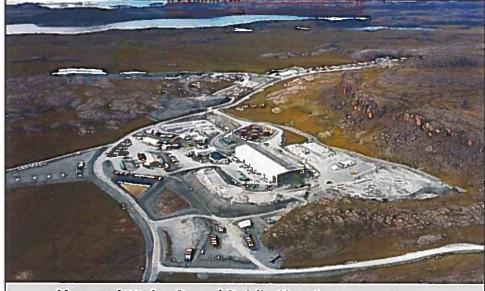
NUNAVUT WATER BOARD

Date: Sept. 13, 2016

Exhibit No. 1



Nunavut Water Board Public Hearing Doris Project Water Licence Amendment 2AM-DOH1323



September 13-14, 2016 – Cambridge Bay, NU

TMAC



TMAC Resources Inc. is a publicly traded, Canadian-based company.

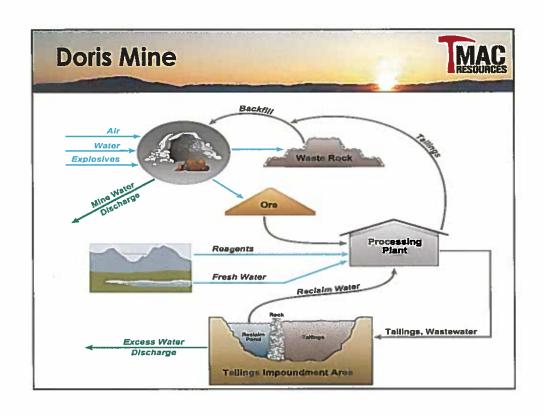
Our Vision and sole focus is to explore, develop and mine the Hope Bay Greenstone Belt in the Kitikmeot Region of Nunavut with the support of our landowner and community partners.

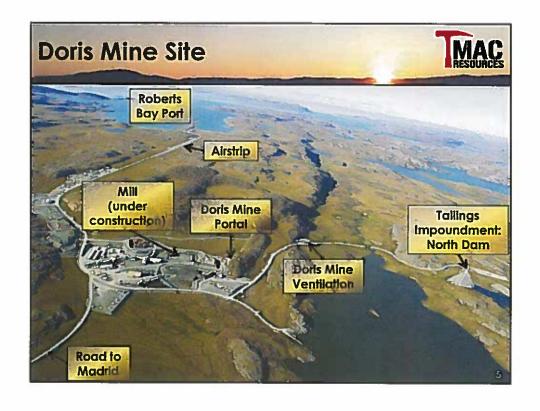
TMAC operates with a deep respect for the land and the people of Nunavut.

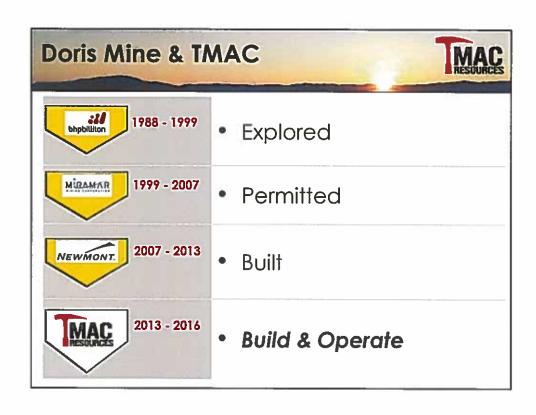




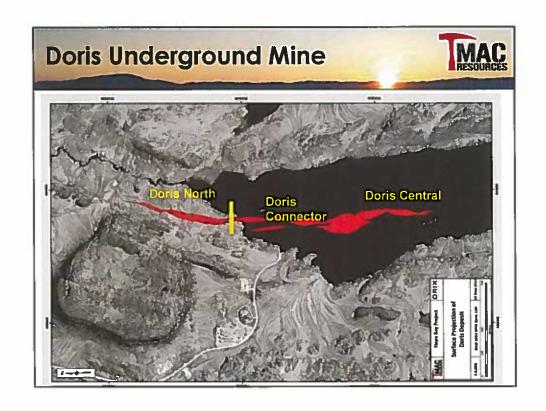


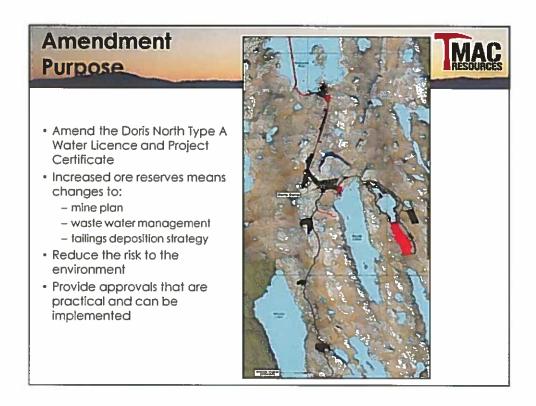


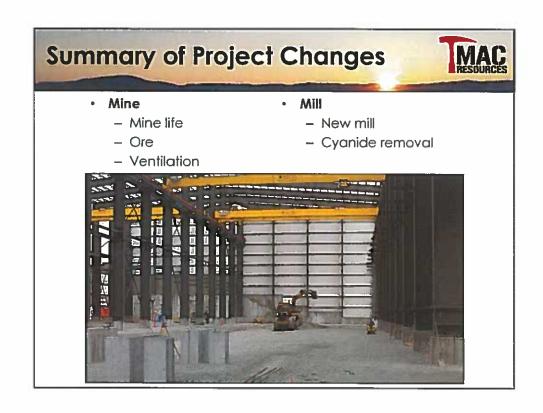


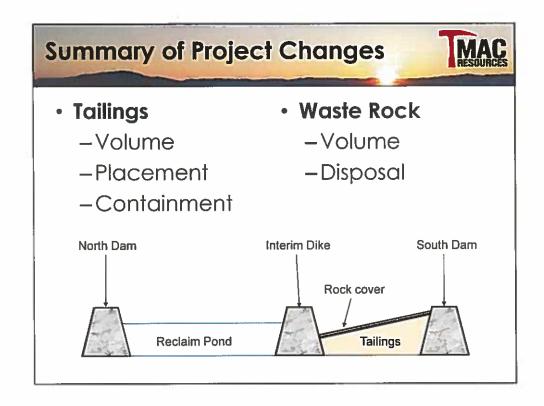


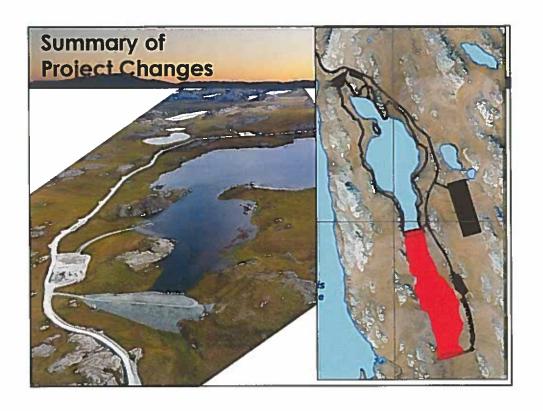
TMAC Project History MAC RESOURCES	
March 2013	TMAC purchased the Hope Bay Project
August 2013	Type A Water Licence renewal No. 2AM-DOH1323 (Doris North)
November 2013	NWB Type A Water Licence amendment application NIRB Project Certificate amendment application
April 2014	TMAC request to suspend review of NIRB and NWB amendment applications
June 2015	Filed updated Project Certificate and Type A Water Licence amendment applications
November 2015	NIRB and NWB commence technical review of the application
January 2016	NIRB and NWB Technical Meelings
2016	Commence activities requiring Project Certificate and Water Licence Amendment upon receipt
Jan 2017	Target for production-pour first gold
April 2017	Target for commercial production











Summary of Project Changes



- Water Management
 - Surface and groundwater
 - Collection
 - Disposal
- Waste Management
 - Landfill



Summary of Project Changes



- Laydown
 - Work Area
- Camp

- Explosives
 - Storage
- Closure



Benefits for Kitikmeot & Inuit



- IIBA with KIA
- Jobs onsite
- Inuit Employment Targets
- \$550 million to be spent
- Preferred Kitikmeot-based businesses
- Royalties and fees paid to KIA & NTI
- Taxes paid to the GN & Canada



Water Licence Changes

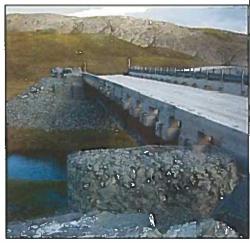


Update

- Mine plan
- Tailings deposition strategy
- Effluent discharge strategy
- Monitoring program
- Correct errors
- Add ability to modify management plans
- Approve new & revised Plans
- Quantum of security

Remove

 Terms & Conditions already fulfilled

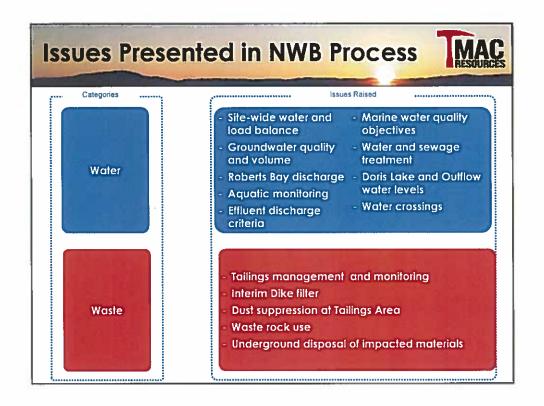


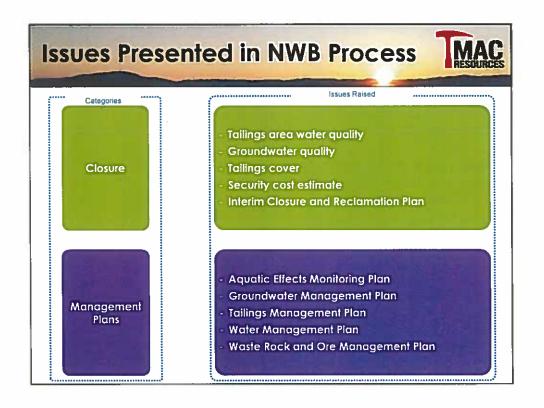
Application Package Package Content 1 Project summary and outline of Application package 2 Description of the proposed changes to the Project as currently authorized 3 NIRB, NWB and NPC Applications Outlines the existing conditions, project interactions 4 and potential effects 5 **Revised Management Plans** 6 Design details for the proposed changes Proponent information

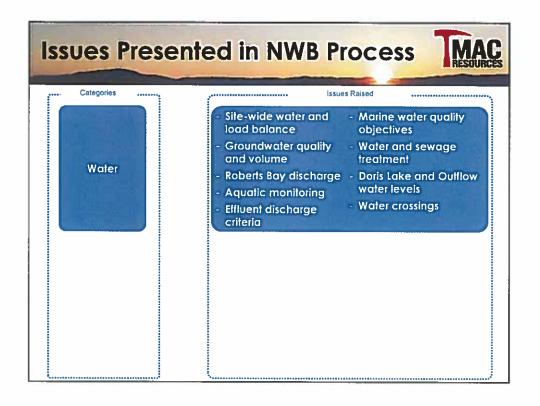
TMAC, the NWB, Parties and the Public



- TMAC conducts studies
- TMAC submits Application
 - Project changes
 - Effects of changes
- NIRB and Parties review, NIRB makes recommendation to issue Project Certificate
- TMAC, NWB and Parties discuss water, waste management and closure issues, work together to resolve
- TMAC, NWB and Parties discuss remaining issues with the Public
- NWB decision regarding water licence
- TMAC talking with the NWB,
 Parties and the Public







Issues-Water



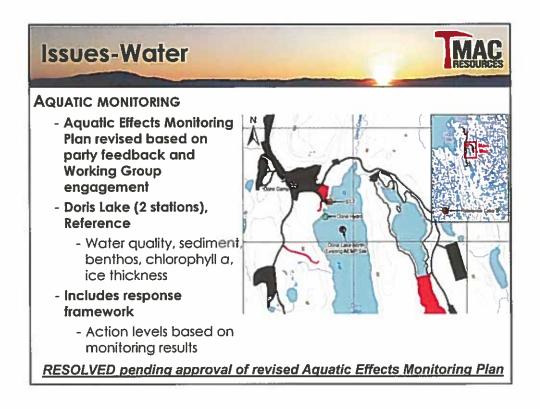
SITE-WIDE WATER AND LOAD BALANCE

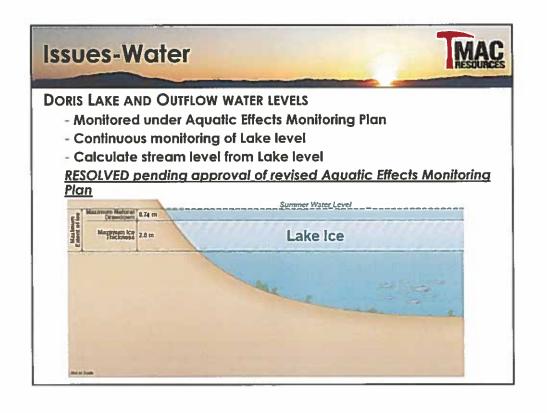
- Revised to consider
 - 75th percentile input values
 - Additional parameters (cyanide, mercury, selenium)
 - Site-specific variable hydrology
 - Maximum Reclaim Pond concentrations

RESOLVED

WATER AND SEWAGE TREATMENT

- Existing sewage treatment plant replaced
 - NWB notified, routine update to management plan submitted
- No need for other water treatment <u>RESOLVED</u>





Issues-Water



ROBERTS BAY DISCHARGE

- Outside NWB jurisdiction
- Construction and operation reviewed by INAC under Land Lease
- Monitoring and reporting to ECCC under Metal Mining Effluent Regulations

RESOLVED

EFFLUENT DISCHARGE CRITERIA

- Metal Mining Effluent Regulations **RESOLVED**

MARINE WATER QUALITY OBJECTIVES

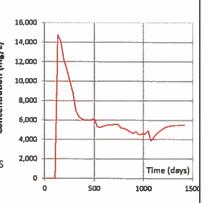
- Additional monitoring agreed upon with ECCC through NIRB process
- Addressed in Project Certificate **RESOLVED**

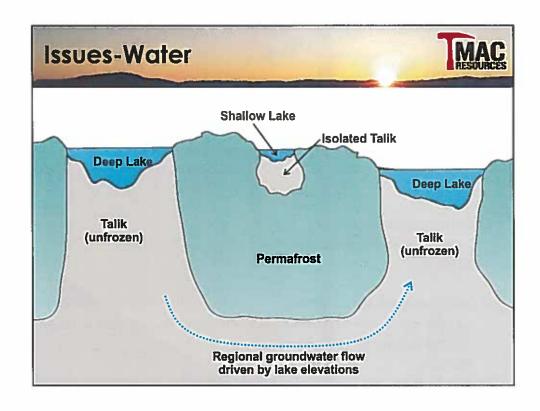
Issues-Water



GROUNDWATER QUALITY AND VOLUME

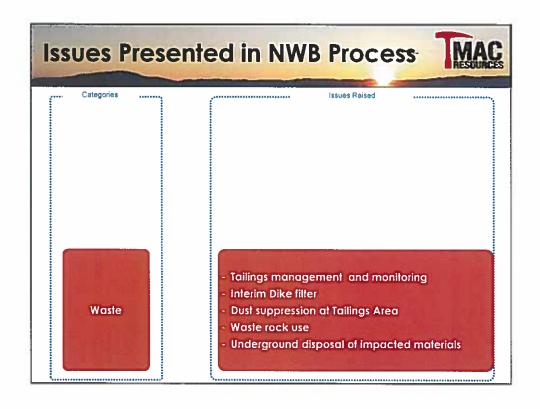
- Hydrogeological model
 - Volumes flowing in
 - Quality of inflow
 - Quality of inflow
 Expected flow back to Doris Lake
 - Surrounding rock (30%) and Doris Lake (70%)
 - Very salty at first, then more freshwater inflow
 - Validated predictions
 - Compared to other Northern mines
 - Collect in mine sumps, discharge to
 - tailings area (temporary)
 - Roberts Bay (all year)







WATER CROSSINGS - Roberts Bay Access Road - Culvert design considers flows and allows for fish passage - Submitted Request for Review to DFO - Review underway - Connector Vent Raise Access Road - Conducted field assessment - Determined no fish use in the vicinity of the crossing RESOLVED. Matters are addressed separately with DFO.



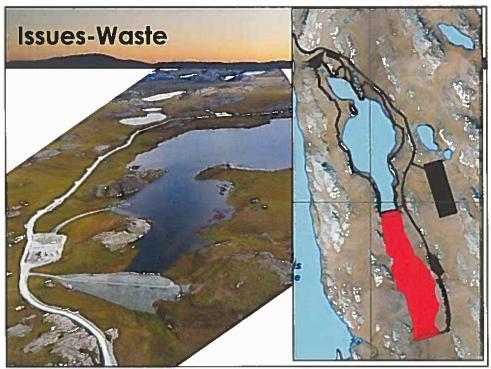
Issues-Waste

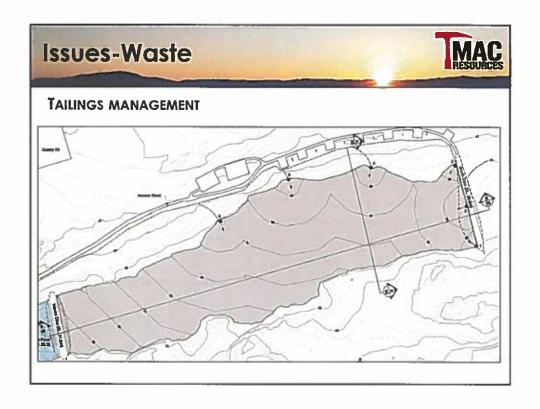


WASTE ROCK

- -Use
 - -Construction
 - -Underground
- -Underground disposal of impacted materials
 - -Hydrocarbons
 - -Spilled explosives
- -Detoxified tailings
 - -Disposed of underground with waste rock
- -Analyzed effects following reflooding of the mine post-closure
- -Mine capacity sufficient to accommodate backfill
- -Revised Waste Rock and Ore Management Plan

RESOLVED pending approval of Groundwater Management Plan





Issues-Waste



TAILINGS MANAGEMENT

- -Tailings Impoundment Area already approved for use
- -Flotation tailings deposited between Interim Dike and South Dam
- -Reclaim water between Interim Dike and North Dam (existing)
- -Tailings deposition over life of mine
 - -Multiple spigots
 - -Start at south end or east flank
 - -Deposit against South Dam
- -Solids retained behind Interim Dike, liquids drain through Interim Dike to Reclaim Pond
- -At closure, tailings will be covered with rock
- -Tailings Area Operations, Maintenance and Surveillance Manual
 - -Also known as Tailings Management Plan

RESOLVED pending approval of Tailings Management Plan

Issues-Waste



TAILINGS MONITORING

- -Tailings geochemistry well known
 - -Considered exposure to water and air over time
- -Amount and quality of tailings solids and liquids placed in tailings area monitored
 - -Water licence, Water Management Plan
- -Facility operation (pumps, pipes, dams)
 - -National/best practice guidelines apply
 - -Frequently inspected and reported on
 - -Engineer of Record designed, inspects and reports
- -Mitigation
 - -Based on inspection and monitoring results, additional measures if needed

RESOLVED pending approval of Tailings Management Plan

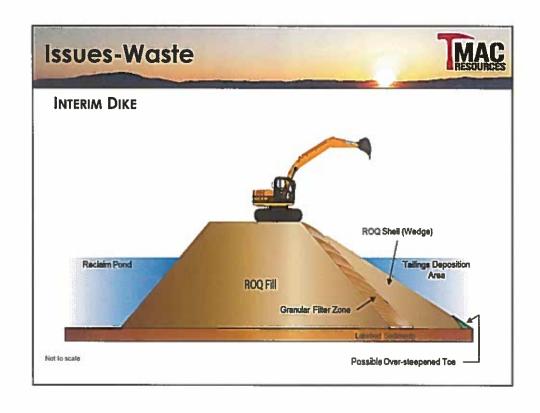
Issues-Waste

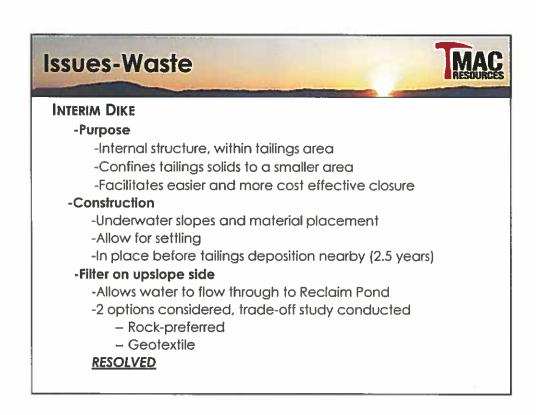


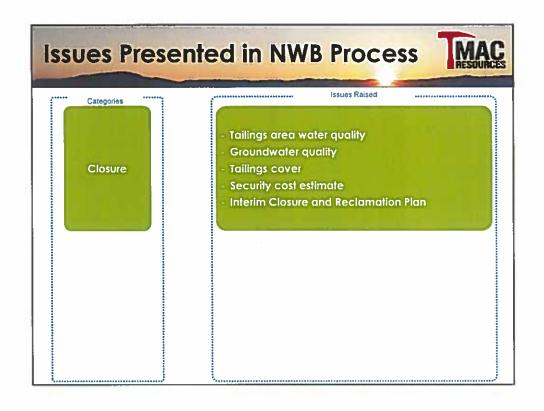
DUST SUPPRESSION AT TAILINGS AREA

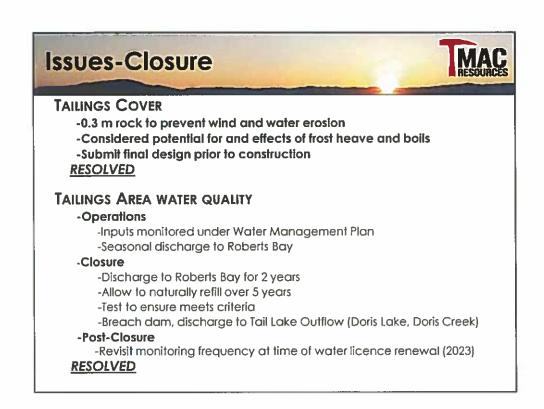
- -Dustfall monitored to ensure no effects
- -Dust suppressed using water or approved chemicals
- -3 chemical products listed in Tailings Management Plan
- -Others can be used as approved by the NWB <u>RESOLVED</u>











Issues-Closure



GROUNDWATER QUALITY

- -Permafrost areas will freeze, talik areas will reach steadystate with Doris Lake
 - -Minimal flow from Mine to Doris Lake
 - -No impacts to Doris Lake water quality expected

RESOLVED



Issues-Closure



SECURITY COST ESTIMATE

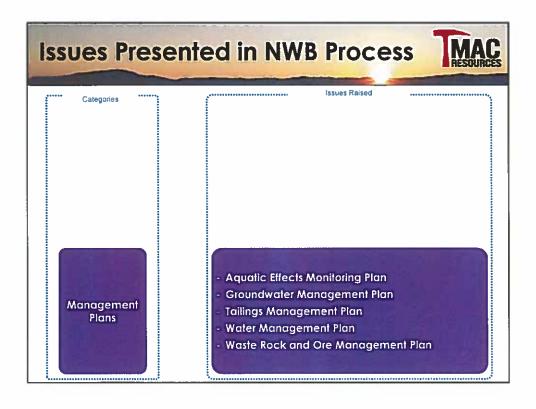
- -TMAC estimate revised based on party comments and dialogue throughout process
 - -Ponding against pads
 - -Interim Care and Maintenance
 - -New equipment and camps for all phases

INTERIM CLOSURE AND RECLAMATION PLAN

-Revised plan to be submitted once security quantum is finalized

SECURITY

-Land and water allocation



Issues-Management Plans



MANAGEMENT PLANS AND REPORTS

- Continue to implement existing measures
- Revised Plans submitted
 - Aquatic Effects Monitoring Plan
 - Discharge to Roberts Bay
 - Waste Rock and Ore Management Plan
 - Disposal of detoxified tailings, impact rock underground
 - Water Management Plan
 - Addition of Interim Water Management Strategy, characterize tailings area inputs
- New Plans submitted
 - Groundwater Management Plan
 - Tailings Area Operations, Maintenance and Surveillance Manual
- Reviewed by NWB and parties, revised based on discussion <u>RESOLVED pending approval of Plans</u>

