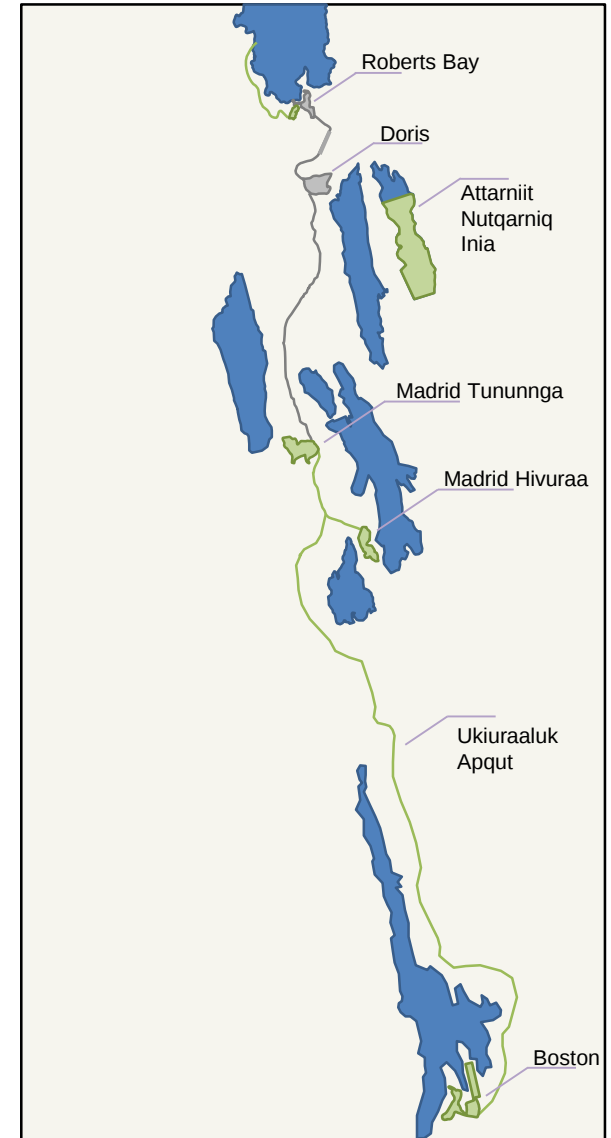
Havaariyakhaat nakuuqpiangit



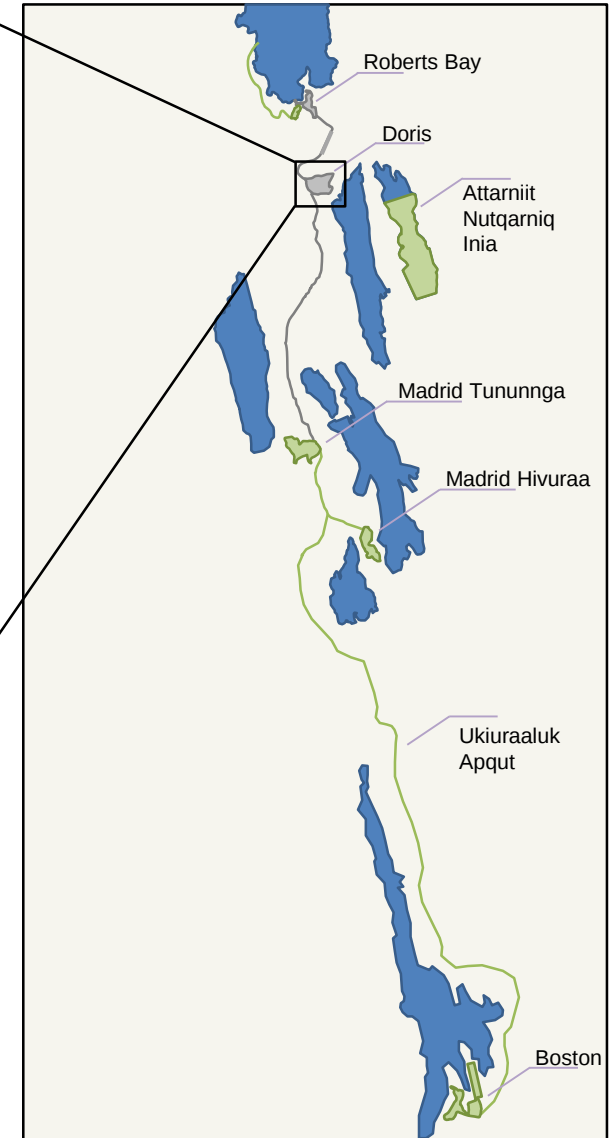
Madrid unalu Boston Nakuuqpiangit

Uyaraqtarviuyuq	• Nunaup iluani uyaraqtarviuyut unalu nanminiriyangit nunat uyaraqtarviniaqtangit himmauhingit
Aulapkaqhimayut	• Qaffiuyungnaqhiyut 6,000 uqumaidjuhianit uyarait havaktauhimayut ubluq atauhiq
Kululiuqhimaningit	• Kululiuqhimaningit Doris mi. Puyulik ihuqhiyut angiklivaktut uvani Madrid Tununnga Boston milu
Agyaqtuiniq	• Umiakkut agyaqhiyut tikitpaktuq Roberts Bay atuliqhugulu agyaqtuiyut tulagvinga apurvingalu • Kulu iluittuq tingmiyauvaktut maniliurahuagtunut • Apqutit katilviuyut Madrid unalu Boston uvunga Doris unalu Roberts Bay
Havaarniq	• Tingmiyut utiqtaqtut hamanngat Edmonton mit Qitirmiunnut • 870 havaktiit havagluaqtut aulattittigaangat (qaffiuyungnaqhiyut 14 nit ukiunganit)
Havaatigut Ikayuuhiat	• Avvaqhautiit, uyararnut taaksiit aallat akiliakhait qaffiuyungnaqhivat \$500 milian taala qaangiqhimalugu Kapihiliktuk Havaangit inuudjuhia uumani Kanata, Nunavut, KIA unalu NTI (Doris ngungittuni)

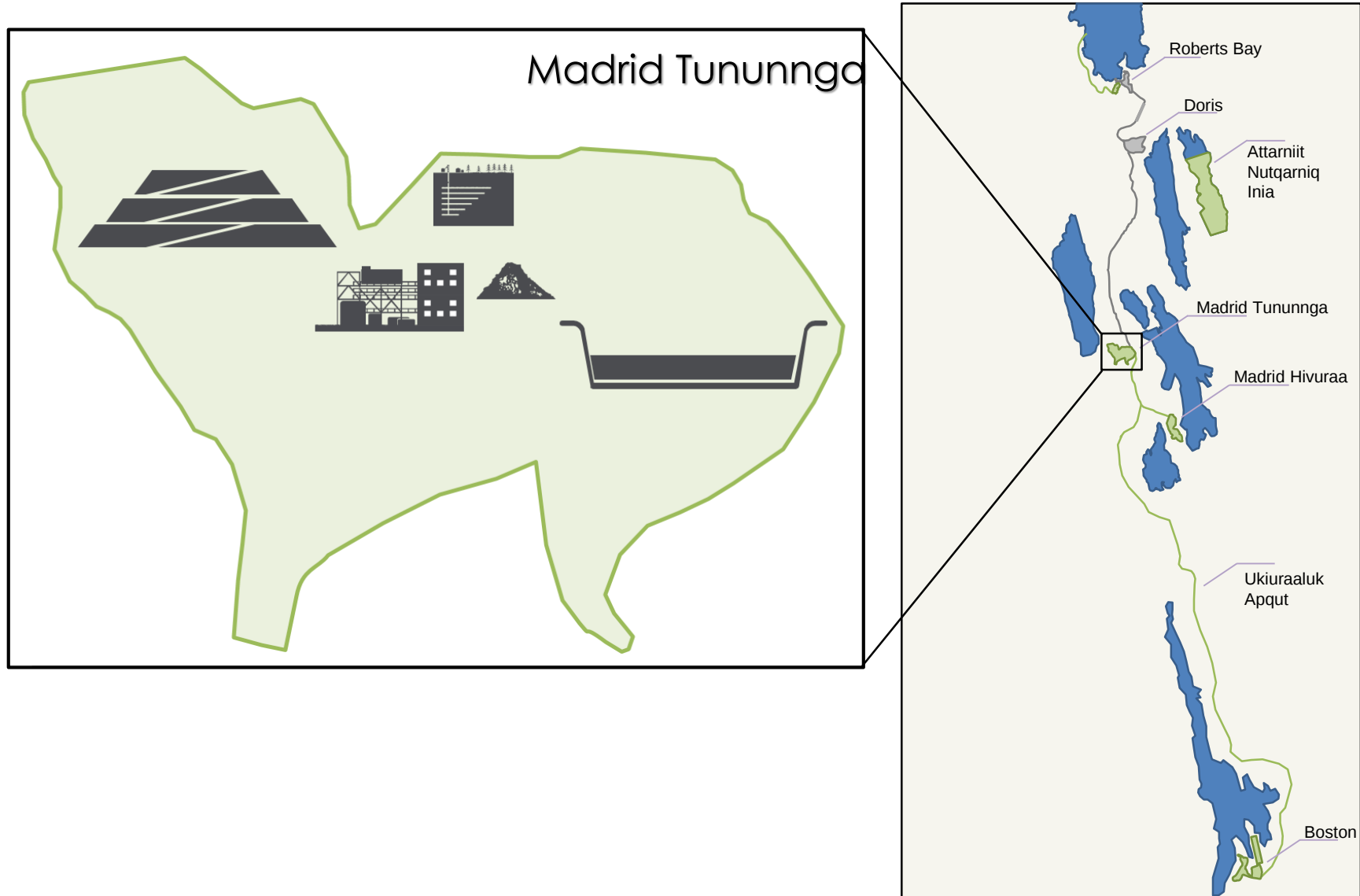
Kapihiliktuk Havaakhanut Tulagvia



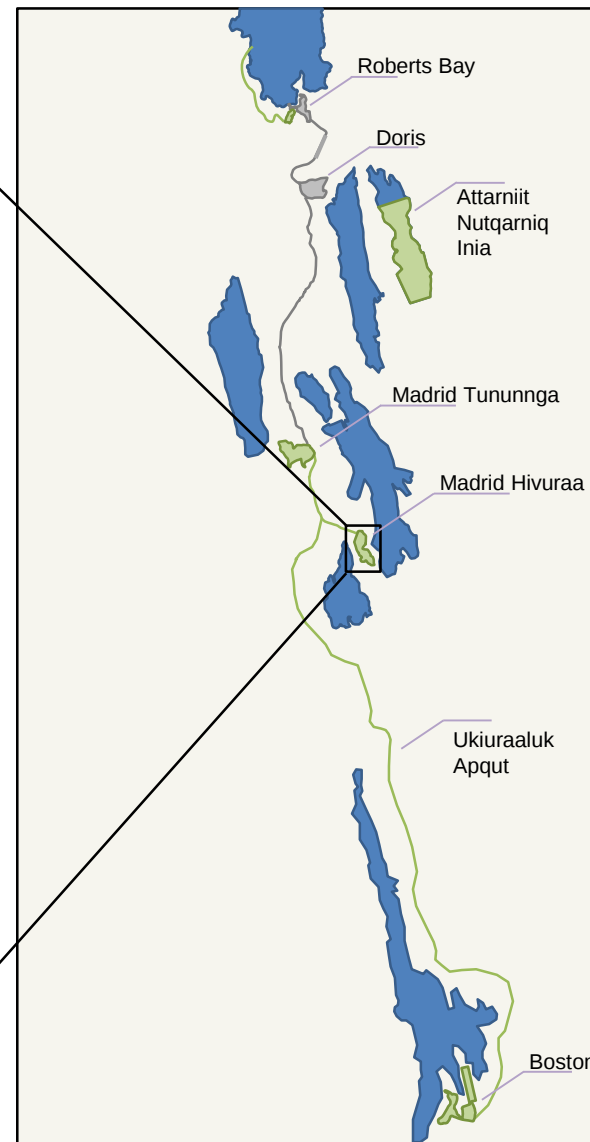
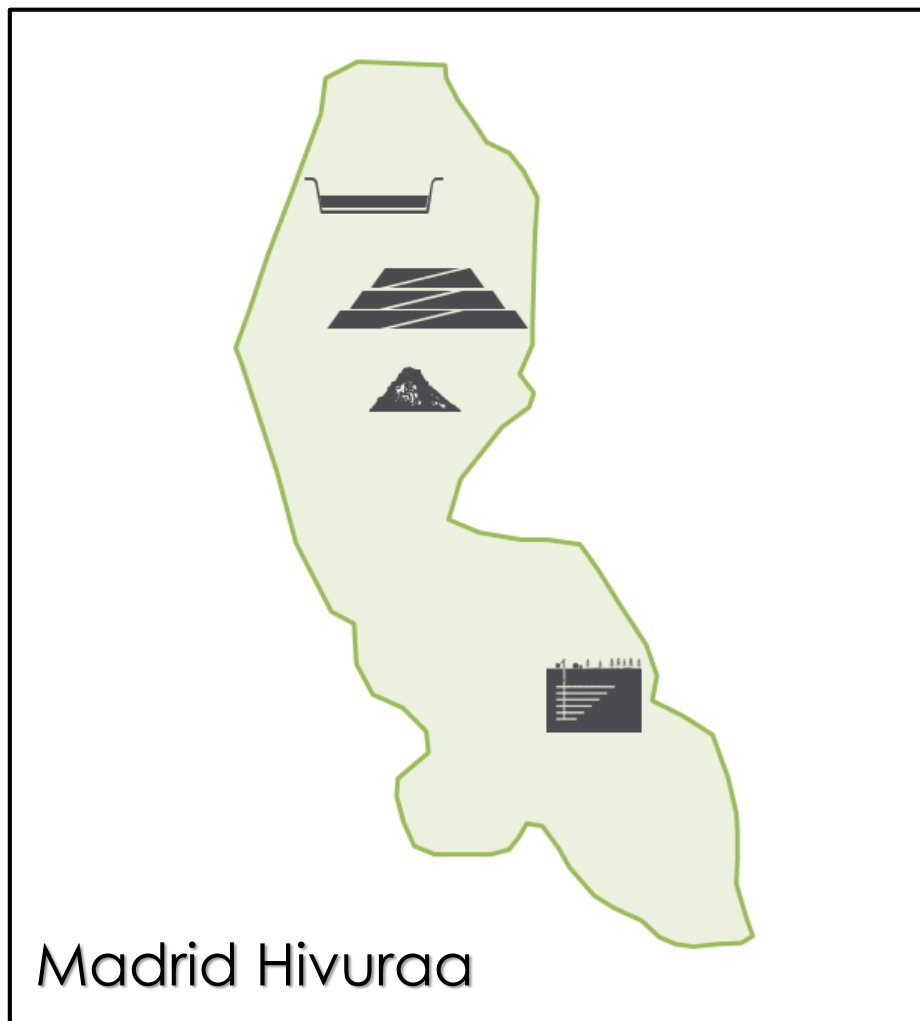
Kapihiliktuk Havaakhanut Tulagvia



Kapihiliktuk Havaakhanut Tulagvia



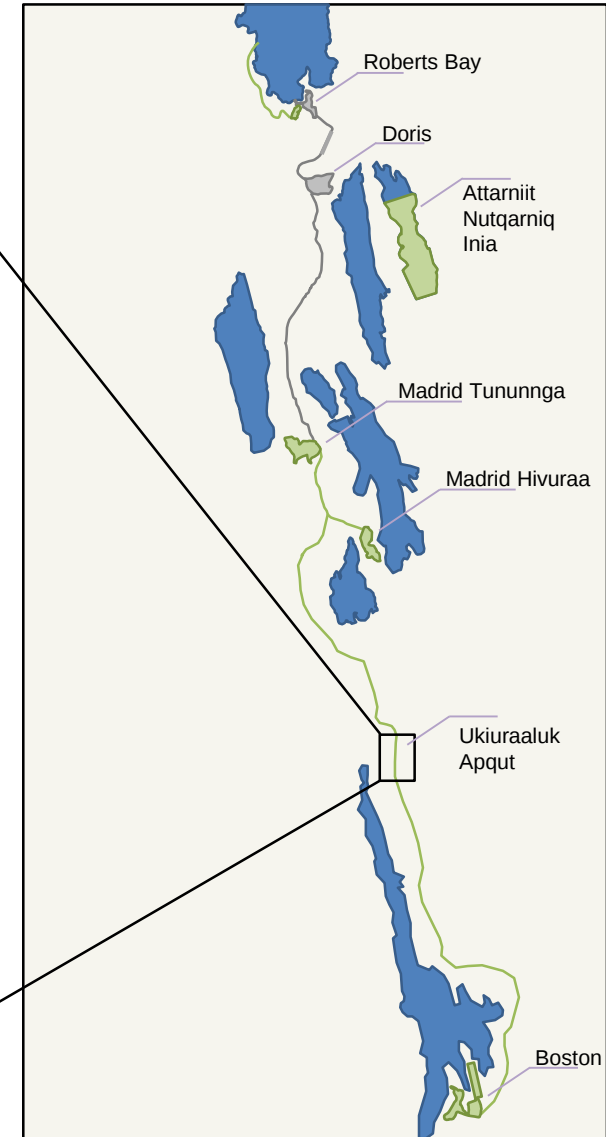
Kapihiliktuk Havaakhanut Tulagvia



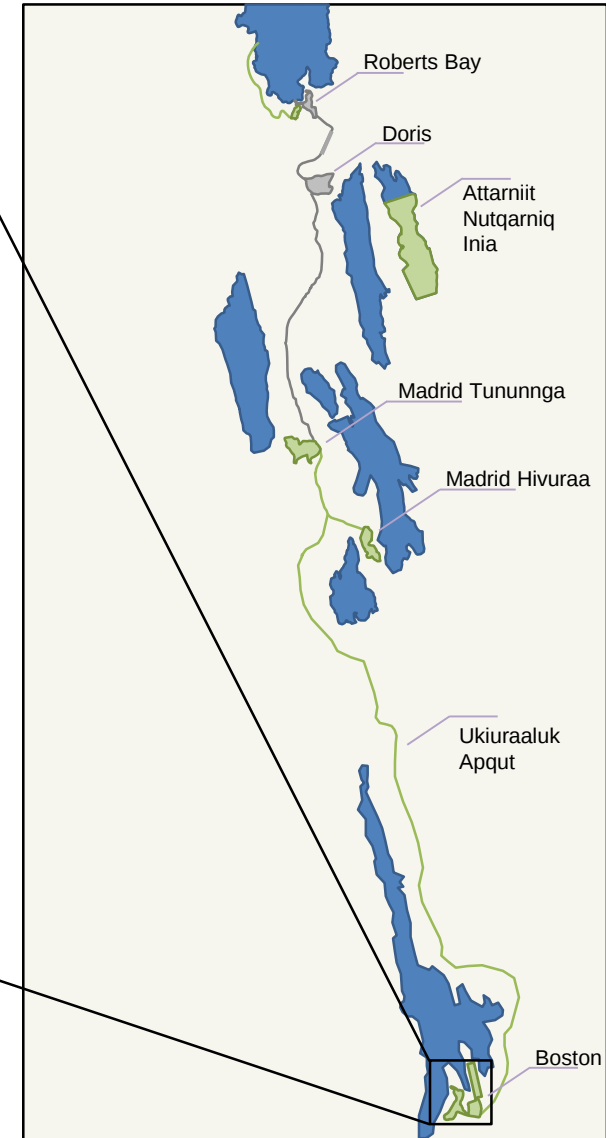
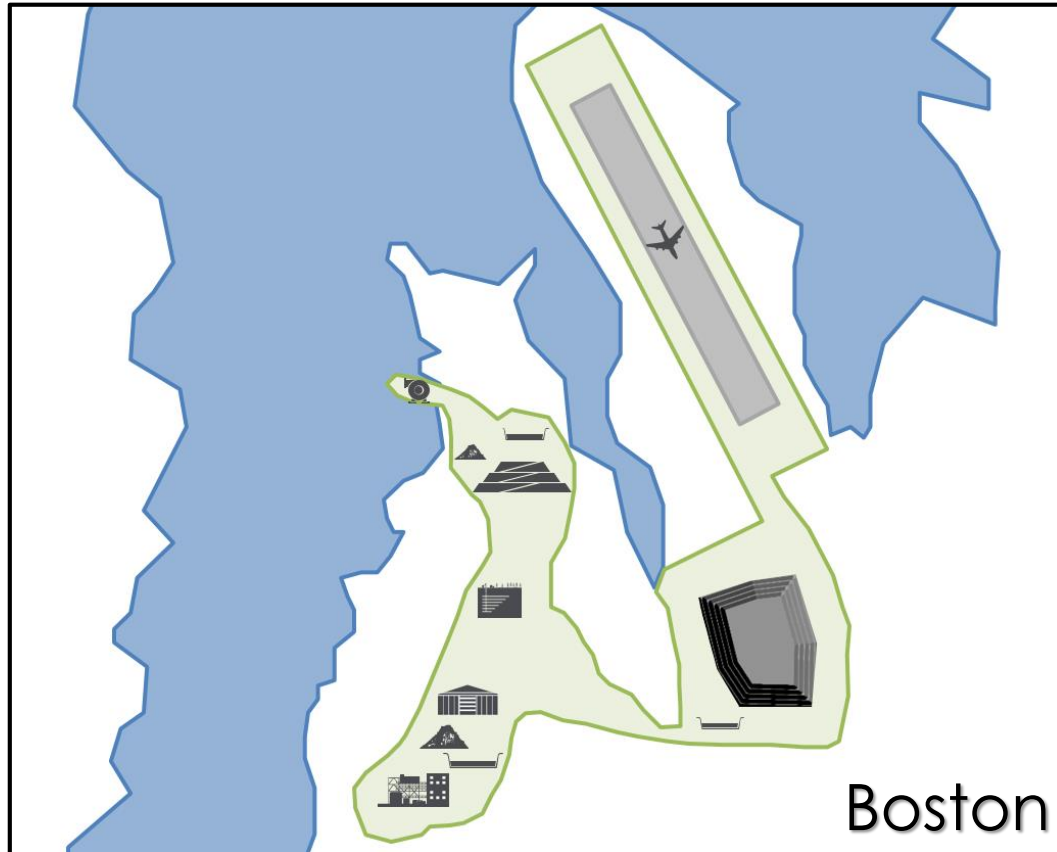
Kapihiliktuk Havaakhanut Tulagvia



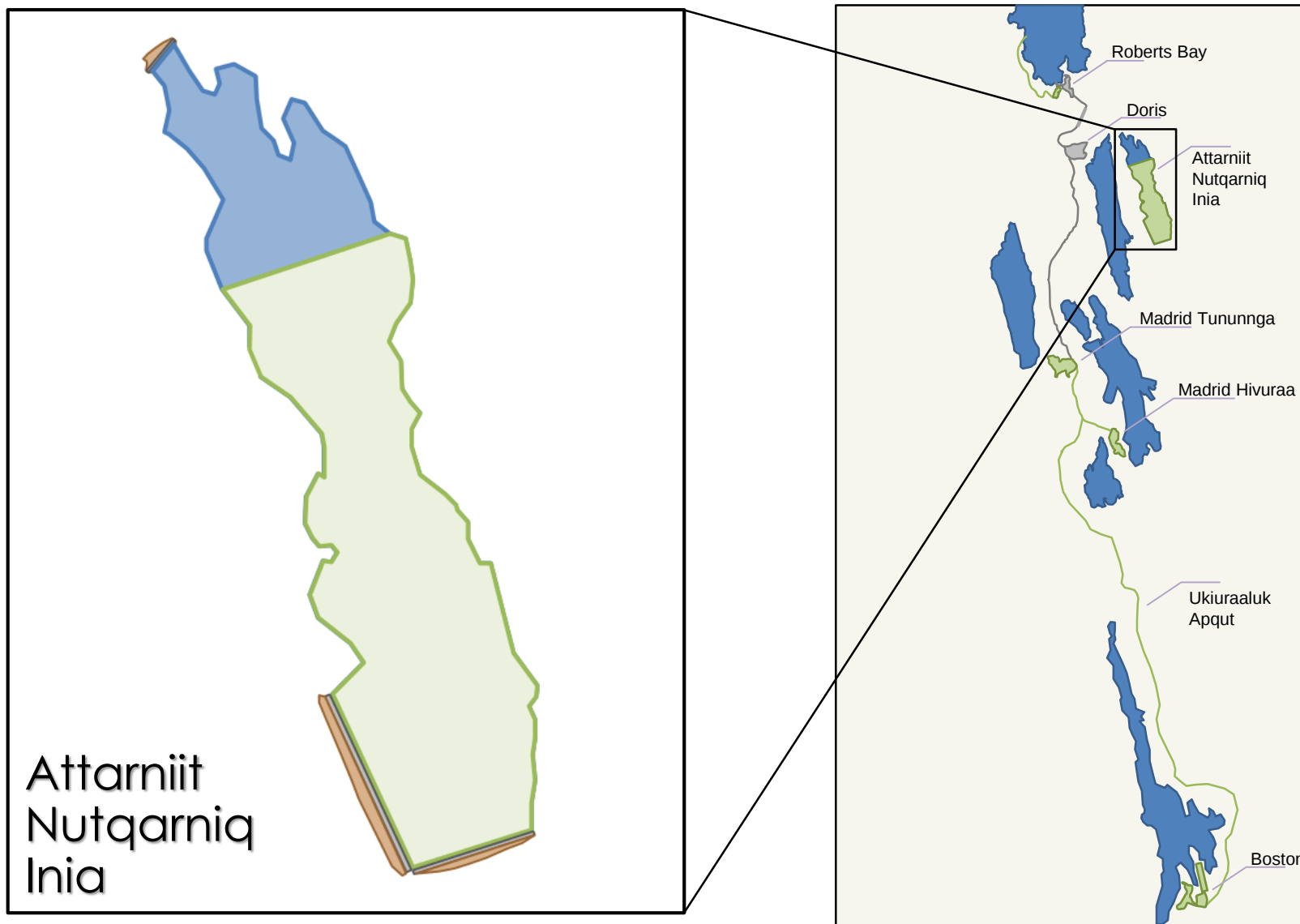
Ukiuraalungmi Apqutaa



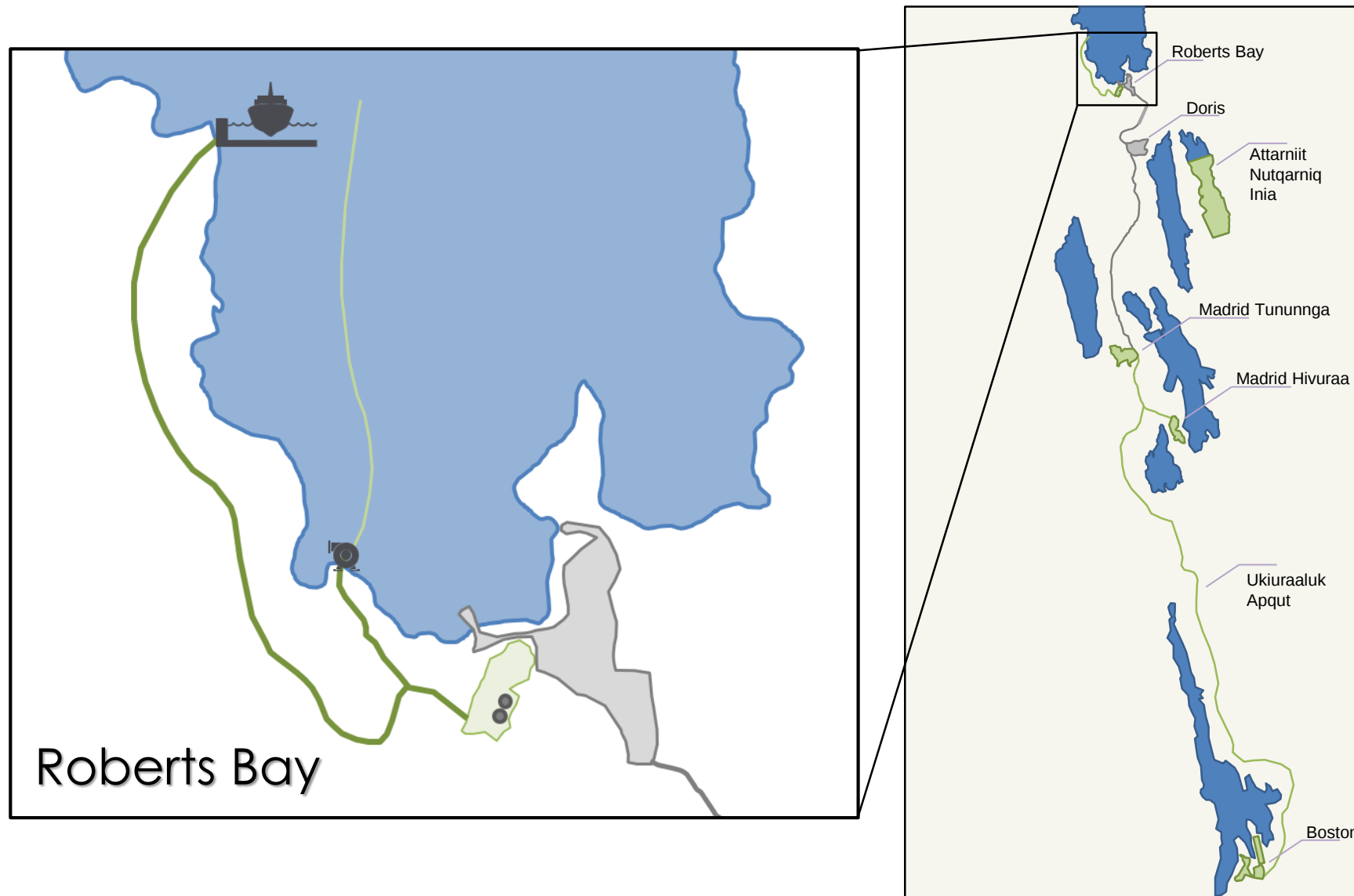
Kapihiliktuk Havaakhanut Tulagvia



Kapihiliktuk Havaakhanur Tulagvia



Kapihiliktuk Havaakhanur Tulagvia



Tukhiutigiyangit Aallannguqtiqhimayauyuq Nampangit 2 Tukinga



- **Hivunikhangit ilaliutigiyangit Doris, Madrid Nayugaat Ukiuraalungmi Apqutingit atuqpagaat**
 - Angikliktiqhimayuq 2AM-DOH1323
Aallannguqtiqhimayauyuq Nampangit 1
aulapkaivigivluniuk iluani Laisiata hivunikhangit tamainnut
uyaraqtarviit igluata huliyangillu aulapkaihimayut
malikhugu Tukinga B Laisiata 2BB-MAE1727
 - Nayugaat Havagviita Iningit – 400 inuit
 - Angikliktiqhimalu TIA inikhangit uvunga 18 milian
uqumaidjuhanit
 - Imaup Atauttimuurniq:
 - Qanilruani hamannat Windy Tahia: 43,800
m³/ukiungani
 - Havagluarningit hamannat Doris Tahia:
1,930,000 m³/ubluinnaani
 - Nalunaiyarvik uvani Madrid
 - AWR uvunga Boston
 - **Pilaaqhuni maniliuqtut uyaraqtarvik**

Havaanut Titiqqangit Iltaridjutaa unalu Boston Tukung A Imaup Laisiata

- **Hivunikhangit:**
 - Hanalutik aulapkailugulu Boston Nayugaanit
 - Hiniktaringit Iningit – 300 inungnit
 - TMA (aka TIA) iniaqtuq of 5.1 milian uqumaidjuhia
 - Imaup Atauttimuurniq:
 - Qanilruani hamannat Aimaokatalok Tahia 33,000m³/ukiukkut
 - Havagluarningit hamannat Aimaokatlok Tahia 450,000m³/ukiukkut
 - 2400 t/d havaktauringit
 - Aturnaqtuq imaup aturningit, huruqhimaningit munaqhiiyangit unalu havakhimayaat tamainnut nunaup qaangani igluqpaqarvikhanut
 - **Aaturnaqtuq maniliurahuarnikkut uyaraqtarviuyut**

Umigutaa Himmauhiuyut

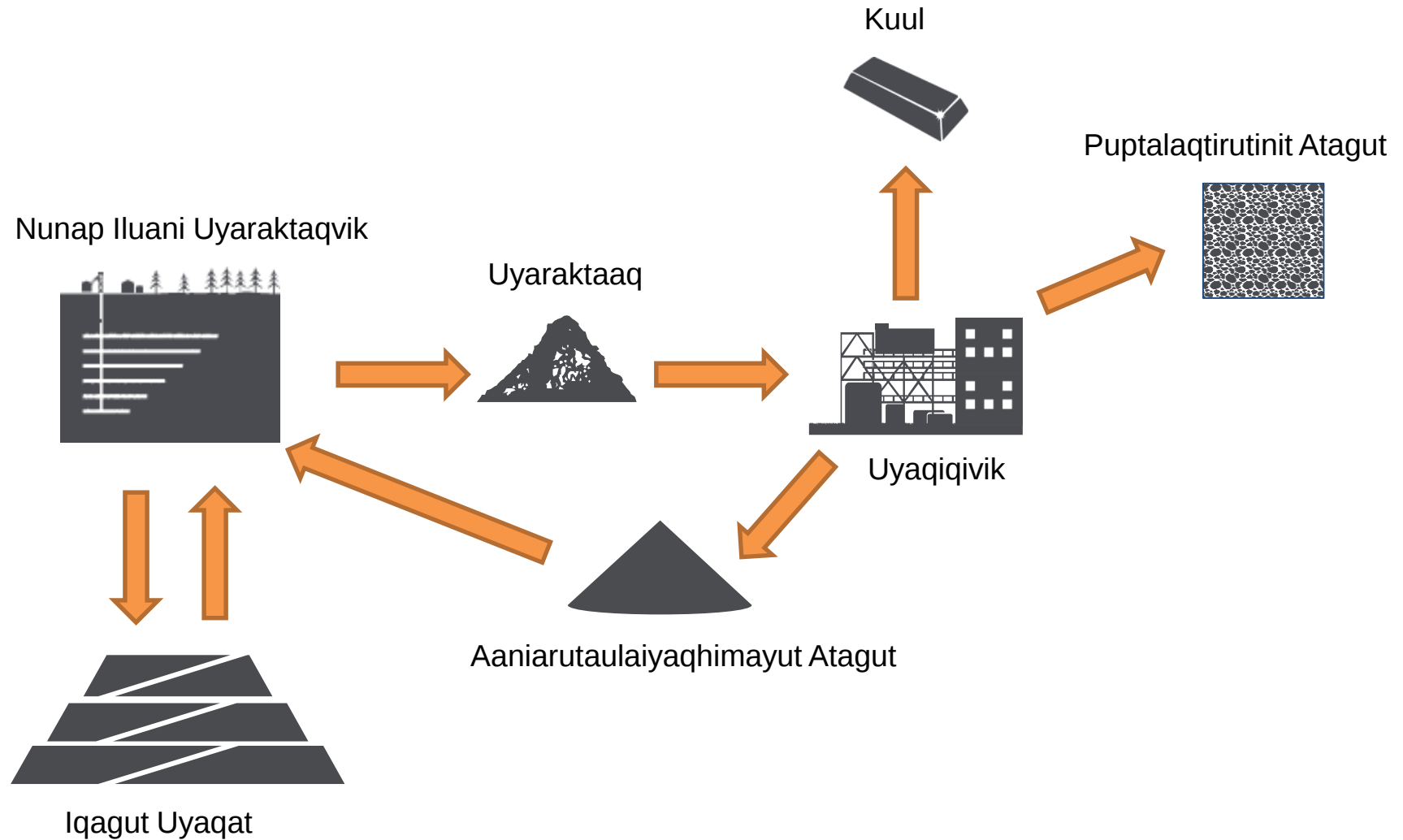
- Doris-Madrid Nutqallakhimaningit Himmauhiqtuiningit Upalungaiyaut nutaannguqtiqtauhimayuq
- Boston Ihumaliuqtaaqtangit Umigutaa Himmauhiurvikhangit Upalungaiyautingit havaktaaahimayangit
- Tamainnut hivunikhautikhangit uumani umigutaanit upalungaiyaahimayangit uvani Kapihiliktuk:
 - Timiutigut Naamangniq
 - Ilauruhiutigut Naammangniq
 - Hivuani aturnarniq hivunikhaliurutingit
- Upalungaiyarniq ilaliutigiyangit kiglingit kangiqhiplutik maniliqinirnut naammagiyarniq



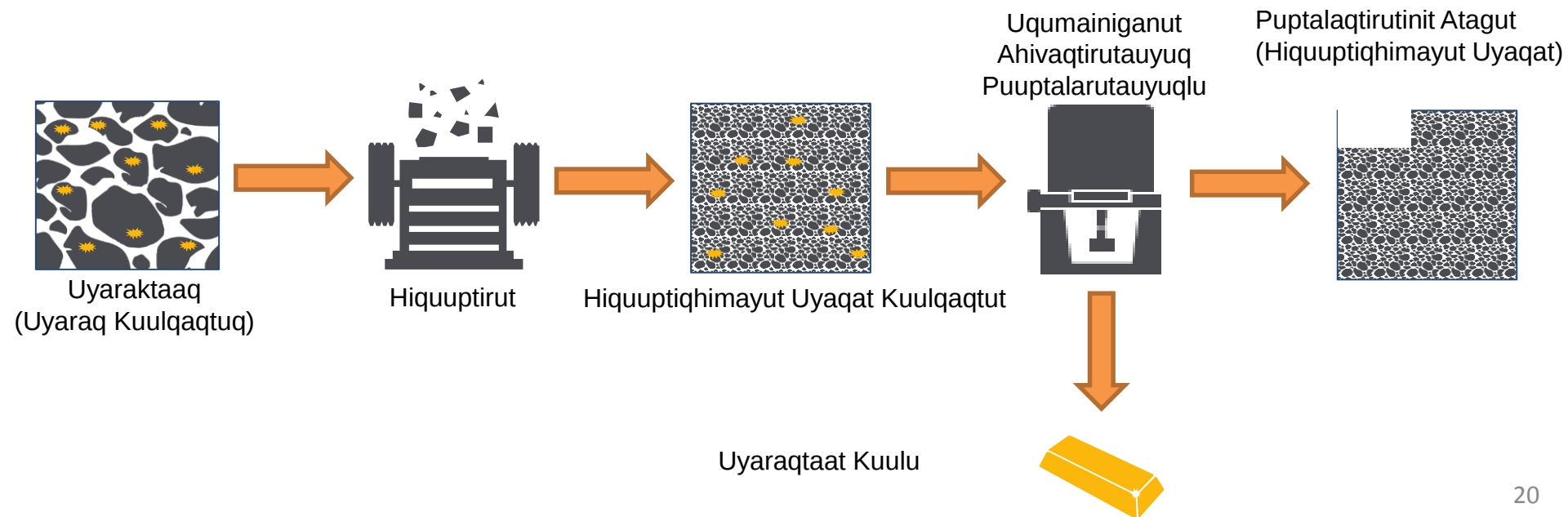
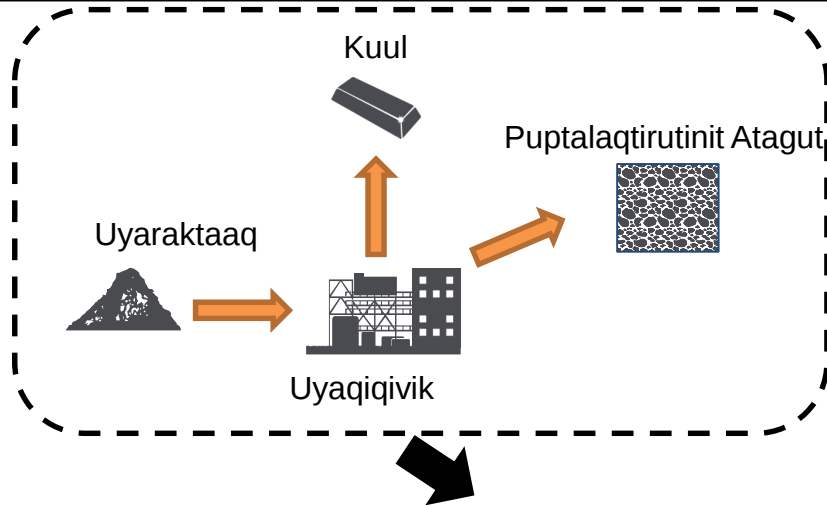


**Ataguut Iqaguniklu Uyaqanik
Munarijutit**

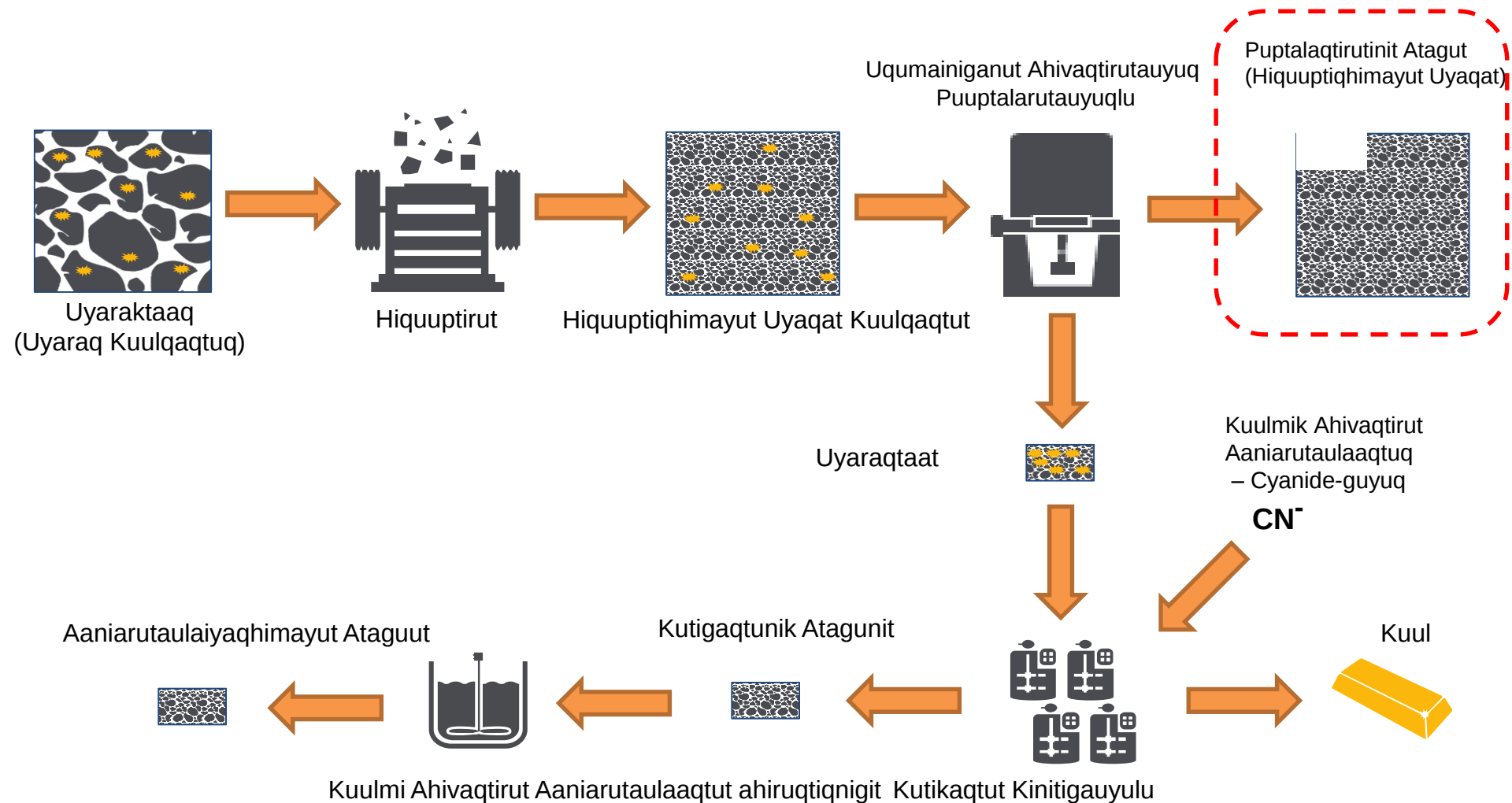
Ataguut Iqagulu Uyaqat



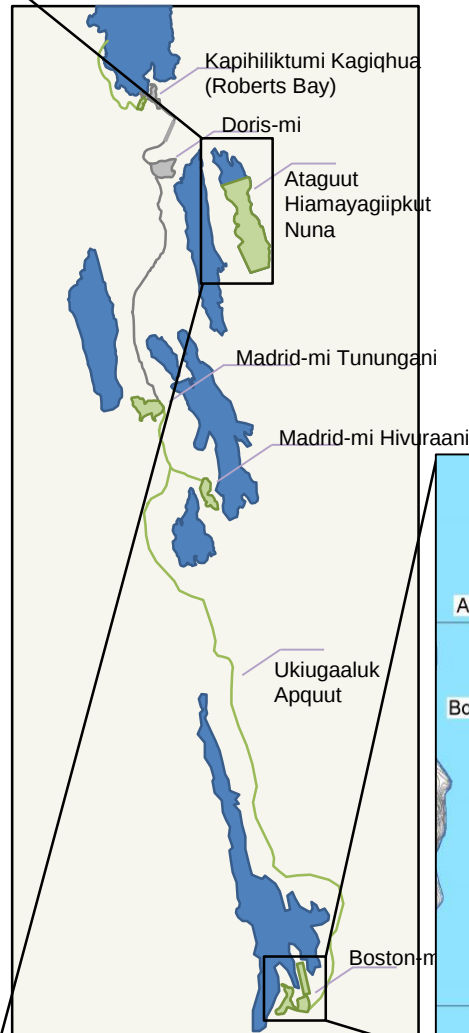
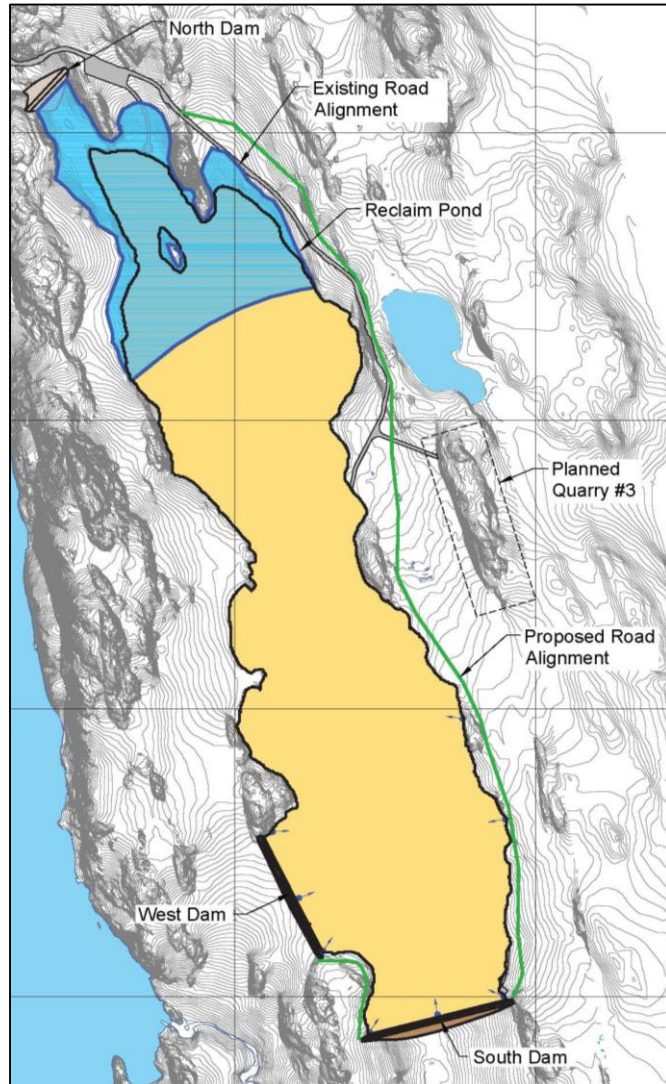
Puptalaqtirutinit Atagut



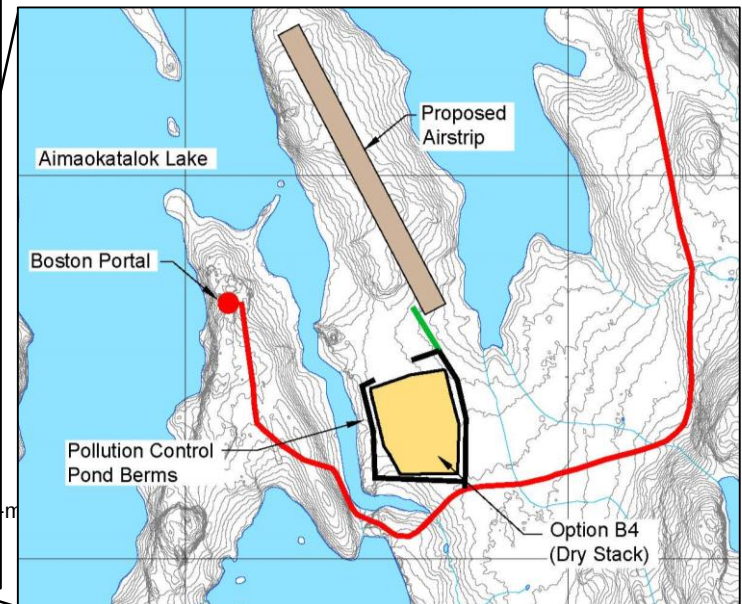
Aaniarutaulaiyaqhimayut Kutikaqtunik Atagunit



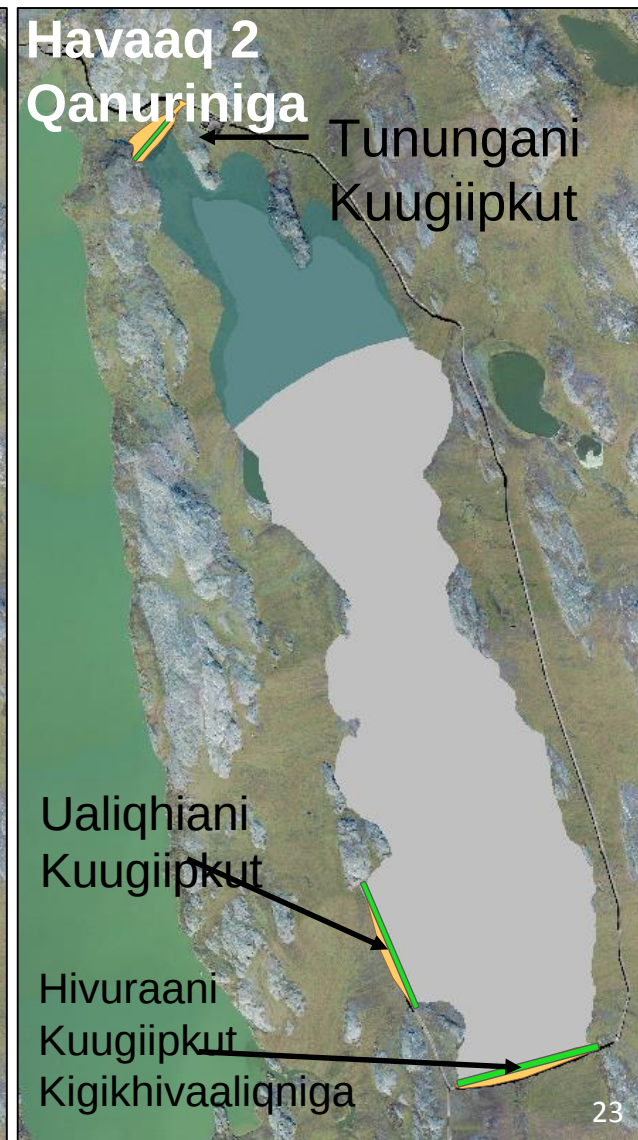
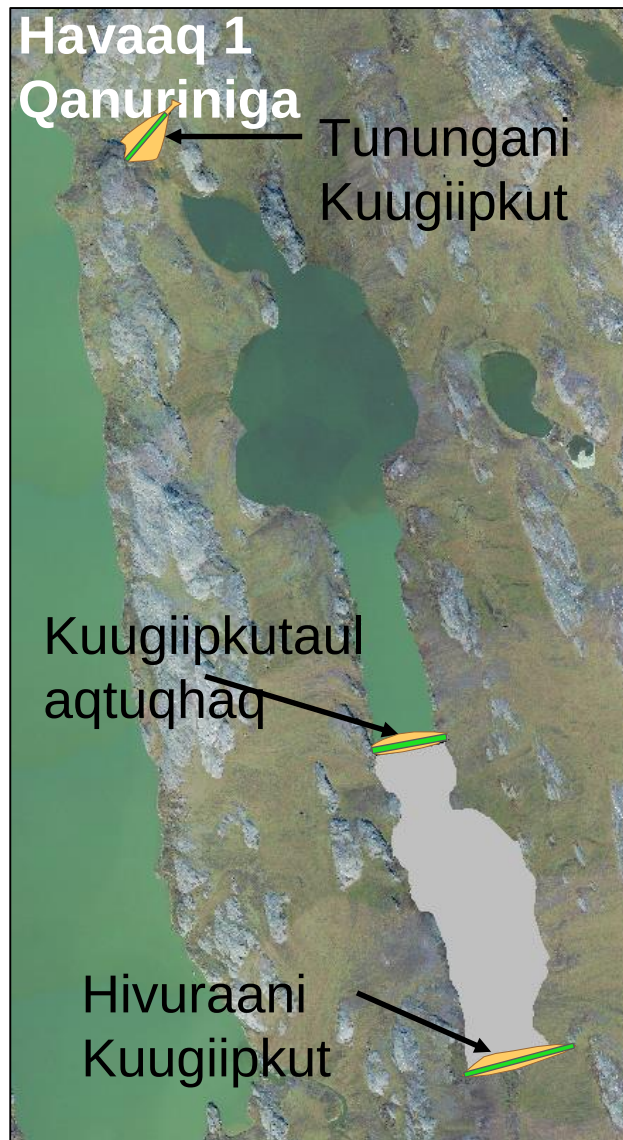
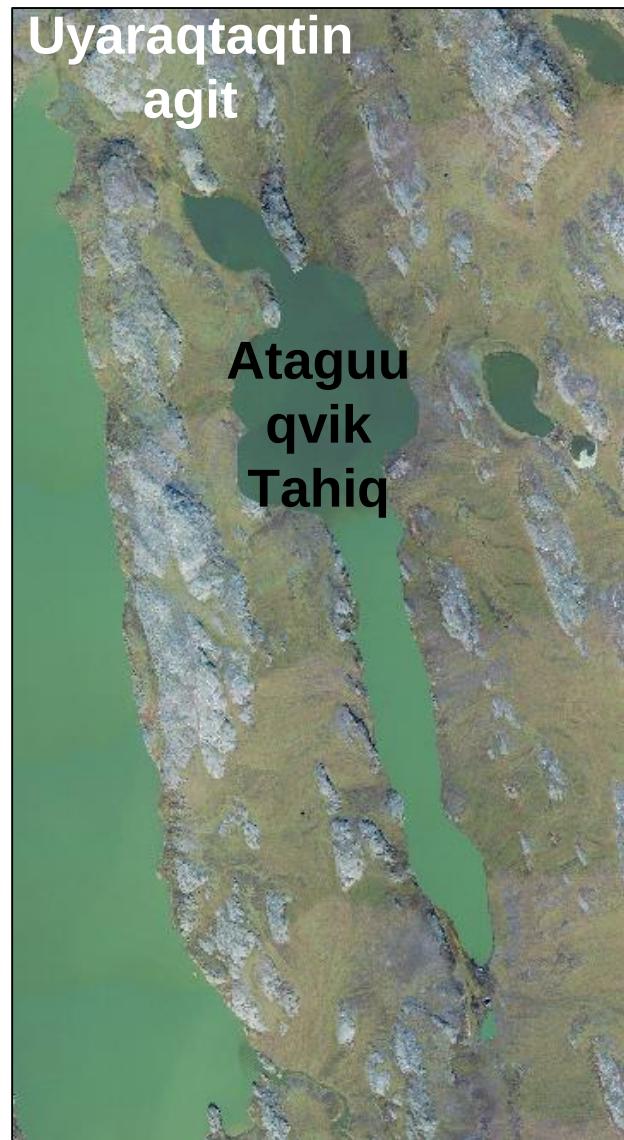
Ihivriuniga Atakuuqvik Munarinigagut



- Doris -mi Atuinagtunik Ataguuqviknik Nuna
- Boston –mi Paniumayut Qaliriiktiqhimayut Atagunik Munarijutinut Nuna



Atagunik Hiamayagiipkut Nuna – Doris-mi



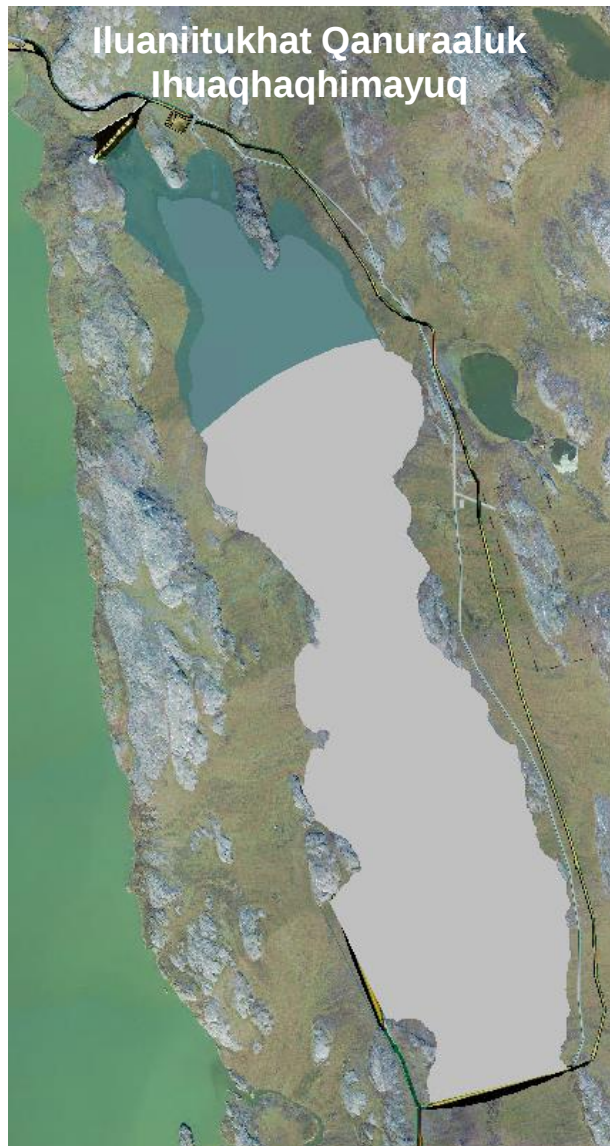
Tunuungani Kuugiipkut



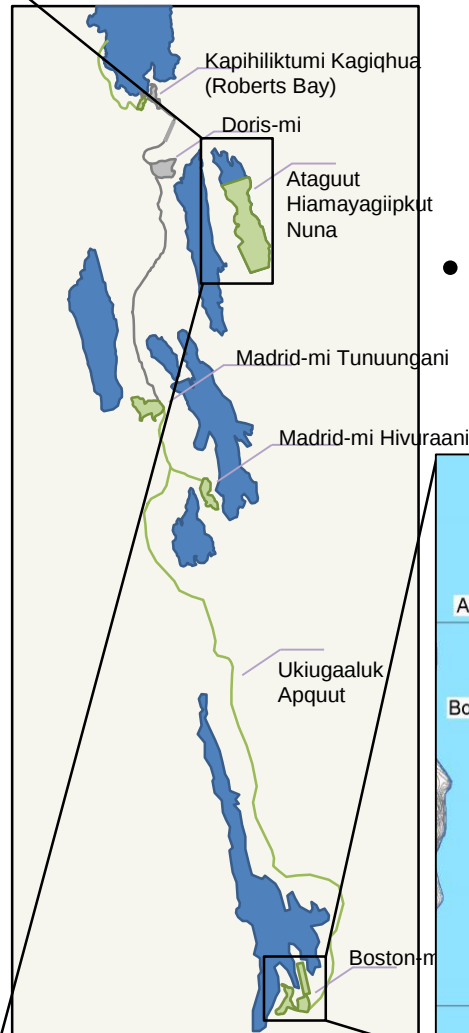
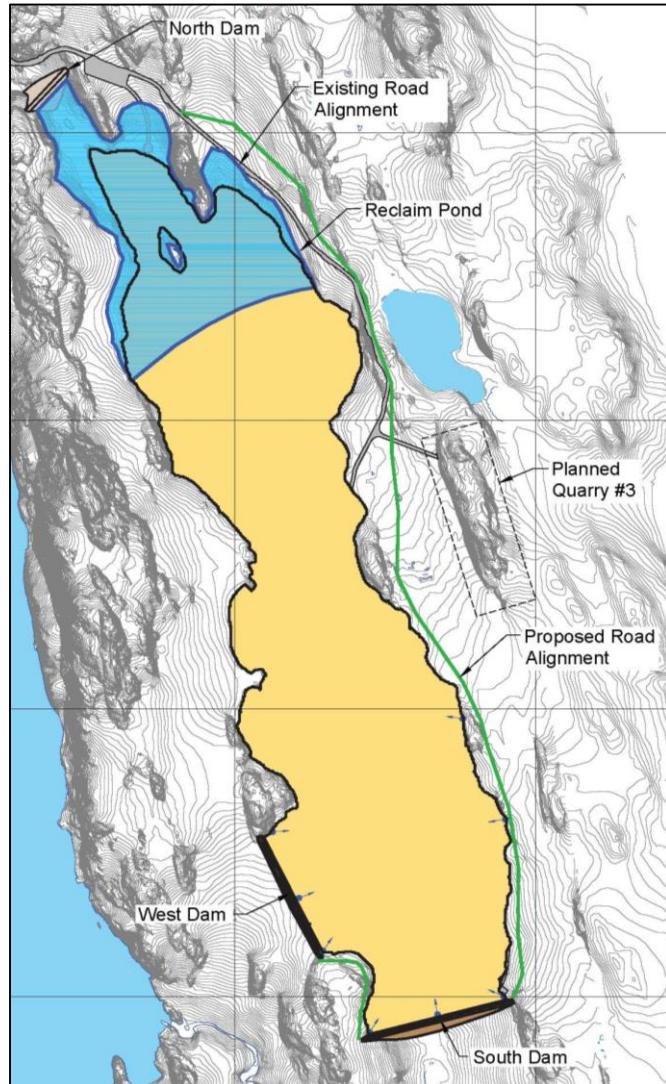
Hivuraani Kuugiipkut



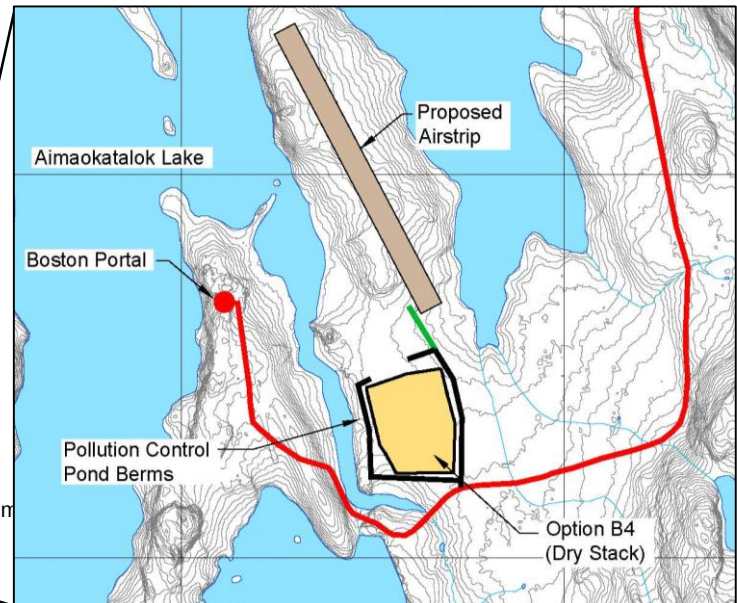
Atagunik Hiamayagiipkut Nuna – Umiknigani



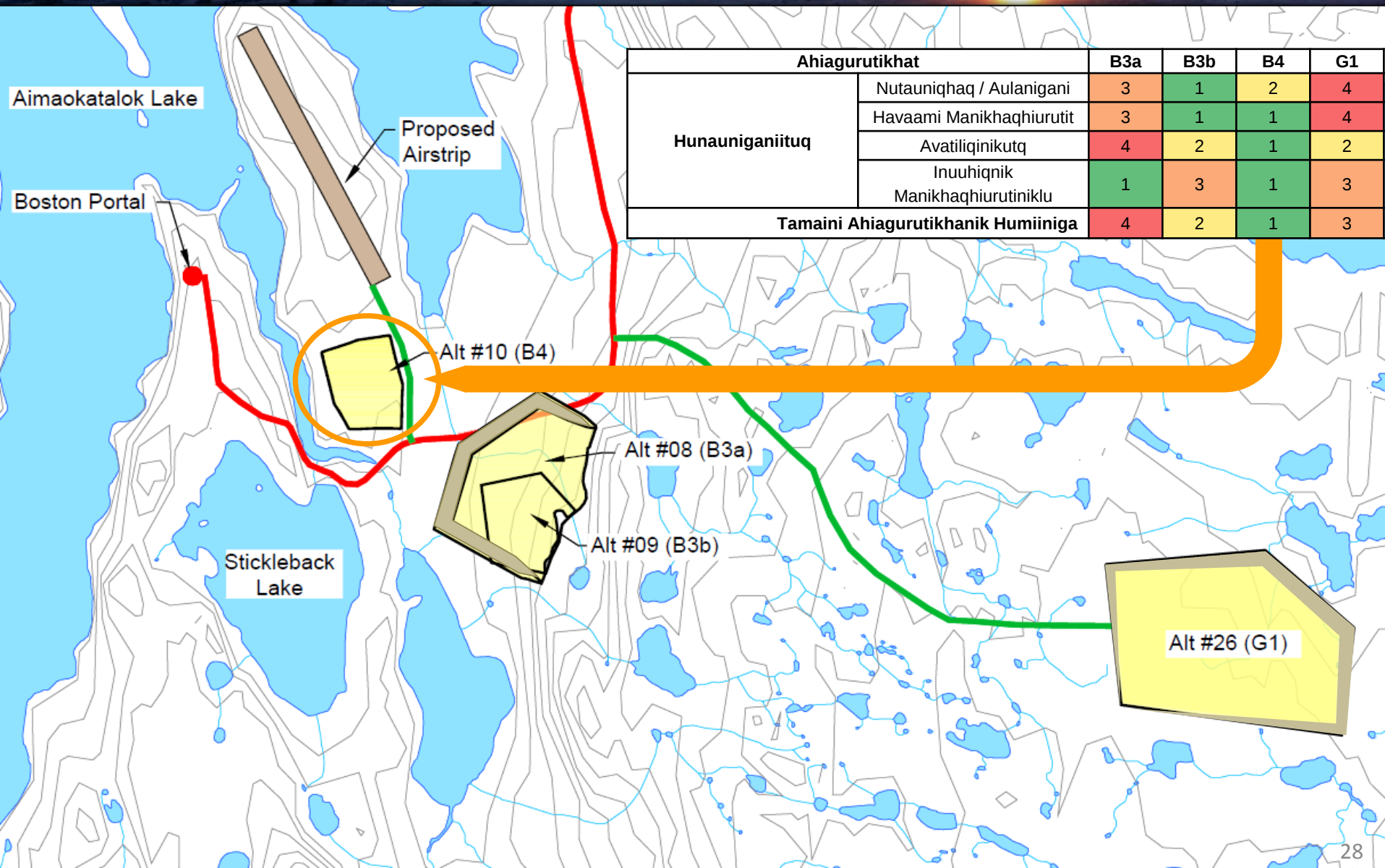
Naitumik Uqauhiq Ataguut Munarinigagut



- Doris – Conventional Tailings Impoundment Area
- Boston – Dry Stack Tailings Management Area



Ahiagurutikhanik Ilituqhainiq – Boston-mi

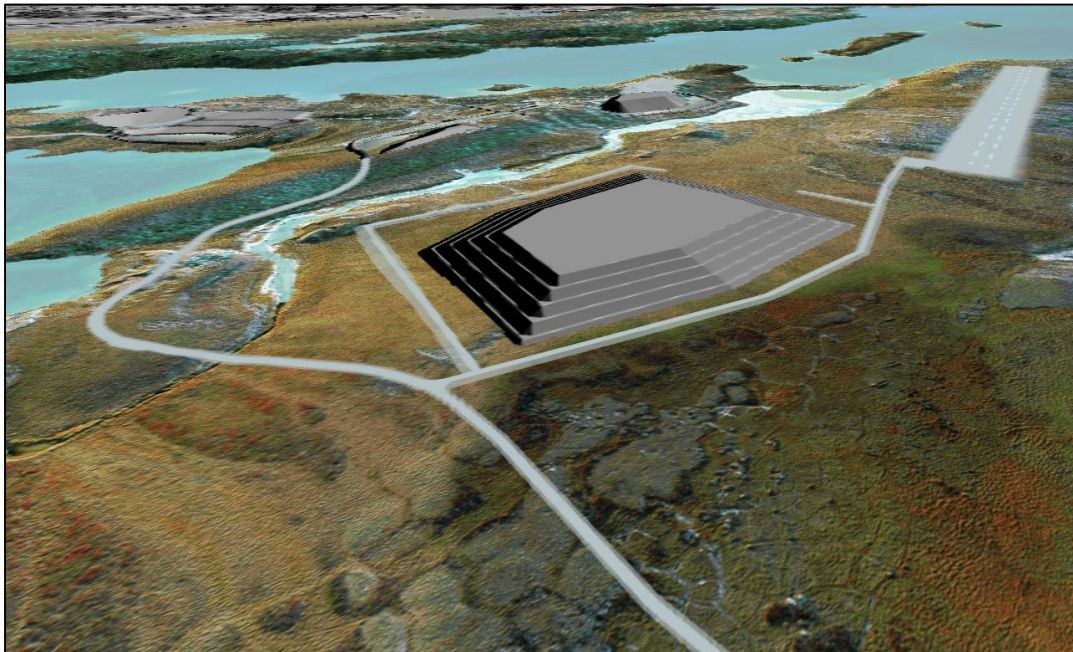


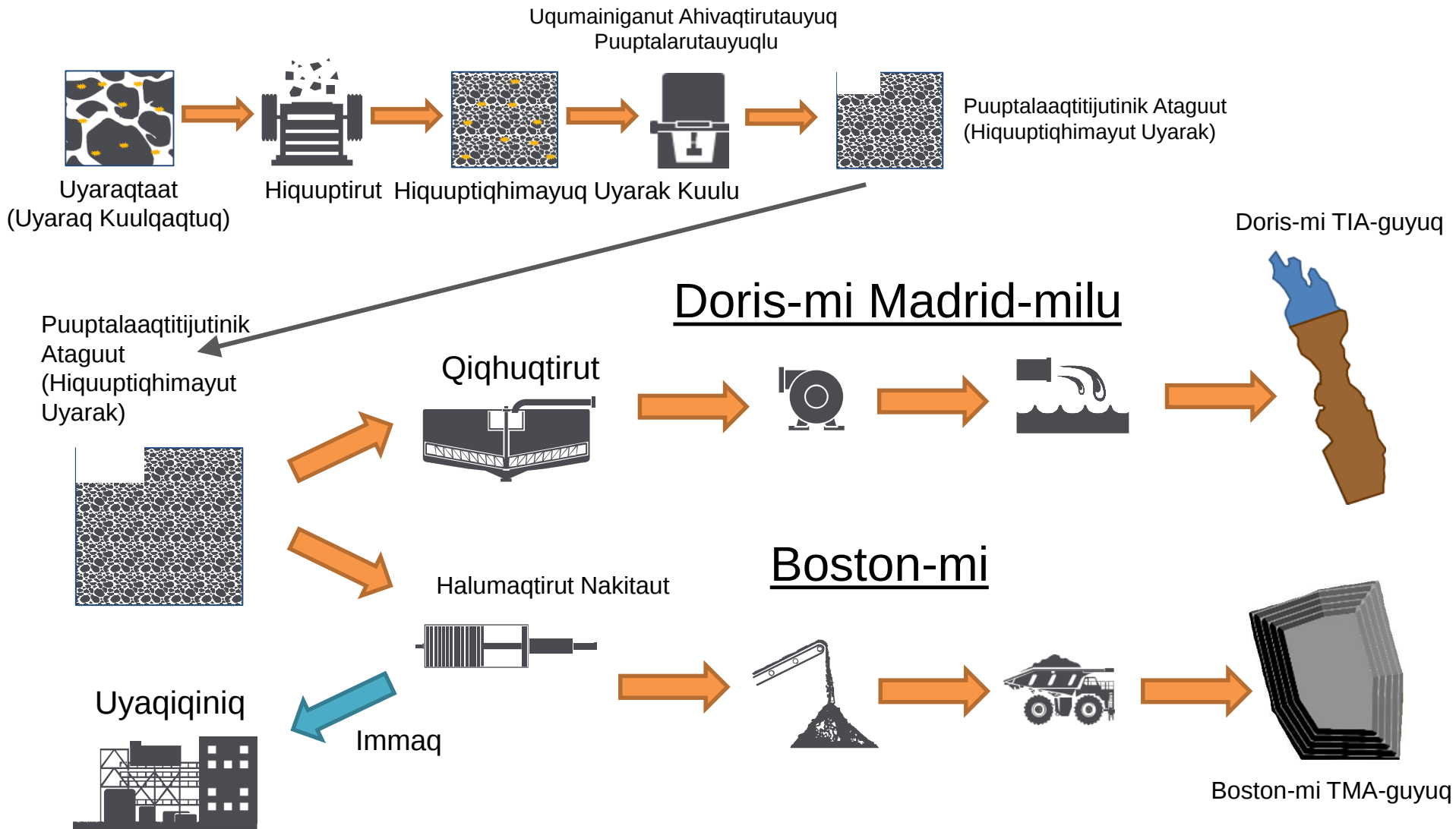
Ataguut Munarinigagut Nuna – Boston-mi



Ataguut Munarinigagut Nuna – Boston-mi

- Halumaqtigauyut Ataguut
- Akhaluutit, Pualriyautit, Qiqhuqtirijutit
- Qaliriilaaqtut Ilaliutilaaqtulu
- Ajikutait ukua:
 - Raglan-mi
 - Fort Knox-mi
 - Pogo-mi





Hiuraliaq Puyuqniganik Munarijut



<https://www.polymerinnovations.com.au/solutions/road-stabilisation/>

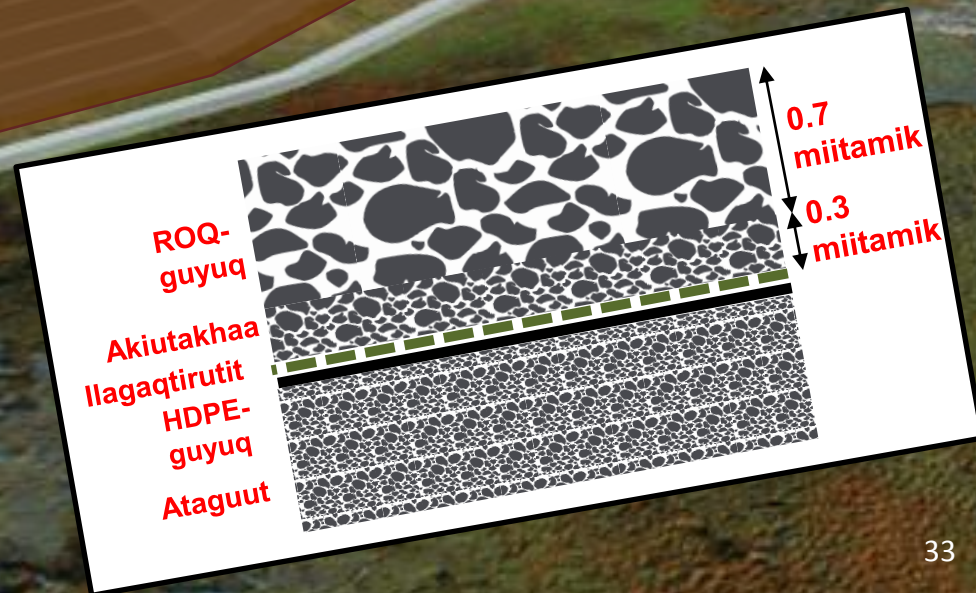
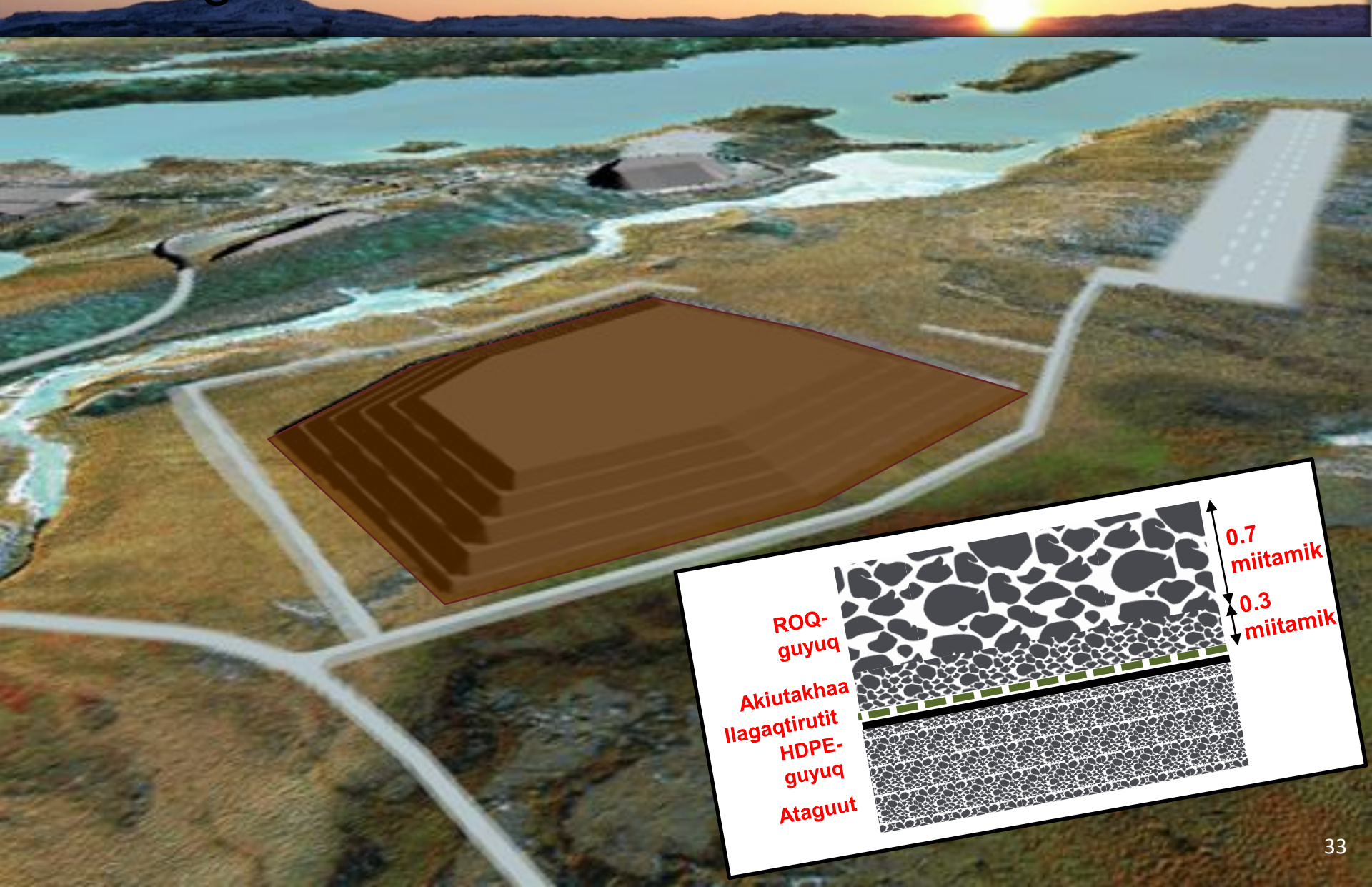


<http://www.monitoringagency.net/PhotoGallery/tabid/93/Default.aspx>



<https://www.cooperfluidsystems.com.au/index.php/products/dust-suppression>

Atagunik Munarinigagut Nuna – Boston Umiknigani



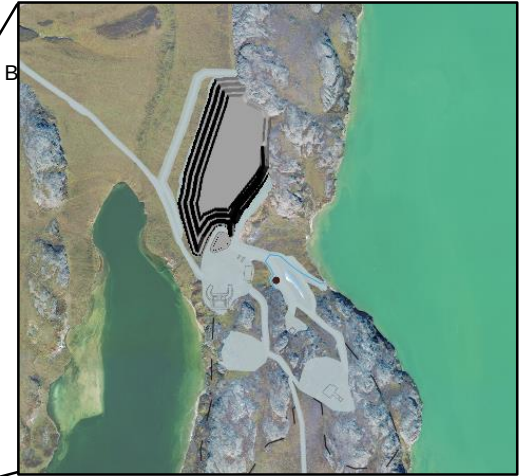
Naitumik Uqauhiq Iqagunik Uyaqanik Munarijutinut

Atulaktuq Iqagut Uyaqat Uhiyaqviit

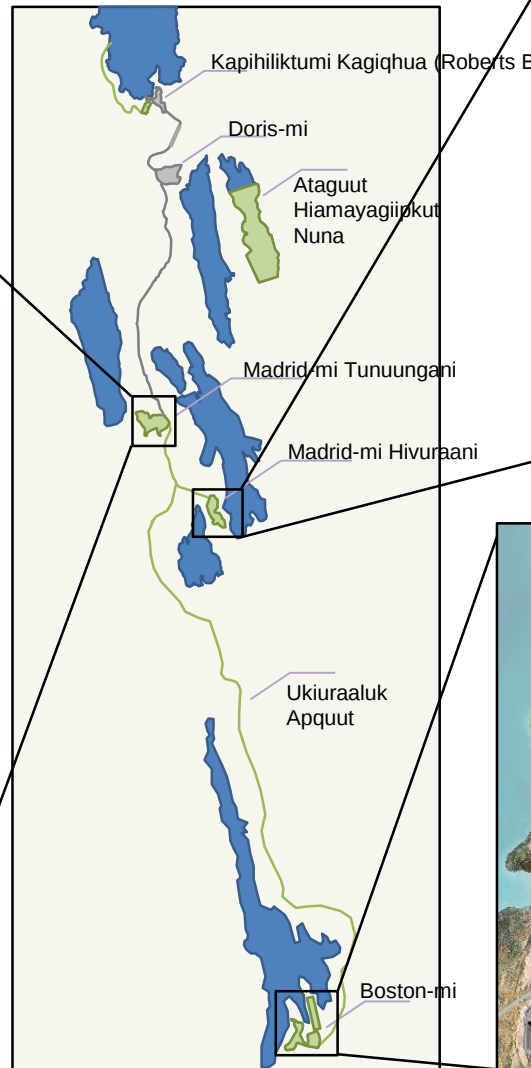
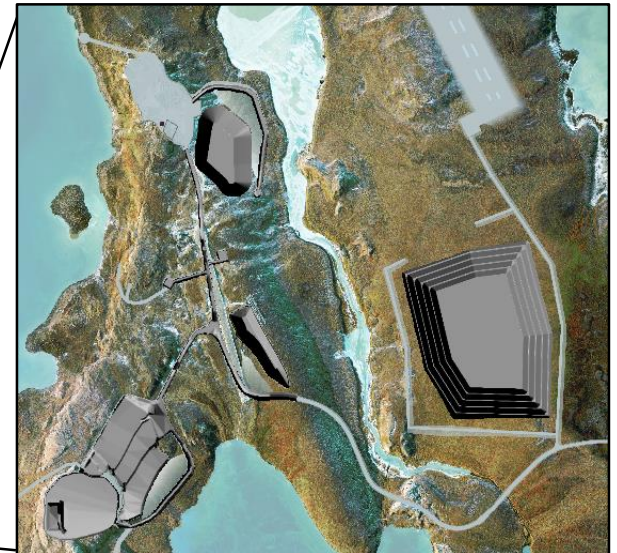
Madrid-mi



Madrid-mi



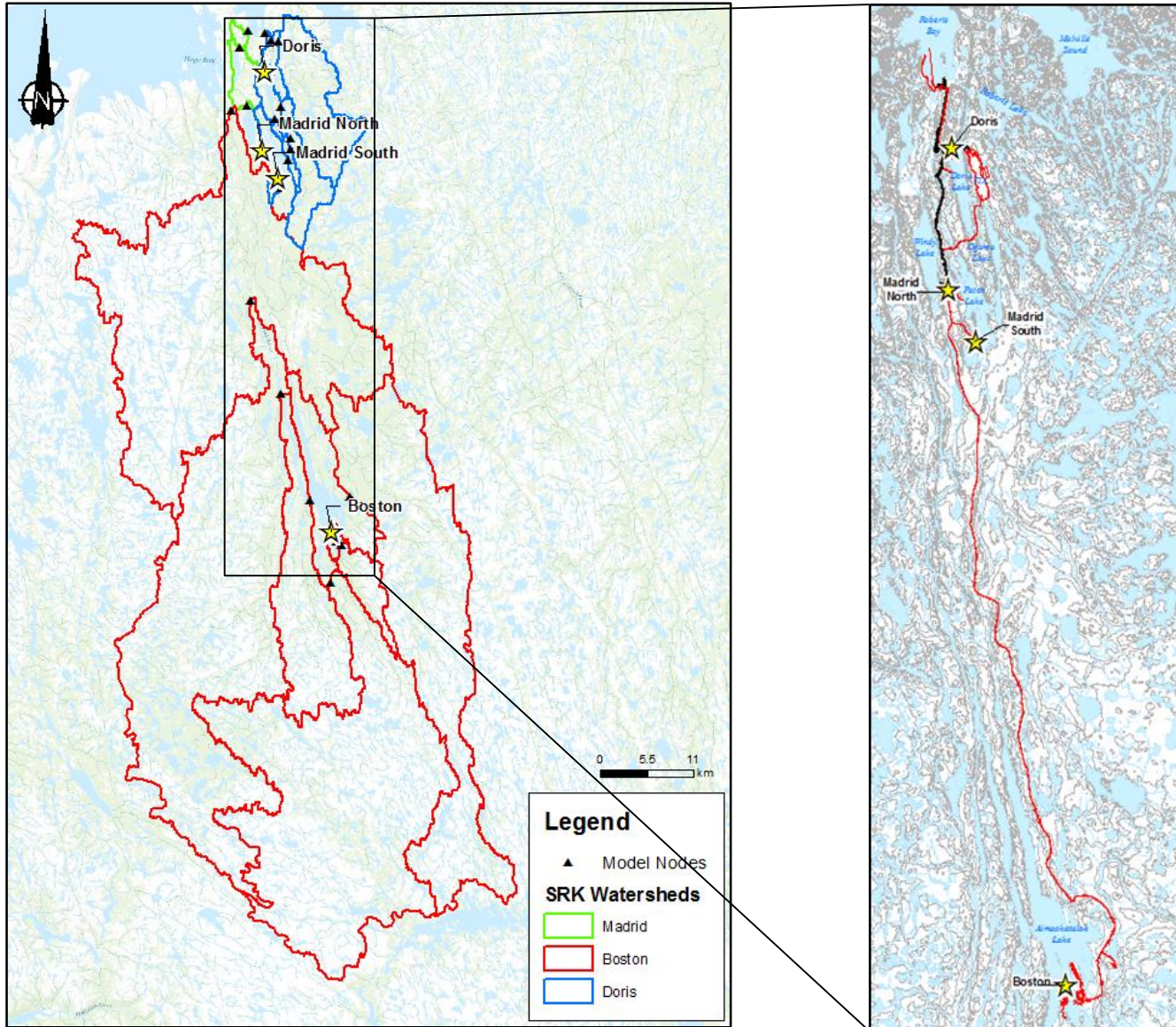
Boston-



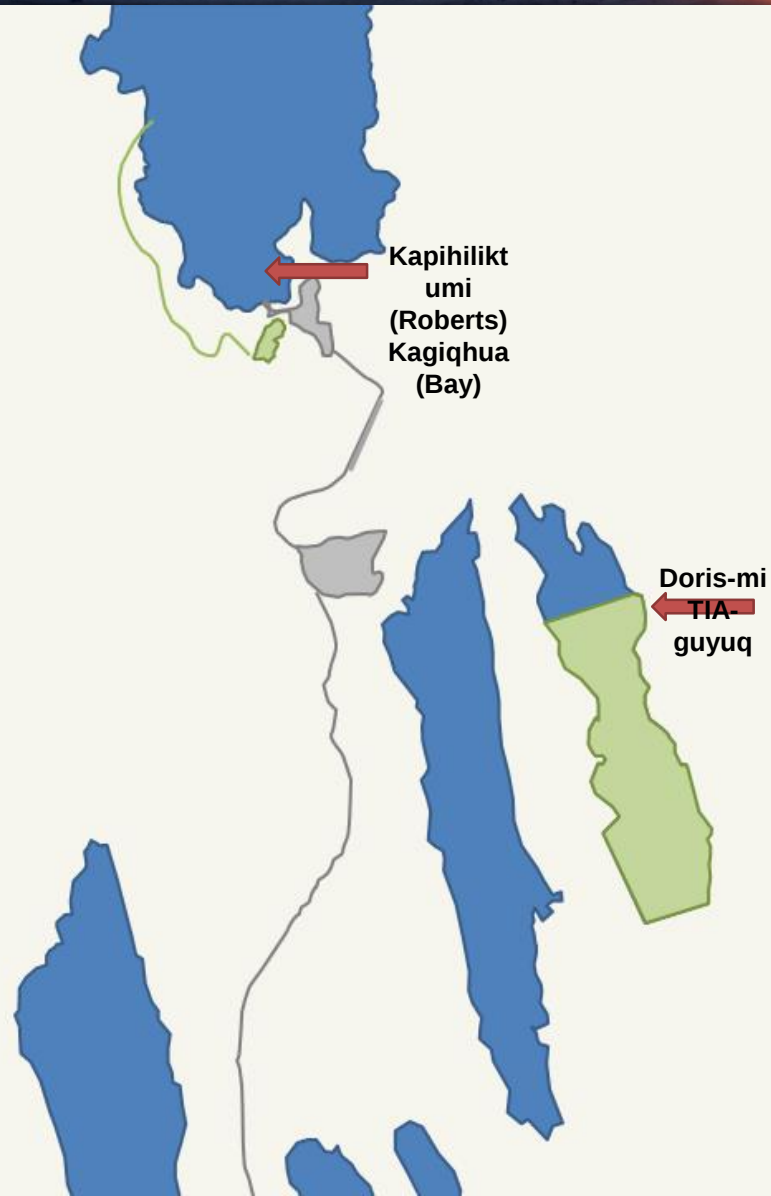


Immamik Munarijutit

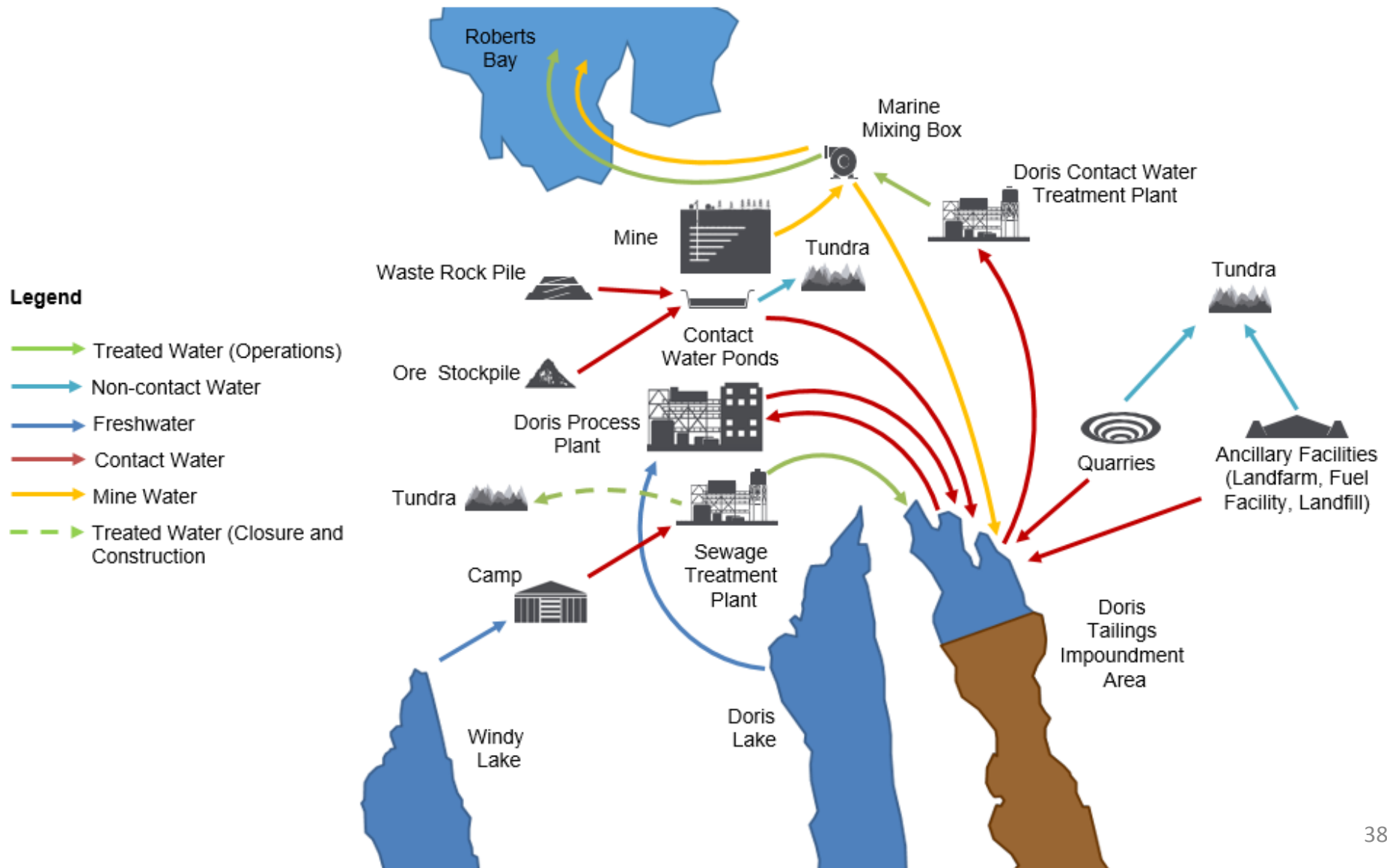
Immaqqaqniginik Naunaiyautit



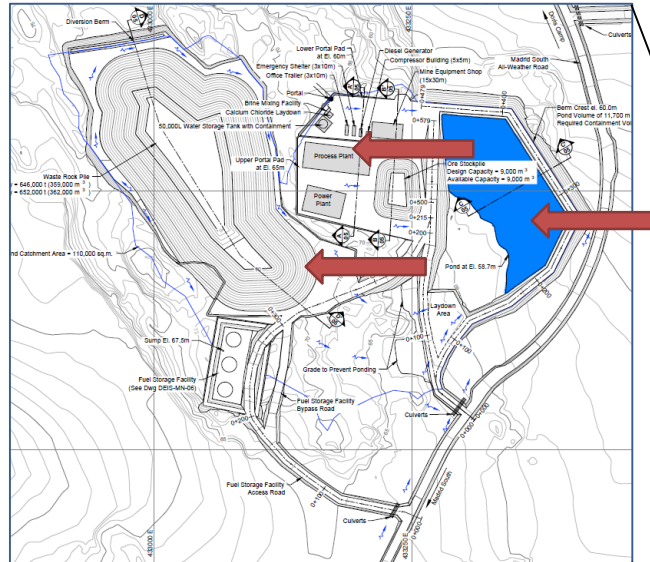
Doris Iqagunik Munarijutit



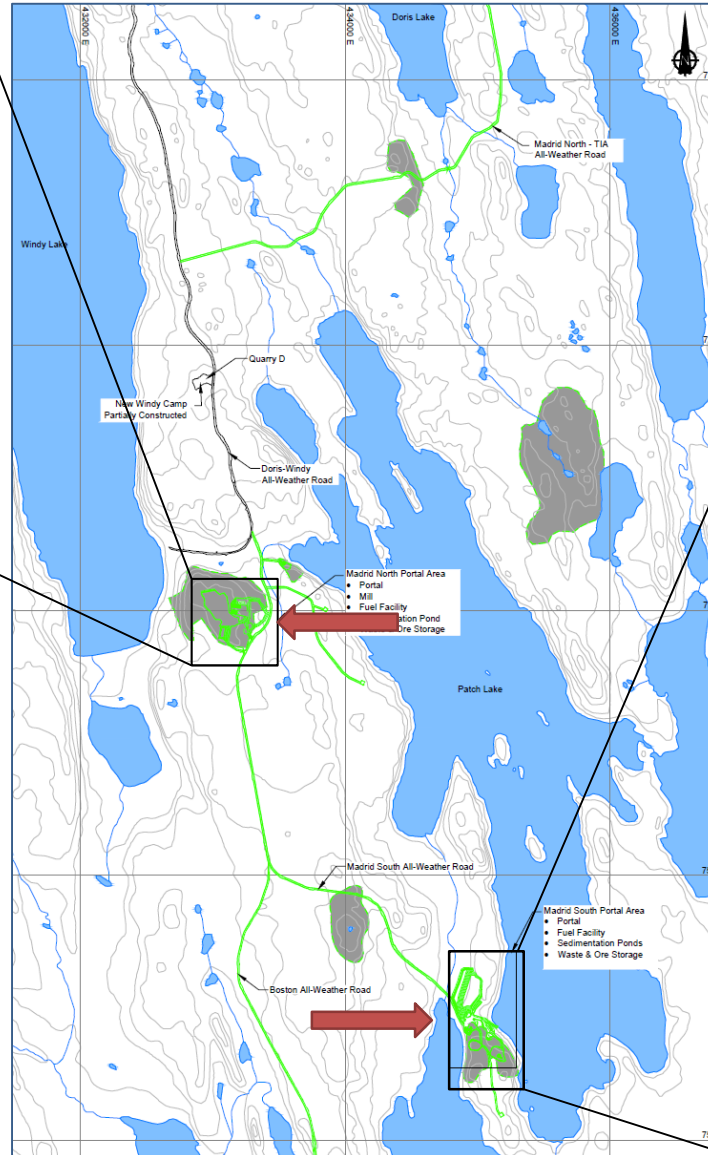
Doris-mi Immamik Munarinigagut



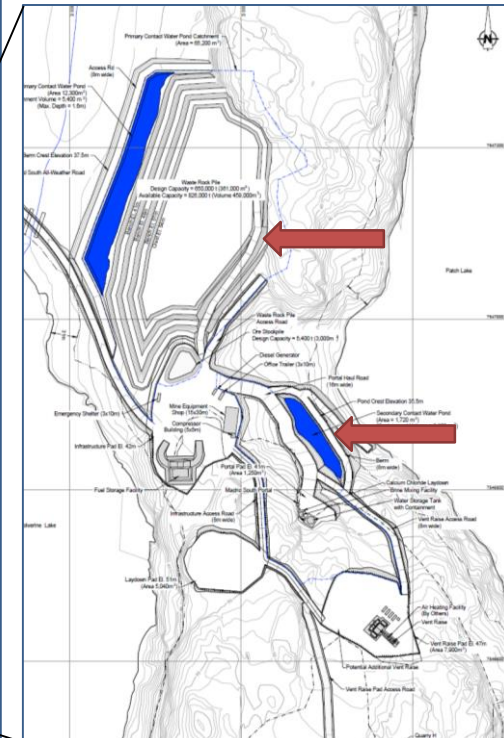
Madrid-mi Igluqpaqaqvikmi Inigiyauyut



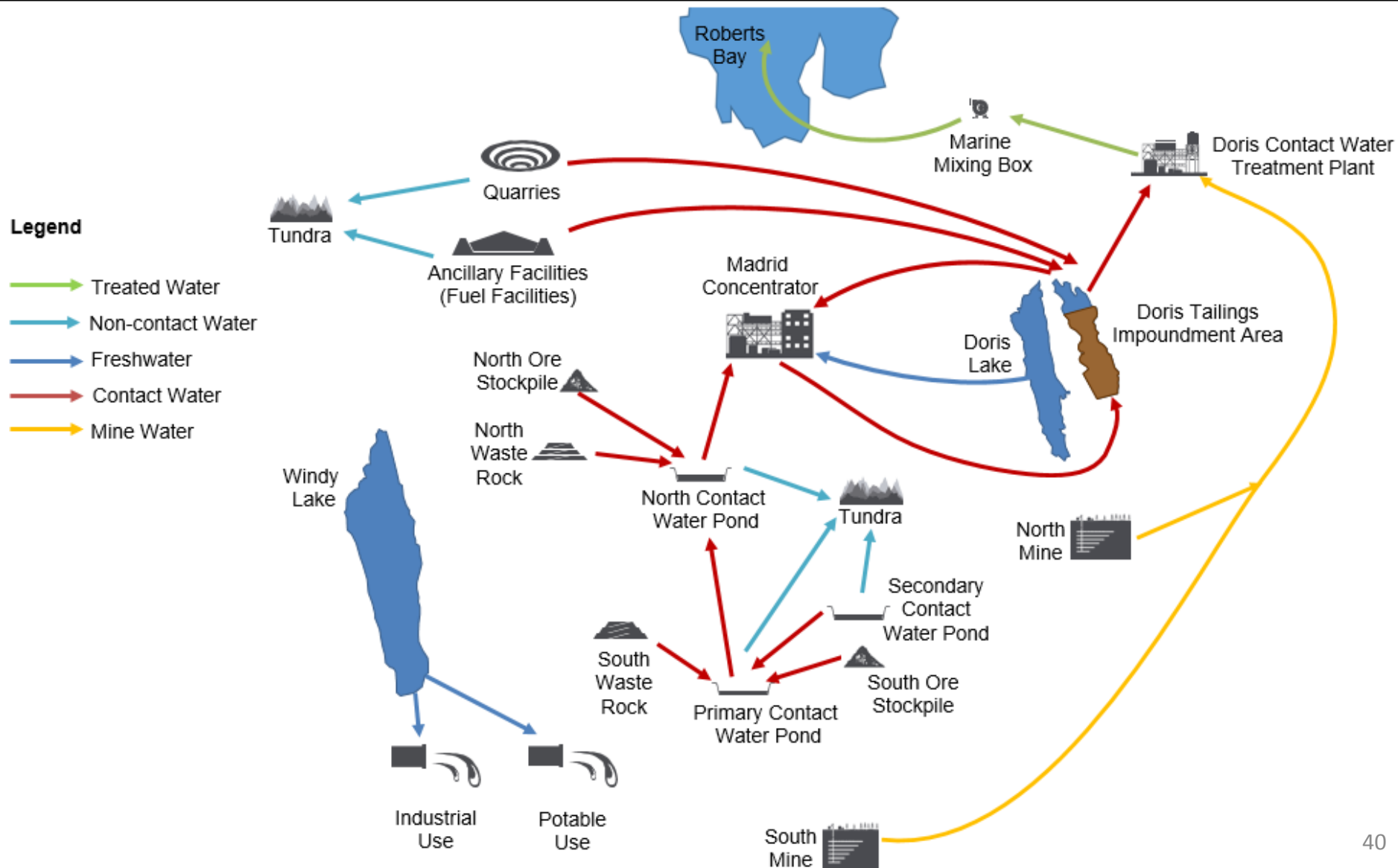
Madrid-mi Tunuungani



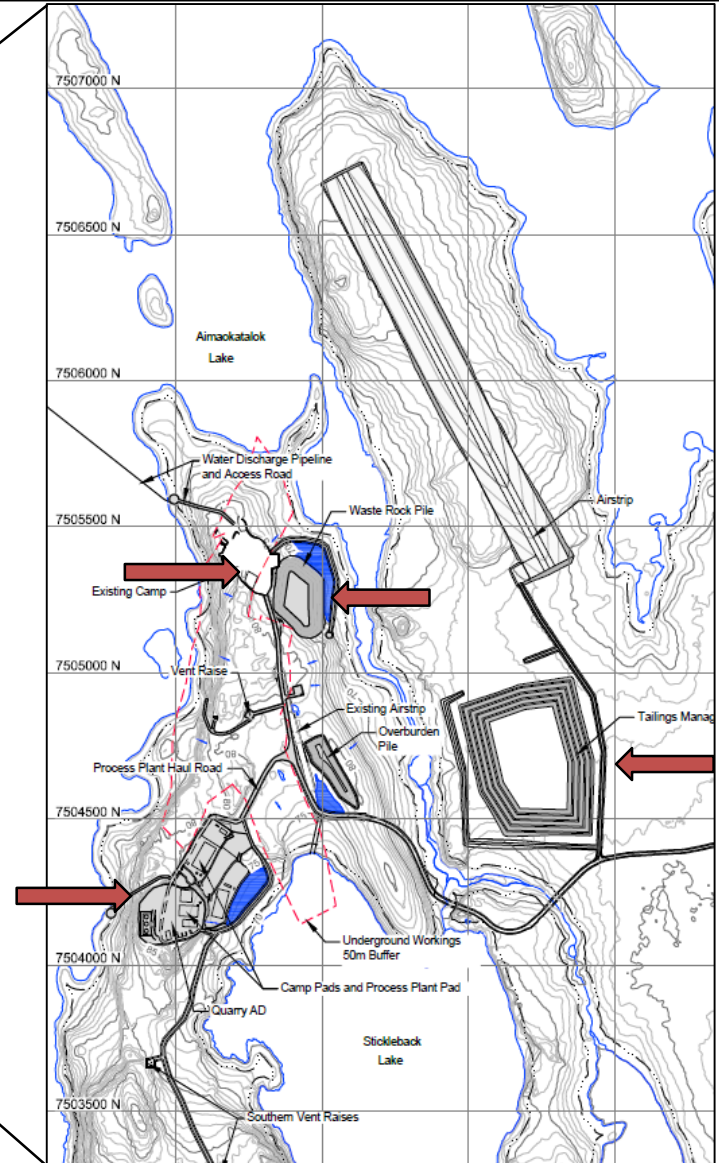
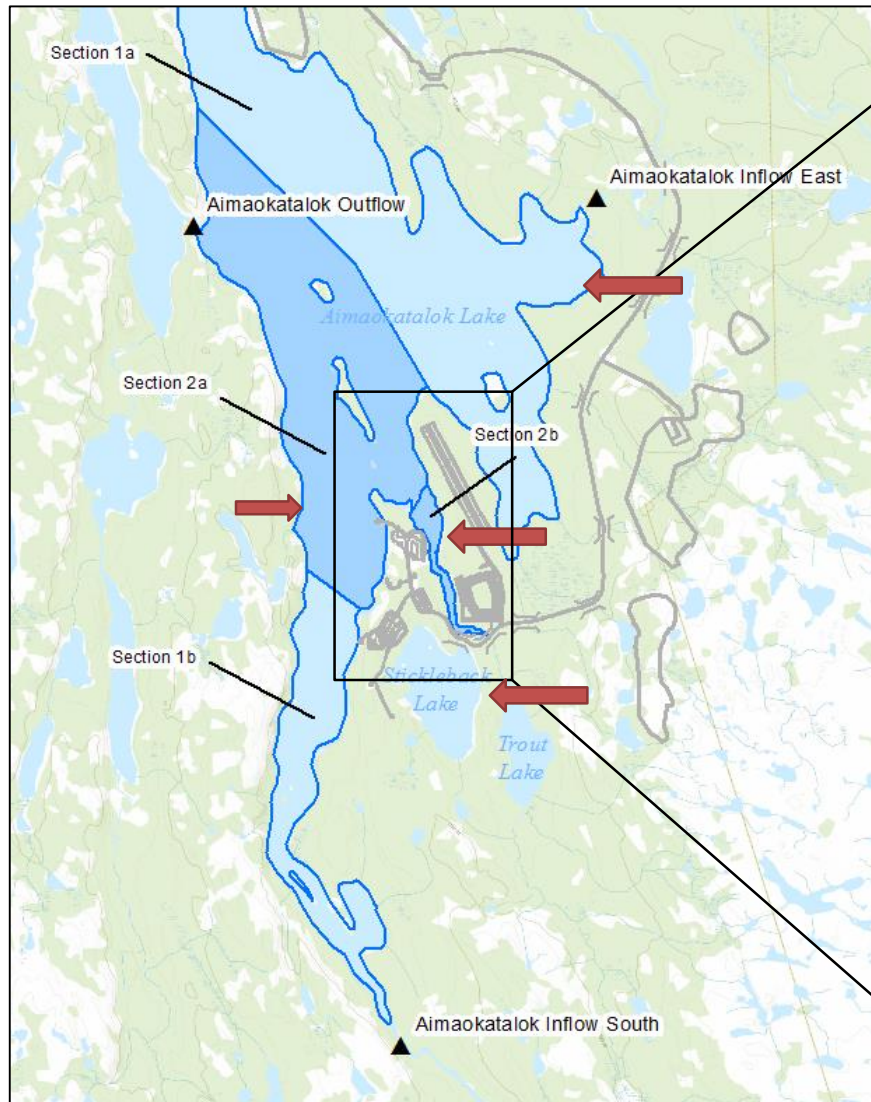
Madrid-mi Hivuraani



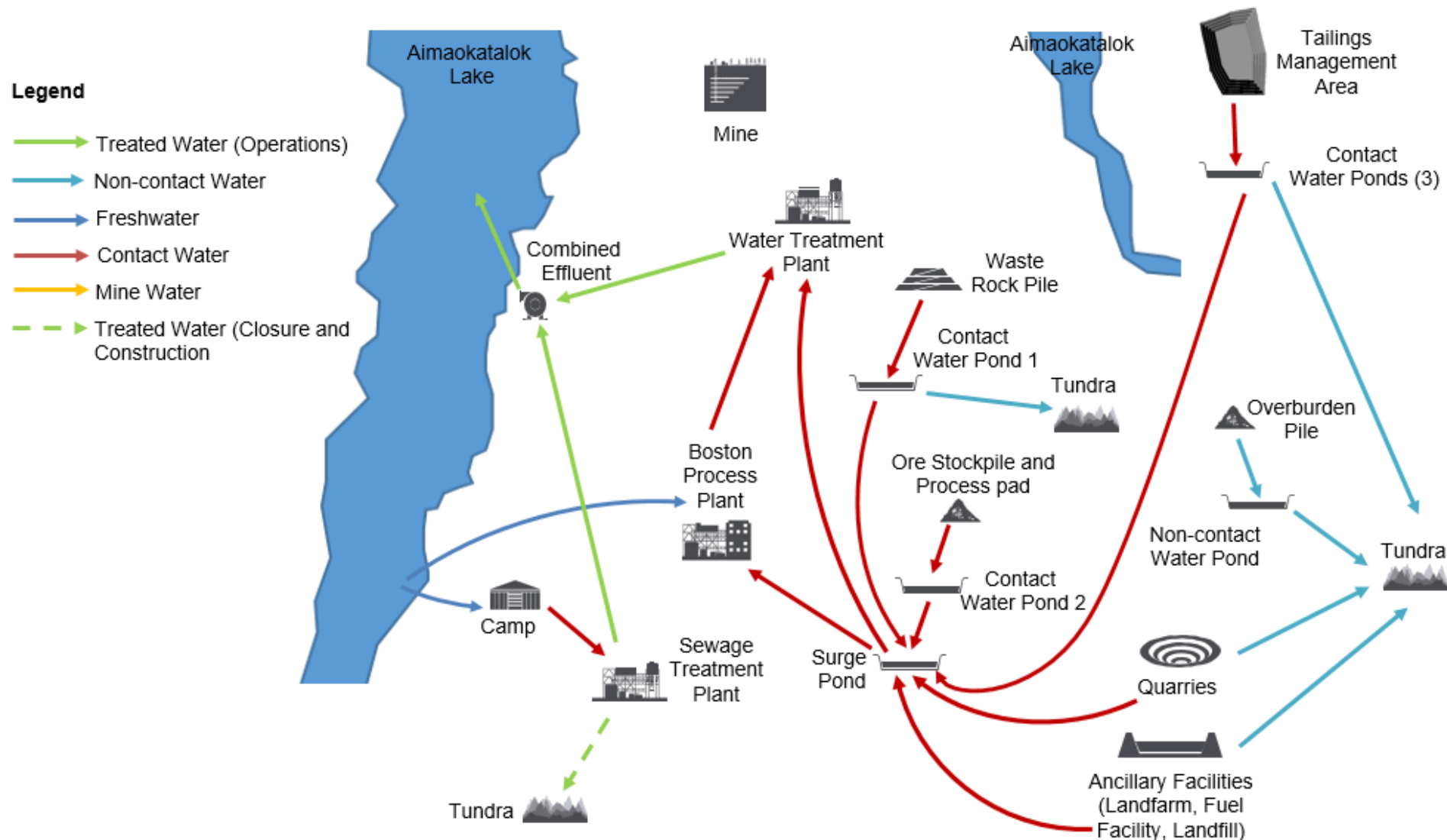
Madrid-mi Immamik Munarinigagut



Boston-mi Igluqpaqaqviki Inigiyauyut Aimaukatakmi Tahiqmi



Boston-mi Immamik Munarinigagut





Tahiq Avatinga



■ Ihivriuqhimayuq Avatinga Havaqutingit:

- Qaanga Ihivriuqninga nunap imanga
- Qaanga Imanga Qanurittaakhaanik
- Ilakunga Qanurittaakhaanik
- Iqaluk
 - Iqalungit
 - Iqalukpik
 - Aanaakhiiq
 - Ihuuq
 - Arctic Cisco
 - Aanaakhiiq
- Iqalut Nayugangat

Ihivriurnikhanut Inikhaa

Hivunnganiittut Inikhaat Ihivriurnikhanut

1. Atulihaaqhimayangit Pitquhirnikkut Qauyimayangit
2. Nalunairvikhangit Ilitturvikhanut Iningit kigliqaqtut ihumagiyauyut Havaanut hanavikhait
3. Kititiqtangit kigliliugait naunaiyaqhimayangit iluaniittumi tiliyauhimayumi Ilitturvikhangit Iningit

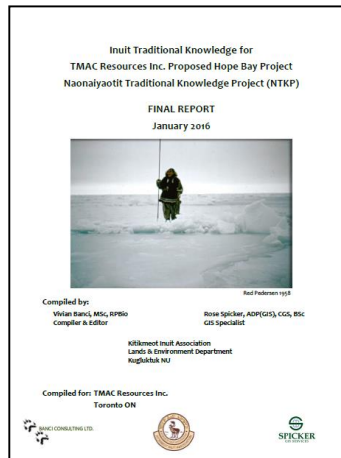
Pilaqutauyut Ihivriurningit Inikhaa

4. Nalunairvikhangit Havaanut hanavikhanit uumani Halumayumik imaq Avatikhat
5. Nalunairvikhangit Ingattaqhittailiningit hiamittailiyukhaq Havaanut Pilaqutiit
6. Malikhaat Havaanut hanavikhanit imarnut amihuuningit nakuuningillu
7. Ihivriurlugit ihumagiyauyut Hiaminnairutingit Atuliqtauningit Havaatigut uumani Halumayunit imait Avatainut
8. Pivalliyuq amiriyakhat inikhaanut kigliqaqtuq takunnaqtumik uumani EIS qimilurningit

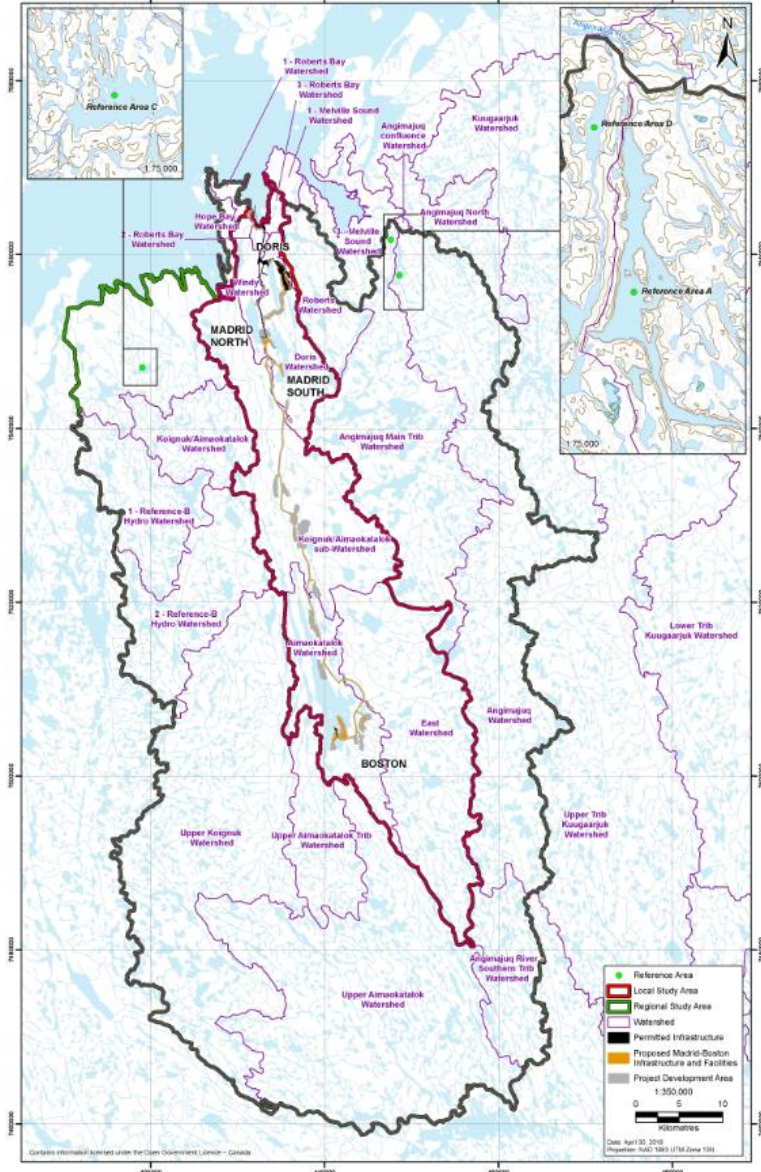
Inungni Aiyukiktuinikmun

Talvanga" Inuit IngilgangnitaniK Kauhimagutukanik talvuna
TMAC Atugakhaliuknikmun Katimayit, Hope Kangikhuani
Havaakhautikhanik, Naonaiyaotit IngilgangnitaniK
Kauhimagutukanik Havaakhautikhanik uniktutinik"

- Ikaalguinik taahikmiutanik unalu imaiktitpaktunik kuuganik
 - Kikiyunik kalguutivaktunik ukiumi
- Uyagakhiuktit nalvaakhiutit nalvakgaxhanik unalu aullaktikgutikhanik
- halumailgunik kaahukgaxhuugit tapakuniga ikalungnik nigiblugit
- Pinnahuaknikmun hilamiutanik umayunik tamakpalliagangamik uvunalu upidjutigilugu kuvyaktuknikmun kuvyaktukvinik
- Pihimangitut ilitukgiyauyuitunik imak imiktaktuk atugaxhanik talvani Havaaghautikhanik nunani, kihimi imak atuktauvaktuk imakaktut

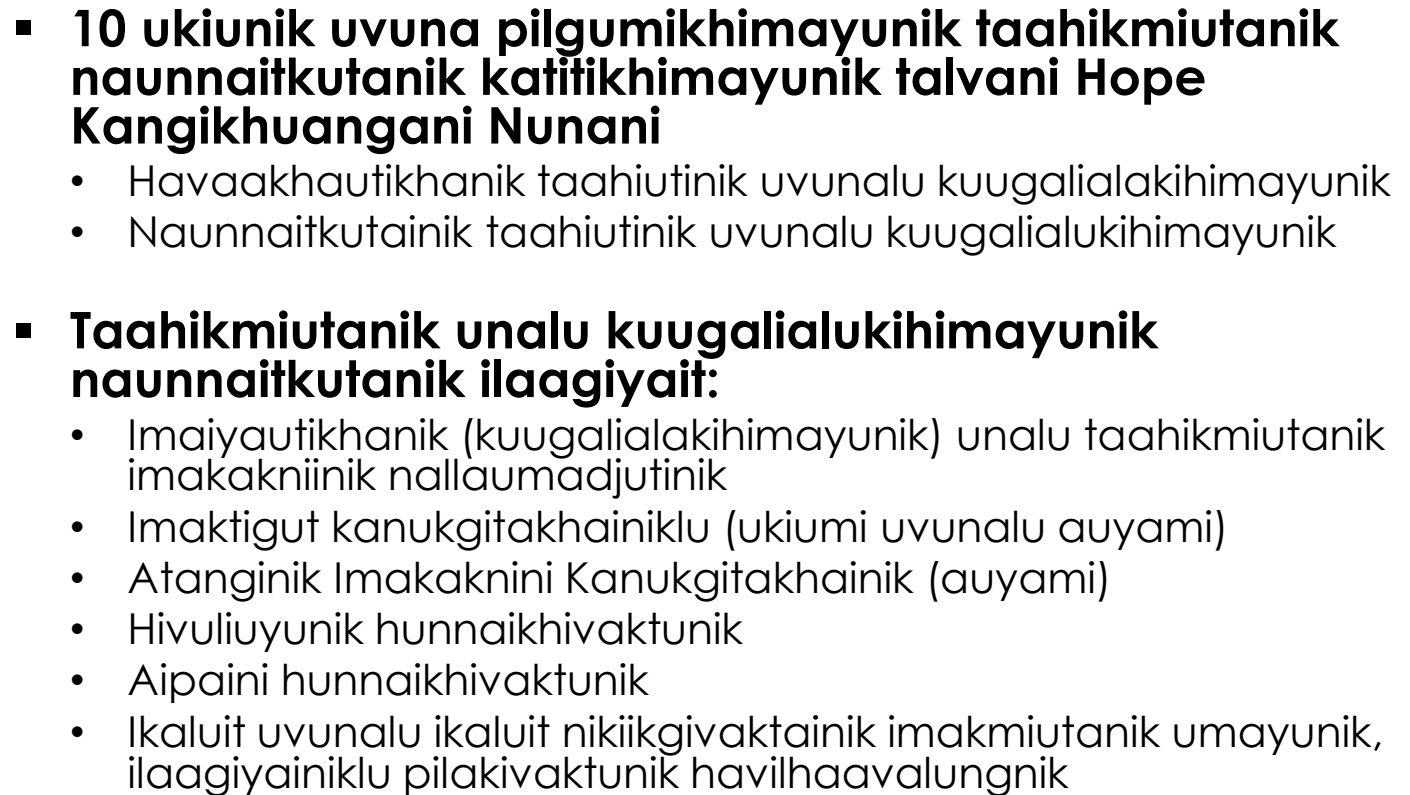


Taahikmiutanik Nunamiutanik - Ihiviukhinikmun Hunnautilanginik Naunaitkutakhanik Nunaini



**Nunalingni Ihiviukhinikmun
Hunnautilanginik Naunaitkutakhanik
Nunaini** – Angigliyumiklugu atauhik
kuugakliallakihimayuk nalliak aipanit
kuugakliallakihimayuk nungumanganit
talvanga Havaakhautikhanik
hunnaayuyukhanik

**Nunatuttukat Ihiviukhinikmun
Hunnautilanginik Naunaitkutakhanik
Nunaini** – Angigliyumiklugu atauhik
kuugakliallakihimayuk nalliak aipanit
kuugakliallakihimayuk nungumanganit
talvanga LSA



Imaiyautikhanik Tutkikhakhikhimayunik



- **Pinnahuaknikmun ihuikgutivaktunik tutkikhakhikhimayunik:**
 - **Alanguktiktunik talvuna kanganic imaiyautikhanik**
 - Imak imiktaknikmun talvanga taahikmiutanit
 - Hunnayauyukhanik unalu atugakhanik nuunap atani uyagakhiukvini
 - Havaagilugit ilidjuhinik kuugluakvini kuugalialakivaktunik



Imak unalu Atanginik Imakaknini Kanukgitakhainik Tutkikhakhimayunik



- **Pinnahuaknikmun ihuikgutivaktunik tutkikhakhimayunik:**
 - **Alanguktiktunik talvuna taahikmiutanik imak nalliak atanginik imakaknini kanukgitakhainik**
 - Nunani hunnaiyainikmun, hunnayauyukhanik uvunalu halumakhinikmunlu
 - Nunani unalu uyagakhiuktit imakvia
 - Imak atugakhak
 - Kaagaktauttinik
 - Halumakhikhimayunik kuugluaktittauvaktunik
 - Puuyuanit tingivgaalakpaktunik aaihinunguapkaaknaugituugu



- **Pinnahuaknikmun ihuikgutivaktunik tutkikhakhikhimayunik:**
 - **Ikaluit nikivaktainik imakmiutanik umayunik tamaktunik nalliak avaatingnuktunik**
 - **Ikaluit tukuvaktunik nalliak alanguktiktunik talvuna kafiutilanginik amigiatunik**
 - Havaakhautikhanik hunnayauyukhanik uvunalu aullaktikgutikhanik
 - Imak imiktakpaktainik uvunalu atugakhanik
 - Alanguktiktunik imak uvunalu atanginik imakaknini kanukgitakhainik



- **Imanga Ayurhaulinga Munariniq Ihumaliurut**
 - Nunanga-tamaat ihumaliurut ukunanilu Doris, Madrid, uumanilu Boston
- **Avatinga Ayurhaulinga Munariniq Pinahuarut**
 - Aimaokatalok Tahiq
- **Qun'ngiaqniqmut Havaqutingit Pinahuarut**
 - Qanurittumik A Imanga Laisikhaq
- **Imarmiutat Aadjikutaliurniqmut Munariniq Pinahuarut**
- **Munariniq Ihumaliurut**

Iniqtirninnga uuminnga Tahiq Naunaiyaininnga

- **Piqangittuq akhuurutauyuq Havauhikhaq unaluuniit
Angikliyuumiqtuq ayurhautit**



Quanaqqutit. Apiqqut?

