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$\Delta P \propto \Delta C \propto \Delta b \propto \Delta C / \Delta L \propto \Delta C \propto \Delta L \propto \Delta C$

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CΔLΔ^aσ^bΛ^c ካወልጋረብናል ልክለኛውን የሚያስተርጓሙ ሁሉም ተመሳሳይ አወልጋሪ ልዩነት
RSA-7, ወይም የሆሊር ቦታው ለሚጠቀሙ ሁሉም ልክለኛውን የሚያስተርጓሙ.

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Hivulliqpaat Nailiyauhimayut

Hamna Hanningayum Kugaa Havaariyakhat (Havaktakhaq) angiriqtauhimavluni kuulunit havaariyauyukhat nanminiqagtut Sabina Gold & Silver Corp. (Sabina) iluani Uataanit Kitikmeot aviktuqhimayumi Nunavunmi. Una havaariyauyukhaq ilaliutilik pingahunik inikhalik: Goose Nanminiriyauyuy, George Nanminirauyuq, unalu Taryum Inikhautikhait Inianit (MLA) nayugaa uataanit hinaani pingangnami Kingaok. Sabina upalungaiyautigiyaat Avatilirinirnut Aktuqtaunirnut Kiugakhaat (EIS) naunaiyainahuaqhutik ihivriurnahuaqhutiglu aktuqhimayangit avatiit inuuhirinirngut aktuumayauyut haffuminngat Havaariyakhanut, ilaliutaulunilu kiugialik tiliuqhimayut iluani Nunavut Nunataarutaata Angirutait (NCLA) unalu Nunavut Avatalirinirmut Katimayiit (NIRB) uuminngalu Nunavut Avatilirinirnut Katimayiit (NIRB) Maliktakhat Upalungaiyaigiangani haffuminngat Avatainnit Aktuqtauviniit Kiudjuhiit haffuminngat Hanningayum Kugaa Havaariyakhat (NIRB File No. 12MN036; NIRB 2013). Hamna ilaliutauyut haffuminngat EIS kiugaqhuni ihivriqtauhimayut aktuqtauhimayut avatiit akturninganit ukuninngat taryurmiuttat ilaliutauhimayut angiqtauhimayut Havaariyakhat hulidjuhiit malikhugu attuqtakhanut ukuninngat ingattarqhittailinirnut aulattitiiyunut uukturautainit.

Hamna hivumuurutikhainit aktuumayauyunut Ihumagiyauyut Nunait Uumyalingnit Avataillu Ilaliutait (VECs) ilaliutauhimayut Sabina'tkut kitunuliqaak kiuqattaqtaviniit katimadjutaayunillu, atuqhimayangit haffuminngat Inuit Pitquhiutait Qauyimayangit (TK), maligakhaliuqtiit kiuqattaqtut uuminngalu maligautikhanut ihumaliugait haffuminngatut hapummiyauhimayut ilitquhiitait uumayunit ilagiinngillu, kiuqattaqtakhait turaaqhimayut ukuninngat NIRB EIS maliktakhait (NIRB 2013). Una *Inuit Pitquhiriyangit Qauyimayangit haffuminngat Gold & Silver Corp., Hanningayuq (Hannigayok) Havaariyakhait, Naonaiyaotit Pitquhiriyangit Qauyimayangit Havaariyakhait Unipkaarutait* (KIA 2012) kiuqattautihimayangit qaffiiqhugu ukuninngat TK naunaiyainirnut. Haffuminngat ilitturihimayauyut, hapkuat titiraqhimayut taryurmiuttat ilaliutait tikkuqaqtaaqhimayut uuminngat VECs: taryurmiuttat imaup naammagininga, imarmiuttat hiurait naammagininga, taryurmiuttat iqaluk/imarmiuttait uumayuit, imarmiuttat Iqaluit nunaqatigiiktut, taryurmiuttat tingmiat/taryurmiuttat tingmidjat, nattiillu. Taryurmiuttat timingat pivallianingit ihumagiyauyut qanuq Naunaiyaiyukhat tamainnut kiugialik naunaitkutut titiraqhimayut ukuninngat EIS maliktakhat ilaliutauyut uvani ilaliutikhainit. Naunaittiarumaguffi haffuminngat maniliurahuagtut agyaqattaqtut unalu utiqattaqtut tingmidjat ivavianit imarmiuttat uumayuit ilaliutauyut taryurmiuttat/imarmiuttat tingmidjat nattiillu (taryurmiuttat amaamayuktut) ilaliutait. Una imarmiuttat kuviyauhimayut taryurmi uqhuryuat inikhaat pivallialihaaqhimayut haffuminngat Havaariyakhamut nanilaqqiuk uvani Ilaliutait 9 haffuminngat DEIS.

Ihumagiyauyut akuqtauhimayut ukuninngat VECs ihivriqtauhimayut inilingnit iluani Nayugaanit Ihivriqtauhimayut Inianit (LSA) angitqiyaaniglu Aviktuqhimayumi Ihivriqtauuyukhat Inikhaa (RSA). Hamna imarmiuttat LSA pulahimayuq uuminngat 32 km² ilaliutauhimayuqtaut imarmi ilainnaa haffuminngat Ihumagiyauyut Pivallianinga Inikhaa (PDA) haffuminngat MLA uuminngalu qaangiqtat imaup ilainnaa ukiumi apquliqtauhimayuq Qingaukkut (~14 km) ukuninngat Nunavut ahiamut. Una imarmiuttat RSA pulahimayuq 3,000 km² ilaliutauvlunilu imarmiuttat LSA uuminngattaq tamainnut Kingaop kangangnamit Omingmaktokmit. Tamainnut ihumagiyaulluaqtangit Havaariyakhat aktuqtauhimayut ihivriqtauhimayut Upalungaiyaqhimavlutit Nayugaanit, Igluliuqhimavlutik, Aulattitihimavlutik, Hanaffaarmivlugit Umiktaugumilu, unalu Umiktautinnagu Havaariyakhat ilanganit. Maligautit ihumagiyauyut ihivriqhimavlutik ilaliutauyut ukuninngat Iqalukhiurnikkut Atuagat, Uumayut Aktuqtauhimayut Atuagat (SARA), Utiqattaqtut Tingmidjat Atuagait, unalu Nunavunmi Uumayuliriryuat Atuagait. Kaniitian Katimayiit *Ministauqatigiit Avatilirinirnut* (CCME) imaup hiuraillu naammaginingit maliktakhait haffuminngat hapumminahuarnikkut imarmiuttat unalu kuugarmiuttat taryurmiuttallu uumayaqaqtut atuqtauhimayut iluani imaup hiuraillu naammagininganit ihivriqtauhimayut.

Hamna ilaliutauhimayut turaaqtauhimayut nailihimayuyut haffuminngat atuqtaaqhimayuyut avatingnut, hivulliqaallu Havaariyakhait hulidjutikhait naahuriyauhimayut ilaliuyaami ukuninngat imarmiuttat VECs, ingattaqtailidjutikhanut uukturautait, aktuumayuyut ihivriutauhimayut, aturnaqqat, angiktiqtaqtut aktuumayuyut uukturautait tamainnut imarmiuttat VEC nut.

Imarmiuttat Nanminilgit Pivallianingit

Una MLA nayugaa uvaniittuq kangangnaa uataanit hinaani Kingaok, hitiyaaqhuni kangiqhua katilviuyuq qaangiqhuni 200 km pingangnami-kangangnamillu. Hamna nahittarvia apqutaa hitiyaaqhuni hitingania 100 nit 200 nillu miitastigut aktigiyaaqtuq iluani kangiqhuani, kihiani amihuuyut qaliriikhimayut qitqani uvani kangiqhuani puqtulaaqhuni hivilaaqhuni 50 m qaanganut.

Tunngavia taryum timinganit naunaitkutaa kititiqtauvaktut iluani Kingaomit 2001 ngulihaaqhuni iluani taryurmiuttat LSA 2013 mi. Kiudjutaat takunnaqhuni katilviuhimayuyut hivulliqaami taryum hikunga (1.5 mit 2 m mut hivitunia) taimaa pulalaaqhutik kangiqhua Tattiarnaqtumi-Imaruqtirvianut, hamna hikua ahirulaaqhunilu hikuiyaqpakhuni Imaruqtirvia atulihaaqhumi Taaqhivalirvianut. Imaqtirnia angikliningit nukiiqpiaqhuni iluani kangiqhuani, imaiqtitpakhuni 0.5 m.

Hamna imaup ilitqulia ilaliutauvaktut hakugikpiaqtumik qaliriiqtutut ittut angmaumagaangat imaup angmaqtirnianit ukuninngat 15 nit 20 nut uunavyaktumik, nutaaqpiatut, qulaa niklaumaqpiatut, taryulingnit ataanit qaliriinga (Rescan 2008, 2012). Hamna qaliriiqtutut nukiiqtiauyuyuk hikuqaqtillugu ilaliutaunngitpat imatqiqpiaqtumik hamnalut taryulingnit pulavakhuni hikunahualiraangami. Imaup kaivinngit malikhivlutik malrurnik qaliriiqtutut kuugaum taryumlu katilviutaa kuhirnia qulaanngat imaup ingutaaqtuq pingangnamut Iluillirnut hitiyaaqtuq imaq ingilrayuq kangangnamut Kingaungmut. Hamna kuugaum taryumlu kuhia pivalliavluni nakiqtutut ittuni taimaa ilaliutauvlunilu imatqiktumik ilaliutauyut amihuuyut kuugait kangiqhup hinaani, haffuminngattut Uataa Kuugaa uvani pingangnami kangiqhua uuminngalu Hiukitam Kuugaa kuvihimayuyuk iluani Gordon Kangiqhuni. Ihumagiyaulluaqtut pirilaaqhuni tamainnut taja atuqhimayut kayumingnia maliktakhainillu piyaaqaqtuq hakugikpiaqtumik akturnianut anurium qulaani imaup amihuuningit. Kayumingnia iluani kangangnaum Kingaomit qaliriinga naihimalaaqhuni 10 cm/s iluani ataani qaliriinga, uvanilu qulaa aallanngavluni haffuminngat 20 nit 60 nut cm/s, titiraqtaaqhimayut aktuumaalaaqhunilu 90 cm/s anuritagyuaraangat.

Mallirninga angiklingnia uukturautait ilaliutauyut haniani MLA naunaiyaiyut hamna qulaa mallirningit mikitqiauyuyut, nailihimavlutiklu uuminngat 0.5 m imaq angmaumagaangat, kihiani angiklinganit tikitpaktut 1 m uuktuqtauvaktut. Tagyaangit katilviuvaktut anurigaangat, kititiqtauvakhutik imaiyarniat naunaqhigaangat.

Imarmiuttat Taryurmiuttat Nakuuninganit

Tunngavinga imarmiuttat nakuuningat naunaiyainit kititiqtauvaktut ukuninngat imarmiuttat RSA iluani Kingaok 2001 nguqtinnagu uuminngalu iluani 2013 mi. Hamna kiudjuhiit takunnaqhunilu taamna imaup uvani kangangnami Kingaok aktuumaunngittuni Ukiuqtaqtum taryurmiuttat imait, ikittumik ilaliutilingnit ilaliutilgit, ilaliutaunngittut napturaliit, havigaliillu. Ilaliutilgit ikitqitauyut iluani angmaumanirmi qaangani qaliriikhimayumi uvani ukiungani taimaa pivalliavluni (e.g., uumayuqaqtunit) unalu imatqiktumik imautait ukuninngat hikut aukturaangat unalu imatqiktumik kuhirnianit. Niklaumagaangat kuviyaaqtut ilaliutilik kuvilaaqturalingnit hanianiivlutik ataanit ilaliutait auyami imautait qaanganiittut, taimaa uumayuit imarmiuttait uuktuumiyaalaaqhutik uuminngat (>0.01 mg P/L). Havigaliit ilaliutait naittuuvlutik ukuninngat CCME maliktakhainit hapummiyauhimayut taryurmiuttat uuminngalu kugaa taryurmilu katilviuyunit unalu uumayunit naunaittiaqhimanninnamiklu. Haniani hinaani nayugaat kuugalingnit tatahimayunut uvaniluniit ikkattumi imarmit ilaani kingikpakhutik hunavaluit nutqaqhimavaktut unalu havigaliit uyarait. Havigaliit ilaliutait ilitquhiriyait angiklivaktut havigaliit qulaani CCME taryurmi imarmi maliktakhainiit

ukuninngat LSA. Hitiyumi imait ahivaqpaktut uumayulaaqtut ilaliutait ilaani ataaniittut ukuninngat CCME ahivaqpaktut uumayulaaqtut maligautait haffuminngat 8 mg/L, taimaittut iluani hitiyumi kangiqhurmi taimaa hitiyut kayumiittumik uumayuit ilaliutait uyaranngulaaqhimayut.

Havaariyauyut aktuomalaaqhutik ukuninngat taryurmiuttat imait ilanganit VEC ilaliutauyut agyaqattaqtut hulidjuhiat, hiurait uyaqqat iluanunngaraangat imarmut naunaiqpagaat ukuninngat nayugaanit upalungaiyaiyut, igluliuqtunut, ihuaqhiffaaqhimayunut; nayugaanit aktuomayauyut imait; ukiuraalungmi atuqhimayangit apqutiit; qaaqtuinirnit, uqhuryuat kaasiliillu, uuminngalu qayangnaqtulingnit (PAHs); amiriyauyut ahivaqtauhimayut; ihiillu iqqaqtauuyut. Hamna aktuqtauhimayut haffuminngat hulihimayut ihivriuqtauhimayuugaluit qanuq aktuqtauniarmangaat hulidjutinit inikhaanit ukuninngat imarmiuttat avatainnit, ilaliutauyut kuhiqhimayullu, aktuqtauhimayut hanaqiyauhimayullu aktuqtauningit (agyaqattaqtut umiakkut) amiriyauyut ahivaiyaiyut, tingmiallu ihingningit. Hamna ingattaqhittailinikkut aulattitinirnullu uuktuqhimayangit tiliuqhugit amiqhaiylutik hapkuat inikhautikhait, uuminngalu nailihimavagait ahivaqhugillu ihumagiyaayut Havaariyakhaat aktuqtauhimayut haffuminngat imarmiuttat naammaginingit VEC ilaliutauyut: nailihimalugit pittailinahuarlugilluniit umiaryuat kayumingningit pittailinahuarlugilluniit umiaryuat hitimut imarmunngauquingittut, nutqarnahuaqhugit kuvihimayut manirarmut ahinunngaraluarugillu pittailinahuarlugillu imaq kititihimayut tahiarmut uvani MLA nit, atqhugillu nunaliqinirnut naammagiyaayut ihuaqutikhait apqutikhanut ilaliutauhimayunillu, malikhimalugit maligautait maliktakhait maligialgit amiqhainahuarlugit ahivaiyaiyut, unalu nakuuyumik aulattitihimayunit uukturautait tutquumavikhanut, agyaqhiiyunut, atuqhimayangit uqhuryuanut, qaalaqtunut, unalu qayangnaqtumik hunavaluit uuminngalu ihiit igittihimayangit ikulahimaningillu.

Malikhimayangit aturialik haffuminngat ingattarnittailinirnut amiqhaiyunillu uukturautait, pingahut amiakkut akturtaunikkut naunaiyaihimayut: imarmiuttat imaup naammaginingit aallannguqtihimayut agyaqattaqpakkamik (anguutit uaqhimayut), hiurait iluanunngaqtut ukuninngat taryurmiuttat imait kiuyauyut haffuminngat nayugaat upalungaiyautit, igluliuqhimayut, ihuaqhaqhimayut, unalu imarmiuttat imaup aallannguqhimayut aktuqtaunirnut imaup akturninganit. Hamna angiyaaqtuq ihumagiyaayut amiakkungit naahuruhimayauyut ikittuq, nalinganingit hivitunianit (inuuraarluni inuuhianit Havaariyakhanut), qanurilingavakhuni ilitquhiita, nailihimayauvaktuq iluani imarmiuttat LSA. Hamna amiakkungit aktuqtauningit ihumagiyaavaktut aallannguqtilaaqhuni. Qanurilinganiit ukuninngat pilimmakhainirnut haffuminngat ingattaqhittailinirnut uukturautait tiliuqhimayut iluani Imarmiuttat Aktuqtaunianut Amiqhaiyut Upalungaiyautit (AEMP; Ilaliutit 10, Ilainnaagut 19) ukuninngat Nayugaat Imarmut Amiqhainirnit Aulattitinirnut Upalungaiyautit (Ilaliutit 10, Ilainnaagut 7), hamna angiyaaqtumik amiakkut aktuqtauningit haffuminngat imarmiuttat imaup naammaginingit kangiqhihimayauvluni Angiyaaqtuunngittuni.

Hamna aktuqtauhimayungnaqhiyaayut aktuqtauningit ihivriuqhimayut pilihaaqhimavluni ukuninngat amiakkut Havaariyakhanut aktuqtauhimayut kangiqhiyahimayut. Taimailiqtaunniramik hamna Havaariyakhat aktuqtauhimayut nailiyauhimayut ukuninngat imarmiuttat LSA, qanittut havaariyakhanut taimaa aktuqtaulaarungnaqhiyut ukuninngat Havaariyakhanut hilataani kiglingani ittuuvluni haffuminngat kititilaaqtut aktuqtauninganit ihivriuqtauhimayut unalu, taimaalu angikliktauhimayut aktuqtauhimayut haffuminngat imaup nakuunirninganit. Hamna Havaariyakhat amiakkuuvluni ukuninngat imarmiuttat LSA, ittuuvluni iluani Nunavunmi, taimaa amihut kiglinganiinngittuni aktuqtauhimayut.

Imarmiuttat Hiuralingnit Naamaginiit

Hiuraligit nakuuningit naunaiyautit kititihimayut ukuninngat imarmiuttat RSA iluani Kingaok 2001 nguqtinnagu hivunikhugulu iluani LSA uvani 2013 mi. Hamna hiurainnat avataa iluani Kingaongmi imainnavluni hitinia manirauvluni, uvani ikkattumi, nunaup hinaani hiqumittaaqtuni

nutqaumalaaghunilu taimaa aktuqtauvakhunilu haffuminngat anurium anuqhigaangat imarmi ittuq taryum natqani. Hamna, ikkatqiyaugumi hiuralgit uuminngat (<5 m) uvani Kingaungmi kititqihimayuyut maniittut hiurait hiuralgit (60 mit >95% mut) manitqiyayut uyaqqat naniyauhmayut iluani hititqiyaanit imait 100 m taryum hinaanit (50 mit 90%mut). Hiurait haniani MLA iluani LSA hiurainnauvluni (>75%), uvani kihiani haniani taryuam hinaa avataa taimaa Havaariyakhat hulivangniaqhutik. Havigaliit uyarait ukuninngat imarmiuttat hiurait katilviuhimayut ilagiyaavlutik amihuuyut marluinnat hiuraillu uyarannuqtut ilaliutait, iluaniittutiktauq imarmi hititqiyaani. Hamna ilitquhiita kingitqiyami uyarait haffuminngat qayangnaqtut, havigaliit uuminngalu kannuyat ihivriuqtauvaktut iluani hititqiyaani hiuralingmi angitqiyauvlutik haffuminngat CCME hiurainnarnit nakuutqiyaanit maliktakhanut hapummiyauhmayavlutik imarmiuttat uumayunit. Hamna hiuralingnit havigaliit haniani MLA ihivriuqtauhimayavlutik ilitquhiita nailihimayut, naahuriyauvluni haffuminngat ilagiiktunit angitqiyauvluni hiurainnait ilaliutait.

Havaariyakhat aktuqtauhimaningit haffuminngat imarmiuttat hiuralingnit nakuuninganit adjigiingniguuq inikhautikhait ingattaqhittailiuvlutik amiqhaivlutik uukturautait tiliuqhimayut haffuminngat imarmiuttat imaup nakuuningit. Hamna inikhautikhait ingattaqhittailinirnullu aulavikhaillu uukturautait tiliuqhimayut haffuminngat imaup taryum nakuuninginngagut. Hamna inikhautingit haffuminngat havaariyakhat hulidjuhiat uuminngalu imarmiuttat hiuralingnit nakuuniquhauit VEC naunaiyayut kuvihimayut, aktuqtauhimayut havaktauyut aktuqtauningit (agyaqattaqtut), ahivaiyayut, unalu tingmianut ihirningit. Taamna adjigiiktuq ingattaqhittailinirnut amiqhaiyunillu uukturautait atuqtaulaaghuni tukiqaqhuni qulaani imarmiup imaup nakuuninginngani ilanganit.

Malikhimayangit aturialik haffuminngat ingattarnittailinirnut amiqhaiyunillu uukturautait, pingahut amiakkut akturtaunikut naunaiyahimayut: imarmiuttat imaup naammaginingit aallannguqtihimayut agyaqattaqpakkamik (anguutit uaqhimayut), hiurait iluanunngaqtut ukuninngat taryurmiuttat imait kiuyayut haffuminngat nayugaat upalungaiyautit, igluliuqhimayut, ihuaqhaqhimayut, unalu imarmiuttat imaup aallannguqhimayut aktuqtaunirnut imaup akturninganit. Hamna angiyaaqtuq ihumagiyauyuq amiakkungit naahuruhimayuyut ikittuq, nalinganingit hivitunianit (inuuraarluni inuuhianit Havaariyakhanut), qanurilingavakhuni ilitquhiita, nailihimayauvaktut iluani imarmiuttat LSA. Hamna amiakkungit aktuqtauningit ihumagiyaavaktut aallannguqtilaaghuni. Qanurilinganiit ukuninngat pilimmakhainirnut haffuminngat ingattaqhittailinirnut uukturautait tiliuqhimayut iluani Imarmiuttat Aktuqtaunianut Amiqhaiyut Upalungaiyautit (AEMP; Ilaliutit 10, Ilainnaagut 19) ukuninngat Nayugaat Imarmit Amiqhainirnit Aulattitirnut Upalungaiyautit (Ilaliutit 10, Ilainnaagut 7), hamna angiyaaqtumik amiakkut aktuqtauningit haffuminngat imarmiuttat imaup naammaginingit kangiqhihimayauvluni Angiyaaqtuunngittuni.

Hamna aktuqtauhimayungnaqhiyauyut aktuqtauningit ihivriuqhimayut pilihaaqhimavvluni ukuninngat amiakkut Havaariyakhanut aktuqtauhimayut kangiqhiyahimayut. Taimailiqtaunniramik hamna Havaariyakhat aktuqtauhimayut nailiyauhmayut ukuninngat imarmiuttat LSA, qanittut havaariyakhanut taimaa aktuqtaulaarungnaqhiyut ukuninngat Havaariyakhanut hilataani kiglingani ittuuvvluni haffuminngat kititilaqtut aktuqtauninganit ihivriuqtauhimayut unalu, taimaalu angikliktauhimayut aktuqtauhimayut haffuminngat imaup nakuunirninganit. Hamna Havaariyakhat amiakkuuvvluni ukuninngat imarmiuttat LSA, ittuuvvluni iluani Nunavunmi, taimaa amihut kiglinganiinngittuni aktuqtauhimayut

Imarmiuttat Iqaluk/Taryurmiuttat Nayuqpaktangit

Hamna VEC imarmiuttat iqaluk/taryurmiuttat nayuqpaktangit ilaqaqhutik tamainnut nanminiriyangit nayuqpaktangit uuminngalu uumayuit avatait tigulaaqtangit tamatkiumaningit haffuminngat imarmiuttat iqalut uumayuit unalu amihuuningillu imarmiuttat iqalut nunaqatigiiktut.

Tunngavinga imarmiuttat nakuuningat naunaiyainit kititiqtauvaktut ukuninngat imarmiuttat RSA iluani Kingaok 2001 nguqtinnagu uuminngalu iluani 2012 mi 2013 milu. Taryum hinaani haffuminngat LSA unalu hivuraa ilanganit haffuminngat RSA amigaitqiyaavlutik haffuminngat ikkattumik imaup illirvianit, taimaa angiklihimayauyuq angitqiyaanik haffuminngat 10 m ungahingnialu 120 m hinaanit. Qulaanit, ataani angitqiyauyuq 40 m nit. Hamna maniraa iluani imarvingit kiglia hiurainnauvluni uyarialiqahuni, uvani hititqiyaani marluinnaavlunilu. Hamna naunaiyahimayut taryum hinaanit inuit qauyimayangillu, ihumagiyaulluaqtangit nayuqpaktangit haffuminngat imarmiuttat iqaluillu nalunaiqtauhimayut ukuninngat LSA unalu RSA. Ilangit ikaaruhingit kuugainni ihumagiyaulluaqhimayauyut Iqalukpiit nayuqpaktangit (*Salvelinus alpinus*), ilangit imaa utiqattaqtunut inikhautivluniuk iqalukpiinnut. Hinaaniitpaktut maniraa unalu ikkattut hiurainnarmi ihumagiyaulluaqaktangit Angmagiakhiavakhuni (*Mallotus villosus*) nayuqpaktangit.

Una ihivriurningit haffuminngat Havaariyakhautit-ilagiyangit aktuqtauningit uuminngat imarmiuttat iqaluk/taryurmiuttat nayuqpaktangit ilagiyauyut aktuqtauningit haffuminngat Havaariyakhat hulidjuhiat ukuninngat taryurmiuttat nayqpaktangit iqalungnit. Aktuqtauhimayut upalungaiyqhimaittumik kiuyauhimayut ilagivlugit haffuminngat imarmiuttat imaup nakuuginingit unalu hiuralingnit nakuugininganit ihivriurningit. Havaariyakhat hulidjuhiit upalungaiqhimaittumik aktuqtaunirnit imarmiuttat iqaluk/taryurmiuttat nayuqpaktangit ilaliutauyut uuminngat iluani - imaup hulihimaningit haffuminngat MLA igluliurahuarnikkut (iluani - imaup igluliuqhimayunit ukiunnguraangat tulagvikhaat unalu hinaani tutigvikhaat).

Hamna malikhiyangit uukturautait naahuriyauyut ingattaqtailinahuaqhimalugit haffuminngat Havaariyakhanut ukuninngat aktuqtauhimaningit imarmiuttat iqaluk/taryurmiuttat nayuqpaktangit: uukturautait inikhiyayumi ahivarlugit nailinahuarlugilluniit aktuqtauhimaningit imarnut nakuugingniqhainut unalu hiurarnut nakuugingniqhainut, igluliurahuarnikkut imarmiuttat ihuaqutikhait naliriinahuariangani hamna imarmiuttat iqaluk/taryurmiuttat nayuqpaktangit ahirurningit tukiqaqtumik iluani Ihumannguaqtut Iqalliqinikkut iqalliqinahuarnikkut Upalungaiyautit. Kihiani, amiakkungit aktuqtauningit naahuriyauhimayut haffuminngat VEC imarmiuttat iqaluk/taryurmiuttat nayuqpaktangit.

Havaariyakhaqanngittuq amiakkungit aktuqtauningit naahurihimayauyut, aktuqtauningit angikliqattaqtunit aahiit havaariyakhannit. Kihiani angikliqattaqhimayut aktuqtauningit kigliqariaktumik aktuqtauningit naahurihimayauyut.

Imarmiuttat Iqalut Nunaqatigiiktut

Una imarmiuttat iqaluk nunaqatigiiktut haffuminngat Kingaok ilitquhilingnit haffuminngat Ukiuqtaqtumi imarmiuttat uumayulingnit unalu ilagiyauyut imarmiuttat, uumayuit, unalu imatqiqiaqtumik

/ kangiqhulingnit uumayulingnit. Amihuuyut uumayuit ihumagiyaulluaqhutik iluani avatigatigiinginninganit ilitquhiqutaillu nayugaanit. Arvinilik hitamat aippaa iqalut uumayulingnit naunaiqhimayauyut hamna naunaiyaivlutik 2001 mi 2013 milu, uuminngaluniit takuyauvagunnaqhiyut taimaittumik, iluani imarmiuttat LSA. Amihuuyut uumayuit ilaliutauvlutik haffuminngat Kanayuk, (*Myoxocephalus quadricornis*) Angmagiaq (*Mallotus villosus*), Quliiligaq (*Clupea pallasii*) unalu Nataarnaq (*Platichthys stellatus*). Hapkuat uumayuit naunaiyaivlugit nunguinnauhimaittut amirittiariaqanngittunilu. Iqalukpiit (*Salvelinus alpinus*) naunaiyaivlutik huli aulayuitunilu kiglinganiinngittut ihivriutauvlutik, kihimi pivallialaaqhutik iluani LSA huvaialiraangat kuukkamut kugalingnillu iluani imarmiuttat RSA.

Havaariyakhanut aktuqtaunikkut haffuminngat VEC imarmiuttat iqalut nunaqatigiiktut hivumuqhutik haffuminngat Iqalukpiit unalu ilaligauvlutik nutqaqhimaittumik inuuyungnaiqtut imaup iluani havaktaugumik uuminngalu qaaqtuigumik, uumayuit amihuuningit aktuqtauniit haffuminngat

ilitturiyauyut uumayuit tigumiaqtauyut uqumaittunik imarmit, unalu kuinginnaqtut imaup iluani kuinginnarningit haffuminngat umiat hulilukaaqtunit. Ingattaqhiqtailinirnut uukturautait pittailinahuahugit nailinahuahugilluniit aktuqtaunirnut ukuninngat imarmiuttat iqalut nunalingnit ilagiyangit nailinahuahugit qanuq iluani imaup havaktauyumik, nailinahuahugillu uqumainingit imaup himmauhiqtunit, kayummaktumillu umiaryuat utiqattaqtut ukuninngat RSA.

Hamna malikhugit aturialgit haffuminngat ingattaqhittailinirnut unalu aulavikhait uukturautait, atauhiq amiakkungit aktuqtauningit naunaiyaivluni: aktuqtauningit haffuminngat umiap agyaqattaqtut kuinginnia ukuninngat imarmiuttat iqalukpiit amihuuningit. Hamna amihuuningit haffuminngat naahurihimayangit amiakkungit aktuqtauningit naahuriyauvlutik ikittuuvlutik, hamna takiniqhaa qitqani hivituninga (nailihimayauyut inuuhirningit haffuminngat Havaariyakhaat), naammanngettut ilitquhiita (3-10 umiat angmaumayunit imarmi auyannguraangat, qanurilingayaugumi haffuminngat Havaariyakhaat atuqhimayangit), unalu nailihimayauyut ukuninngat imarmiuttat RSA. Una amiakkungit aktuqtauningit pirilaaqhutik nutqaqhimaniarmat hamna agyaqattaqhimayut ilagiyauyut ukuninngat Havaariyakhaat nutqarumi. Qanurilingayaugumik haffuminngat pilimmakhainirnut uuminngat ingattaqhittailinirnut uukturautait tiliuqhimayut iluani Taryurmiuttat Aktuqtauningit Aulattiniit Upalungaiyautit (AEMP; Ilanganit 10, Ilainnaa 19), una Agyaqattaqtangit Upalungaiyautit (Ilanganit 10, Ilainnaa 15), unalu Kuinginnarningit Nailiyauhimayut Upalungaiyautit (Ilanganit 10, Ilainnaa 18), una tukimuarutaat amiakkungit aktuqtauningit haffuminngat imarmiuttat iqalut nunalingnit ihivriutauhimayut iqalukpiinnit kangiqhiyauhimayut **Tukimuaqtaunngittut**.

Hamna kititiqhimaningit aktuqtauningit ihivriurningit ihivriutauhimayut hamna amiakkungit Havaariyakhaanut aktuqtauningit kangiqhimayauyut. Malrurnik hivunikhaat havaariyauyukhat taimaa kititiqtaulaaqhutik ukuninngat Havaariyakhaanut amiakkungit aktuqtauningit: angiqtauhimayut Kingaop Ikaarvikhaat unalu Apquliurvikhanut Havaariyakhaat unalu Apqutikhaat Havaariyakhaat (BIPR) unalu angiqtaaqhimayangit Hackett Kugaa Havaariyakhaat taimaa adjigiiktumik atuqtau yakhaat ikaaruvikhaat nayugaat BIPR nit. Hamna malruk havaariyakhaat angiqtaunnirumik, imarmiuttat iqalukpiit aktuqtau himalaaqhutik kuinginnarningit agyaqattaqhimayunut iluani imarmiuttat RSA. Tamatkiumayangit kuinginnarnirumi hamna iqalukpiit aktuqtau himallaqhutik ingattaumilaaqhimayut umiat qagligumik qaangiqattarumik, kihim hamna anginiqhautingit haffuminngat aktuqtauningit naahurihimayaugumik haffuminngat aktuqtauningit nailihimagumi, hamna kuinginnaqpallaarnirumi taimaa nailiyauqiaqahuni iluani 100 miitastiguuqarialik uuminngat umiap nayurvikhaat nailigiaqahuni kinguani naliringit hilataani haffuminngat iniani. Hamna kuinginnarningit ingattaummilaaqhuni, kihimi utiqattarniaqhuni. Hamna angiklilaaqhuni aktuqtaunianut nutqaqhimalaaqhuni hamna agyaqattaqtut hulidjuhiit nutqarumi Havaariyakhaat, taimaa angikliqattaqhimayut aktuqtauningit taimaa havaktauyut aallannguqtiqtaqhuni. Taimailinniqqat hamna ingattaqhittailiningit uukturautait inikhaminiilaqtuq haffuminngat Havaariyakhaanut titiraqtaaqhimayut qulaani, ihumagiyaulluaqtangit haffuminngat

Angiklilaaqhimayumi aktuqtauningit kuinginnarnia uuminngat Iqalukpiit **Ihumagiyaulluaqhimaittut**.

Hamna Havaariyakhaat amiakkungit aktuqtaunianut unalu angiklivaktut aktuqtaunianut nailihimayauyut ukuninngat imarmiuttat RSA, nunaqahuni tamainnut iluani Nunavunmi, ihumagiyaunngittunilu haffuminngat aktuqtaunngittut imarmut kiglinganit aktuqtaunianut.

Taryurmiuttat qupanuat/Taryurmiuttat tingmiat

Taryurmiuttat qupanuat unalu taryurmiuttat tingmiat ilagiyauyut utiqtaqtut tingmiat aallatqiit atuqhimavagaat imarmiuttat nunait quyaginnaq ukiunganit ilaliutauvlunilu amihuryuat ilagiyauyut haffuminngat tingmiat ilitquhiita ilagiyauyut qingaliit, tingmiaq, uluaguliit qugyuillu, agluqtaqtut tingmiat, puuvyaaqtaqtut tingmiat, tuulliit nauyallu. Taryurmiuttat qupanuat taryurmiuttat tingmiat ivavaktut uvani hapummiyauhimayuni ukuninngat kavamatuqat *Utiqtaqtut Tingmiat Angiriiqhimayut*

Maligaa (1994). Pingahuuyut umarmiuttat qupanuat imarmiuttat tingmidjat aallatqiit taiyauvaktut “Qayagigiaqaqtut” malikhimalugu haffuminngat Kaniitian Nungutpallialiqitut Aallatqiit Hapummiyaayut Katimayit (CESCC) tukiliutait Nunavunmi: qingaliit, nauyait, mitiillu (CESCC 2010).

Qulaanngat nunamilu qauyihahutik pivlutik ukuninngat imarmiuttat uumayunit RSA uvani 2007 mi 2013 milu ivaliqhutik (Imaruqtirvia Taaqhivalirvianilu) takunnaqhittillugu (Niqliqivik) titiraqtauvluni 23 nit tamatkiquhugit aallatqiit ukuninngat imarmiuttat RSA Kingaongmi. Naunaiqhimaittut ivayunit nipiliuqtauhimaittut qauyihahutik ukiunganit. Upinngaami, takunnaqhigaangat takunnaliraangat uvani imaq angmaumaliraangat unalu kuugaryuami imaiyaliraangat uvani Kingaok Kuugaa uvanilu Uataa Kuugaa kuhiliraangat upinngaami kangiqhua hikuraaluit pulahimaliraangat. Ukiakhannguraangat (Taaqhivalirvia qitqani Niqliqivingmilu), amihuryuat nambaitigut (> 50 tingmiat) haffuminngat Uluagulliit tingmiallu tingmiat nuyaraliillu) tautuktauvaktut uvani ikkattumi kangiqhurmi hivuraa uataa haffuminngat MLA tumia ukuninngat LSA nit. Amigaitqiyangit haffuminngat taryurmiuttat tingmiat tautuktauvaktut ukiakhami ukiannnguraangat.

Malruk aallatqiit haffuminngat Havaariyakhat-ilagiyangit hulidjuhiit ihivriuqtauhimayut haffuminngat ihumagiyaayut aktuqtaunianit ukuninngat VEC taryurmiuttat tingmidjat unalu taryurmiuttat qupanuat, ilaliutauvlutik umiaqtuqtut Igluliuqtut Aulapkaiyunillu huliyaakhai uvani MLA nit. Ingattaqhittailinikkut uukturautait pilimmakhaiyut nailinahuaqhugit pittailinahuaqhugillu aktuqtaunianut haffuminngat Havaariyakhanut ukuninngat taryurmiuttat qupanuat taryurmiuttat tingmidjanillu. Haffuminngatut, hamna taryurmiuttat qupanuat unalu taryurmiuttat tingmidjat tautungnaqtut manirarmi naunaiyaivlutik naunaiyaliraangamik qauyihahutik ilaliutauyut ukuninngat Havaariyakhaat tiliuqhimayut pittailinahuaqhutik hapkuat qayagiyaayut nayuqpaktangit. Hapkuat maniraat pittailinahuaqtut pivalliyunit ihumagiyaayunit tingmiyunit inikhautikhait, piyumayaukpat, ilaliutaulunilu nakingayuq uuminngalu napahimayuq pulagviakhaat ungahiktumi tautungnaqtut tingmidjanit. Uvani tingmiyumi qulaanngat haffuminngat 650 m ilaliutauniaqhuni pivallianiaqhuni qulaanngat ilihimayaayunit tautungnaqtumik maniraanit qayangnailrumi pivalliyunit. Tingmiat mittaqtut tingmiqattaqtut pittailiniaqhutik tautungnaqtumi attarnailrumi inungnut uumayunullu.

Ihumagiyaayut haffuminngat ingattaqhittailinikkut aulattitiyunillu huliyaakhait upalungaiyaiyut nailinahuaqhugillu ihumagiyaulluaqtut Havaariyakhanut aktuqtaunianut taryurmiuttat tingmidjanit qupanuallu pivalliahimayut ukuninngat naunaiyaiyunit haffuminngat malruk amiakkungit ingattaqhittailitaahimayunit: palvihimayunit (haffuminngatut, kuinnginnarniq) nailihimayangillu alraagungita aturnaqtunik. Hapkuat amiakkungit aktuqtauningit naahurihimayaayut haffuminngat naammaktumik ikittumikluniit aktingninanit, haffuminngat nutqaqpaktunik (nailihimayaayut inuuhianit haffuminngat Havaariyakhanut), ilakuunngittut ilitquhirmingnit, ikivalliahimayut iluani imarmiuttat RSA, unalu pirivaktuq. Hamna amiakkungit aktuqtaunianut uuktuktauhimayuugaluit **ihumagiyaulluaqhimaittut**, qanuq ihumagiyaulluaqtut pilimmakhainirnut haffuminngat ingattaqhittailinikkut uukturautainit tiliuqhimayut ukuninngat Huraanut Ingattaqhittailiyunit Aulattitiyunillu Parnautingit (Ilanganit 10, Inainnaa 20).

Hamna ihumagiyaayut katitiquhimayut aktuqtaunianut ihivriuqhimaningit pilihaaqhimayut taimaa amiakkungit Havaariyakhanut aktuqtauhimaningit naahgurihimayaayut. Hamna Havaariyakhanut amiakkungit aktuqtauningit ihumagiyaayut ilagiikhutik naammagiyaanit takunnaqtumik hivunikhautikhait BIPR unalu Hackett Kuugaa havaariyaayukhat taimaa nayugaaminil iluani imarmiuttat RSA. Una katitiquhimayut amiakkungit aktuqtaunianut naahurihimayaayut naittumik aktingnianut, uuminngat (mikiyumik inuuhianut Havaariyakhanut), piqattaqhimannngittut ilitquhiinnit, mikiyumik iluani imarmiuttat RSA, unalu pirivaktuq. Tamainnut, hamna ilagiyaayut angiyaaqtumik haffuminngat katihimayunik amiakkunit aktuqtaunianut ihumagiyaayut **ihumagiyaulluaqhimaittut** unalu amihuuningit naliringit aktuqtauningit haffuminngat imarmiuttat qupanuat unalu imarmiuttat tingmidjat naahurihimannngittut takugiangani. Haffuminngat Havaariyakhanmut amiakkunit aktuqtaunianut

nailihimayauyut ukuninngat imarmiuttat RSA, tamainnut nunaqahutik iluani Nunavunmi, Kihiani angikliqattaqhimayut aktuqtauningit kigliqariaktumik aktuqtauningit naahurihimayauyut.

Nattiit

Qulaanngat qauyihaqtut ihivriuhimayuugaluit uvani upinngaami mitquiyliraangat (Qitqani-Qiqaiyluarvia ukuninngat Qitqani-Taaqhivalirvia) uvani 2007 mi 2013 milu ukuninngat imarmiuttat RSA ihivriurnahuaangat amihuryuat unalu hiamittut nattiinit. Naunaittut naunaiyaqhimayut haffuminngat nattiit amihuryuat qakugunnguraangat nuivaktut Kingaongmi, amigaitpakhunilu takunnaqhutik ilangani kangiqhuani, uvani kihiani hivuraani Kingaongmi ikivakhutik inirniit unalu 8 nit 10 nilluniit nattiaqaqpakhuni ittuni. Nattiit agluat naniyauvaktut iluani tun'nganimi RSA qauyihaqtaugamik; agluqanngittunilu naniyauhimaittut uvani hivuraani RSA uuminngaluniit LSA. Hamna ikittut nattiit amihurniat iluani hivuraanit Kingaongmi unalu agluqanngittuni taimaa hiku ainnaqanngittuni hamnalul qurluit taimaa atuqtauginnaqtut nattiinnit unalu kangiqhunnuillu agluannut. Uvani auyami, hapkuat nattiit amihuuningit ihumagiyaavaktut ikitturaaluit Kingaongmi taimaa naunaiyaivakhutik haffuminngat pigiarniani qanurinninga ihivriuqtauhimayut iluani imarmiuttat RSA unalu naunaiyaqhimaningit titiraqtauhimayunit ahinit.

Malrurnik aallatqiit Havaariyakhaqahutik-ilagiyaayut hulidjuhiat ihivriuqtauhimayut haffuminngat ihumagiyaayunit aktuqtaunianut ukuninngat VEC nit nattiinit, ilaliutauvlutik umiaqtuqtut Igluliuqhimayut Aulattitiyunillu hulidjuhiat uvani MLA (haffuminngatut tingmiat unalu agyaqattaqhimayut uvani ukiumi apqutit taimaa qaliriqhimayut imarmiuttat iniit). Ingattaqhittailinirnit uukturautait pilimmakhainiaqtut nailihimayaayut uuminngaluniit nutqaqtuayut uuminngat aktuqtaunianut haffuminngat Havaariyakhanut nattiinut. Agyaqattaqtut haffuminngat Havaariyakhanut pivalliyukhat uvani imaq angmaumakpat kihiani (Niqiliqivik 25mit Tattiarnaqtuq 31 mut) hamna nattiit amihuuningit iluani imarmiuttat LSA unalu RSA ihumagiyaugumik ikitpallaarumi. Hulidjuhiit huliunit uvani MLA naahurihimayaayut uvani imauq-angmaumagumi umiaqtuqtunit uvanilu ukiumi hamna ukiumi hamna ukiumi apqutit angmaumagaangat aturnaqhigaangallu(Ubluirvia ukuninnga Qiqailruq). Hamna atuqtaugaangat ilaliutauhimayut hulivangniani tahapkuat nattiit qanilrumiinngitkumik haffuminngat LSA uuminngaluniit hivuraani RSA (Kingaok hivuraani). Kihiani, hamna Havaariyakhat naahurihimayaunngitkumi kiugialingnit haffuminngat amiakkungit aktuqtaunianut ukuninngat nattiit katitihimaitkumik uuminngaluniit avatingnunngaqtaarumik aktuqtaunianut kangiqhiyaugumi pivallianaqhuni.