

**Volume 1 Annex V1-7 Type A Water Licence Applications**

**Package P1-1**

Executive Summary Doris—Madrid (translated)



## Executive Summary (English, Inuktitut, Inuinnaqtun)

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TMAC Resources Inc. (“the Proponent”) has proposed the Madrid-Boston (Phase 2) Project (“the Project”) which focuses on mining of the Madrid North, Madrid South, and Boston deposits by utilizing and expanding upon the Doris Project infrastructure for the integrated development of the Hope Bay Belt. All associated surface infrastructure, water use and activities for the Madrid-Boston proposal are under a coordinated review process with the Nunavut Impact Review Board and the Nunavut Water Board. As such, the pre-hearing conference held to review the Draft Environmental Impact Statement and Type A Water licence application, determined that TMAC should submit two water licence applications with the Final Environmental Impact Statement for the Madrid-Boston proposal. The NWB determined that TMAC should submit a Type A Water Licence Amendment No. 2 application for 2AM-DOH1323 and a separate Type A application for the proposed project at Boston.

This application is for Amendment No. 2 of the existing Doris Amendment No.1 Type A Water Licence 2AM-DOH1323 and addresses water use, surface infrastructure and waste management associated with the mining, ore processing and tailings deposition of the Doris and Madrid ores. A portion of Boston ore will be processed at the Doris process plant and therefore is also captured under the scope of this application.

In addition to the infrastructure and activities listed in PART A of Amendment No. 1 of the Type A Water Licence 2AM-DOH1323, for Amendment No. 2 to this licence, TMAC requests:

- extend the life of all required activities and facilities of the already approved under Amendment No. 1 of the Type A Water Licence to the end of 2037, including the closure and post closure stages of the Madrid-Boston Project;
- to expand the scope of Type A Water Licence Amendment No. 1 2AM-DOH1323 to include the scope of all facilities and activities authorized under the existing Type B Licence 2BB-MAE1727;
- to allow for additional domestic and industrial water use from permitted and existing water sources at the south end of Windy Lake and Doris Lake, respectively;
- a second water source intake location from Windy Lake at a more proximal distance to the Doris site which will decrease transport distances;
- expansion of existing accommodation facility and sewage treatment plant at the Doris site to support approximately 400 people;
- construction and operation of an all-weather road extending from Madrid to Boston, stream crossings and additional quarries to be used along the all-weather road;
- complete development of the Madrid North and Madrid South underground workings to commercial scale. The existing Doris mine will continue as an underground mine and the Doris process plant will process a portion of the ore from the Madrid and Boston mines;
- expansion of surface infrastructure and facilities as required, including additional fuel storage, ore pads, waste rock pads, vent raises, additional power supply, a 1,200 tonnes per day concentrator at Madrid North, maintenance shops, warehouses and reagent storage;
- additional contact water ponds to capture surface water run-off. Water in contact water ponds may be used for processing or underground drilling, discharged to the Tailings Impoundment Area or discharged to the tundra if it meets criteria specified in the licence. Mine water will be pumped to the marine mixing box at Doris and discharged to Roberts Bay;

## EXECUTIVE SUMMARY (ENGLISH, INUKTITUT, INUINNAQTUN)

- a tailings pipeline, reclaim pipeline and all-weather access road from the Madrid North concentrator to the south end of the Doris Tailings Impoundment Area; and
- expansion of the Doris Tailings Impoundment Area to a capacity of 18 million tonnes by raising the south dam and constructing the west dam.

TMAC has a functioning environmental health and safety management system composed of numerous management plans which have been updated to address all management activities for the entire Hope Bay Belt and are included in this application to the Nunavut Water Board to support the proposed Madrid-Boston Project proposal.



$\triangleleft \triangleright$ ,  $C$ ,  $D^{\flat}$ ,  $d^c$ ,  $e\Delta d^{\natural}/L^{\sharp c}$ ,  $\triangleright_{\sigma} b^c$  ( $f^{\circ}$ - $\nabla$ ,  $\Delta$ ,  $\delta$ ,  $\Gamma$ ,  $\Delta$ ,  $\Delta^{\alpha}$ ,  $a^{\square}\gamma^{\alpha}$ )

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[illegible]

## Aulattittiniagut Nailiyauhimayuq (Qablunaatitut, Inuktitut, Inuinnaqtun)

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TMAC Resources Inc. (“una Havaakhaliuqtunut”) tukhiutihimayangit uumani Madrid-Boston (Ilangani 2) Havaakhanut (“Havaariyauyukhaq”) hivunigivluniuk uumani uyaraqtarviuyut uvani Madrid Tunun’nga, Madrid Hivuraa, unalu Boston uyaraqtarviuyut atuqhimmahugit angikliktiqhimayaavlunilu uumani Doris Havaariyauyukhanut uyaraqtarvikhaliurutikhait ilagivluniuk pivallianikhait haffumani Kapihiliktuk Havaariyakhaat. Tamaat ilaliutigiyangit qaangani uyaraqtarvikhaliurutikhait, imaq atuqtakhait hulidjuhikhangillu haffumani Madrid-Boston tukhiutigiyangit amiriyauvlutik aulapkauiyuyut qimilruqtakhait uumani Nunavunmi Avatiliqiryuat Katimayit unalu Nunavut Imaliqiyit Katimayit. Uumani, una tuhaumatinnatik katimayukhat qimilruhuaqtut uumani Titirainnaqhimayut Avatikhanut Aktuqtaunianut Titirarnigut unalu Tukung A Imaq laisikhaat atuqtakhait, ihumagiyakhaat taamna TMAC turaaqhimayakhaat malrurnik imarnut laisikhaat atuqtakhait uumani Kingulliqaarmik Avatikhanut Aktuqtaunianut Titirait haffumani Madrid-Boston tukhiutikhait. Una NWB ihumagiyangit uumani TMAC turaaqtitituyukhaq Tukung A Imaup Laisikhaanit Nutaannguqtiqtauhimayut Nampangit 2 atuqtakhait haffumani 2AM-DOH1323 unalu avaliqanngittuq Tukung A atuqtakhait tukhiutigiyangit havaariyauyukhanut Boston mi.

Una atuqtakhait haffumani Nutaannguqtiqhimayuq Nampang 2 haffumani taja atuqhimayangit Doris’ip Nutaannguqtiqhimayuyut Nampang 1 Tukung A Imaup Laisikhaat 2AM-DOH1323 unalu turaarutingit imaup atuqtakhait, qaanganit uyaraqtarvikhaliurutikhait unalu halumaittit amiriyakhait ilagiyauhimayut uyaraqtarviuyunit, uyaraqait havaariyait attarvingit igiyauhimayut haffumani Doris unalu Madrid uyarangit. Ilainnaa haffumani Boston uyarangit havakhimayuyut Doris-mi uyaraqtarvingit tiguyauvakhugittauq malikhugit hivunikhautinut atuqtakhait.

Hamna ilagiyangit uumani uyaraqtarvikhaliurutikhait huliyanigillu titiraiiqhimayuq uvani ILANGANI A haffumani Nutaannguqtiqtauhimayut Nampangit 1 haffumani Tukung A Imaup Laisikhaat 2AM-DOH1323, Nutaannguqtiqtakhaat Nampang 2 haffumani laisianut, TMAC tukhiutigiyangit:

- Tahitiqhimallugit inuudjuhingit tamainnut tukhiutigiyayut hulidjuhit uyaraqtarvingillu qaangiqtahimayut uumani Doris Havaanut umikhiமானianut uvani 2037 mi ilaliutahimayut nutqarutaanit inikhait haffumani Madrid-Boston Havaariyauyukhanut;
- Angikliktirahuarlugit hivunikhautaanit uumani Tukung A Imaup Laisikhaat Nutaannguqtiqhimayuyut Nampang 2AM-DOH1323 ilaliutigilugulu hivunikhautikhaat tamainnut uyaraqtarviit iglungit hulidjuhingillu aulapqahimayut malikhugu atuqtauhimayut Tukung B Laisikhaat 2BB-MAE1727;
- Ilaginahuarlugillu qanilruanit havaariyauhimayut imarmik atuqhimayangit angiraiqhimayuyut atuqhimayuyullu imait ilarutikhait uvannat hivuraanit kinguani haffumani Windy Tahia unalu Doris tahiani ihumagittiaqhimallugit;
- Una tuglia imaup ilarutingit atuqhimayangit hamannat Windy Tahinga qanilruanit unghiviyaktumik uvunga Doris nayugaanit nailiyauniaqhuni agyaqtuinikkut unghiviyaktumi;
- Angiklipqahimayut atuqhimayangit hiniktarviit iglungit anaqtautingillu uvani Doris nayugaanit ikayurahuahugit qaffiuyunghaqhiyut 400 niqaak inungnut;

- Igluliuqtut aulattittiyangillu tamainnut ukiuraalungmi apqutingit taihiyauhimayut hamanngat Madrid-mit Boston-mut, qurluangit ikaaqqhimayut ilagivluniuglu uyaraqtarviuyut parnautigiyakhait ukiuraalungmi apqutingit atuqpagaat;
- Iniqhimalugit pivallianingit haffumani Madrid Tunun'nga unalu Madrid Hivuraanit nunaup iluani havaktunut uuktuutigiyangit. Una atuqhimayangit Doris uyaraqtarvik huli nunaup iluaniittuq uyaraqtarvik unalu Doris uyararnut hiquvluiyut ilangani haffumani uyarak hamanngat Madrid unalu Boston uyaraqtarviit;
- Angiklikhimayauyut qaanganiittuni uyaraqtarvikhaliurutikhait havagvingillu tukhiutiguyayut, ilaliutauhimavlutiglu uqhuryuangit tutquumavingit, uyarait qaanganiittakhait, uyarait aturuiqhimayut qaanganiittutakhait, qingaa qulaaniittuni, pauvaliqinirnillu parnautikhaat, una 1,200 uqumaidjutilik qautamaat ihivriurutikhangit uvani Madrid Tunun'ngani, ihuaqutikhangit hannaviit, uviahautiit unalu tutquumavikhangit;
- Ilagiyangit turaarvikhangit imait tahirait tigunahuarlugit qaanganiittut imait qurluaqhimayut. Imait turaaqtauhimayut imait tahirait atuqhimayauyut hanaqivluniuk nunaup ataaniittunilu ikuugaangat, unguvaqhimayauyut Attarviit Nutqarutikhait Ilangani uumaniluuniit unguvaqhimayukhat maniraanit maligautaanit malikhimagumiuk ihumagiyakhaat iluani laisiutikhaanit. Uyaraqtarvik imangit puptautikkut unguvaqtauniaqhutik iluanit taryum akuvikhaanit qiyuqutaanit uvani Doris unalu ahivaqtauhunnguyuk uvunga Roberts Kangiqhuani;
- Una attarvingit tuqhualik, himmauhiutauvluni tuqhualik unalu ukiuraalungmi-hilaum atuqtakhait apqutaanit hamanngat Madrid Tunin'nga ihivriurutikhanut uvunga hivuraanit kinguani Doris'ip Attarvinga Nutqarutaanit Iningani; unalu
- Angikliktiqhimayauyut haffumani Doris'ip Attarvinga Nutqarutaanit Iningani inikharluakhainit uumani 18 miliani uqumaidjuhingit angiklikhimayauyunit hivuraanit kuugannguakhaat kuuganngualiuqhimalugillu uataani kuugannguanit.

TMAC aulattittinnaqtumik avatikhainut aanniarnaittumik hivuuranaittumiglu amiqhaivikhaqaqtut ilaliutauhimayut amihuryuanit parnautikhait nutaannguqtiqtauhimayut turaaqhimagianganit tamainnut amiriyauhimayut hulidjuhiit tamainnut Kapihiliktuk Havaariyangit ilaliutauhimavlutik iluaniittuni atuqtakhainnit uumani Nunavut Imaliqiyit Katimayit ikayuqhimayakhaat tukhiutgiyangit Madrid-Boston Havaariyauyukhanut tukhiraunaanit.