

Water Resources Nunavut Regional Office P.O. Box 100 Igaluit, NU, X0A 0H0

December 4, 2014

Phyllis Beaulieu Licensing Administrator Nunavut Water Board P.O. Box 119 Gjoa Haven, NU, X0A 1J0 Your file - Votre référence 2AM-LUP0914 Our file - Notre référence CIDM# 874580

Re: 2AM-LUP0914 - Lupin Mine Project - Lupin Mines Incorporated (LMI) - Pre-Hearing Conference Decision Regarding an Application for Renewal and **Amendment**

Dear Ms. Beaulieu:

Thank you for distributing the December 1, 2014 report regarding the Nunavut Water Board (Board or NWB) Pre-Hearing Conference (PHC) Decision for the Lupin Mine Project.

Aboriginal Affairs and Northern Development Canada (AANDC) has reviewed the PHC Decision (the report) regarding the above application and comments and recommendations are submitted in this letter for the Board's consideration.

Section 4.0 of the report (page 13) states the following:

"At the completion of the TM it was confirmed by all participants that there were no outstanding issues that would prevent the Board from moving forward to a Public Hearing in respect of the Application."

Similarly, Section 6.0 of the report (page 17 and 19) states the following:

"As the parties confirmed in the Technical Meeting that there were no outstanding issues that would prevent the Renewal and Amendment Application from proceeding to the next step in the licensing process, a Public Hearing...".

"The intervening parties in attendance at the TM-PHC confirmed that none of the unresolved or outstanding issues associated with the Renewal Application and the related information requirements should prevent the Board from proceeding with the Public Hearing".

AANDC would like to take this opportunity to provide clarification to the NWB that throughout our presentation at the Technical Meeting (TM), we recommended that the application not proceed until the requested information was received. Furthermore, in



our closing remarks, we stated that the application could proceed to a hearing provided that the outstanding information is submitted for review in advance of the hearing. Additionally, when participants were asked at the outset of the PHC on October 23, 2014 if there were any issues that would prevent the application from proceeding to a hearing, AANDC responded that there were three main issues that we believe would prevent the application from proceeding to a hearing, including the failure to submit:

- a list of commitments:
- an updated reclamation cost estimate that addresses the deficiencies identified by AANDC at the Technical Meeting; and
- outstanding information requested by AANDC throughout the application process.

While a list of commitments was provided by LMI on October 31, 2014, no information was provided to satisfy the other two issues identified. Until the above information is provided, these issues remain outstanding and our statement that the process should not proceed until the information is reviewed remains valid.

Section 4.0 of the report (page 13-14) states the following:

"A number of commitments were identified during the TM and these commitments have been summarized in the Commitment List provided in Appendix D and attached to this Report."

AANDC submitted a List of Commitments to the NWB on October 29, 2014 and on October 30, 2014, LMI submitted a List of Commitments as well as a response to AANDC's List of Commitments. The List of Commitments in Appendix D of the report appears to be incomplete and does not document all commitments made my LMI since the start of the application process. Please find enclosed the following supplementary information for the Board's consideration:

- Appendix 1: List of Commitments submitted by AANDC on October 29, 2014
- Appendix 2: Status of Issues following the TM-PHC
- Appendix 3: Responses to Tables 1 and 2 submitted on October 31, 2014.

According to Section 6.0 of the report (page 20), the Public Hearing is tentatively scheduled for the week of February 2-7, 2015 and the Board reserves the right to adjust the schedule if the documentation required to be supplied in advance of the hearing has not been provided. According to the timeline outlined in the report (page 18), parties are required to file final written submissions with the NWB by January 4, 2015. AANDC formally requests that the Board, should LMI file further information, allow a 30 day review period of all new documentation submitted by LMI. As things currently sit AANDC is only able to comment based on the information already on the record. In summary, in order to contribute in a meaningful way to the application process, AANDC would require the following (refer to Appendix 2 for details):

 An updated reclamation estimate, filed with the NWB, that addresses the deficiencies identified at the TM-PHC (and later provided in writing on October

- 24, 2014 via a memo from Randy Knapp, SENES Consultants) as well as the commitments made by LMI vie telephone on November 24, 2014;
- An updated or addendum/erratum to the Interim Abandonment and Restoration Plan:
- Inventory of fuel onsite;
- Inventory of hazardous waste stored on site and a schedule for removal of hazardous waste from site; and
- A framework for the study on windblown material;

AANDC respectfully requests that the application not proceed to a hearing until LMI provides the information referenced above and that interested parties are provided a minimum of 30 days to review the new information prior to filing a final written submission.

Throughout the application process, the provision of information by LMI has continuously been deferred until a later date. Due to the significance of the outstanding information, and in order to allow a thorough review of the submissions anticipated from LMI as a result of the process to date, AANDC strongly recommends that the application process not proceed further and that the timeline is not fixed until the information is received by the Board and distributed to interested parties for review. This will provide needed assurance that sufficient information will be available and reviewed prior to the hearing.

Otherwise, given the delays already experienced on this file and lack of timely provision of information by LMI, AANDC is concerned that the Board may be faced with making determinations on incomplete information at the hearing.

AANDC thanks the Board for considering our comments prior to proceeding further with the review of the above application. If there are any questions or concerns, please contact me at (867) 975-4738 or by e-mail at Jean.Allen@aandc-aadnc.gc.ca.

Sincerely,

Jean Allen Water Management Specialist

Enclosures (3)

cc. Karen Costello, Director, Resource Management, AANDC lan Parsons, A/Manager, Water Resources, AANDC Erik Allain, Manager, Field Operations, AANDC

APPENDIX 1

List of Commitments

(Includes commitments made by LMI between the Completeness Review and the Technical Meeting)

2AM-LUP0914 Renewal Application

List of Commitments

LMI Commitment	Reference
Completeness Review Responses (July 25, 2014)	
LMI will provide additional information to address AANDC's technical issue with respect to windblown tailings by the end of August 2014. LMI will take samples to assess the material and a plan will be developed.	Response to 2.1
LMI will evaluate the potential to recycle water and the effect it would have on the mill process and ore recovery if the mine is put back in operations	Response to 2.4
LMI will provide additional information to address AANDC's technical issues on closure costing by the end of August 2014.	Response to 2.5
LMI will indicate that hazardous waste that are stored pending backhauling are to be stored in sealed drums in designated areas in the next iteration of the WMP.	Response to 2.7
LMI will submit a landfill management plan by the end of July 2014.	Response to 2.8
LMI will investigate the feasibility of remote video monitoring by the end of July 2014.	Response to 3.0, Part H, Item 6
Technical Review Response (October 10, 2014)	
Based on results of further studies of windblown tailings, a monitoring plan and the clean-up methodology and schedule will be finalized and submitted to the NWB. Prior to restarting operations, LMI will update their operating procedures to incorporate measures implemented to control windblown tails from other areas of the tailings facility and the SCP will be updated to provide contingency measures that are to be implemented should deposition of tails outside the facility be detected during operations.	Response to 2.1.1
LMI will provide monitoring data from thermistors installed in the covered tailings; LMI agrees to install piezometers within the esker sands; LMI agree to provide surface water quality data from internal ponds in the TCA.	Response to 2.1.2
LMI will prepare a revised WMP that describes how contamination outside the satellite tank farm will be characterized and remediated; LMI will provide a conceptual landfarm management plan that outlines the approach to be taken.	Response to 2.1.3
LMI will prepare an erratum to correct errors identified during this review process and subsequent revisions of the IARP will incorporate these corrections.	Response to 2.2.1
LMI proposes to collect samples annually from Pond 1,	Response to 2.2.5

Pond 2, Cell 4 and Cell 5 and to provide results in annual	
reports.	
LMI will provide an updated detailed estimate to facilitate the discussion.	Response to 2.4
LMI will submit an updated progressive reclamation plan to incorporate statements made in 2.1.1, 2.1.3, and 2.5.1 bullet 2.	Response to 2.5.2
LMI committed to providing a datum source going forward.	October 10 response to Table 1, Part J, Item 3
LMI will continue to assess options and the feasibility of	October 10 response to
remote video monitoring with the supplier.	Table 2, Part H, Item 6
Teleconference (October 16, 2014)	
LMI committed to monitor porewater quality	Technical Review 2.1.2
LMI will quantify and characterize hazardous material on site	Technical Review 2.1.4
LMI committed to submitting a Landfarm Management Plan after the Technical Meeting.	Technical Review 2.1.3
LMI committed to submitting an inventory of fuel	Technical Review 2.2.2
Technical Meeting (October 23-24, 2014) – Response to	Presentation
LMI will follow up with historic windblown tailings and	Response to 2
commits to providing a past study done on windblown	(slide 9)
tailings.	,
LMI commits to assessing and characterizing the material that has blown from the TCA (not just in a localized area) to determine whether it is esker material or tailings. LMI commits to submit results of the study to the NWB and should it be determined that it contains tailings, a plan is to be developed to address the issue.	
LMI said they commit to monitoring water levels only and will get back to us regarding porewater quality	Response to 3 and 10 (slides 9 and 14)
LMI commits to updating inventory in annual reports. The current inventory (number of drums/containers) will be included in this year's report and more information (quantity and contents of each drum/container) will be available in subsequent annual reports.	Response to 4a and b (slide 10)
LMI commits to following up with AANDC regarding a mutually agreeable window regarding the amount of hazardous waste stored on site. AANDC and LMI agreed to follow up with the NWB prior to the Public Hearing.	Response to 4c (slide 10)
LMI intention was to submit an erratum prior to licence issuance and addendum following licence issuance. LMI later committed to providing the requested information prior to the Public Hearing	Response to 6 and Additional Comment 1b (slides 12 and 22)
LMI committed to providing an updated inventory of the quantity and quality of fuel in each tank on site and agreed	Response to 7 (slide 13)

to submitting annual updates to the inventory in annual	
reports.	
LMI committed to following up with AANDC to discuss the	Response to 14 and
reclamation estimate as well as to provide requested	Additional Comment 4c
information and finalize their estimate prior to the Public	(slides 16 and 25)
Hearing.	
LMI agreed to provide 90 days notice to the NWB prior to	Response to 16
commencement of mining operations.	(slide 18)
LMI will submit a formal request prior to the Public Hearing	Response to 18
for separate thresholds in the water licence for water use,	(slide 19)
monitoring, and inspection during care and maintenance	
vs. operations.	
LMI commits to providing a response regarding water	Response to Additional
quantity monitoring prior to the Public Hearing.	Comment 2b (slide 23)
LMI agrees to providing information in annual reports	Response to Additional
regarding buildings/equipment that are degraded and no	Comment 3c (slide 24)
longer useable.	

The commitments recorded by AANDC at the TM-PHC are as follows:

Information requested from LMI at the Pre-Hearing Conference:

- clarification requested on whether LMI will commit to monitor porewater quality and whether they will provide an updated site assessment.
- response to recommendation regarding water quantity monitoring
- inventory of hazardous waste stored on site
- inventory of quantity and contents of fuel in each tank
- quantity and characterization of contaminated soil on site
- landfarm plan
- update to Interim A&R Plan prior to the Public Hearing
- updated reclamation cost estimate
- request for thresholds for care & maintenance vs operations
- study on windblown tailings

AANDC committed to providing the following information:

- SENES preliminary review of LMI updated cost estimate (provided on October 24)
- list of commitments (provided in this email on October 29).
- sampling results (provided in previous email on October 29)
- updates to Tables 1 and 2 (to follow)
- confirmation from Lands regarding land leases and security (to follow)
- to continue discussions with LMI regarding removal of hazardous waste and the reclamation cost estimate (ongoing).

This list was provided to the NWB at the PHC on October 23, 2014 and was later provided via email on October 29, 2014.

APPENDIX 2

Status of Issues following the TM-PHC

Please refer to the separate excel document attached

APPENDIX 3

Responses to Tables 1 and 2 of AANDC Technical Submission

- Table 1: Dialogue between AANDC and LMI Regarding Proposed Changes to Water Licence 2AM-LUP0914
- Table 2: Dialogue between AANDC and LMI from the Completeness Review to the Technical Meeting Regarding the Renewal Application for Water Licence 2AM-LUP0914

Table 1: AANDC Proposed Changes to Water Licence 2AM-LUP0914

T & C	Original Condition	Proposed Condition	AANDC Comments	LMI Response	AANDC Comments
General	The licence contains several references to information located in the licence application (Part A, Item 1 and Schedule A).	The licence should list all authorized activities and the definitions should be complete without reference to other documents.	Lack of clarity in the licence makes it difficult to enforce. The renewed licence should list all authorized activities and the definitions should be complete and stand alone.	It can be challenging to capture all the activities specifically in a licence and it is therefore important to include the application contents generally, which is before the NWB for approval as a whole. Listing specific activities in the licence for mining and milling can lead to omissions and too narrow a scope causing challenges with respect to enforcement, particularly if an activity is omitted in the licence. The scope of the licence must be read in the context of the application for mining and milling.	Listing specific activities would eliminate challenges with respect to enforcement.
Part B, Item 8	Any notice to an Inspector shall be made in writing to the attention of: Water Resources Officer Nunavut District, Nunavut Region PO Box 100 Iqaluit, NU X0A 0H0 Telephone: (867) 975-4295 Fax: (867) 979-6445	Any notice to an Inspector shall be made in writing to the attention of: Water Resources Officer Nunavut Regional Office PO Box 2200 Iqaluit, NU X0A 0H0 Telephone: (867) 975-4295 Fax: (867) 975-6445	AANDC recommends that the contact information for the Water Resources Officer be updated.	Agreed.	Ok.
Part B, Item 16	The Licensee shall review the Plans or Manuals referred to in this Licence as required by changes in operation and/or technology and modify the Plans and Manuals accordingly. Revisions to the Plans or Manuals are to be submitted in the form of an Addendum to be included with the Annual Report required by Part B, Item 2, complete with a revisions list detailing where significant content changes are made.	The Licensee shall review the Plans or Manuals referred to in this Licence as required by changes in operation and/or technology and modify the Plans and Manuals accordingly. Revisions to the Plans or Manuals are to be included with the Annual Report required by Part B, Item 2, complete with a revisions list detailing where significant content changes are made.	Part B, Item 16 requires the Licensee to review and modify plans and manuals accordingly and submit revisions in the form of Addendums. AANDC recommends that this term be changed to not limit the form of the submission to addendums. Complete plan updates, with revision lists, are preferred to facilitate operations, technical review, and enforcement.	Agreed. However, addendums are also useful in some cases and suggest including both in the condition: The Licensee shall review the Plans or Manuals referred to in this Licence as required by changes in operation and/or technology and modify the Plans and Manuals accordingly. Addendums or revisions to the Plans or Manuals are to be included with the Annual Report required by Part B, Item 2, complete with a revisions list detailing where significant content changes are made.	Agreed.
Part D		The Licensee shall maximize to the greatest practical extent, the use of reclaim water from the Tailings Containment Area for use in the mill	AANDC recommends a new term and condition to a) encourage the use of reclaim water from the TCA during Operations to minimize the use of fresh	As noted in LMI response to AANDC on the completeness review, LMI will evaluate the potential to recycle water and the effect this could have on the	Ok.

		during Operations. The Licensee shall evaluate the potential to recycle water and provide updates in annual reports.	water and the production of tailings water; and b) include LMI's commitment to evaluate the potential to recycle water at Lupin.	mill process and ore recovery if the mine is put back in to operations. However, this evaluation would not be carried out on an annual basis. It would be a onetime optimization evaluation by the process engineer.	
Part E		An inspection of all engineered facilities (including the Sewage Lake Disposal Facilities and the fuel containment facilities), except as specified in Part E, Item 6, shall be carried out within one (1) year following approval of the Licence by the Minister, during ice free, open water conditions by a Geotechnical Engineer. The Engineer's report shall be submitted to the Board within sixty (60) days following the inspection, and shall include a covering letter from the Licensee outlining an implementation plan to respond to the Engineer's recommendations.	Part E, Item 6g requires an annual inspection of the TCA but there is currently no requirement for inspections of other engineered facilities designed to contain water or waste on site. Considering the length of time that the facilities have been in C&M and the apparent degradation of several structures, AANDC recommends a new term and condition (or a modification of the existing condition Part E, Item 6g) that requires an inspection of all engineered facilities (including sewage disposal facilities, fuel containment facilities, quarries, landfills, etc.) within one year of licence approval to determine the overall integrity of the engineered facilities and LMI's implementation plan in response to all of the Engineer's recommendations.	Agreed.	Ok.
Part E, Item 5	The Effluent discharged from the Tailings Containment Area shall not exceed the following effluent quality limits at Monitoring Program station LUP-10Oil and Grease: visible sheen	The Effluent discharged from the Tailings Containment Area shall not exceed the following effluent quality limits at Monitoring Program station LUP-10Oil and Grease: 5.0 mg/L and no visible sheen	Part E, Item 5 requires all effluent discharged from the TCA to meet effluent quality limits set by the Board. A visible sheen is indicated as a limit for oil and grease but recommends that the limit be 5.0 mg/L and no visible sheen.	Oil and grease limit should be removed from the TCA effluent criteria as there is negligible hydrocarbon input to the system.	Oil and grease limit should remain to ensure the effluent discharged contains no visible sheen to ensure protection of receiving water bodies.
Part E, Item 8	The Effluent discharged from the Sewage Lakes Disposal Facilities shall not exceed the following effluent quality limits at Monitoring Program monitoring station LUP-14 Oil and Grease: visible sheen	The Effluent discharged from the Sewage Lakes Disposal Facilities shall not exceed the following effluent quality limits at Monitoring Program station LUP-14Oil and Grease: 5.0 mg/L and no visible sheen	Part E, Item 5 requires all effluent discharged from the SLDF to meet effluent quality limits set by the Board. As above, A visible sheen is indicated as a limit for oil and grease but recommends that the limit be 5.0 mg/L and no visible sheen.	Oil and grease limit should be removed from the sewage lakes effluent criteria as there is negligible hydrocarbon input to the system.	Oil and grease limit should remain to ensure the effluent discharged contains no visible sheen to ensure protection of receiving water bodies.
Part E, Item 11	The Licensee shall Discharge all Minewater to the Tailings Containment Area or to the Sewage	The Licensee shall Discharge all minewater to the Tailings Containment Area or to the Sewage Lakes Disposal	Part E, Item 11 requires the discharge of minewater to the TCA or SLDF but parameters and effluent quality limits for	The additional criteria proposed for the SLDF should only apply if minewater has been pumped to SLDF. The	AANDC is requesting an additional monitoring station to test minewater prior to discharge into the SLDF.

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	Lakes Disposal Facilities, except as specified in Part E, Item 12.	Facilities (SLDF), except as specified in Part E, Item 12. Prior to Discharge to the SLDF, Minewater shall not exceed the following effluent quality limits at Monitoring Program station (new station).	these facilities in Part E, Items 5 and 8 are inconsistent. AANDC recommends that the NWB include parameters for minewater in the SLDF discharge criteria.	additional criteria should not be standard as minewater is only pumped to the SLDF as a contingency.	AANDC also requested that parameters be included in SLDF discharge criteria. It is agreed that this additional criteria should only apply if minewater has been pumped to the SLDF.
Part E, Item 14	The Licensee shall remove from the project site, all hazardous wastes generated through the course of the Operation, for disposal at an approved hazardous waste disposal facility.	To prevent the over-accumulation of these materials, the Licensee shall remove accumulated hazardous wastes from the project site, over the licence period, for disposal at an approved hazardous waste disposal facility. The Licensee shall also annually remove all new hazardous wastes produced on site.	Part E, Item 14 requires the Licensee to remove all hazardous wastes from the project site during operations, but does not specify what should happen during C&M and no timeline for removal is provided. Hazardous waste continues to accumulate on site, posing an increasing risk. With a licence term of 3 years, for example, 1/3 of the accumulated hazardous waste should be removed each year, including addition hazardous waste that may be produced.	This is an onerous request. Hazardous waste is securely stored in a lined containment facility and backhauled every opportunity as flights are available. It is not feasible or practical primarily due to issues of safety, to guarantee the backhaul of all hazardous waste all the time and thus why the hazardous waste is stored securely. This recommendation could place the licensee out of compliance even though waste is stored as per best practice. LMI would also state that it was within the 2014 plan for stage 2 of re-start of operations that significant hazardous waste would be backhauled on the ice road when fresh supplies were to be delivered to the site and that still remains as part of the plan once the decision to restart is made. LMI also notes the significant amount of backhaul of hazardous waste since it took control of the operation in 2011.	AANDC recommended in the Technical Submission and TM-PHC Presentation that LMI provide a plan detailing how and when accumulated hazardous waste will be removed from site during the term of their renewed licence. AANDC further recommended that all new hazardous waste be backhauled regularly to prevent the over- accumulation of hazardous waste on site. At the TM-PHC, AANDC committed to working with LMI to come up with a window that is mutually attractive for the quantity of stored hazardous waste on site. It is recommended that a maximum amount of hazardous waste be authorized for storage on site and that this amount does not exceed the amount of hazardous waste included in the reclamation cost estimate (in the October 18 estimate, there appears to be no provision for inspection and removal of hazardous waste from the site).
Part G		All surface runoff during the construction of any facilities, where flow may directly or indirectly enter a water body, shall be sampled Weekly and not exceed the following Effluent quality limits: Parameter Maximum Average Concentration (mg/L) • Total Suspended Solids: 50.0 • Oil and Grease: no visible sheen • pH: between 6.0 – 9.5 Maximum Concentration of Any Grab	Currently the licence does not include criteria for surface runoff during construction. AANDC recommends that the licence include criteria for all surface runoff during construction for total suspended solids, oil and grease, and pH (the criteria in the proposed change is taken from 2AM-MRY1325).	LMI does not anticipate that surface runoff form construction works would enter waterbodies, and therefore the need for this condition is unclear.	Construction may be possible during operations and it is possible that surface runoff from construction may enter and impact nearby water bodies. This is a standard comment common to other Type A water licences.

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		Sample(mg/L) Total Suspended Solids: 100.0 Oil and Grease: no visible sheen pH: between 6.0 – 9.5			
Part G, Item 2	Prior to construction of any dams, dykes or structures to contain, withhold, divert or retain water or wastes other than as contemplated in the Contingency Plan, the Licensee shall submit to the Board, for approval, final design and construction drawings signed and stamped by an Engineer.	The Licensee shall submit to the Board, for approval, final design and construction drawings signed and stamped by an Engineer at least sixty (60) days prior to construction of any dams, dykes or structures to contain, withhold, divert or retain water or wastes other than as contemplated in the Contingency Plan.	Part G, Item 2 requires the Licensee to submit final design and construction drawings for approval prior to construction but no timeline is provided for review.	Agreed.	Ok.
Part G, Item 6	The Licensee shall use fill material for construction from an approved source, which has been demonstrated not to produce Acid Rock Drainage and to be non-Metal Leaching.	The Licensee shall use fill material for construction from an approved source, which has been demonstrated not to produce Acid Rock Drainage and to be non-Metal Leaching, and is free of contaminants.	Part G, Item 6 requires the Licensee to use fill material that has been demonstrated not to produce acid rock drainage and to be non-metal leaching but there is no requirement that the fill material is free of contaminants (i.e. hydrocarbons, chemicals, tailings, etc.).	The addition proposed is far too vague to be implemented in a water licence and would lead to compliance issues based on interpretation. The existing condition is protective of water quality.	AANDC proposes that fill material also be demonstrated to meet GN standards for Industrial Land Use (GN Environmental Guideline for Contaminated Site Remediation). Suggested wording could include: "The Licensee shall use fill material for construction from approved sources that been demonstrated by appropriate geochemical analyses: not to produce Acid Rock Drainage, to be non-Metal Leaching, and to meet Industrial standards as defined by the GN Environmental Guideline for Contaminated Site Remediation. Analysis results are to be made available to an Inspector upon request.
Part H		All sumps and fuel caches shall be located at a distance of at least thirty one (31) metres from the ordinary high water mark of any adjacent water body and inspected on a regular basis.	AANDC recommends that a setback for the location of sumps and the storage of fuel be required in the licence to protect nearby waters from potential contamination.	Agreed. Please note the regularity/frequency of inspections corresponds to the level of activity at site as per the plans submitted to the NWB.	The frequency of inspections should correspond to the terms and conditions in the water licence. Plans cannot be enforced if they are not approved by the NWB and if the plans contradict requirements set out in the licence. Alternate thresholds for monitoring during Operations vs Care and Maintenance will help alleviate this issue.
Part H.	The Licensee shall operate the Bulk	The Licensee shall operate the Bulk Fuel	AANDC notes that Part H, Item 5b	Agreed.	Ok.

	with all applicable legislation, guidelines and practices, including b. <i>National Fire Code</i> , 1995, and	applicable legislation, guidelines and practices, including: b. <i>National Fire Code</i> , 2010 , and	Fire Code (2005) and recommends that the licence instead reference the most current version of the National Fire Code.		
Part I, Item 7	The Licensee shall notify the Board in writing, as soon as is practically possible, of any change in the status of the mine operations. This notice shall include a summary of Plans and a Schedule for anticipated activities related to the Care and Maintenance or the Final Closure of the Mine and associated infrastructure.	The Licensee shall notify the Board in writing, at least ninety (90) days prior to any change in the status of mine operations. This notice shall include revised Plans, an updated reclamation cost estimate, an update in projected water use, and a Schedule for anticipated activities related to the Care and Maintenance or the Final Closure of the Mine and associated infrastructure.	Part I, Item 7 requires the Licensee to notify the Board of any change in status (C&M or final closure). However, the condition does not include a timeline for submitting such notice. The notice should include full plan revisions rather than a plan summary. The notice should include a site assessment and an updated security cost estimate. The plans will require approval prior to implementation (Part B, Item 12) and it is expected that the security will be updated to reflect the environmental liability on site each time there is a change in the status of mine operations to care and maintenance or final closure of the mine.	This is an onerous request. Each notification should not require mandatory plan revisions. Plans are developed for each level of site activity (operations, C&M) and implemented accordingly.	Each request should require a review of all relevant management plans and they should be revised as required.
Part I, Item 8	The Licensee shall notify the Board in writing, at least sixety (60) days prior to recommencement of the mining and milling undertaking on site. This notice shall include a summary of Plans and a Schedule for anticipated activities related to the change in status.	The Licensee shall notify the Board in writing, at least ninety (90) days prior to recommencement of the mining and milling undertaking on site. This notice shall include revised Plans , an updated reclamation cost estimate , and a Schedule for anticipated activities related to the change in status.	Part I, Item 8 requires the Licensee to notify the Board 60 days prior to recommencement of mine operations. As above, the notice should include plan revisions rather than a summary of plans, a site assessment and an updated security cost estimate. AANDC recommends the notification period be increased to 90 days to allow time for review and approval of plans and reclamation security changes.	This is an onerous request. Plans are developed and in place for each level of site activity (operations, C&M) and implemented accordingly. Plans should only be updated if there is a change in how the site is operated.	Each request should require a review of all relevant management plans and they should be revised as required.
Part I, Item 9	Notwithstanding the time schedule referred to in the Abandonment, Reclamation and Closure Plan, the Licensee shall implement Progressive Reclamation, including progressive covering of the tailings and revegetation, as soon as is realistically possible.	Notwithstanding the time schedule referred to in the Abandonment, Reclamation and Closure Plan, the Licensee shall implement Progressive Reclamation, including progressive covering of the tailings and revegetation regardless of whether the mine is in Operations or C&M status, according to a schedule approved by the Board.	Part I, Item 9 does not require the Licensee to implement progressive reclamation (including progressive covering of tailings) unless it is "realistically possible". Considering the deteriorating conditions on the mine site, the licence should be changed to require progressive reclamation, with an implementation schedule clearly established for the period of the renewed licence, applicable whether the mine is in	LMI has invested significant capital in the Lupin site with the goal of reopening the mine when economic conditions improve in the gold mining sector. Requiring LMI to close out facilities that can be used in the future is an unreasonable request and would have a drastic and likely disastrous impact on the ability of LMI to execute on a re-start. Please note the response LMI has provided to	AANDC is requesting progressive reclamation and not closure of facilities.

			C&M or in operation status. The Licence should require the Licensee to cover and maintain a percentage of exposed tailings each year. See Section 1, Recommendation 3, above.	AANDC/SENES in the written responses section concerning the area of tailings and remaining capacity of the facility available for use. Furthermore, LMI is not aware of any "deteriorating conditions" at the mine site. LMI have not encountered any and none have been brought to our attention.	
Part J, Item 2	The Licensee shall provide the GPS co-ordinates, in degrees, minutes, and seconds of latitude and longitude, of all locations where sources of water are utilized for all purposes.	The Licensee shall provide the GPS coordinates, in degrees, minutes, and seconds of latitude and longitude as well as the datum source (i.e NAD83), of all locations where sources of water are utilized for all purposes.	To ensure consistency, even when reporting in degrees, AANDC recommends that the licence either specify the datum (i.e. NAD83) to be used or require the Licensee to specify the datum when submitting GPS coordinates.	LMI can specify the datum source going forward.	Ok.
Part J, Item 3	The Licensee shall determine the GPS co-ordinates, in degrees, minutes, and seconds of latitude and longitude, of all locations where wastes associated with camp operations and drilling operations are deposited.	The Licensee shall provide the GPS coordinates, in degrees, minutes, and seconds of latitude and longitude as well as the datum source (i.e. NAD83), of all locations where wastes associated with camp operations and drilling operations are deposited.	To ensure consistency, even when reporting in degrees, AANDC recommends that the licence either specify the datum (i.e. NAD83) to be used or require the Licensee to specify the datum when submitting GPS coordinates.	LMI can provide the datum source going forward.	Ok.
Part J, Item 11	The Licensee is responsible for the monitoring during Care and Maintenance as set out in this Part. In the event the Licensee fails to carry out monitoring requirements set out in this Part that are essential to ensuring the integrity of significant site components, including fuel storage, general site deterioration, tailings containment, and site water and sewage management, Canada shall carry out such monitoring during periods of highest risk to fresh water.	The Licensee is responsible for the monitoring during Care and Maintenance as set out in this Part.	AANDC recommends that regular monitoring and site inspections be required both during operations and during care and maintenance. Extending the period of care and maintenance can potentially pose an increasing risk to the environment, particularly to water resources, and monitoring during care and maintenance is therefore important. Part J, Item requires Canada to carry out monitoring in the event the Licensee fails to do so. AANDC recommends that this term and condition be removed as it is not consistent with the AANDC Mine Site Reclamation Policy (2002), which clearly articulates the principle of Polluter Pays. The licence should be structured to put the onus for monitoring related to infrastructure and operations on the Licensee (the potential polluter)	The request to carry out the same level of monitoring during care and maintenance and temporary shutdown is onerous and does not account for activity levels and corresponding levels of water use and waste disposal during different periods. The level of risk noted by AANDC is determined by the geotechnical engineer who carries out annual inspections to which LMI responds. The level of monitoring required during care and maintenance, temporary closure, and operations are significantly different and are carried out in accordance with plans specific to those periods/scenarios. LMI is not agreeable to staffing personnel on a permanent basis at this remote site during period of care and maintenance. This is unnecessary and	If it is onerous to comply with the terms and conditions of the licence we recommend that LMI request an amendment to their licence. Alternate thresholds for monitoring during Operations vs Care and Maintenance will help alleviate this issue.

		rather than on the taxpayers of Canada. The water licence can mitigate the concerns expressed in the previous amendment to 2AM-LUP0914 (May 2009) by requiring: permanent LMI presence on site during periods of highest risk to freshwater; progressive covering and cleanup of tailings; and other progressive reclamation (revegetation, removal of hazardous waste, etc.). AANDC will enforce the licence under the Act and will continue to conduct periodic compliance sampling in addition to water licence requirements. AANDC would have an obligation to step in should LMI abandon the site. In an abandonment scenario, AANDC would have access to financial security to conduct monitoring as and when required, otherwise, the onus should remain with the Licensee to carry out regular licenced monitoring requirements related to their own design and operation decisions.	poses a significant and unacceptable health and safety risk. LMI respectfully submits that the NWB achieves protection of the receiving environment by setting discharge limits and not by guiding the staffing requirements for undertakings. Furthermore it should be noted that there has never been an incident at Lupin when in care and maintenance during the winter season. Furthermore water levels are carefully monitored and dealt with each year when necessary and all other elements of the operation reviewed.	
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Schedule	"Care and Maintenance" in respect of	"Care and Maintenance" in respect of a	AANDC recommends that the definition	LMI is not agreeable to staffing	Care and maintenance status does not
A	a mine, means the status of the facility	mine, means the status of the facility	for 'Care and Maintenance' be updated	personnel on a permanent basis at this	exempt the Licensee from their
	when the Licensee ceases production	when the Licensee ceases production or	to be consistent with the Mine Site	remote site during period of care and	obligations to protect the environment or
	or commercial operation temporarily	commercial operation temporarily for an	Reclamation Guidelines for the	maintenance. This is unnecessary and	to maintain compliance with the water
	for an undefined period of time;	undefined period of time. Care and	Northwest Territories (INAC, 2007). It	poses a significant and unacceptable	licence.
		Maintenance status does not exempt		health and safety risk LMI respectfully	
		the licensee from obligations to protect	is also recommended that Licensee	submits that the NWB achieves	In order for the definition to be more
		humans, wildlife, and the environment;	requirements during Care and	protection of the receiving environment	consistent with the guidelines, AANDC
		or to maintain compliance with	Maintenance be made very clear, such as	by setting discharge limits and not by	recommends that the definition be
		applicable laws and regulations,	ensuring sufficient staff, equipment and	guiding the staffing requirements for	updated as follows:
		including licences, permits, and leases.	supplies will be at the site for any	undertakings. There is ample	
			maintenance or reclamation activities	equipment on site in good condition,	"Care and Maintenance" is a term to
			that may need to take place. Refer to	which is used each year, and LMI	describe the status of a mine when it
			1	does ensure there are sufficient staff	undergoes a temporary closure, with the
			Section 1.4 of the guidelines referenced	and contractors on-site for any	intent to resume mining activities in the
			above for recommended measures to be	maintenance or reclamation activities	future. Temporary closures can last for a
			implemented during Care and	when required.	period of weeks, or for several years,
			Maintenance. See Section 1,		based on economical, environmental,
			Recommendation 18, above.		political, or social factors. Temporary
			,		closure activities must maintain all
					operating facilities necessary to protect
					humans, wildlife, and the environment.

Table 2: Comments on LMI Responses to AANDC Completeness Review

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
AANDC 2.1 Windblown Tailings A formal plan and schedule to address monitoring, cleanup and control of windblown tailings: 1. Details of the windblown tailings monitoring plan, cleanup methodology, tailings surface stabilization plan, and schedule for implementation. This plan should include immediate steps that will be taken to stabilize the tailings. 2. A review of longer term interim solutions such as shallow cover to limit future tailings dust release.	In June and July 2014, LMI is undertaking an evaluation to address this concern. LMI will provide additional information to address AANDC's technical issue with respect to windblown tailings by the end of August 2014. However, LMI notes that tailings at site are under a water cover and the windblown dust may be emanating from the redundant tailings ponds that have been covered in the past with esker material and frozen. LMI will take samples to assess the material and based on that a plan would be developed, if warranted.	The issue of windblown tailings has been an historical concern. We look forward to the evaluation and action plan to be submitted by the end of August 2014.	LMI commits to submitting an evaluation and action plan in August 2014. AANDC requests that interested parties be provided an opportunity to assess the new information during the application process.	Please see LMI response to SENES 2.1.1.	Response provided during TM-PHC presentation (No. 2)
AANDC 2.2 Water Balance and Freeboard Concerns over increasing pond levels, freeboard on the structures and the ability to manage additional runoff into the ponds. Under the current status with no water licence in force, it does not appear that LMI could gain approval to discharge water from the site. This represents a serious hazard which could lead to overtopping of and potential dam failure (and consequences). 1. A report that assesses the adequacy and basis for a 1 m freeboard. The assessment should revisit the water balance and design storms for evaluating water storage. 2. Justification for not routinely monitoring and reporting pond water levels. The justification should include science- and risk-based reasons for not monitoring all of the ponds on a weekly basis during the June/July season and weekly if pond levels rise to within 2m of the dam crest.	LMI agrees with the practical need to discharge water while the Licence is being renewed. Discharge is required to maintain adequate freeboard, minimize environmental risks and potential damage to Project infrastructure. LMI generally maintains the free board at 2+m below the berm height. At this time, LMI has filed an emergency amendment request with the NWB to the term of the Licence through to October 1, 2014 to discharge water that has collected within containments following freshet and manage water prior to freeze up so the site is prepared to receive snow melt during freshet 2015. The 1-m freeboard is the limit regulated in the water licence and its adequacy has not been an issue for the geotechnical inspections that are carried out annually. Furthermore, the 1-m was set based on a detailed design review from past operations and is generally standard throughout the world. Following freshet, when most water accumulates, facilities are generally decanted as needed to	LMI has not completed an assessment of the adequacy of the 1-m freeboard for this remote site (which is often times unattended). The concern relates to the ability to store runoff from extreme events in the event that the ponds are near the 1-m freeboard limit. This could occur during an extreme rainfall event or heavy spring thaw in combination with an extreme rainfall event. With no spillways, perimeter dams could be at risk of failure. A 1-m freeboard is by no means a world-wide standard. Freeboards are determined based upon detailed water balances, wave run-up analysis and sensitivity of receiving waters. The 1-m freeboard was assessed 40 years ago with limited data and may or may not be suitable,	AANDC maintains that a one- meter freeboard may not be sufficient during C&M if there is no continual presence of staff on site and that LMI therefore complete an updated assessment to determine an appropriate freeboard which should based on detailed water balances, wave run-up analysis and sensitivity of receiving waters.	LMI is committed to maintaining the 1 m freeboard requirement even during care and maintenance periods and therefore this request is not warranted in this circumstance. There are annual geotechnical inspections and there has never been any issues raised on freeboard. In fact, it is LMI's policy to maintain a minimum of 1.5m free-board on all external tailings dams and this is recorded in each annual geotechnical inspection.	Ok.

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
	ensure there is adequate freeboard. Facilities at Lupin are inspected regularly during the open water period (monthly) and prior to freeze up to ensure there is sufficient capacity to handle to following year's freshet. Facilities are decanted as needed, meeting effluent quality criteria, and the freeboard limit of 1-m has generally been met.	especially with no final spillway. Typically one would assess: Capacity to store a wet year of runoff at the end of the season if the pond was not drained Additional storage to store the probable maximum runoff Additional freeboard to account for wave run-up during high wind events.			
AANDC 2.3 New Effluent Limits AANDC requests that LMI conduct a review of past effluent treatment performance and propose new effluent limits where appropriate. The review and proposed limits should be presented in a report.	LMI is committed to continual improvement and continues to monitor the Lupin mine along with the potential for identifying additional resources through its exploration activities. The Lupin mine has discharged effluent since the 1980s according to the effluent quality criteria included in Licences for the protection of the receiving environment, and based on the monitoring carried out to date the effluent quality criteria has achieved protection. Should operations recommence LMI will look to continually improve operational performance as part of best management practice, however the existing effluent limits are anticipated to remain applicable.	LMI was not responsive to the request.	AANDC maintains that effluent treatment objectives should be reviewed prior to the mine resuming operations, considering anticipated changes to MMER standards.	There is no basis to modify the effluent quality criteria at this time. In the event MMER is modified those changes are likely to apply to the Lupin mine at that time irrespective of the water licence.	Ok.
AANDC 2.4 Water Use / Recycling of Water AANDC requests that LMI provide an explanation as to why a water recycling approach is not considered if production is resumed on site.	LMI will evaluate the potential to recycle water and the effect this could have on the mill process and ore recovery if the mine is put back in operation. However, based on past water volumes used during operations, LMI requests that the current permitted volume be maintained based on previous volumes required for mining operations. LMI's review of the water balance to date sees no clear option to reduce water usage at this time.	LMI states its review of the water balance sees no clear option to reduce water use but provides no explanation. The question is why would reclaim water use not reduce fresh water use? Effectively, this suggests that the quality of the water discharged from the tailings pond is not of acceptable quality to use in the process but suitable for discharge to the environment.	AANDC encourages water recycling as a means to reduce the volume of tailings water produced and stored on site and looks forward to the evaluation of the potential to recycle water during operations. It is expected that this evaluation will be submitted to the Board prior to restart of mine operations. See comment in Table 1.	See LMI original response. LMI take umbrage with the SENES suggestion that ", this suggests that the quality of the water discharged from the tailings pond is not of acceptable quality to use in the process but suitable for discharge to the environment". There was a detailed water balance completed for this operation- it operated for 20 years without any issue, if more water could be recycled it would because fresh water	Ok. The suggestion came from LMI's commitment to "evaluate the potential to recycle water and the effect this could have on the mill process and ore recovery if the mine is put back in operation."

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
				requires more power and pumping capacity so it would be inefficient not to use more recycle water if one could do so. Furthermore, any water discharged to the environment is only done once it meets or exceeds receiving water quality as mandated by law.	
AANDC 2.5 Reclamation Cost Estimate – Long-term Care and Maintenance Costs Update to the RECLAIM model to reflect costs for long-term inspection, monitoring, and care and maintenance. The cost estimate also does not appear to have any allowances for final spillway construction, removal of gated control valves, dam breeching or remedial works to dams (e.g., rip-rap addition), as outlined in the closure report or additional cover material required adjacent to the dams to assure the saturate tailings concept is successful. There are areas where inadequate costs are	LMI provided an updated reclamation cost estimate to the NWB in April 2013, included with the 2012 Annual Report. In June and July 2014, LMI is undertaking a reevaluation of the reclamation cost estimate. LMI will provide additional information to address AANDC's technical issues on closure costing by the end of August 2014.	Please refer to SENES Technical Review addressing the LMI relicensing submission for details of the deficiencies in the costs. We look forward to LMI's updated RECLAIM estimate.	The Department looks forward to the updated reclamation cost estimate in August 2014. It is expected that it will address concerns identified in the Technical Memo and attached SENES Report. AANDC requests that interested parties be provided an opportunity to assess the new information presented during the application process.	LMI is committed to work with AANDC on the review of the reclamation cost estimate leading up to the hearing. LMI requests a copy of the AANDC detailed RECLAIM estimate. LMI can provide its estimate as well.	AANDC does not have sufficient information to produce a detailed reclamation cost estimate. Preliminary comments regarding LMI's updated estimate (October 18, 2014) were provided to LMI on October 24, 2014 and a thorough review of LMI's revised updated cost estimate will be conducted once more information is made available.
provided. These are: 1. Costs for long-term inspection, monitoring, and care and maintenance. This is a material deficiency as this site will require long-term inspection, monitoring, and care and maintenance well beyond the 5 years allowed for in the current estimate. Ongoing maintenance of covers, spillways, dams, etc. will be required, and at no time can this site with engineered dams and hydraulic structures be abandoned. Perpetual inspection and monitoring of the site will be required and costs must be reflected in the reclamation estimate. 2. The cost estimate also does not					This issue was carried forward into the TM-PHC (No. 14).

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
appear to have any allowances for final spillway construction, removal of gated control valves, dam breeching or remedial works to dams (e.g., rip-rap addition) as outlined in the closure report, or additional cover material required adjacent to the dams to assure the saturate tailings concept is successful. 3. There is no provision for repair and upgrading of existing soil covered areas where cover depth is inadequate. 4. As a minimum, a second post closure EEM is also likely required. AANDC requests that LMI provide an updated reclamation cost estimate that includes long-term costs for care, monitoring, maintenance and inspection of the site. Additional deficiencies may be identified once a complete technical review is					
completed. AANDC 2.6 Hydrocarbon Remediation Plan A formal plan and schedule to address the management and cleanup of hydrocarbon contaminated soils – AANDC recommends that LMI submit a revised Waste Management Plan. Specific requirements for the management of hydrocarbon soils should include: 1. A monitoring program to define the extent and characterization of hydrocarbon contaminated soils, 2. Program and schedule for management of the contaminated soil, and 3. Siting and design of a landfarm (should on-site management of the material be selected).	A Waste Management Plan (WMP) was submitted to the NWB in March 2013, included as part of the 2012 Annual Report. Regarding landfarming, Section 7 of the WMP states that soils contaminated from spills of petroleum products (including diesel, gasoline, oils, used oil, and grease) will be remediated to the CCME Canada Wide Standards for Petroleum Hydrocarbons in Soil, which have been adopted by the Government of Nunavut in the Environmental Guideline for Contaminated Site Remediation (2009). At present, as part of care and maintenance, LMI continues to collect on an ongoing basis any hydrocarbon impacted soil when encountered and places it in sealed drums to be backhauled whenever possible on return flights for processing at a third party facility.	LMI did not provide a response to items 1) and 2). Regarding item 3) the Hydrocarbon Soils Management Plans suggests that on-site treatment in using landfarming is preferred while this response suggests that LMI prefers to back-haul material for off -site disposal.	See Recommendation 5 above, and proposed changes to Part E, Item 14 in Table 1 above.	See LMI response to SENES 2.1.3.	Response provided during TM-PHC presentation (No. 5).

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
AANDC 2.7 Hazardous Waste Management The removal of the historic inventory of hazardous waste from the site. The management plans call for removal of the waste from site but large inventories	LMI Response (July 2014) Drums are stored in a lined storage area until they can be backhauled to mitigate environmental risks. While soil management has been considered and included in the reclamation cost estimate (2012 Annual Report), LMI's preferred approach is to backhaul materials as landfarming requires considerable infrastructure and is challenging given the short duration of the summer period. Further, LMI has indicated in the March 2013 Abandonment and Restoration Plan, that the West Zone crown pillar, which was mined between 1996 and 2004, has been left open for the future disposal of demolition debris and soils. However, in the event landfarming is determined to be feasible, LMI suggests that a stand-alone Landfarm Management Plan be provided to the NWB prior to construction. LMI takes every opportunity to backhaul hazardous waste from the site. Progressive reclamation activities during 2013 consisted of backhauling 51 mega bags of waste from the site. LMI agrees that the WMP should be clarified to indicate that hazardous wastes	LMI has not provided an inventory of hazardous materials or a schedule for removing hazardous materials from the site.	AANDC requested LMI to provide an inventory of hazardous materials and that the inventory be updated annually and submitted in annual reports. See proposed licence condition	While LMI can provide an inventory of hazardous waste stored securely within the lined containment area at site, LMI does not agree that a schedule is required for	Response provided during TM-PHC presentation (No. 4).
continue. AANDC recommends that LMI update the management plans for hazardous waste to include the location and design of the storage facility and provide a schedule for removing the inventory of hazardous waste.	that are stored pending backhauled are to be stored in sealed drums in designated areas. LMI has noted this clarification and will include it in the next iteration of the WMP.		regarding a schedule for removing hazardous materials in Table 1.	removal of the material and it is not feasible to have all waste backhauled in every year and is the reason why there is a storage facility at almost all mine sites. Every effort is made to backhaul waste on available flights.	
AANDC 2.8 On-Site Landfill AANDC notes that the on-site landfilling of waste is not authorized under the current water licence, and as such all waste must be removed from site. Section 5.2 of the current Waste Management Plan (LMI, 2013) suggests an application for an on-site landfill will be requested but this has not yet been received. AANDC requests an update from	As noted in the March 2013 WMP, non-combustible, non-hazardous materials were historically placed within the landfill area at site and constantly kept covered. One burn pit is located on site adjacent to the landfill, and a second one is at the north end of the site. Historically, combustible non-hazardous, non-domestic waste was open-burned at these designated locations.	It appears that LMI will submit an application Landfill Management Plan by the end of July 2014.	LMI committed to submitting a Landfill Management Plan in July 2014 but it has not yet been received by AANDC. AANDC requests that interested parties be provided an opportunity during the technical review to assess the new information.	This plan was submitted to the NWB on July 31, 2014.	AANDC conducted a preliminary review of this plan and have no concerns at this time. These issues were brought up at the TM-PHC (No. 11 and 12), requesting standard terms and conditions for these activities.

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
LMI on the status of an application for an on-site landfill.	The landfill at site has been used in the past on a regular basis and is included in previous versions of the WMP. LMI requests to continue to utilize the landfill and burn pits, and requests that these activities be included specifically in the Licence renewal to clarify the perception of a permitting issue noted by AANDC. This clarification will facilitate the progressive reclamation of the site. A WMP was previously submitted to the NWB for approval in March 2010 by MMG Canada as Appendix A of its Care and Maintenance Plan in accordance with Part I, Item 2 of water licence 2AM-LUP0914. This plan proposed the same landfill operations. The NWB distributed the Care and Maintenance Plan including its Appendices to interested parties for review and comment on October 13, 2010 and by November 12, 2010 comments were received from AANDC, EC, and the KIA. AANDC recommended that if the facility is to be used, a plan be submitted by the Licensee. LMI will submit a Landfill Management Plan by the end of July 2014.				
AANDC 2.9 Updated Compliance Plan A formal updated Compliance Plan to be approved by the Inspector. A Compliance Plan was submitted in October 2012 and updated in October 2013 to address all non- compliant conditions in the licence. The plan is now out of date and many of the commitments made in 2012 have not been met (e.g., maintenance and repairs to dam structures, windblown tailings actions). AANDC recommends that LMI update the Compliance Plan and adhere to proposed schedules for action. This plan must be prepared in conjunction with and approved by the Inspector.	LMI provided an updated Compliance Plan with the 2014 renewal application. Please see attached for your reference.	The compliance plan submitted was competed in 2013 and is outdated. It is not known whether many of the actions proposed for 2013 and 2014 were completed.	According to the July 15, 2014 AANDC Inspection Report (see attached), the changes discussed with LMI regarding the compliance plan were never incorporated into the plan and submitted to the NWB, a number of items were not accurately reflected in the plan, and commitments have not been completed. AANDC recommends that the Compliance Plan be updated to address Inspector's concerns and that it be approved by the Inspector and by the Board prior to renewing the Type A licence.	It is unclear which issues have not been addressed. Without this detail LMI cannot comment on whether an updated compliance plan is required. To LMI's knowledge the issues have either been addressed or clarified with context during this renewal process.	AANDC recommends that LMI work with Eva Paul, Water Resources Officer, to finalize the compliance plan. This plan should be approved by the Inspector before it is submitted to the NWB.

AANDC 2.10 Unattended Site The mine is currently under Care and Maintenance, however, during much of the year there is no presence at the site. AANDC notes that this is contradictory to the 2007 Mine Site Reclamation Guidelines (AANDC, 2007) which requires personnel on-site to fulfill all the monitoring requirements. If the site is unattended, it is not actually in care and maintenance. This greatly increases the risk that unplanned events could lead to contamination of the environment. The site contains valuable infrastructure (buildings, fuel farms, sewage ponds, hazardous waste storage, tailings dams and ponds), all of which require care and maintenance. With no presence on site, spills could go undetected for weeks: AANDC recommends permanent presence at the site. As mentioned earlier Care and Maintenance according to the 2007 Mine Site Reclamation Guidelines (AANDC, 2007) requires personnel to be on-site to fulfill all the monitoring requirements. If the site is unattended, it is not actually in care and maintenance. Similar to other northa and maintenance, LM procedures prior to va		SENES Comments LMI has not responded to the comments and concerns raised by AANDC. LMI cannot meet its own commitments in its management plans, water licence monitoring requirements or the 2007 Mine Site Reclamation Guidelines (AANDC, 2007)	Refer to recommendation 18 above.	LMI Response (October 2014) There is on-going confusion between the application of the licence conditions during operations vs care and maintenance. This is an administrative issue that LMI	AANDC comments AANDC agrees that there is confusion. AANDC inspectors enforce the water licence and while plans become part of the licence once approved, the
The mine is currently under Care and Maintenance, however, during much of the year there is no presence at the site. AANDC notes that this is contradictory to the 2007 Mine Site Reclamation Guidelines (AANDC, 2007) which requires personnel on-site to fulfill all the monitoring requirements. If the site is unattended, it is not actually in care and maintenance. This greatly increases the risk that unplanned events could lead to contamination of the environment. The site contains valuable infrastructure (buildings, fuel farms, sewage ponds, hazardous waste storage, tailings dams and ponds), all of which require care and maintenance. With no presence on site, spills could go undetected for weeks: AANDC recommends permanent presence at the site. As mentioned earlier Care and Maintenance according to the 2007 Mine Site Reclamation Guidelines (AANDC, 2007) requires personnel to be on-site to fulfill all the monitoring requirements. If the site is unattended, it is not actually in care and maintenance. Similar to other northe and maintenance, LM procedures prior to va	nance without a constant ocations, and established are followed purpose LMI a site presence is required ag the open water period ditions of the Licence for receiving environment	comments and concerns raised by AANDC. LMI cannot meet its own commitments in its management plans, water licence monitoring requirements or the 2007 Mine Site Reclamation		between the application of the licence conditions during operations vs care and maintenance. This is an	confusion. AANDC inspectors enforce the water licence and while plans become part of the licence once approved, the
inspection of waste m inventory of fuel and of fluid levels in tanks, a drainage systems.	ar basis to ensure eze up. To this end, LMI inspections from May to frequency noted in the mitted with the comprehensive annual tion by a third party. LMI des when deemed hat the facilities are e condition, and issues are ng risks prior to leaving to maintain an on-going templating the schedule nance LMI has given due increased risks to the taker crew working at a thern remote sites in care MI follows standard vacating the site on a luding securing access,	with an unattended site.	AANDC agrees that reclamation	requests the NWB clarify through the approval of the plans submitted for care and maintenance. LMI is not agreeable to staffing personnel on a permanent basis at this remote site during periods of care and maintenance. This is unnecessary and poses a significant and unacceptable health and safety risk LMI respectfully submits that the NWB achieves protection of the receiving environment by setting discharge limits and not by guiding the staffing requirements for undertakings	licence is enforced in instances where the plan contradicts the water licence. So even if your plans propose alternative monitoring requirements, the monitoring requirements stipulated in the water licence will be enforced. AANDC would consider separate monitoring requirements for operations and care vs. maintenance to alleviate this issue. This issue was carried forward into the TM-PHC (Comment No. 16-18, and Additional Comment No. 1).
Schedule B, Item 1 (m) and Part I, Item 3: regards to the annual r	d chemicals, recording of and inspection of	LMI has agreed to annual		requirement for a reclamation	LMI's request to reduce the
preparing annual reports and reclamation cost assessments be reduced to once every three cost estimate may not where facilities and cost estimate may not assessments be reduced to once every three	d chemicals, recording of	LMI has agreed to annual reporting.	assessments could be conducted in three year intervals while the	cost update every 3 years is	frequency for preparing annual

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
years. We see no need nor benefit for reduced reporting frequency.	substantially unchanged. In these cases the estimate would be updated based on acceptable inflation indices particular for the location.		Operations.	changes to the site infrastructure (new features or progressively reclaimed features) or if there are significant changes in labour, or unit costs to carry out the work.	years. AANDC maintains that annual assessments of the reclamation cost estimate are required during Operations and every 3 years during Care and Maintenance. We believe this is something that can be included in the request for reduced water use, monitoring and inspection frequency during care and maintenance.
Part A, Items 12-16: LMI would like to remove or update general conditions regarding plans such that project activities are not hindered or delayed due to timing of approval. The requirement to submit, revise, and update plans is necessary and AANDC recommends that the applicant submit required plans and updates well in advance of resuming activity in order to prevent delays and hindrances	LMI generally agrees with the requirement to submit, revise and update plans according to the Licence. LMI submitted updates to a number of plans in April 2013, which have not been formally approved by the Board	LMI has agreed.	AANDC accepts LMI's commitment.	Agreed.	Ok.
Part E, Item 6 (f): LMI has indicated weekly inspections are not practical for the site while under Care and Maintenance. They have requested that inspections be carried out on a bi-weekly basis during freshet (approx. May and June), and monthly during the remainder of the open water period. AANDC does not support this request. As a minimum, the inspection frequency should be as specified in the SRK 2012 Geotechnical Dam Inspection Report which states that pond water levels be monitored weekly during the freshet and weekly during the open water period if pond levels were allowed to rise. Also see recommendation under section 2.10 regarding definition and obligations while under Care and Maintenance.	To clarify, SRK suggested in the 2013 Geotechnical Inspection Report that LMI submit a request to the Nunavut Water Board for an amendment to the schedule. Given the lack of mining activities and loading, SRK suggested that a schedule consisting of bi- weekly inspections during freshet, and monthly inspections for the remaining open water period would be adequate. In the event water levels in the ponds are allowed to rise, then inspections should be carried out bi- weekly. However, given that containment areas are generally decanted early in the year, preventing the accumulation of water, monthly monitoring is adequate. Regarding the interpretation of care and maintenance from the noted guideline, LMI carries out activities and third party inspections as needed to ensure the site is secure and stable, and maintains a security deposit with	LMI is correct that SRK changed their 2012 recommendations in 2013 to be in accordance with LMI's request for biweekly inspections during freshet, and monthly inspections for the remaining open water period. This was understood to be based upon the assumption that the ponds would be drained which, to our understanding, has not occurred. LMI also indicates it is risky to have a crew at the remote site as it would "require that facilities continue to operate which requires more fuel and increases hazard". It is understood that at this time there are more than 2	AANDC maintains that the monitoring frequency required under 2AM-LUP0914 should be continued because the SRK report appears to be based upon the assumption that the ponds would be drained which, to our understanding, has not occurred and because there is more than 2 million litres of hazardous fuel on site and the fuel management and spill contingency plans do not appear to be followed.	Fuel is stored in lined and bermed engineered facilities that are inspected by a geotechnical engineer on an annual basis and based on those inspections does not pose a risk to the environment. Water that collects within the containment area is tested and discharged to the environment as needed. Recently water was not discharge because LMI was instructed by AANDC that it was prohibited to carry out the licence obligations once the licence expired pending renewal. Please also see LMI response to SENES 2.2.2.	Response provided during TM-PHC presentation (No. 18).

AANDC Comments	LMI Response (July 2014)	SENES Comments	AANDC Comments	LMI Response (October 2014)	AANDC Comments
	AANDC. However, once scheduled care and maintenance activities are carried out and the site is secured, there is no need to maintain personnel on site until the next scheduled visit. Maintaining a crew at the remote site indefinitely presents safety hazards, and would require that facilities continue to operate which requires more fuel and increases hazards.	million litres of hazardous fuel at the site. There is a Fuel Management Plans in place, but it has not been followed.			
Part H, Item 6: LMI would like the requirement of weekly fuel storage monitoring to be reduced. AANDC recommends that LMI examine alternatives such as remote monitoring with video surveillance and product level monitors before such a request is considered. Also must be in compliance with Environment Canada regulations and monitored for a period of time to ensure proper installation.	LMI will investigate the feasibility of remote video monitoring by the end of July 2014.	LMI has agreed to investigate remote monitoring	AANDC accepts LMI's commitment. AANDC requests that interested parties be provided an opportunity to assess the new monitoring plan during the application process.	LMI has investigated remote video monitoring and understands that there are power challenges during the extended dark winter period. However LMI will continue to assess options and the feasibility of this approach with the supplier.	AANDC looks forward to updates regarding remote video monitoring and recommends that this commitment is outline in their proposed monitoring plan.
Section 5.2, Waste Management Plan (LMI, 2013): LMI states that non-combustible and non-hazardous materials have been historically disposed in a landfill and they propose to continue utilizing the landfill for the disposal of solid waste. This proposed change was not identified in the table provided by the applicant but it is a proposed change to the scope of the water licence and should be taken into consideration.	To clarify, the use of the landfill was noted as a site waste management practice in the WMP submitted in 2009 and has been used frequently in the past and was considered as part of previous applications and plans. Its omission from the current Licence appears to be an administrative issue rather than an issue of scope. While the landfill has not been operated in recent years, LMI requests that the Licence renewal acknowledge the facility to address the perception of a permitting issue. LMI will submit a landfill management plan by the end of July 2014.	It appears LMI will submit a licence application for an on-site landfill by the end of July.	AANDC agrees that the licence should acknowledge the landfill facility and the Department looks forward to the landfill management plan. As above, it is requested that interested parties be provided an opportunity to assess the new information presented during the application process. See recommendation 5 above.	To clarify, the landfill is not subject to a separate application. LMI submitted the Landfill Management Plan inclusive of open burning protocol to the NWB.	Ok.