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Uvuuna: 2AM-LUP1520 – Lupin Mine Timiuyuq – Lupin Mine – Qanuriniga A Immaqmiq Aturiami Laisiuyuq

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Avatauyuq Hilaplu Aanaguqpalianiganik Kanatami (ECCC) ihivriuhihimayut hivunihijutinik tuniyainik Nunavumi Immaliqiyit Katimayinut (NWB) pijutaayunik quuliqmi uqautauyumik immaqmiq aturiagani laisiyumik uuktuunmik. Naniniaqatit Kiguliq Titiraqhimayuq Tunihijutikput, ilauyuq.

ECCC-kuni ayugituup ihumakhaqhiurutaa pijutiqaqtuq havaakhaptiknik atuqlugu *Kanatamiut Avatauyumik Munarinigagut Maligaqyuaq* halumaigitaaganilu pivikhaqaqnigut *Iqaluliqinikut Maligaqyuaq*.

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Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada



Lupin Mine

Qanuriniga A Laisiuyujmik Piyunaut Uuktuutauyuq

**Kiguliqmik titiraqhimayut tuniyauyuq ukunanga
Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami**

Ubluiqtirvia 16, 2019



Lupin Mine Timiuyuq – Lupin Mine Havaaq
Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami
Kiguliq Titiraqhimayut Tunihijut Nunavumi Immaliqiyit Katimayiinit

Atanguyat Naitumik Uqauhiit

Lupin Mine Timiuyuq ('havaaqarumayuq') uuktuqtuut Qanurinigani A-mik Immaqmik Aturiagani Laisiuyumik (WL) Lupin Mine ('havaaq'). Lupin Mine iniquaqtuq Qitiqmiuni Nunami, 285 kilaamitamik ugahikniqaqtuq hivuraata ualiqhiani Qugluqtuup Nunavumi, qanituani 40 kilaamitamik tunuungani kikligata Nunatiap. Lupin Mine nunap iluanit kuulmik uyaraktaqvik atuliqhimayut 1982-mit 2005-mut, Amiriyauliqniganik Munariyauliqniganiklu.

Uyaraktaqvik taja umiktiqpaliaginaqmat (umiktinigani havaaq), malruuknik ukiukni napaaniklu atuqtilugu inigiyauyumi utiqtifaaqniataat ilitquhianut nunaap iniquaqtuukhaqlu (2019-mit 2021-mut). 2022-mi uyaraktaqvik kayumiitumik umiktiqpaliahimayuq (kiguani umikmat havaaq), aulaniqaqtut talimani ukiuni kiguani iniqniganik utiqtitpalianiganik nunat ilitquhiinut havaamik. Havaaqarumayut uuktuqhimayuq umiktumik uyaraktaqvik qanurinigani ilagani *Havivaluit Piniquitkhalu Uyaraktaqvikmi Ataguit* pijutigivlugit Maliruat (MDMER) Ubluqtuhirvia 2019, ilitariyaulunilu umiqhimayumik uyaraqtaqvikmi 2022-mi.

ECCC-kut ilauhimayuq Qanurinigani A-mik Immaqmik Aturiagani Laisiuyumik havaami, pipkaqhugit ayugitit ihumagitquyainik pijutiqaqtut Nunavumi Immaligiyit Katimayit (NWB Katimayiluniit) nunani ilagani havaakhaptikni. Naunaitiaqtumi, ihumakhat halunmaigitaagani pivikhaqaqnigini Iqaluliqinikut Maligaquyumi (FA). ECCC-kut kiguliq titiraqhimayut tunihijutaat ihuaqhijutaayut Qittiqqautijug 29 2019 nutauniqhanik ihivriuniginik uqauhiuyut havaaqarumayuuplu Qiqaijaluarvia 13 2019 kiujutainik. Havaaqarumayuq kiguami pipkaiyuq ilagiarutikhanik hivunihijutinik tamakni kiguanilu atuqtilugu Imaruqtirvia 6-mit 7-mut 2019-mi nutauniqhanik katimajutiqaqtulugit.

Kiguliq tunihijutigiyauquut ihuaqhaihimayuq ukuniga:

- Qiqumainariagani nuna atuqtunik qanuriliniganik Hilaap Aalaguqpalianiganit Atuqtumik, atuliquyauyulu ihumagiyakhat qanurilinigat tamainit puyuuqniginik ihumagiyaayut pivalianigani ihuaqhautikhanik upalugaiyautinik kiguani umiknigata;
- Pigiarutit Ataguuqvikmi Hiamayagiipkunmi Nunami (TCA) umiknigani amiriyauniganilu;
- Amiriniga avataa himiktirutip aulaginiga kuuktuqaqmagaalu;
- Hunauniganik, hivituniganik hunauliqalu kiguani umiknigata amirinikut upalugaiyautit; unalu
- Atuliquyauyut titiraqahimayumi immaqmik aturiagani laisiuyuup pijutiqaqtumik MDMER-mik ilitariyauhimagiyulu umiktut uyaraqtaqviiit qanurininik.

Nainaaqhimayunik Titiraqnigut

AES	Akungani Puyuuqniginik Ihumagiyauyut
CEPA	<i>Kanatamiut Avatauyuq Munarinigagut Maligaqyuaq</i>
CIRNAC	Kavamatuqait-Nunaqaqqaahimaliqidjutinut Ukiuqtaqtumi Kavamaliqiyit Kanata
ECCC	Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami
FA	<i>Iqaluliqinikut Maligaqyuaq</i>
FCRP	Kiguliq Umniktignigagut Utiqtinigagulu Nunat Ilitquhianik Upalugaiyaut
HES	Agiyumik Puyuuqniganik Ihumagiyauyut
HHERA	Inuit Aaniaginigit Nunamiklu Ihumaaluknaqniganik Ilituqhaut
LMI	Lupin Mine Timiuyuq
LES	Mikiyunik Puyuuqniganik Ihumagiyauyut
MAA	Akungani Aipagutuaraagat Uunaqniga/Niglaumaniga
MBCA	<i>Tikiqataqtut Tikmijat Agiqatiriigut Maligaqyuaq</i>
MDMER	<i>Havivaluknik Piniqutikhaniklu Uyaraktaqniqmit Atagunik Maliruakhat</i>
NWB	Nunavumi Immaliqiyit Katimayit
QA/QC	Nakuuniganik Naunaiqniga/Nakuuniganik Munarijut
SARA	<i>Umayut Ihumaluknaqnignik Maligaqyuaq</i>
TC	Nutauniqhanik Uqauhiq
TCA	Atagunik Hiamayaktailivik Nuna
TSS	Tamaita Puktalaaqtut Hitiyut
WL	Imakmik Aturiagani laisiuyut

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1.0 Hivunihijutit

Lupin Mine Timiuyuq ('havaaqarumayuq') uuktuqtuut Qanurinigani A-mik Immaqmik Aturiagani Laisiuyumik (WL) Lupin Mine ('havaaq'). Lupin Mine iniaqatut Qitiqmiuni Nunami, 285 kilaamitamik ugahikniqatut hivuraata ualiqhiani Qugluqtuup Nunavumi, qanituani 40 kilaamitamik tunuungani kikligata Nunatiap. Lupin Mine nunap iluanit kuulmik uyaraktaqvik atuliqhimayut 1982-mit 2005-mut, Amiriyauliqniganik Munariyauliqniganiklu.

Uyaraktaqvik taja umiktiqpaliaginaqmat (umiktinigani havaaq), malruuknik ukiukni napaaniklu atuqtilugu inigiyauyumi utiqtiqaaqniataat ilitquhianut nunaap iniqtauyukhaqlu (2019-mit 2021-mut). 2022-mi uyaraktaqvik kayumiitumik umiktiqpaliahimayuq (kiguani umikmat havaaq), aulaniqatut talimani ukiuni kiguani iniqniganik utiqtitpalianiganik nunat ilitquhiinut havaamik. Havaaqarumayut uuktuqhimayuq umiktumik uyaraktaqvik qanurinigani ilagani *Havivaluit Piniquitkhalu Uyaraktaqvikmi Ataguit* pijutigivlugit Maliruat (MDMER) Ubluqtuhirvia 2019, ilitariyaulunilu umiqhimayumik uyaraktaqvikmi 2022-mi.

ECCC-kut ilauhimayuq Qanurinigani A-mik Immaqmik Aturiagani Laisiuyumik havaami, pipkaqhugit ayugitit ihumagitquyainik pijutiqaqtut Nunavumi Immaligiyit Katimayit (NWB Katimayiluniit) nunani ilagani havaakhaptikni. Naunaitiaqtumi, ihumakhat halunmaigitaagani pivikhaqagnigini Iqaluliginikut Maligaquyumi (FA). ECCC-kut kiguliq titiraqhimayut tunihijutaat ihuaqhijutaayut Qittiqqautijut 29 2019 nutaunighanik ihivriuniginik uqauhiuyut havaaqarumayuuplu Qiqaijaluvarvia 13 2019 kiujutainik. Havaaqarumayuq kiguami pipkaiyuq ilagiarutikhanik hivunihijutinik tamakni kiguanilu atuqtilugu Imaruqtirvia 6-mit 7-mut 2019-mi nutaunighanik katimajutiqaqtulugit.

Kiguliq tunihijutigiyauqut ihuaqhaihimayuq ukuniga:

- Qiqumainariagani nuna atuqtunik qanuriliniganik Hilaap Aalaguqpalianiganit Atuqtumik, atuliquyaayulu ihumagiyakhat qanuriliginik tamainit puyuuqnginik ihumagiyaayut pivalianigani ihuaqhautikhanik upalugaiyautinik kiguani umiknigata;
- Pigiarutit Ataguuqvikmi Hiamayagiipkunmi Nunami (TCA) umiknigani amiriyauniganilu;
- Amiriniga avataa himiktirutip aulaginiga kuuktuqaqmagaalu;
- Hunauniganik, hivituniganik hunauliqalu kiguani umiknigata amirinikut upalugaiyautit; unalu
- Atuliquyaayut titiraqahimayumi immaqmik aturiagani laisiuyuup pijutiqaqtumik MDMER-mik ilitariyauhimaayulu umiktut uyaraktaqviiit qanuriginik.

2.0 Avatauyuq Hilaplu Aalaguqpalianiganik Kanatami havaakhitauniga, ilaunigit, havaakhailu

ECCC-kut havaakhitauniga naunaiqtut qanuriniganit maliruakhanilu havaariyaini Ministauyuup Avatauyumik Hilaaplu Aalaguqniganik, pijutiqaqtut ilipkamaniganik ihuaqhivaaliriaganilu halumaniganik nunami avatauyuq (immavaluilu, hilainaq, nunalu halumaniga ilaliutinigilu atuqniqaqtut pitquhiuyut havaalu Kavamanit Kanatami), atuqhimaqtukhat ihuaqutit (tikitpaktulu tikmijat ahiilu talvaniigitut nautiat nauninualu), uyaravaluit tuutpaktut atuqtitaunigilu maligauyut maliruakhalu. ECCC-kuni ayugituup ihumakhaqhiuruta pipkagaayut ihumagiyaunigani *Kanatamiut Avatauyumik Munarinigagut Maligaqyuuaq* (CEPA) 1999-mi, Halumaigitaagani Pivikhaqaqnigut *Iqaluliqinikut Maligaqyuami* (FA), *Uumayut Ihumaaluknaqniginik Maligaqyuuaq* (SARA) *Tikitpaktulu Tikmijat Agiqatiriigut Maligaqyuuaq* (MBCA).

ECCC-kut munaqtit halumaigitaagani pivikhaqaqnigut FA-mi, piquigijut iqariagani aanirutaulaaqtunik hunavaluknik iqaluqaqtuni immavalukni. ECCC-kulu ilauyut maligaqaqtinigit tuqunaqtut kuviyaaqtut pivalianigalu atuliqnigalu avatauyumik halumatiaqniganik maliruakhat atuqlugu CEPA-kut 1999-mi.

ECCC-kut havaaqaqtut munariniganik ilipqamayaaganil tikitpaktut tikmijat amigainigit atunilu ilagani MBCA-m. ECCC-kut munaqhiyulu SARA-mik havaqatiqaqhutik Iqaluliqiyit Taqyumiutanilu Kanatami (DFO) Minguiqhiqviliqiyilu Kanatami Havakviuyuq (PCA) uumayut nuguutpaliagitaagani takuukhauhuigitaaganiluniit, pivikhaqriagani utiqpalianiginik uumayut tuquraktauyut, ihumaluqnaqhiyut aaniqnahuquuqnaqhiyuluniit ihuit hulijutainit, munariyaaganilu umayut ihumaluknaqhiyut ihumaluknairiagani, nuugugitaagani, tuquraqtaugitaaganilu.

Ilagiarutit hivuniqhijutit ECCC-kut havaakhainik naniyaulaaqtut uvani:

<https://www.canada.ca/en/environment-climate-change/corporate/mandate.html>

3.0 Avatauyuq Hilaplu Aalaguqpallianiganik Kanatami Nutauniqhanik Ihivriuniginik Uqauhiuyut

Una kiguliq tunihijut naitumik uqaqtuq qanuriliginik ECCC-kut nutauniqhanik ihivriuniginik hivunihijutit pipkagaayut ublumimut. Ukua hivunihijutit ilaqaqtut ukuniga:

- ECCC-kut nutauniqhanik ihivriuniginik uqauhiuyut, tuniyaayut NWB-kunut Qittiqqautijuq 29 2019;
- Havaaqarumayuup kiujutaa ECCC-kunut Kuin Nunaqaqaqtulu Havaqatiriiknigit Ukiuqtaqtumilu Havauhiuyut Kanatami (CIRNAC)-kut nutauniqhanik ihivriuniginik, pipkagaayut Qiqaijalarvia 13;
- NWB-kut Nunauniqhanik Katimajutit Imaruqtirvia 6-miy 7-muy 2019-mi; unalu
- Havaaqarumayuup kiujutait uqautayunik nunauniqhanik katimajutinit.

Kiguliit uiguit uqatiaqtut taja qanuriliginik ECCC-kunit atuqhimagitut atuliquyait, tikuaqhiutit ihumagiayunik ihuaqhihimayunik, ihumagiyanik ECCC-kut ihuaqhinahugiyait utaqiyut upigiarutinik uqariiqtainik havaaqarumayuup, ihumagiayuyut atuqhimagituut huli.

3.1 Nutauniqhanik Uqauhiqnik Qanuriliginig

Ukua atuliquyayut pihimayut nutauniqhanik uqauhiqnik tunihijutinik NWB-kunut Qittiqqautijuq 29 2019.

Naunaiaqvikhat	Pitquyayut	Qanuriginig
ECCC #1. Hilap aalaguqnig atuqtakhanik – Lupin Mine Igluqaqaqviki – Kiguliq Umiktiginig unalu Nuna Utiqtitaagani Iltiqhianut Upalugaiyaut; Ilanga 2.1.2, m. 2-3	ECCC-kut atuliquiyut havaaqarumayut pipkaiyaagani hivunihijutit ihuaqtut, ihumagiyanik uqatiaqnginiklu hila pijutigivlugu Aalaguqlugu hivunihijutit pipkagaayut Kiguliq Umiktiginig unalu Nuna Utiqtitaagani Iltiqhianut Upalugaiyaut. Ilgarutaani, ECCC-kut atuliquiyut una havaaqarumayuq pipkaiyaagani ihuaqtut hilaap qanuriliginik nahuriyainik nunami nugunigani ukiuraalut aalatqiniit puyuniginik ihumagiyanik (mikiniqhami aginiqhamut hivunihijutit pijutinik) amihunit hilaap qanuriliginik takuukhaayaagani hivunihijutit hilaap qanuriliginik nahuriyainik.	Ihuaqhivaalirutikhanik aturumayanik
ECCC #2. Ataguuvik umiktiginig Upaghigit unalu airijutit -Lupin Mine Igluqaqaqviki Kiguliq Umiktiginig unalu Utiqtiginig Iltiqhianut Upalugaiyaut -Umiktiginig unalu Upalugaiyaut uvani Atagugunik Iliuraivuyut Nunami	ECCC-kut atuliquiyut una havaaqarumayuq maniqami ihivriunihijutit Umiktipallianiganig Havaami piyaagani nutauniqhanik naunaipkutiginik qanuriliginig nakurutaukmagaalu ataguuvikmi kinipanigit hahijutit qanuriginig.	Ihuaqhijutinik

**Lupin Mine Timiuyuq – Lupin Mine Havaaq
Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami
Kiguliq Titiraqhimayut Tunihijut Nunavumi Immaliqiyit Katimayiinit**

Naunaiyaqvikhat	Pitquyauyut	Qanuriniga
ECCC#3 Avataa Himiktirutit – Lupin Mine Igluqpaaqvik Kiguliqmi Umiktiqniga Nunalu Utiqtiniga Ilitquhianut Upalugaiyaut -Umiktinigani Upalugaiyaut Atagunik Iliuraiviuyuq Nuna	ECCC-kut atuliquiyut ukua havaaqarumayut ihivriuhqiyaagnai unipkaaqlutiklu naamainaqniga kuulaaqnigalu avataa himiktuutit qiqumainaqnigani ilua auktuqpalianiganik hilaap aalaguqpalianiganit. ECCC-kut atuliquiyut una havaaqarumayut ihumagiyaagani aalagulaaqniginik qanuriniginik himiktuutit hivunikhamik pijutauniganit hilaap aalaguqniganit. ECCC-kulu atuliquiyut unipkaa naunaiyaqniganik qiqumaniganik ilua himiktuutit pipkagauyaagani Katimayinit, ilaqaqlunilu uqauhiyunik pijutikhanik	Ilainaa ihuaqhiyuq
ECCC#4 Hivituniga Amirijutauginaqtuup Pivikhaqaqniganiklu Naunaitiaqniga – Lupin Mine Igluqpaaqvik Kiguliqmi Umiktiqniga Nunalu Utiqtinigit Ilitquhiinut Upalugaiyaut, -Hiamayaktailijutit Iliuraiviuyulu Atuqtuut; Ilanga 5.0-mi Amirinagagut Naunaipkutit 18, 20-lu Lupin Mine Igluqpaaqvik Kiguliqmi Umiktiqniga Nunalu Utiqtinigit Ilitquhiinut Upalugaiyaut -Taja Umilakniga Nunalu Utiqtinigit Ilitquhiinut Upalugaiyaut	ECCC-kut atuliquiyut ukua havaaqarumayut pipkaiyaagani naunaitunik kiguani umikniganit havaaq amirinigagut hulijutinik hivituniginiklu, tikuaqhijutauyutlu qanurilikpata immarikniginik ataguuvikmik hauhijutit qanuriliuqniganik pigiarutaulaqtunik ikiklivaaliriagani amirijutit atuqtaunigit qanuraaluklu havauhiyuni. ECCC-kut atuliquiyut amiriniga TCA-mi hauhijut immaq lu pivikhaqaqniganik naamaktumik nalunairiagani qanuriniganik immavaluilu aulainaqniginik nakuuyumiklu nakuutiaqniga hivunikhami atuqtakhami.	Ilainaa ihuaqhiyuq
ECCC#5, 1-Miitamik Qimiaqyukmit Hauhijutikhaq Lupin Mine Igluqpaaqvik Kiguliqmi Umiktiqniga Nunalu Utiqtinigit Ilitquhiinut Upalugaiyaut	ECCC-kut atuliquiyut ukua havaaqarumayut takuupkaiyaagani qanuq 1-miitamik hauhijut naamainaqniqmagaa atugitaagani ARC/ML-mi qanuriliurutit ataguuvikmi hauyautaaqat kiguanilu umiktiqniganit (ilaa munariyauryariaqaqnigani) nahuriyauyut hilaap aalaguqpalianiganit. ECCC-kut atuliquiyulu ukua havaaqarumayut uqajavait ihumaluknaqnit/naunaiqnigit pijutiaqat atuqniganit hitigitunik hauhijunmik ataguuvikmi, ihumagiyauniganiklu qanuriniganik	Ihuaqhijutinik
ECCC #6 Iqaguut Uyaqat, ataguut havivaluqaqnigilu uyaqanit kuuktut/havivaluknik kuuktut – Lupin Mine Kiguliqmi Umiktiqniganik Nunalu Utiqtinigit Ilitquhiinut Upalugaiyaunmi Ilanga 4.3.2.1 Havivaluknik Uyaqanit Kuuknigit Havivalukniklu Kuuknigit; Ilanga 4.3.2.3 Halumaiqtut Nunat; 4.3.2.7 Iqaguut Uyaqat	ECCC-kut atuliquiyut ukua havaaqarumayut pipkaiyaagani ihumagiyaamiknik hauhijutit hilikniga, tikuaqhilitiklu atuqtakhanik hilitqiyamik iliuraiyaagani ahianiiliriagani iqaguut uyaqat aulaniganit qaliup hauhijutit ihuaqumiklu havivaluknik kuuktuqagitaagani iqagunik uyaqanit. ECCC-kut atuliquiyulu ukua havaaqarumayut tikuaqhijavut amirijutikhanik umikniganik kiguanilu umiknigata havaat tikauqhijutauniatunik qanuraaluk humulu kuukniginik immavaluit ARC/ML-nik iqagunik uyaqanit. ECCC-kut atuliquiyut ukua havaaqarumayut pipkaiyaagani huli atuqtukhanik ihuaqhautikhanik, ila atautimuktiqnigit ARC/ML-nik hauyaunigilu, qaaganiluniit immaq	Ihuaqhiyuq uqariirutinit havaakhanik

**Lupin Mine Timiuyuq – Lupin Mine Havaaq
Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami
Kiguliq Titiraqhimayut Tunihijut Nunavumi Immaliqiyit Katimayiinit**

Naunaiyaqvikhat	Pitquyauyut	Qanuriniga
-ARC/ML-nik Ilituqhaqniga ukua Iqagut Uyaqat Lupin-mi Uyaraktaqvimi	munariginanik unalu halumaqtiqniganik, piqagitaaganilu ARC/ML-nik mahaktiqnigani kuukni, kuukniginiluniit nunap iluagut ahiilu hunaliqaa kuuknigit immavaluknut tatinut kitpaavigivagainik iqaluit.	
ECCC #7 Ikulaariipkutit Iqaqniginik -Lupin Mine Igluqpaqaqvik Kiguliq Umiktiqnigagut Nunalu Utiqtiniganik Ilitquhianut Upalugaiyautani Ilanga 2.1.7 Avatauyumi Igluqpaqaqvik Ilituqhautimi; Naunaipkut 14; Ilanga 4.3.2.9-mi Igluqpait Piqutilu; 4.3.2.11 Hauyiviit Ahiilu Iqagunik Iqaiviit Nunat Lupin Mine Igluqpaqaqvik, Nunavumi, Kanatami Iqagunik Munariginagut Upalugaiyaut (Hitiyunik Aaniqnaqtuniklu) Munariginanik Ihuaqhaqniganiklu)	ECCC-kut atuliquiyut ukua havaaqarumayut ihumagijavait Ikulaariipkutininik piqaqtut uyaqat nunap iluani pipkailutikluniit Ihumami huuq ihuaginiganik atuqtuukhap. ACM-guyuuq iqaqtauniaqat atauhiqmi hauhivikmi, ECCC-kut atuliquiyuuq ukua havaaqarumayut tikuaqhiyaagani qanuq Uqautauyut maliruakhat ilaliutilaaqniginik uvuga iqaqniginik upalugaiyaumi, havaaqarumayutlu pipkainiaquut ACM atautimuktiqniqnigana, atulirumayauyuqlu kiguliqmik hauhijutip hilikniga.	Ihuaqhijutinik

3.2. ECCC 1-mi Hilaap Aalaguqniganik Atuqtukhamik

Naunaiyaqviit

- Lupin Mine Igluqpaqaqvik – Kiguliqmik Umiktiqnigana Nunalu Utiqtinigit Ilitquhiinut Upalugaiyaut; Ilanga 2.1.2, makpiqniganik 2-mit 3-mut.
- 2 AM-LUP-mik Nutauniqhanik Katimajut Uqariiqtaq Nahautaa 13-mi Kiujut – Lupin Mine Ataguunik Hiamayaktailivik Nunami Himiktuutit Qiqumaniganik Atuqtuq Qanuriniganik (Ubluani Tattiarnaqtuq 15 2019-mi).
- Bush, E. unalu Lemmen, D.S., ihuaqhaiyit (2019-mi): Kanataup Aalaguqniganik Hilaap Unipkaa; Kavamat Kanatami, Atuami (Ottawa), Ontario-mi. 444 m.
- Flato, G., Gillett, N., Arora, V., Cannon, A. and Anstey, J. (2019): Qanurituunigit Hivunikhhamik Hilaap Aalaguqniganik; Nakataani 3 Kanataup Aalaguqniganik Hilaap Unipkaa, (ed.) E. Bush unalu D.S. Lemmen; Kavamat Kanatami, Ottawa, Ontario, m. 74–111.

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ECCC-kut uqaqtangit

Havaaqarumayuq ilituripkaiyuq qiqumaniganik atuqtuq qanuriliniganik pipkaqtamiknik nugunigani ukiuraaluit Mikiniqhamik Puyuuqiginik Ihumagiyauyuq (LSE) akuunganiluniit Puyuuqiginik Ihumagiyauyuq (AES) taimaniaquuqtuq unaugituq Aginiqhamik Piyuuqiginik Ihumagiyauyuq (HES) qanurliniganik:

“LES-mi ihumagiyauyuq atuqtuq MAAT-mik [tukiqaqtut aipagutuaraagat hilap uunaqniga] uunaqpalianiga 2.2°C-mik 1995-mit 2100-mut. CCCR-gani, 2019-mi, uqaqtuq uunaqpalianiga takuyauyuq Kanatami 1948-mit 1996-mut 1.2°C-guyuq, pijutauyuq akungani uunakpalianiga 0.025°-mik ukiutuaraagat. Taimainigani, LES-mi ihumagiyauyuq taimaniaqniganik uumangaugituq HES-mi.” makpiqnigani 6

unalu

“Qiqumaniganik atuqtuq havaariyaat Stantec-kut qauyuq LES-guyuq AES-guyuqlu pijutaugituq hivunikhami qiqumaniga aukuqpalianigainik talvani Lupin Mine TDA-mi himiktuutauyuni. LES-guyuq AES-guyuqlu ihumagiyauyut taimainikhainik hilaap uunaqpalianiganik piyuuqiginik ihumagiyauyut ihumagivlugu HES-guyuq, atuqat uqaqtauyut tautuktaunigit uunaqpalianiganik aalaguqiginik kiguliqni ukiuni 20-ilagiyaini ukiuni Kanatami.” Makpiqnigani 10.

Ajikiiknigit uunakpalianigit kayumikniga takuyauniganit unipkaamit LES-milu atuqtaulimagituq pijutauniganik ihumagiyauniganik LES-guyuq taimainikhaanik ukuagutituq aginiqhamik piyuuqiginik ihumagiyauyut. Kayumikniga uunaqpalianiga takuyauyut taimanit atuqtaulimagituq maliruakhamik ilituqhariagani qanuraaluk atulaaqumik hivunikhami hilaap aalaguqpalianiganik ilaa:

- 1) Takuyauyut taimaniluniit uunakpalianiga qanuriliginilu pijutauluagituugaluit nunami nunagiyaumiluniit hilaap qanuriliginiga hilaquyumi uunakpalianiganik, aalat pijutauyut, ila nunani aalatqiit hilaginit, pijutaulaaqtut;
- 2) Taimanilu puyualuit puyuuqiginigit pijutaulaitunaqhiyut atulaaqtunik hivunikhamik puyuuqiginik ilagilu aalaguqiginigit hilaap atuqtumi.

Hilaap qanuriliginigit amihunit hilaliqijutinik atuqtunik aalatqiini atulaaqtunik hivunikhami puyuuqiginik ihumagiyauyunik (mikiyut aginiqhalu hivunikhami pijutauyuq) aturiaqaqtut takuyaagani naluyauyut hivunikhamik hilaam nalaataarutauyut, qanuraaluklu atulaaqtunik hivunikhami hilaap aalaguqiginiganik ihumagiyauyaagani. Ayuqnaqtuq piyaagani qanililijuhikhaanik kitumliqaa hivunikhami atuqtaulaaqniganik ihumagiyauyumik. Ihumagiyauyut ukua nalaataarutaugitut. Kihiani, pijutauyut hivunikhami qanurilijutaulaaqtunik atuqlugu hilaquyumi naunaipkutit inuuhiqmi manikhaqhiurutini ihumagiyaunigit. Mikiniqhaq puyuuqiginiga (RCP2.6) **ihumagiyauyuq ajikutaa kikliqaqtilugut hilaquyumi uunakpalianiga qaniguanut 2°C agitqiyaanut hivuani havakviuyuni** agitilaaga. Mikiniqhat puyuuqiginik ihumagiyauyuq pijutauyuq qilamik nuutqaqtijutinik inuit puyuuqitiginik hilaquyumi (Flato et al. 2019-mi). Ihumagiyauyut ikitunik kagiqhiqtiqaqtuq atuqniqaqtut kihiani hilaquyumi halumaitut puyuit piqruirigani atulihaaqnigani tuukliata napaup taja ukiuraaluit, piyuuqiginilu aalat halumaitut puyualuit takuukhauhuiqata agiyumik (Bush unalu Lemmen, 2019-mi).

Nalaataaqtauyut havaaqarumayumit HES-mi takuupkaiyut akungani aipagutuaraagat hilap uunakpalianiganik imaa **7.8°C 2081-mit 2100-mut ukiuni. Havaaqarumayuup kiguani qiqumaniganik atuqtatik nahuriyut**

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auktulaaqniganik hiliknigani 14-miitamik 2081-mit 2100-mut ukiuni. LES-mi, havaaqarumayuq nalunaiqhiyut nalautaaqtait uunakniaqniganik imaa 2.1°C-mik (2081-mit 2100-mut ukiuni). Una pijutauyuq atuqtumi auktuqniganik hiliqnigani 3-miitamik.

ECCC-kut Atuliquyautut

ECCC-kut atuliquiyut, nalautaagaayut nalunaqniginik uqautauyut, tamaknik LES-guyuq HES-lu unalu AES-guyuq ihumagiyaayukhat Lupin Mine igluuqpaqaqviki. Tamiata qanurilinihait umiktiqnigani ihumagiyaayukhaugluit, ihuaqhautilu upalugaiyautit pijutiqagtut ukuniga ihumagiyaayunik ihuaqhaktuukhaugluit.

ECCC-kut atuliquiyut ukua havaaqarumayut ihumagijavait agiyunmik puyuuqniginik ihumagiyaayut ukualu mikiniqhanik puyuuqniginik ihumagiyaayut qiqumaniganik atuqtumik ilituqhaqnigani, pivalianiganilu ihuaqhautikhanik upalugaiyaututi kiguani umiknigata Lupin Mine Iguqpaqaqvik ihumagijutauyuq tamainik atulaaqtuknik ihumagiyaayuknik.

3.3 ECCC 2 unalu ECCC5 – Ataguuvik Umiktiqnigagut Pigiarut Amirijutulu

Naunaiyaqviit

- Kijutit ECCC-kut TC2-mik unalu ECCC-kut TC5-mik 2019-mi Uutuunmi Immaqnik Aturiagani Laisiuyuq Nutaaguqtiniganik Ihuaqhaqnigaluniit, Kigulimiklu Umiktiqnigani Nunalu Utiqtitaagani Ilitquhiinut Upalugaiyaut Nutaunighanik Uqauhiqnik Kijutit Qiqaijaluavia 17 2019-mi.
- Stantec-kunit Nunaunighanik Itqaijut 2AM-LUP1520 Nutaunighanik Katimajutmi Uqariiqtaq Nahautaa10-mik Kijut-Haujutimik Naunaipkut Lupin Mine Atagunik Hiamayariipkut Nuna. Tattiarnaqtuq 15, 2019.
- Lupin Mine Igluqpaqaqvik Kigulimik Umiktiqniga Utiqtiniginilu Nunat Ilitquhiinut Upalugaiyaut, Taaqhivaliavi 2018-mi. Golder Associates-kut Ilanga 4.3.2.8-mi Atagunik Iliuraivik Hiamayariipkulu Atuqtuut; Ilanga 6.1 Kiguani Nunat Utiqtiniginik Ilitquhiinut Igluqpaqaqvik Qanurinigat.
- Umiktiqniganik Upalugaiyaut Atagunik Hiamayaktailivik Nuna, Ubluqtuhirvia 2005. I. Holubec Consulting-kut Timiuyuq Ilanga 8.

ECCC-kut uqaqtangit

ECCC-kut Nutaunighanik Uqauhiinik Tunihijut itqaijut aturumayaayut Atagunik Hiamayariipkut Nuna (TCA) amirijutit kiguani umiknigata piniaquut aalaguqniginik ataani hiuhijutip, kituliqaa ihivriuhituitit aturumayaayut kiguani umiknigata havaap. ECCC-kut Nutaunighanik Uqauhiinik itqaijulu naunaiyaqniga ataguuvik nuna hauyauhimayut hivitutqiyamik pipkainiaqtuq ikayuutunik qanurilivalianiganik atulirumayaayut 1-miitamik qimiaqyukmit hauhijut imvaluqaqtuniklu hauhijut qanuriniganik.

ECCC-kut atuliquiyut ukua havaaqarumayut maniqami ilituqhautinik umiktiqtautilugu havaami piyaagani nutaanik naunaipkutunik qanurilivalianiganik nakurutaukmagaalu atagunik qinipayunik hauhijut qanuriniganik. Havaaqarumayut piyumuq algagiagani ilituqhaivikhamik atiqniqnik Nunanuami 1 tautuklugu ihivriuriagani hauhijut naunaiyaqlugulu qanurilivalianiga. Ilituqhaivik atikniq ilagiarutauniaqmat naunaipkutunik nunaap qiqumaniganik kinipaniganiklu ilituqhautit talvani. Havaaqarumayuqlu uqafaqtuq ilituqhautit iliauniaqmatalu ukunani atuqtuni napayuni tuuqhuani katitiriyaagani naunaipkutunik immaqaniganik qanuraaluk iluani hauhijut qanurilivalianiga naunaiyariagani. Maniqami

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ihivriughijutit iniqhimayut auyami 2019-mi unipkaaqlu tuniyauvluni October 15-mi 2019-mi. Malruuk ilituqhaivikhak atiktuuk algaktauyuk, Nunanuami 1-mi 2-milu, tuuqhuamilu immarikniga naunaiyaqtauyut. Hanayakhaliqiyi nalunaiqhiyuq:

“Ilituqhaivik atikniq takuyaunigit tuuqhuamilu immaqaniga naunaiyautit naluhirutauyut kinipaniqaqniganik hauhijut qaagani ataguut nunanuami ilituqhaqtauyuni. Hilainaqmuktut ataguut takuyauyulu ilituqhaivikni atikniqni. Amihuni, immarikniga qanurilinigut 2002-mit 2019-mut aajikiiviyaktut. Atuqata ukua takuyauhimayut naunaiyautilu, hauhijut qanurilivaliayuyaaqtuq pijutaunigani.”

Amiriniga kiguani umiknigata havaap (qayagivlugu umiktiqniga) ihuaqtumik aulariaqtautq naunairiagani aalaguqnigit qanurilivalianiganik atagunik hauhijutit. Taja aturumayauyut amiriyaagani qayagivlugu umiktiqnigani ilaqaqtumik tatqiqhiut naatkagat nunamik ihivriughiganik immaqaniganik ukiup atuqlugu talimani ukiuni. Qiqumaniginik nunalu immaqaniganik uunaqniganiklu ilituqhautit atuqtauniaqtut amiriyaagani atagunik hauhijut uvani havaami. Havaaqarumayut kayumiitumik ikiklivaliayaagani inigiyauyuq ihivriuruiqpaliayaagani naunaitunikluniit amirijutininik aturiaqatunig, ilituqhautit qanuriliniginit naunairutininik nalautaagaayut halumailrut qanurinigalu naamainaqniganik. Qanurilinigut pigitpata nalautaarutininik, ilagiarutininik amirijutininik ihuaqhautininikluniit havaanik atuqtauniaqtuut havaaqarumayumit.

ECCC-kut ihumayut tuukhiut maniqami ihivriurutininik ihuqhariagani pijavut.

ECCC-kut Atuliquyautut:

ECCC-kut atuliquiyut hunaunigit TCA-mik amiriniga ilauyukhaugaluq kiguani umiktiqnigani amirijutininik upalugaiyaunmi tuniyauyukhat naatinagu atahiq ukiuq laisiuyuq agiqtauniganit Ministauyumit.

3.4 ECCC 3 – Avatait Himiktuutit

Naunaiyaqviit

- Kiujut ECCC-TC3-mik 2019-mi Tuukhiqtuut Immaqmik Aturiagani Laisiuyuq Nutaaguqniganik Ihuaqhaqniganikluniit, Kitulimiklu Umiktiqnigani Nunalu Utiqtitiyaagani Ilitquhiinut Upalugaiyaut Nutaunighanik Uqauhiqmik Kiujut Qiqaijaluavria 17 2019-mi.
- Stantec Technigal-kut Itqaijuta ubluqaqtuq Tattiarnaqtuq15 2019-mi; 2AM-LUP1520-mik Nutaunighanik Katimanigi Uqariiqtaat Nahauta 11-mi Kiujut – Nuna Naunaiyaqniga Lupin Mine Ataguut Hiamayaktailiginigik Nunami Himiktuutit.
- Stated Technical-kut Itqaijuta ubluqaqtuq November 13-mik 2019-mi; 2 AM-LUP-mi Nutaunighanik Katimajutmi Uqariiqtaq Nahautaa 12-mi Kiujutaa – Ihumaluknaqniga Ilituqhaqniqmik Malruuk Himiktuutik Lupin-mi Atagunik Hiamayariipkut Nuna.
- Stated Technical-kut Itqaijuta ubluqaqtuq November 14-mik 2019-mi; 2 AM-LUP-mi Nutaunighanik Katimajutmi Uqariiqtaq Nahauta 6-mi Kiujutaa – Nuna Ihivriughniga Hivituyumi Naamainaqniaqniganik TCA-mi Himiktuutit.
- Lupin Mine Igluqpaqavik Kigulimik Umiktiqniga Utiqtinigilu Nunat Ilitquhiinut Upalugaiyaut, Taaqhivaliavi 2018-mi. Golder Associates-kut Ilanga 4.3.2.8.
- Umiktiqniganik Upalugaiyaut Atagunik Hiamayaktailivik Nuna, Ubluqtuhirvia 2005. Holubec Consulting-kut Timiuyuq. Ilanga 5.0 unalu 7.0.

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ECCC-kut uqaqtangit

ECCC-kut Nutauniqhanik Uqauhia Tuniyauyuq atuliquikmat havaaqarumayut pipkaiyaagani ilituqhau nmik naama niaq niganik kuukviulaaq niganilu avataa himiktuutit, ukua qiqu manigit auktulaaqmata pijuta uyumit hila aalaguqpalianiganit. ECCC-kut CIRNAC-kulu tuukhiqtuut unipkaamik naunaiyaq niganik qiqu maniganik ilua himiktuutit pipkagauluni ilaqaqlunilu uqaqtiriigutininik naunairutininik umiktiqniganik.

Havaaqarumayut pipkaiyuq qanuriliniginik atauhiiqhutik nunamik naunaiyaq niganik Niqiliqivik 2019-mi himiktuunmi 3D-mi himiktuut 4-milu naunairiaganik qanurinigata qiqu manigata iluani.

Ihumaluknaq niganik ilituqhaut unipkaa nuluhuiqtitiyuq ilaa:

“Atuqaat taja ihuaqtauyut naunaiyautinilu naunaipkutit, himiktuutit qiqumainaq tumik iluliqaqtut taimaiginaqnaquuqtulu laisiuyumi piyumayainik. Ilagiyaa naunaiyaqniq iliturijuta uyut pijutauniat HES-mi ihumagiya uyut qiqu manigata auktuqnaqniqat hilaap aalaguqpalianiganit, himiktuutit nunami namainaqniqatut. Atuqaat hivuani havaariya uyut (Holubec-kunit 2006-mi EcoMetrx-kunilu 2006-mi) ilagiyaa TCA-mi umiktiqniganik upalugaiyautit, immarikniganik aktuqtaulaaq tut atpani kuuknigit TCA-mit kuukpata nalautaaqtauyut mikiniganik, nalautaaga uyut agiklivalianiga halumailruut kuuknigini miniaqturiya uyut mikiyuni kinipagituni nunani tamainilu kuuvallit auktuqniganit avigiiliqniginik. Tamaini ihumaluknaq niga Himiktuutit 3D-m 4-vlu ilagiyait HES-guyut qiqu maniganik naunairutit mikinahugiya uyut, taimainigani, ihumaluknaq niga ilagiyaa LES-mi qiqu maniganik atuquup mikiyuuniatuq.”

Ilagiyait ilituqhautit pihimayut hituqauniga naamakmagaa aturiaqaqtulu upijutit tikuaqtauyut himiktuun M-mi himiktuun K-milu. Ilaguit himiktuutit uyaraktaqviki nunami ilituqhaqtauyut naama niaqniraqtauyut.

Kiguliqmi Umiktiqniga Utiqtiqinilu Nunat Iltuqhiinut Upalugaiyaut (FCRP) itqaiyuq ilagiyaa ni umiktiqniganik hulijutit QA-mi QC-milu havaami ilaqaqniqatut *“Ihivriunigit amirinigilu atuqtuut ihuaqutit ataguuvikmi himiktuutit pijutauginaq niganik uqaqtauyumi Kiguliqmi TCA ARP-mi”*. Una ilaqalaaqtut qiqu maniganik ilituqhautit himiktuutini, titiraqhimayuni Naunaipkut 20-mi FCRP-mi. Havaaqarumayut taja aturumakmat talimani ukiuni kayumiitumik umiktiqniganik amirijutininik havaamik. Havaaqarumayut tunihiniaqut kiguani umiktiqnigata amirijutimik upalugaiyaunmik, uqatiaqnaquuq taja hivunikhamilu ihuaqutikhanik amirijutini.

ECCC-kut itqaiyut havaaqarumayut upijutiqaqmat uqariiqhimayamiknik atuqtilugu nutauniqhanik katimajutini pipkaiyulu ECCC-kunik aturiaqaqtunik hivunihijutininik himiktuutininik.

ECCC-kut Atuliquyautut:

ECCC-kut atuliquiyut imaa

- Pivikhaqnaq niga amirijutauginaqtut himiktuutininik avataanut talima ukiuq ilagiagani kayumiitumik umiktiqniganik pivikhaqnaqniqmi, takuupkailunilu tamaat hivituniga amiriniganik inigiya uyut; unalu
- Himiktuutit naama niaq niganik amiriniganik ilauyaagani kiguani umiktiqniganik amirijutininik upalugaiyaunmik.

3.5 ECCC 4 – Hivituniga Qiqumaniganik Amiriniga Pivikhaqaqnigalu Naunaitiaqluni

Naunaiyaqviit

- Kaujutit ECCC-TC4-mi 2019-mi Uuktuutauyuq Immaqmiq Aturiagani Nutaaguqtiqniganik Ihuaqhaqniganiklu Kiguliqmiq Umiktiiniganiluni Nunat Iltquhiinut Upalugaiyaut Nutauniqhanik Uqauhiqmiq Kiujutit Qiqaijaluaria 17 2019-mi.
- Golder Technical-kut Agirutaa tuniyauyuq November 15-mi 2019-mi Titiraqaaqhimayut Immaqmiq Aturiagani Laisiuyuq Qanurinihaanik Rev0-guyuq.
- Lupin Mine Igluqpaqaqvik Kiguliqmiq Umiktiiniga Utiqtiinigilu Nunat Iltquhiinut Upalugaiyaut, Taaqhivaliavi 2018-mi. Golder Associates-kut Ilanga 4.3.2.8-mi Atagunik Iliuraivik Hiamayaktailiviklu Atuqtuut; Ilanga 5.0 Amirijutiniq Naunaipkut 18-mi 20-milu.
- Lupin Mine Igluqpaqaqvik Kiguliqmiq Umiktiiniga Utiqtiinigilu Nunat Iltquhiinut Upalugaiyaut, Taaqhivaliavi 2018-mi. Golder Associates-kut. Naunaiyaqvik G Utiqtitpaliajutit Atuqtuukhaq.
- Tajajuaq Umiktiiniga Utiqtiinigilu Nunat Iltquhiinut Upalugaiyaut October-mi 2017-mi, Ilanga 7 Umiktiiniganik Amirijutiniq Upalugaiyaut.

ECCC-kut uqaqtangit

ECCC-kut ahiilu nuutqaqtiyut tikuaqhiyut ihariagiyauniganik amirijutiniq hivituyumik naunairiagani nakurutauniga utiqtijutiniq ihuaqhautit *hivuani* amirininigagut havaaq ihuligiaqtinagu. Umiktiinigagut upalugaiyautit Titiraqaaqhimayuqlu Immaqmiq Aturiagani Laisiuyuq Qanuriniq (Atuqtakhaq J Naunaipkut 1) takuupkaiyuq kayumiitumik umiktiiniganik havaamik amirininiga ihuliluni kiguani talimat ukiut (2026-mi). Hivituutqiyamik amirijutiniq ihariagiyaayuq pijutauniganik qanurilivalianiganik nunap aktuqniqaqtuq immarikniganik qanurilivalianiganik qiqumaniganik atuqtauliqniganit. Hivituutqiyaq amirijut pipkainiarunaqhiyuvuq havaaqarmayumi katitiriyaagani naamayunik amirijutiniq hivunihijutiniq naunairiagani nakuuyumik iniqtiiniganik aulainaqtut qanurinigat. Qanurilivalianigat tikuaqtaulaaqtut amiriyariaqaqniga atuliriagani mikiniqhami qanuriliuqnigani atuqtilugu kiguani umiktiiniganik pigiarutauyumi.

Kiujutimikni ECCC-TC4-mut pijutiniq amirijut hivituniganik, havaaqarumayut itqaiyuq ilaa:

“LMI-kut tunihiyumayut atauhiq ukiuq naatinagu agiqtauniganit nutaaquqtiqniganik ihuaqhaqniganilu laisiuyuq Kiguani Umiktiiniganik Amirijutimik Upalugaiyaunmik uvani ihuaqtut, malirualiqiyit ihivriunigagut uqauhiqnik, maniqami havaaguinaqtut, HHERA-mi qanurilinigat ahiinilu piquyainik NWB-kut.”

ECCC-kut atuqniqaqtut pivalianiganit uuma upalugaiyautip, itqaiyuqlu avatqutariaqaqtuq hivuani aturumayaayumik talimanik ukiuni kayumiitumik umiktiiniganik atuqnigani.

Pigiarut uqautauyuq Tattiarnaqtuq 2017-mi Taja Umiktilakniga Uniqtiitaaganilu Nunat Iltquhiinut (ICRP) pijutaayuq hivituutqiyamik amirininigagut havauhiqmiq uqautauyumik FCRP-mi, pijutauniaqmat ihuaqtumik atuqtakhamik ihumaliurutini naunaipkutiniq pijutiqaqtunik. ICPR-mi uqaqtut ima:

“Kiguani umiktiiniganik amirijutit pipkainiaqtuq ihuaqtutiniq ilituqhariagani uqaqtauyut iniqat nuna utiqtiiniganik ilitquhianut naunaiyautit pihimaliqata...Una umiktiiniganik havaaq amirininiganik nahuriyaayuq qulini ukiuni aturiagani igluuqpaqaqvik umikhimaliqat nunalu utiqtiiniganik ilitquhianut pigahulu ukiut naatkagata kiguani 25-n ukiut atuqhimaliqata.” Unalu “kiguani umiktiiniganik amirijutiniq hujutit avikturiagani malruuknut havauhikhanut; Havaaq 1

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– Aipagutuaraagat Amirijutit (ukiut 1-mit Qulinut) Havaaq 2-lu – Ikiklivalianigut Atuqnigut amirijutit Atuqtilugit ukiut 12, 15, 21, 24-lu atautimut 14-nik ukiunik amirijutit atuqtuni 25-nik ukiunik hivitunigani.”

Pijutauyummik TCA-mik, atuinaqtuq qanuriniganik halumailruvaluknik amirijut hauhijunmik qanuriniganik qanurilivalianiganiklu atuqhimaagtukhaugallut nalunaitiaqat hivitunigani naamatiaqniga immarikniga immaktut ataguuqvikmi pihimaliqata. Hivituniga amirijutit aturiaaqtuq naunaitiariagani una qanurilivalianiganik umiktirutit ihuaqhaqhimayut taimailvalianikhaanik kiguani.

ECCC-kut Atuliquyautut:

ECCC-kut atuliquiyut una:

- Havaaqarumayuq ilaupkainiaquq upilvikhanik immarikniganik ataguniklu hauhijut qanurilivalianiganik pijutauniaqtuq ikiklivaliariagani atuqataqniga qanuraaluklu aturumayauyumi kiguani umiktiqnigani amirijutinik upalugaiyaut.
- Amiriniga TCA-mi hauhijut immariknigalu hivitunigani naamainaqtumi ilaa Takuupkaiyaagani qanuriniga halumailruvalukniklu naamainariagani halumaniga taimugaraaluk.

3.6 ECCC 6 – Iqagunik Uyaraktaanik Ataguut Halumailruniklu Kuuknigut Havivalukniklu Kutiknigut

Naunaiyaqviit

- Kijutit ECCC-TC6-mik 2019-mi Tuukhiutinik Immaqmik Aturiagani Laisiuyumik Nutaaguqtiqniga Ihuaqhaqnikluniit, Kiguliqmiklu Umiktiqniga Utiqtinigilu Nunat Ilitquhiinut Upalugaiyaut Nunauniqhanik Uqauhiqnik Kijutit Qiqaijalarvia 17 2019-mi.
- Golder-kut Nunauniqhanik Agirutauyuq ubluqaqtuq Tattiarnaqtuq 15 2019-mi; Tautuktuuyaqniga Qanuriniganik Iqaguut Uyaqaat “kigikninua” Lupin Mine
- Stantec-kut Unipkaaga Ubluqaqtuq Niqiliqivik 14 2019-mi ; 2AM-LUP1520 Nunauniqhanik Katimajutmi Uqariikhimayut Nahautaa 3, 4-lu Kijutit – Iqaguut Uyaqat Hivunihijutinik Lupin Mine Atagunik Hiamayaktailivik Nuna.
- Golder-kut Unipkaaga ubluqaqtuq Tattiarnaqtuq 2019-mi; Inuit Aaniaginigit Nunamiklu Ihumaaluknaqnikanik Ilituqhaut Lupin Mine, Nunavut.
- Lupin Mine Igluqpaqavik Kiguliqmik Umiktiqniga Utiqtinigilu Nunat Ilitquhiinut Upalugaiyaut, Taaqhivaliavi 2018-mi. Golder Associates-kut Ilanga 4.3.2.1 Halumailruvaluknik Uyaqanit Kuukniga Havivalukniklu kutiknigut; Ilanga 4.3.2.3 Halumaiqtut Nunavut; 4.3.2.7 Iqaguut Uyaqaat.
- URS (URS Kuapariisiyuq). 2005. ARD/ML-lu Iituqhaqnik Iqagunik Uyaqanit Lupin Mine; Iidjurvia 2005.

ECCC-kut uqaqtangit

Havaaqarumayuq pipkaiyuq tautuktuuyaqaqtamiknik titirauyaamik atautimuktiqniganik qalikhaaniklu Iqaguut uyaqaat “kigikhiyaagani: 23.2 ha-mik uyaqivikmi igluqpaqavikmilu nunami. Itqaijunmi Golder-kut Nutauniqhanik Itqaijut, “Uyaraktaqvik, uyaqivik, igluqpaqavik, milvikmi igluqpak iniaqtuq nunami qanuriniganik kigikninuagani.

**Lupin Mine Timiuyuq – Lupin Mine Havaaq
Avatiliqiyit Hilaplu Aalaguqpalianigagut Kanatami
Kiguliq Titiraqhimayut Tunihijut Nunavumi Immaliqiyit Katimayinuit**

Takuupkaiutni uvani Titirauyaaq 1, kuukat kuukninuulu igluuqpakmit taja kuuktut amihunik ilaginik kukanut ukunani: Quuliq Annaguuqvik Tahiq; Boot Tahiq; Kivaliqhiani Tahiq Tahiqyuaqlu ukuaguyut.” Nuna Qiqumayuq ataani igluqpaqaqviup, immavaluulu kuuktut ukunuuna (akianut qaagagut iqaguut uyaqat) hatqiqpaktulu atpani kuukninuanik taja iqagunit uyaqanit qaliriiktiqhimayunit.

Atautimuktiqhimayut uyaqanik kigikninuaq qaliyauniaqtuq 1.0-miitamik haatumik hilikniqaqtumik qimiaquyuup hauraanit uyarilianiklu iluanuktuqagitaagani kuuknigilu mikhiyaaganilu qaliqagituq nunap qaaga iqagunik uyaqanik. Nahuriyauyut kuukninuagut kuuknigilu nalautaagaayut taja hilap qanuriniganit nalautaagaayulu 2081-mit 2100-mit akungani hilaap qanurinikhait. Nalautaagaayut kuukniga qanuraaluk agitilaaga aipagutuaraagat immavaluqaniga 15.8%-guyut taja qanuriniganit 25%-miklu 2081-mit 2100-mut qanurinigni.

Nutaaqukti qhimayut Inuit Aaniagininik Nunamilu Ihumaluknaqniganik Ilituqhaut (HHERA) pihimayuq naunaiyariagani akturutaulaaqtut pijutiqaqtut “kigikninuamit” kuukniginuit. Manimiyut kuukvikhat tikuaqtauyut halumailrutinik ihumaluutaulaaqtunik qaiyunik iqagunit uyaqanit. Unipkaa iniqtiriuyut “ARD-nik aktuqtauyut kuuknigit pijutaulaaqtut hivunikhami aktuqniginik nunap qaagani immarignigit kuukviuyuni tahivalukni (Boot Tahik, Kivaliqhiani Tahiq, Atpahiqniganilu Annaguuqvik Tahiq). Aktuqnigit immap qaagit immarigniginik Tahiqyuami nahuriyauyut mikauniaqniginik”. Ilituqhautniga pihimayuq atuqhutik napainik amigainiginik agiyunik ilaliutivaliagininik iqagunit uyaqanit, tikuaqhiyulu cobalt-mik, kanuyamik, pH-milu halumairutaulaaqtut ihumaluutit Boot Tahiqmi, Kivaliqhiani Tahiqmi, Atpanilu Annaguuqvik Tahiqmi. HHERA-mi atuliquiyut immarigniganik amiriniga atuqtauyaagani Boot Tahiqmi, Kivaliqhiani Tahiqmi, Atpanilu Annaguuqvik Tahiqmi, ilituqhariagani taja qanurinigit, kiguani naunairiagani qanuriliuqpalianiganik ihumagilugit nalautaagaayut, tukuaqhilutiklu kitunikliqaa ihumagiyaayunik (Ilanga 6.3-mi)

ECCC-kut itqaiyut HHERA-mi ilituqhautit atuqtut amihuni agiyunik iliurainiginik atuqtanik; taimainigagut ilituqhautit mikiyuuyaaqtut. Amirijutit atuqtuukhauguluit nalunaitiariagani nalautaagat halumailrunik piqaqniginik hivitunigalu aginiqhanik halumaituqaqniginik ilaliutivalianigilu, nalunairiaganilu aturiaqaqmagaa ihuaqhautikhanik pigiarutinik.

ECCC-kut Atuliquyautut:

ECCC-kut atuliquiyut una:

- Havaaqarumayuq naunaiyjavait hanianiitut tattit – Kivaliqhiani, Boot, Atpanilu Annaguuqvik – hivuani iqaguut uyaqat kigikhitinagit ila hanayautinagu qaguguraagalu amirihimaaqlugu tamaini hunauniginik havivaluit pH-guyulu nalunairiagani nalautaagat kuuknigit immarigniganit qanurilivalianigalu.
- Havaaqarumayuq amirijavaa immarigniga takuukhaayunik qupiknigini kuuknigiluniit iqaguni uyaqani qaliriiktauyunit.
- Havaaqarumayuq tikuaqhijavut igataumaniginik ihuaqhariaqaqtunik qilamik kuuknigini halumaniganit amiriniganit kuuktut kuutiqtuvaluulu.

3.7 ECCC 7 – Ikitariipkutit Iqaqtauniginik

Naunaiyaqviit

- Kiujutit ECCC-TC7-mik 2019-mi Tuukhiqtuunmik Immaqmik Aturiagani Laisiuyuq Nutaaguqtiqniqa Ihuaqhaqniqaluniit, Kiguliqlu Umiktiniganik Nunalu Utiqtiniganik Ilitquhiinut Upalugaiyaut Nunauniqhanik Uqauhiqmik Kiujutit Qiqaijaluarvia 17 2019-mi.
- Lupin Mine Igluqpaqaqvik Kiguliqmik Umiktiqniqa Utiqtinigitlu Nunat Ilitquhiinut Upalugaiyaut, Taaqhivaliavi 2018-mi. Golder Associates Ilanga 2.1.7; Naunaipkut 14; Ilanga 4.3.2.9; Ilanga 4.3.2.11.

ECCC-kut uqaqtangit

Havaaqarumayuq ilituripkaiyuq maliruaqniqniraqhutik ihuaqtunik maliruakhanik iqaqtauniginik ikitriipkutiqagtut hanahimayut.

ECCC-kut ihumagiyaat una ihuaqhiniganik.

3.8 ECCC 8 – Titiraqaaqniqa Immaqmik Aturiagani laisiuyuq

Naunaiyaqviit

- Golder Technical-kut Agirutaa tuniyauyuq November 15-mi 2019-mi Titiraqaaqhimayut Immaqmik

Aturiagani Laisiuyuq Qanurinikhaanik Rev0-guyuq.

ECCC-kut uqaqtangit

Havaaqarumayuq pipkaiyuq titiraqaaqhimayumik Immaqmik Aturiagani Laisiuyumik Qanuriniganik ilaqaqniaqtuq atulirumayaayunik ataguut halumaniginik kiklikhainik (Ilanga E.S), titiraqhimayuniklu kagiqhijutinik ilaqaqtumik “Ilitariyauniga Umikniganik Uyaraktaqvik” ilagani MDMER-m. ECCC-kut itqaiyut una:

1. Atuqtakhaq J Naunaipkut 1 titiraqaaqhimayumik Qanirinikhaa tikuaqhiyuq nahuriyaayunik kuuktiniginik atuni havaami. Atuqtilugu Umiktiniganik Havaaq (2020-mit 2021-mut) kuuktitiniaqtut 2020-mi Tahiqamit 2 havakvikmit (LUP-10), amiriyauyuq kuukniga immaqmik aturiagani laisiyumi MDMER-milu. Atuliqat kiguani umiktiqniqani havaap (2022-mit 2026-mut) kayumiitumik kuuktitiniaqtut hikuitilugu, ihumagikpat kuukvikhaq atulaaliqniqat.
2. Ataguit halumaniginik aturumayaayut Ilanga E.5 ajikutarikpagit mikitqiyaukpataluniit taja MDMER-mi Kuuktitakhanik agitilaaginik. Ilagiyaani, ukua kuuktitijutit kiklikhainik aalaguqniaqtut tikitpat Imaruqtirvia 1, 2021-mi. Talvuuna, MDMER-mi kiklikhairt halumailrunik mikhiniaqtut 0.3 mg/L-mut amigainigini uvauniit 0.6 mg/L-mik aginiqhamik. Ajikutaani, kiklikhait tuqunaqtut atpaqniaqtut 0.5mg/L-mik amigainigini 1.0mg/L-miklu aginiqhamik avugiiktuni. Kiklikhaa havivaluqagitunik mamailrunik atuliqniaqtuqlu; una kiklikhaa 0.5 mg/L-guniaqtuq amigainigni 1.0 mg/L-mikluniit aginiqhamik avugiiktuni. Pikpat havaaqarumayut aturiaqaqtunik Ilitariyaayaagani Umikniganik Uyaraktaqvikmik ilagani Ilanga 32(2) MDMER-mi, ikiniqhanik pigahuni ukiuni piniaqtuq, kuuktitilaqtut TCA-mit aturiaqaqniaqtumik ukuniga nutaanik kiklikhanik.

3. Pijutauyumi tukitaarubmi uumiga “Iilitariyauhimayumik Umikniganik Uyaraktaqvik” Atuqtakhani A-mi Tukitarutit, una Uqatiaqtaiyuq havaaqarumayumit naniyauniga ilagani Ilanga 1 MDMER-mi. Una tukitaarut aturiqtauyuq Imaruqtirvia 2018-mi ihuatqiyauniarunaqhiyuqlu uqarilugu Iilitariyauhimayumik Umikniganik Uyaraktaqvik pivakniganik qanurikhait Ilanga 32 MDMER-mi.

ECCC-kut itqaiyut kitunikliqaa atagunik kuuktiniginik TCA-mit pijutiqaqniaqtut MDMER-mi tikitpat Iilitariyauniga Umikniganik Uyaraktaqvik piyauhimaliqat. Talvuuna, kituliqaa immavaluit TCA-mi pihimayauniaqt kuuktitaulutikluniit atuqlugu MDMER-guyuq. ECCC-kut itqaiyut havaaqarumayumik umikniganik uyaraktaqvik ilitariyauniga pihimaliqat hunaliqaa kuuvaluit kuuktitijutluniit inigiyauyumit malitiaruaqatut hunanikliqaa atuquyauqitunik uiguata ilagani 36(3)-mi *Iqaluliqinikut Maligaqyuami*.

ECCC-kut Atuliquyautut

ECCC-kut atuliquiyut

- Havaaqarumayuq itqaiyuq atulirumayauyuq ataguut halumaniganik qanurikhainik ilagani Atuqtakhap 4-mi atuligtukhat Imaruqtirvia 1 2021-mi piyuqaqniaqtat kuuktitiniqmik kiguani Imaruqtirvia 1, 2021-mi.
- Havaaqarumayuq nutaaguqtitiyut tukitaarunmik “Iilitariyauniganik Umikniganik Uyaraktaqvik”.

4.0 Iilitariyaunigit

ECCC-kut quyagiyumayait NWB-kut uumiga pivikhaqaqniqmik pipkaiyaagani uqauhiqnik ihivriunigani havaami Lupin-mi Uyaraktaqvik Havaami Qanuriniganik A Immaqnik Aturiagani laisiuyuq nutaaguqtiqniganik tuukhiqtuunmik havauhiqmi.

ECCC-kut nutaunighanik ihivriunigagut uqauhiuyut ukualu atuliquyauyut kagiqhijutauryariaqagitut hunanikliqaa kagiqhimajutunik, malitiaqniganik, atulaaliqniganik, agiqtauniganik, piqyauliqniganik, hapkuniganikluniit maniiyautinik pijutiqaqtunik kitunikliqaa aturiaqaqtunik malitiariagani kanatami ukiuqtatumilu maligakhat maliruakhalu.