Reviewer Comments and Proponent Responses

Project: Pine Point Mine Project Board: Mackenzie Valley Environmental Impact Review Board Organization: Pine Point Mining Limited

No	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response			
Smith	Smith's Landing First Nation - lands_admin@slfn196.com Heaton						
1	1 (Land/Community)	SLFN has strong ties to its territory. This land has sustained SLFN and has provided physical, mental, spiritual health for the people. In return, SLFN has managed and protected the land and resources by living a balanced life in line with Dëné Ch'anie. As shown in Figure 1 (see letter), the proposed Project is within SLFN territory, and overlaps with areas of specific interest and historic use and occupancy for SLFN (including Paulette River). The proposed area of development also overlaps with an area where a small marginalized (and relocated) community called the Rocher River once existed. SLFN notes that it does not appear anywhere in the TOR as a noted community that maybe impacted by the proposed Project. This is important due to ancestral connection to the community. SLFN is a community that was and continues to be impacted by the legacy left by previous development and will undoubtedly be impacted by the proposed Project.	recognizes that the project is within the territory of SLFN in Section 1.1 and any other applicable sections of the TOR.	No response required			
2	Due date extension request	Due date extension request		No response required			
3	SLFN comments		Reference	No response required			
4	2 (Traditional Lake Use Sectin 4.2.8)	NARRATIVE:	The scope of the line of inquiry for Traditional Land Use (Section 4.2.8) is	PPML will work with those Indigenous communities closest to the Project and with the greatest propensity to			

Harvesting is a key activity in Dëné culture. It is economic in nature, but the interaction is not transactional. Harvesting not only provide food and medicines but provide lessons and teachings on living a balanced Dëné Ch'anie. The ability of SLFN members to confidently access healthy animals and clean water, has a direct effect on every aspect of SLFN society. Healthy animals and clean water encourage and allow people to spend time on the land, exercise and optimize rights, teach children intergenerational knowledge and practices, practicing culture, sharing, Results of all VC assessments are forming community connections, and actively reaffirming their identity as Dënésuliné. For SLFN this is health and healing. Damage to the land and resources in their territory is destructive to Dëné Ch'anie as it disconnects members from one another, their history, culture, traditional values, and ancestors. The health of the Nation suffers greatly.

COMMUNITY COMMENT:

Lost area.

Area was always used prior to mine opening Harvesting through treaty rights. Paulette Creek is right through this area. Ancestors used to live there. Community gathering place. Avoidance really started to impact all First Nation communities. If they reopen, no possibility of reclamation ever. Damage too great to recover if this mine opens again.

limited and SLFN is concerned that the current scope will not reflect the holistic nature of Indigenous land use and the broad reaching implications of disturbances to these activities. The existing and baseline conditions listed in Page 5 of 8 the TOR (Section 4.2.8) are focused on harvesting. Indigenous land use is complex and cannot be accurately reflected through harvesting activities alone. As such, this section should be expanded to reflect the complexity of Indigenous land use.

integrated (quantitatively) to understand holistic effects (Section 4.3). Assesses cultural impacts of wage earning and traditional lifestyles.

experience impacts to undertake community-led Indigenous Knowledge studies specific to the Project area. Such studies will consider those items listed in Section 4.2.8 of the TOR, but are also free to identify other aspects of Indigenous land use in the Project area of importance.

5	4 (Key Lines of Inquiry	The key lines of enquiry identified in	It is recommended that the following	PPML disagrees that these additional key lines of inquiry
	Section 2.2.2)		additional key lines of enquiry be added	recommended by SLFN should be added to the TOR.
	,	to guide an assessment that reflects Dëné		These concepts are currently considered within the TOR
		Ch'anie (see Supplemental table).	undertaken by the Proponent.	under the following headings:
		Supplemental table includes columns on	- Managing water to prevent further	Surface and groundwater quality and quantity
		Value Aspects, Recommendation, TOR	deterioration from the current condition	(Section 4.1.5)
		Concordance and Community	(which reflects contamination and	• Use of water by people (Section 4.2.1 of the
		Comments. 14 rows of different Value	ongoing liability management from	TOR)
		Aspects are included in the table.	historical development).	• Fish and aquatic life (Section 4.2.2)
		•	- Sustainable and healthy surface water	• Vegetation (Section 4.1.6)
			and groundwater quantity and quality.	Moose, furbearers, and other wildlife (Section
			- Sustainable and healthy wildlife	4.2.4)
			populations	• Boreal caribou (Section 4.2.5)
			- Sustainable and healthy fish	• Indigenous land use (section 4.2.8)
			populations	Social and community conditions (Section
			- Sustainable and healthy plant	4.2.12).
			populations (including, but not limited	
			to, berries, food plants, medicinal plants)	
			- Preventing negative impacts to cultural	
			ways of life and the peaceful	
			optimization of SLFN's Rights, and	
			social and economic conditions.	
6	5 (Fish)			Such studies will consider items such as those listed in the
		its tributaries has a deep cultural and	of the Project on these Slave River	reviewer comment (i.e., fish movement, fish harvesting).
				PPML plans to assess effects to fish harvesting in the
		for SLFN to live a life guided by Dëné		Indigenous Land and Resource Use assessment of the
		Ch'anie. Many fish populations have	be assessed.	DAR.
		migratory ranges that originate in the Slave River Delta and Great Slave Lake.		In the fish and fish habitat section of the DAR, the
		It is SLFN's fear that fish populations,		potential effects of the Project on the migratory fish populations, including fish health, in Great Slave Lake
		such as the long nose and white suckers		will be explored in the pathway analysis process.
		that are harvested in the spring are being		Pathways will be screened so that those pathways that
		exposed to contamination from both the		have the potential to cause adverse residual effects to fish
		past mine and the proposed project.		and fish habitat would be carried through to the
		The following Figure (see letter) outlines		assessment. Results from the surface water quality and
		the interconnectivity of the watershed		hydrology assessments will be considered to determine the
		and spawning routes. Every spring SLFN		potential for residual adverse effects to fish populations in
		members have gathered on the Salt River		Great Slave Lake. The proposed study areas for fish and
		at the Tthejëre Ghajli reserve (located in		fish habitat are described in Section 4.2.1.5 of the
		at the Thiejere Ghafif reserve (located in		rish habitat are described in Section 4.2.1.5 of the

				D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		red on the Salt River) to harvest both		Developer's Assessment Proposal (also see response to
		long nose and white suckers, which		GNWT-19), and includes the shoreline area of Great Slave
		travel up the Slave River from the delta		Lake near the proposed Project. No direct or indirect
		to spawn on the Salt River.		Project effects would occur to the Slave River.
7				PPML has agreed to conduct a Human Health and
		quality has diminished.		Ecological Risk Assessment (HHERA) in the DAR; this
				has been included in the TOR. PPML will work with
		it's the quality.	remediation and reclamation of	Indigenous groups on the selection of receptor locations.
		Woodland Caribou hunting has been	contaminated and destroyed areas of the	
	Requirements for SLFN)			Baseline surface water quality as well as water quality
		Trees dying along the creek.		predictions will be compared to drinking water guidelines;
		Lots of avoidance of area.	members using appropriate	this has been included in the TOR.
		Water major issue, contamination.	communication techniques and with a	
		No leakage or spillage into the GSL.	reasonable level of detail to	Soil quality will also be compared to relevant guidelines.
		Water containment using proper new	meaningfully answer community	
		technology.	questions. In addition, we request that	
		Why can't they spend the money to do	the Proponent provide a more accurate	
		this properly?	assessment of potential risks from	
		Water flows all the way to the ocean and	ingestion of surface water (untreated)	
		PPML needs to be responsible.	and fish. It is recommended that the	
		Need water testing on the existing water.	Proponent include a comparison of	
		Dug outs need to be tested by SLFN and	surface water quality predictions	
		not industry.	(Section 4.1.5) to both Health Canada	
		Drain the tailings ponds and line the new	(2021) "Guidelines for Canadian	
		pits.	Drinking Water Quality" and US EPA	
		We want to do the water testing	(2015 updated to 2021) "National	
		independently of industry.	Recommended Water Quality Criteria	
		Use our own people to get results to	Tables – Human Health for the	
		protect future.	consumption of Water + Organism".	
		Collect and analyze our own data.	SLFN elders also recommend that	
		Water in the pits needing to be tested.	Indigenous people in the area be trained	
		Water evaporation Rain and snow	and take responsibility for monitoring of	
		contaminants.	the site. The Project TOR must clearly	
		What is being evaporated into the air?	describe the requirement for PPML to	
		Pollution/contaminants in the air?	describe the current condition and	
		Cumulative effects of the air	contaminant levels in the groundwater	
		contaminants .How does it affect	and surface water and provide an	
		traditional land?	assessment of potential risks. Each of	
		indicional fand.	these recommendations should be	
			unese recommendations should be	

6 Traditional Land Use, receptor locations for modeling Section 4)	fiduciary responsibility to protect land and harvesting. Past, No organization of camp. Disposal issues with garbage and wastewater. Where did the water come from? No principles or values from management. The Dëné culture is constructed upon reciprocal relationships formed between the community and the land. Thus, the integrity of the culture is dependent on the health and well being of the land and resources. Prior to the original mine, Pine Point was an area used by SLFN. SLFN practiced their culture extensively here; some lived in the area, it was frequented as a travel corridor, community gathering site, and was used for harvesting. SLFN would like to be confident in the health of the area so they can return to using the area. SLFN members have identified several areas of cultural importance as well as areas that	receptor locations in modelling and assessment studies as proposed in Section 4 of the draft TOR.	PPML agrees with the consideration of the travel corridors as receptor locations in the human health assessment.
	have changed over the years and are not healthy.		
7 (Culture, Ecological Risk Assessment (Section 4.1.14, 4.2.12)	Dëné Ch'anne guides SLFN members to make decisions about how to use and protect the integrity of the land and water	health assessment will be completed (Section 4.1.14) but it is unclear if a full ecological risk assessment (ERA) is proposed. Therefore, SLFN recommends	An ecological risk assessment will be conducted in addition to the human health risk assessment and CCME 2021 guidance will be utilized.

	Γ	T	T	
		in-perpetuity. SLFN is currently	and assessing potential risks to aquatic	The human health assessment, will include social and
		experiencing significant cumulative		Indigenous indicators of health as per current Health
		impacts from development in its territory		Impact Assessment Guidance.
		which has not only diminished and	indicate the Proponent has agreed to	
		harmed the values of Dëné Ch'anie but	undertake an ERA; however, this must	
		has challenged SLFN's ability to make	be identified in an updated and final	
		informed decisions on the management	TOR.	
		of the land. Management of the land	Section 4.2.12 identifies some of the	
		includes the use of Dëné Ch'anie and	social indicators that should be used in	
		western methodologies to understand if	assessing social and community	
		human and ecological health are in	conditions. Consideration must be given	
		balance. Members of SLFN have	to identifying indicators of social and	
		explained that these elements are already		
		out of balance due to impacts from	Ch'anie system and values. Any	
		development and require more	assessment of SLFN Dënésuliné culture	
		information to develop culturally	must occur through the lens of Dëné	
		appropriate indicators with thresholds	Ch'anie and include changes to	
		and limits.	relationships as an indicator. Integrating	
			health impact assessment methods, such	
			as those published by the Government of	
			Canada is one mechanism by which	
			direct and indirect impacts to traditional	
			land use can be assessed and are	
			recommended.	
10	8 (Stewarding of land	Narrative:	It is recommended that Section 5.5	No concerns
	and water) 4.1.1-4.1.6,	The Dëné Ch'anie value of land and the	require the Proponent to consider	
	4.2.1-4.2.8, 4.2.11-	role of SLFN as stewards of the land for		
	4.2.14, 4.3, 5.5	future generations leads to concerns over	assessing alternate means to carry out the	
		the energy that will be used to operate	Project and consider the Dëné Ch'anie. It	
			is recommended that Section 5.5 require	
			the Proponent to consider renewable	
		have on SLFN traditional lands and	energy sources when assessing alternate	
		resources. SLFN Elders feel strongly that		
		the Proponent should consider less	consider the Dëné Ch'anie principles of	
		energy intensive technologies for	protection and sustainability rather than	
		extraction, processing, and infrastructure	economics when making design	
		to decrease both emissions and use of	decisions.	
		non-renewable resources.		

4.2.4, 4.2.8, 4.2.11, 4.2.14, 4.3	Water containment using proper new technology. Why can't they spend the money to do this properly? Water flows all the way to the ocean and PPML needs to be responsible. RECOMMEND: Need water testing on the existing water. Dug outs need to be tested by SLFN and not industry. Drain the tailings ponds and line the new pits. We want to do the water testing independently of industry. Use our own people to get results to	Water: SLFN members provide discrete receptor locations for modelling and assessment. Include human consumption guidelines (Health Canada Drinking Water Quality Guidelines; US EPA National Recommended Water Quality Criteria - Human Health Criteria Table).	PPML do not agree that the TOR be revised based on this recommendation. For the DAR, PPML will establish assessment nodes for the surface water quality assessment based on a detailed understanding of the Project and its potential to affect surface water and groundwater quantity and quality, and the corresponding integrated surface water and groundwater model development. PPML will consider and incorporate feedback from SLFN and other interested parties on these assessment locations, but in order for the results to most representative of the Project effects, the final decision on the placement of the assessment nodes should fall with the technical team that is conducting the surface water quality modelling and assessment.
	Use our own people to get results to protect future. Collect and analyze our own data. Water in the pits needing to be tested.		

12	9. Stewarding of land	Narrative:	SLFN requests a section outlining the	The DAR will include a section on the purpose of the
	and water) 4.1.1-4.1.6,	SLFN recognizes that the land is a living		project; see Section 5.5 of the TOR.
	4.2.1-4.2.8, 4.2.11-		on the following questions: What will	
	4.2.14, 4.3	can have lasting impacts not only in that		The second recommendation is outside of the purview of
	,		here? Where do they go? How are they	the DAR and regulatory process. PPML will continue to
			used?	engage with SLFN as the Project to advances on topics
		from cradle to grave, of any activity that		important to the community.
			Create SLFN Opportunities Agreement	r
			to address community expectations on	
			ethical investment and sustainable	
		Community comment:	legacy.	
		Open communication with PPML		
		required for meaningful community.		
		They shut down the mine in the 80's Why		
		are they opening it up again?		
		What's the hurry or rush to reopen?		
		Why did they shut down the mine		
		initially?		
		Government never supported the treaty		
		rights of the Nation trying to		
		protect.Arsenic poisoning.		
		Tailing's pond leaking into the lake back		
		them.		
		Contaminants making nature die off;		
		complete denial from industry.		
		Offerings for everything that is removed		
		from the land.		
		We want a indigenous co management		
		board for responsibilityUnify the		
		Dënésulme community.		
		Make it beneficial for all involved		
		Ethical investment and sustainability		
		What employment and economic		
		opportunities will be available to the		
		Nation should the Nation consider the		
		Project appropriate?		
		Water evaporation Rain and snow	Assess land contamination from	PPML does not expect an interactions pathway of
	4.1.6, 4.2.2-4.2.8, .2.11,	contaminants.	groundwater and surface water runoff.	groundwater and surface water runoff to land that results
	4.2.14, 4.3			in contamination. The water management plan for the site

			locations. Compares predicted soil quality to environmental and human health guidelines (CCME).	and mitigation associated with this plan will be included and described. However, a localized effect may occur as part of an accident and malfunction from water transfers (e.g., pit to pit transfers) on the Project footprint. Accidents and malfunctions are included in Section 5.6 of the TOR.
		Where did the water come from?		
		No principles or values from management.		
14	Healthy Animals, 4.1.1-	Too much pollution coming from too	Animals:	An ecological risk assessment will be conducted.
	4.1.6, 4.2.1-4.2.8, 4.2.11, 4.2.14, 4.3	much industry. Close to mine site; less and less actual harvesting.	Include an Ecological Risk Assessment.	
			SLFN members provide discrete receptor locations and Valued Components	
		Deformed fish already being found.	(VCs).	
		Fish run up and down the Slave from Great Slave Lake (GSL).	Animal health is assessed holistically as	
			a function of ecosystem health and	
		runs?Moose infected and not able to	linked to human health and culture of	
		consume due to Fort McMurray.	Indigenous people	
		Moose hunting still in area closer to Fort		
		Resolution		
		Birds and harvesting does happen but the quality has diminished.		
		Berry picking available in area but again		
		it's the quality.		
		Woodland Caribou hunting has been		
		affected.		
		Trees dying along the creek. Lots of avoidance of area.		
		RECOMMEND:		

	Animals need to be tested. Are there animals even there? Studies are required. No animals = unhealthy environment. Fish need to be tested-sampling. Protect spawning areas.		
Clean Air, 4.1.1, 4.1.3-4.1.6, 4.2.2-4.2.8, 4.2.11, 4.2.14, 4.3	No current air monitoring. RECOMMEND: Air monitoring will be required by SLFN	contamination of soil and water and risks to VCs. SLFN members provide discrete receptor	An air quality monitoring plan is likely to be required as a component of the licencing for the Project should it be approved. PPML is open to discussion regarding the placement of discrete receptor locations for monitoring based on Indigenous Knowledge.
Time on the land (for harvesting or recreation), 4.1.1-4.1.6, 4.2.1-4.2.8, 4.2.11, 4.2.14, 4.3		Traditional land use studies must be holistic in nature and include all aspects of SLFN life and culture on the land, and not be limited to harvesting.	PPML will work with those Indigenous communities closest to the Project and with the greatest propensity to experience impacts to undertake community-led Indigenous Knowledge studies specific to the Project area. Such studies will consider those items listed in Section 4.2.8 of the TOR, but are also free to identify other aspects of Indigenous land use in the Project area of importance.
People practice healthy lives, 4.3	First time with a road into Fort Resolution.	integrated (quantitatively) to understand holistic effects (Section 4.3). Assesses cultural impacts of wage earning and traditional lifestyles	The effects of environmental VC assessments will be considered in the assessment of potential effects on Indigenous Land Uses as presented in the DAR. The interaction of the wage economy with traditional lifestyles will be assessed through the socio-economic and culture components of the DAR.

18	Technology is used	Power to operate mine.	Identifies and assesses alternate	An assessment of available technologies for generating
		Where is it coming from Taltson?		power will be completed. It will include the potential for
		Going to use LNG for generators.		using renewable energy sources as appropriate.
		This will lead to pollution.	emissions.	using renewable energy sources as appropriate.
		What's the energy corridor?	emissions.	
			Adamtad DC andreas of masteration and	
		Where are they getting it from to operate		
		mine.	sustainability and limits economic focus.	
		Who will be impacted by this; will		
		power bills go up in Fort Smith due to this?		
		Clean energy like solar, wind, hydronic,		
		geothermal should be used to generate		
		What are the options?		
		Do you think that Pine Point is leading		
		the Taltson/Site C expansion?		
		Always taking the easy way out; we need		
		to protect the environment by being and		
		using new technology.		
19	Harvesting	Marten (used to be very prevalent prior	Results of all VC assessments are	The effects of environmental VC assessments will be
	experiencesTraditional	to mine, not sure if they are still around	integrated (quantitatively) to understand	considered in the assessment of potential effects on
	Food Security, 4.1.1-	because there are no SLFN trappers	holistic effects (Section 4.3)	Indigenous Land Uses as presented in the DAR. The
	4.1.6, 4.2.1-4.2.8,	using this area anymore)		interaction of the wage economy with traditional lifestyles
	4.2.11, 4.2.14, 4.3	Traditional harvesting of moose, birds,	Assesses cultural impacts of wage	will be assessed through the socio-economic and culture
		berries, fish (sucker run come up	earning and traditional lifestyles	components of the DAR.
		Paulette Creek), and buffalo		
		Fort Resolution had a buffalo ranch after		
		the mine opened to generate food		
		security		
20		What are they going to use these	Results of all VC assessments are	The effects of environmental VC assessments will be
		minerals for?Where is the ore going to?		considered in the assessment of potential effects on
	4.2.11, 4.2.14, 4.3	There is a social responsibility to know	holistic effects (Section 4.3). Assesses	Indigenous Land Uses as presented in the DAR. The
		where the resource will be used and the	cultural impacts of wage earning and	interaction of the wage economy with traditional lifestyles
		legacy that it will bring.	traditional lifestyles.	will be assessed through the socio-economic and culture
		_	-	components of the DAR.
21	Employment and	Make it beneficial for all involved	Create SLFN Opportunities Agreement	This recommendation is outside of the purview of the
	economic opportunities,	Ethical investment and sustainability	to address community expectations on	DAR and regulatory process. PPML will continue to
	4.2.11-4.2.13, 4.2.9	What employment and economic	ethical investment and sustainable legacy	engage with SLFN as the Project to advances on topics
		opportunities will be available to the		important to the community

		hv.: 1 111 xv.:	T	
		Nation should the Nation consider the		
		Project appropriate?		
22		required for meaningful community. They shut down the mine in the 80's Why are they opening it up again? What's the hurry or rush to reopen? Why did they shut down the mine initially?Government never supported the treaty rights of the Nation trying to	SLFN is provided answers to specific questions regarding the history and current state of the site.	PPML acknowledges the specific comments from SLFN noted above.
		protect. Arsenic poisoning. Tailing's pond leaking into the lake back them. Contaminants making nature die off; complete denial from industry. Offerings for everything that is removed from the land. We want a indigenous co management board for responsibility Unify the Dënésuline community.		
23	Member employment, 4.2.11, 4.2.12, 4.2.13	Mine investment. First time SLFN members getting into the wage economy (Cominco mine) Lots of income started to flow into the communities. Long hours. High pay. Lead to many social issues. Work camps. Alcohol and drugs will be introduced to the community. Indigenous cultural training required for workers. Liaison or FN employees. Meet a % of FN employees. Ensure our people get hired first.		No recommendation. PPML acknowledges the importance of the subjects in the reviewer's comment, and will address these concerns through the DAR and/or engagement

		XXII	<u> </u>	
		Who is going to benefit from this mine		
		reopen?Company, Res, Katlodeche,		
		Metis		
		Only 1-2% of FN were working at the		
		old mine.		
		Need to get First Nation into more admin		
		positions and not just laborer's		
24	Traditional Governance			PPML is committed to working with communities to
				understand appropriate governance and cultural protocols
			described by SLFN.	as the Project advances.
		as they found it.		
		They abused the land.		
		They never offered anything back to the		
		land		
25	Healing historical			PPML appreciates the reviewer's comments, and will
	trauma, 4.2.8-4.2.12, 4.3	Land is spiritual, land is alive, it is the		work with communities to understand appropriate cultural
		land, water and air.		and ceremonial protocols applicable to the Project.
		If this mine gets approved; everything	leaving the land better than when it was	
		needs to be done properly in the spirit of	pre-disturbance.	
		reconciliation with land.		
		We must ensure that we protect the land		
		and culture.		
		Reclamation/restoration		
		It should look like the camp was never		
		there		
		Community comment:		
		Mine investment was the first time		
		SLFN members getting into the wage		
		economy (Cominco mine). Lots of		
		income started to flow into the		
		communities. Long hours. High pay.		
		Lead to many social issues.		
		Work camps. Alcohol and drugs will be		
		introduced to the community.		
		Indigenous cultural training required for		
		workers.Liaison or FN employees.		
		Meet a % of FN employees. Ensure our		
		people get hired first.		

		Who is going to benefit from this mine		
		reopen? Company, Res, Katlodeche,		
		MetisOnly 1-2% of FN were working at		
		the old mine.		
		Need to get First Nation into more admin		
		positions		
		F		
		First time with a road into Fort		
		Resolution.		
		Impacts of the community started with		
		addiction during this time.		
		Bootlegging started to become an issue		
		within the communities.		
		Fort Resolution didn't want the mine to		
		expand any largerProtest within Res to		
		protect the traditional land		
No	Topic	L .	Reviewer Recommendation	Proponent Response
	1	al Impact Review Board - Chuck Hubert		a roponent response
1		Due dates for comments and responses	Comment due date revised to September	No response required
1			17 with responses due October 8	to response required.
No	Topic		*	Proponent Response
		Development Agency (CanNor) - Katie Ba		i roponent Response
	Editorial Section 1:			As described in the Project Description, mining is
	Introduction, p.1	mining of zinc and lead deposits over		expected to occur over 10 to 15 years.
		five years' and '10-15 years of mine		
		operations'	Introduction.	
		Cantina 1. Internal antique of 1		
	E 1'4' - 1 C4' 0 1	Section 1: Introduction, p.1	Daties and a second and in the second	NT
	Editorial Section 2.1:		Duplicated sentences in this section should be removed.	No response required
	Scope of Development,		snouia be removea.	
	p.4	components', 'The information will be		
		used in this EA' and 'The onus is on		
		the developer' are duplicated in this		
		section.		
		Section 2.1: Scope of Development, p.4		

3	Editorial Section 2.3: Geographic Scope, p.7 Section 3: Overall approach to assessing impacts, p.7 Section 4: Assessing Impacts	In the last paragraph on page 7, the DAR is mentioned; this should be the DAP or Developer's Assessment Proposal. Similarly, Section 3 and Section 4 refer to the Developer's Assessment Proposal when the Developer's Assessment Report is intended. Section 2.3: Geographic Scope, p.7 Section 3: Overall approach to assessing impacts, p.7 Section 4: Assessing Impacts	clarity.	PPML agrees with correcting the use of the Developer's Assessment Proposal (DAP) and the Developer's Assessment Report (DAR). The DAP outlined proposed methods and approaches and was submitted in the Environmental Assessment (EA) Initiation Package. The DAR will be the actual EA that will be submitted in the future.
4	Air Quality Section 4.1.1: Existing environment and baseline conditions - atmospheric environment p.14 Section 4.1.1: Changes to the atmospheric environment, p.15	Health Canada (HC) notes that the Terms of Reference (ToR) does not include a suggested list of contaminants of potential concern (COPCs) that should limited to PM2. be considered. For example, HC would suggest COPCs with potential impacts to and any other to	s with potential impacts n, including but not .5, PM10, CO, ozone, Hs, VOCs, DPM, metals,	PPML agrees with this recommendation.

5	Air Quality Section 4.1.1: Existing environment and baseline conditions - atmospheric environment, p.14 Section 4.1.1: Changes to the atmospheric environment, p.15		For comparison purposes, HC recommends use of the averaging period and statistical form associated with each CAAQS numerical value. HC also suggests that any assessment against CAAQS should be based on the principles of "keeping clean areas clean" and "continuous" improvement and in the context of air zones with the Air	Any comparison made to the CAAQS would be conducted using the appropriate numeric statistical form, e.g., 3-yr average of 98th percentile. PPML notes, however, that the CAAQS were never intended to be a metric against which theoretical dispersion modelling results should be compared for compliance purposes. Rather, they are to be evaluated against community monitoring stations (NAPS) stations in areas of higher population density. Comparisons made to the CAAQS should be considered as informational in nature, not as a compliance indicator.
		Section 4.1.1: Existing environment and baseline conditions - atmospheric environment, p.14 Section 4.1.1: Changes to the atmospheric environment, p.15		
6	Acoustics Section 4.1.2: Existing environment and baseline conditions - acoustic environment, p.16	specifying the types of key receptor points that should be considered in the	recommends that the ToR require an assessment of current ambient noise levels at all key receptor points (including nearby communities, seasonal	Noise data from previous baseline surveys in the area are available and could be used to establish / characterize current ambient noise levels. The proponent should be allowed to make a case for why existing baseline data are still valid / representative, rather than being automatically required to collect new baseline noise data.

	does not require a discussion of sources of uncertainty in the noise assessment. Section 4.1.2: Existing environment and baseline conditions - acoustic environment, p.16	survey and permissible noise levels for each receptor. HC also recommends that the ToR require a discussion of sources of uncertainty which should be identified and quantified.	In accordance with Health Canada guidance (2017), noise exposure at "workers' living quarters" should be considered an occupational health & safety issue and should not be modelled or assessed for the DAR.
Acoustics Section 4.1.2 Changes to the acoustic environment, p.16	The ToR does not require a determination of expected increase in high annoyance and sleep disturbance. These are important indicators for determining potential health impacts of the project. Section 4.1.2: Changes to the acoustic environment, p.16	HC suggests that the ToR require a calculation of the baseline percent highly annoyed (%HA) and percent highly sleep disturbed (%HSD), and then determine the expected increase in high annoyance and sleep disturbance (using the equations presented in Health Canada (2017) Appendix F) and ISO/TS 15666:200313 (2013)). Health Canada. 2017. Guidance for	discussing uncertainty in the DAR. No concern about evaluating potential for high annoyance (%HA) using equations and thresholds provided in Health

8	Changes to the acoustic environment, p.16	The ToR requires that the proponent identify and justify the approach to characterize the effects of sound resulting from the project that may be adverse. For clarity, HC suggests additional details with respect to these requirements. Section 4.1.2: Changes to the acoustic environment, p.16	account the (1) distribution of the reference night-time sound events relative to the individual sound events expected at night at the location of each receptor and (2) expectations of peace and quiet for receptors (e.g. in a quiet rural area or during land use by indigenous peoples) and noise policies (e.g. processes for resolving and dealing with public complaints).	No concern about using Health Canada guidance (2017) to assess nighttime noise effects. No concern about using Health Canada guidance (2017) to account for expectations of peace and quiet at specific receptors.
9	Changes to the acoustic environment, p.16	The noise and vibration requirements do not consider the use of contour maps which would be beneficial to understanding where elevated noise levels may occur as a result of project-related activities. Contour maps should be of sufficient scale to capture any locations where elevated (i.e. above background) noise levels may occur as a result of project-related activities. All assumptions used in modelling noise, including a description of any noise related adjustments, should be presented in order to enable an evaluation of the applicability/appropriateness of those assumptions and the subsequent modelling results (see Health Canada, 2017 for details). Health Canada. 2017. Guidance for Evaluating Human Health Impacts in Environmental Assessment: Noise. Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario. Section 4.1.2: Changes to the acoustic environment, p.16	appropriately scaled noise contour maps to identify noise levels at receptor locations.	No concern about providing noise contour maps in the DAR.

10	Changes to the acoustic environment, p.16	of proposed noise mitigation measures, including potential complaint-response protocols or how communities will be engaged with respect to anticipated changes in noise levels. Section 4.1.2: Changes to the acoustic environment, p.16	(1) identification of current and proposed noise mitigation measures and their effectiveness; (2) explain how a complaint-response protocol may be	Development of procedures for documenting and addressing noise complaints should be part of the proponent's stakeholder engagement activities and should not be part of the noise section of the DAR.
11		ecological risk assessment (HHERA) in response to HC's recommendation to include a human health risk assessment (HHRA). The ToR requires that the proponent use HC guidance, consider COPCs, include a traditional food exposure pathway and consider results of effects assessment of other parts of the environment. For clarity, HC suggests additional details with respect to these requirements. Section 4.2.14: Effects to Human Health, p.54-55	HC recommends that an HHRA be conducted using best practices (see Health Canada, 2019) and includes consideration of effects of various COPCs, and all exposure pathways for COPCs to adequately characterize potential biophysical risks to human health. For every COPC or exposure route that would be excluded and/or eliminated from the assessment of human health, there should be adequate scientific rationale provided. HC also recommends that a multimedia HHRA	PPML agrees with the reviewer's comment.

			Environmental Assessments: Human	
			Health Risk Assessment.	
12	Drinking and	The ToR requires that there be a		No concern about providing the requested drinking water
12	Recreational Water	quantitative description of the range of		information in the DAR.
	Quality Section 4.1.5:	potential impacts to drinking water	private wells that serve as drinking water	information in the DAK.
	Surface and	sources from the Project because of the		No concern about describing potential effects to drinking
	Groundwater Quality	changes described in section 4.1.5.		and recreational water sources from the Project in the
	and Quantity, p. 19-25	However, there is no requirement to		DAR.
	and Quantity, p. 19-23		drinking water treatment facilities,	DAK.
		sources, including individual private		
			including their distance from project activities and capacity to remove	
		to identify drinking water treatment	potential COPCs resulting from project	
		facilities locations. Additionally, the	activities.	
			activities.	
		ToR does not require consideration of	HC also recommends that the	
		potential recreational water quality		
			Developers Assessment Report	
		support an assessment of potential	quantitatively describe the range of	
		impacts to human health due to drinking		
		and recreational water quality.	recreational water sources from the	
		Santian 4.1.5. Sanfara and Grand-satur	Project because of changes described in section 4.1.5.	
			section 4.1.5.	
13	Guidance Documents	Quality and Quantity, p. 19-25 The current reference, "Guidelines for	IIC	DDMI with the managed above to the mefanance
13		Environmental Assessments on Human	HC suggests changing the following guidance document reference	PPML agrees with the proposed change to the reference.
	Appendix A: Guidance			
	documents	Health" in Appendix A does not link to a		
		specific document and should be	Assessments on Human Health) in	
			Appendix A. The reference in Appendix	
		EAs with an updated link.	A of the ToR should read, "Health	
			Canada's Participation in Environmental	
		Appendix A: Guidance documents	Assessment under CEAA 2012" and link	
			to the reference in Annex A of the the	
1.4	XXV1 . ' XV. ' 11	The Decile was Access to Decile	Government of Canada's Cover Letter.	L. d., DAD DDML 111.1 a./C D 1 a 4 a 111.1
14	Works in Navigable	The Developers Assessment Proposal		In the DAR, PPML will identify Project works that will be
	Waters Table 1: Scope	(DAP) provided few details about	be amended to add a new bullet to:	located in or around navigable waters. PPML will leave it
	of Development, p.4-5	existing and new works (project		with MVEIRB on whether this bullet gets added to this
	Project Component -		L I	table.
	Water and water	will occur in, on, across, through, and	Table 1. Scope of Development	
	management	under navigable waterways. Without this		
		information, it will be challenging for	management	

		impacts of these works on navigable waters and their uses. For example, details such as the location, size, and purpose of the water intake in Great Slave Lake are needed to give context to the DAP's assessment of the water intake's impacts on navigability in Great Slave Lake. Table 1: Scope of Development, p.4-5 Project Component - Water and water management	Subjects to consider • Existing or new works needed for the Project that will be located in or around navigable waters, such as water intakes, bridges and barge landings.	
15	Canadian Navigable Waters Act Section 4.2.1: Impacts from the Project on the use of water by people, p.28	will occur in, on, across, through, and under navigable waterways. Under the Canadian Navigable Waters Act (CNWA), different categories of works, e.g., major vs. minor, are subject to different approval requirements. Having the proponent identify which works fall into which category will 1) assist the proponent in understanding its responsibilities under the CNWA, and 2) focus the assessment on the works that may have significant impacts on navigation.	be amended to read: p. 28 Impacts from the Project on the use of water by people The Developer's Assessment Report will: list all applicable water resource permits, licences, and authorizations that will be required from regulatory authorities. With respect to the listing of authorizations from the Canadian	PPML suggests that this wording does not need to be added specifically to the TOR, as it is covered off by the last row in Table 1. In the DAR, PPML will outline all licences, permits, and authorizations needed for the Project.
16	for Recreation Section	As the TOR are written, the focus of this DAR requirement appears to be terrestrial recreation. However,	Transport Canada recommends the TOR be amended to read:	PPML agrees with this recommendation.

	and Baseline Conditions, p.44	routes for a number of recreational activities. Given the importance of navigable waters to outdoor recreation, and to allow Transport Canada and other participants to fully understand the project's impacts on navigable waters used for recreation, the TOR should make it clear to the proponent that the DAR is also to provide information about recreational navigation routes. Section 4.2.9: Other Land Uses, Existing Environment and Baseline Conditions, p.44	following: o important land and water recreational routes or trails	
17	Canada	A direct link would make it simpler for the proponent and other participants to find information on Transport Canada's Navigation Protection Program. Appendix A: Guidance Documents	Transport Canada recommends that a new weblink be added to the list of guidance documents: Appendix A: Guidance Documents Transport Canada Transport Canada Navigation Protection Program information and documents Please see Annex A in the the Government of Canada's Cover Letter for the reference.	No response required.
18	List of Abbreviations, p.iv	GHG - Green House should be one word (Greenhouse) List of Abbreviations, p.iv	ECCC recommends providing correction for clarity.	No response required.
19	Scope of Development, Table 1. Scope of	The second paragraph of Section 2.1 states that Table 1 outlines components by phase for the scope of development. This is not reflected in Table 1, which lists various components but does not specify that the assessment is to span the relevant phases of project development.	components are to be described for all phases of project development.	PPML will describe the Project as per the Project phases (i.e., construction, operations, and closure). PPML is amenable to this concept being included in Section 2.1. However, PPML disagrees that each Project component listed in Table 1 needs to be described by phase.

		Section 2.1: Scope of Development, Table 1. Scope of Development, p.4		
20	of Inquiry, p.7	The first bullet of section 2.2.2 describes the management of water so that it remains clean in the future. How will "clean" be defined? The second point is missing its bullet. Section 2.2.2: Key Lines of Inquiry, p.7	objective for water protection and adding a bullet to "lasting well-being".	PPML believes that "clean" is a subjective statement and difficult to define in a way that would be the same for all groups. PPML suggests that the wording be "managing water so that it remains safe and available for use in the future". Please also see the recommendation and response to CanNor-23.
21	existing environment, p.8	Section 3.1 provides a qualitative descriptor of the requirements as being "appropriate and necessary to understand the state of the existing	baseline biophysical data to characterize natural variability and provide sufficient basis to detect change in future monitoring.	PPML disagrees that this needs to be added to the TOR. Baseline data requirements for the DAR are to support the assessment of effects. There are subsequent opportunities to collect additional data if required to support future monitoring programs. If the Project is approved, the baseline data adequacy to support monitoring programs can be accomplished through the water licence and land use permitting process with the MVLWB.
22	Aquatic Baseline Data Section 4.1.5: Surface and groundwater quality and quantity, p.20-24	Detailed minimum requirements are set out for water quantity (including descriptors and characterization of flow variability) but water quality requirements are outlined on a broad scale only (pdf page 25). Water quality information should similarly be fully characterized for limnology, chemistry, and biota. This is touched on briefly on	more detailed requirements for baseline data for the aquatic ecosystem (e.g. limnology, chemistry, biota), including the rationale for how the baseline dataset will support the detection of changes to surface and groundwater quality during project activities. This may be cross-referenced to section 5.8 Monitoring, evaluation and follow-up.	PPML notes that the following bullets are included in Section 4.1. with respect to water quality and limnology: • a description of existing quality of waterbodies and watercourses in the project area, including analysis of trends for waterbodies in the project area previously affected by mining • description of stratification within flooded open pits in the project area It is our understanding that water quality data would be collected and compiled for waterbodies and watercourses within the LSA to support the DAR. In situ physicochemical water quality information (i.e., temperature, dissolved oxygen, pH, and conductivity) would also be compiled, with profiles for waterbodies where available.

		A detailed bullet should be included to describe linkages between the predevelopment baseline data collected and the design of a monitoring study that will detect impacts/change. The Developer should demonstrate that baseline data collection has fully characterized natural variability for all the aquatic components.		In terms of aquatic biota, the following bullet is in Section 4.2.2: describe the lower trophic communities in the project area and their importance as a source of food for fish PPML will compile and present relevant information for waterbodies/watercourses within the LSA with the potential to be affected by the Project.
		Some of this information is outlined in Section 4.2.1 Use of water by people, but this section does not touch on environmental change. Section 4.2.2 Fish and aquatic life does not include water quality.		
		Including detailed direction on baseline data requirements is consistent with Appendix B: Assessment Methodology item 2, which states: "identify the natural range of the cumulative baseline conditions (where historic information is available), and the Project-specific baseline of current conditionsin light of the natural or existing variability for each".		
		Section 4.1.5: Surface and groundwater quality and quantity, p.20-24		
23	Section 4.3.1: Managing water so that it remains clean for the future, p.56	intent of this section of the ToR is "to	"safe" rather than "clean" to describe water protection goals.	PPML agrees with ECCC.

	Atmospheric Environment Section 4.1.1: Atmospheric environment, "Existing environment and baseline conditions — meteorological environment", p.8	potential for extreme weather events including precipitation, wind, and temperature". However, high concentrations of air contaminants are most likely to occur during stagnant conditions with strong surface-based temperature inversions. Section 4.1.1: Atmospheric environment, "Existing environment and baseline conditions – meteorological environment", p.8	ECCC recommends that the ToR also require identification of potential stagnation episodes with strong surface-based temperature inversions (duration, frequency of occurrence) in the DAR.	The meteorological data-set used to drive the dispersion modelling will be of sufficient duration to incorporate periods of stable atmospheric conditions. PPML agrees that stable conditions including strong temperature inversions/stagnation should be included in the TOR. Using a broad range of meteorological conditions to assess air quality is common practice.
25	Environment Section 4.1.1: Atmospheric	Assessment Report will:provide dispersion modelling to establish a		No concerns; CALPUFF based modelling is the anticipated approach to the air quality assessment.

	baseline conditions – atmospheric environment", p.14	sources and odorous compounds in local and regional study areas". The complexity of dispersion modelling should be more precisely specified, as a screening level model will not be adequate to incorporate effects of the Great Slave Lake shoreline and land terrain on the near surface wind field.		
		Section 4.1.1: Atmospheric environment, "Existing environment and baseline conditions – atmospheric environment", p.14		
26	Modeling Section 3.1: Describe baseline conditions and the existing environment, p.9	need to use predicted future environmental conditions that account for a range of climate change scenarios, to reflect uncertainties." Best practice for considering uncertainty in future climate projections is to consider an ensemble of projections from a range of scenarios (low to high forcing)	identified, ECCC recommends that text requesting use of a range of climate change models also be added. This could be added to pdf page 14 "This may require the need to use predicted future environmental conditions that account for a range of climate change scenarios and models, to reflect uncertainties."	No concerns.
27	Reference	change predictions" is used- this should be climate change projections if referring to output from climate models (i.e. they are projections of future change not predictions).	change "predictions" to "projections" where appropriate.	No concerns.
28	5.7: Effects of the		ECCC recommends providing corrections for clarity and indicating	No concerns.

	Project, "Climate change", p.66	International Panel on Climate Change best climate predictions" This should be "Intergovernmental" Panel on Climate Change. It is also not readily clear to ECCC what is meant by IPCC "best climate predictions". Section 5.7: Effects of the Environment	explicitly what is meant by IPCC best climate predictions.	
29	Climate Change Section 5.8: Monitoring, evaluation, and follow- up, "Accounting for climate change in monitoring and follow- up", p.67	on the Project, "Climate change", p.66 The ToR states "The NWT is already experiencing changes in average temperature, shifts in the seasons and an increasing frequency of extreme weather events, fires, and other climate change impacts and slow low onset events" It is not clear what "slow low onset events" means. Section 5.8: Monitoring, evaluation, and follow-up, "Accounting for climate change in monitoring and follow-up", p.67		No concerns.
30	Migratory Birds Section 4.2.4: Wildlife Management and Monitoring Plan, p.35	Section 4.2.4 requires that a draft wildlife management and monitoring plan (WMMP), including considerations for migratory birds and waterfowl, be included in the Developers Assessment Report (DAR). The Department of Environment and Natural Resources (GNWT-ENR) is responsible for the implementation and enforcement of the Wildlife Act, which includes provisions for the requirement of a WMMP under section 95. GNWT-ENR guidance on process and content	that migratory birds, including species at risk, be addressed in a separate management and monitoring plan in the	PPML recommends that a single Wildlife Mitigation and Monitoring Plan (WMMP) be developed, which includes migratory birds, so that all information pertaining to wildlife are presented in one place. This will make accessing this information easier than if information is presented in multiple documents. Dividing migratory birds and non-migratory birds into separate plans to follow the legislation will cause unnecessary duplication. It is common for management plans to respond to both federal and territorial legislation (such as a Mine Water Management Plan, or an Aquatic Effects Monitoring Plan). ECCC will have the opportunity to review and comment on the WMMP. The WMMP will require that ECCC is copied all submitted reports in addition to

		for a WMMP, included in Appendix A		required regulatory reporting triggers in the legislation. It
		of the draft Terms of Reference, defines		should also be noted that the WMMP that will be
		the scope of application and authority to		submitted to support the DAR will be conceptual in
		territorially managed wildlife species.		nature, and this plan will be updated as necessary for
		The WMMP guidance further states that		permitting.
		"territorially managed wildlife species		F8.
		do not include fish, marine mammals or		
		bird species covered under the Migratory		
		Birds Convention Act."		
		Birds Convention 11ct.		
		As legislative authority for migratory		
		birds lies with ECCC, and the technical		
		expertise lies outside GNWT-ENR (i.e.		
		with ECCC, PCA and Indigenous		
		organizations), migratory birds,		
		including species at risk, should be		
		addressed in a separate management and		
		monitoring plan in the DAR. This plan		
		can then also be carried forward into the		
		regulatory phase.		
		regulatory phase.		
		Given the concerns raised during scoping		
		by parties for migratory birds, including		
		species at risk (e.g. whooping crane),		
		highlighted in sections 4.2.3 and 4.2.6 of		
		the draft ToR, ECCC is of the opinion		
		this will ensure that impacts of the		
		project will be mitigated. In addition,		
		this approach will aid the Board in		
		ensuring their legal requirements under		
		s.79 of the Species at Risk Act are met.		
		5.77 of the Species at Kisk Act are flet.		
		Section 4.2.4: Wildlife Management and		
		Monitoring Plan, p.35		
		wiomoring rian, p.33		
31	Project Boundaries	Due to the presence of hazardous	FCCC recommends that the ToR require	PPML disagrees that set spatial and temporal boundaries
	Section 5.6: Potential	materials or compressed gas on site, an		need to be defined for the accidents and malfunctions
	Accidents and	accidental release can cause a toxic		section, as the spatial extent of potential effects will differ
	Malfunction, p.65-66	plume to travel long distances and	be impacted by accidents and	section, as the spatial extent of potential effects will differ
	priamunicuon, p.05-00	prume to traver long distances and	be impacted by accidents and	

		impact valued components that are beyond the projects' spatial and temporal boundaries. The proponent is therefore encouraged to identify the spatial and temporal boundaries associated with accidents and malfunctions. Section 5.6: Potential Accidents and	1	between the different accident and malfunction scenarios considered.
		Malfunction, p.65-66		
32	Mitigation Measures Section 5.6: Potential Accidents and Malfunction, p.65-66	The proponent is encouraged to include mitigation measures for each accident and malfunction scenario identified to ensure that the risk has been avoided, reduced and/or eliminated. Section 5.6: Potential Accidents and Malfunction, p.65-66	a description of any mitigation measures	PPML is amenable to the inclusion of a discussion of relevant mitigation and/or design features in the accident and malfunction scenarios.
33	Spill Contingency EA Initiation Package Volume 2. Spill Contingency Plan Framework. 3.3 Assess Hazard Draft Terms of Reference. Section 5.6: Potential Accidents and Malfunction, p.65-66	As described in section 3.3 of the spill contingency plan framework, outside emergency resources will be contacted if the spill cannot be handled by on-site personnel. It is therefore important that the proponent establishes a mutual aid agreement with response organizations and include them in the response planning efforts. - EA Initiation Package Volume 2. Spill Contingency Plan Framework. 3.3 Assess Hazard - Draft Terms of Reference. Section 5.6: Potential Accidents and Malfunction, p.65-66	a description of mutual aid agreements in place in the event that a spill incident exceeds company resources and how	Mutual aid agreements will be established for Spill Response and for other accident and malfunction response plans during the regulatory process. It is premature to discuss this requirement during environmental assessment, and this should not be a requirement of the Terms of Reference.
34	Power Demand by Activity Section 4.1.1: Atmospheric Environment, p.13-15	II.	the proponent to include in the DAR an	No concerns; details around this inventory are routinely required to evaluate emissions (air/noise) appropriately and are produced in the course of an environmental assessment

		ECCC needs the information for an independent assessment of the project electricity demand. Section 4.1.1: Atmospheric Environment, p.13-15		
35	Power Section 4.1.1: Atmospheric Environment, p.13-15	 An up-to-date listing of stationary, mobile and back-up generators to be deployed on site by the proponent; Estimated annual volume of natural gas and diesel consumption for power generation during the construction, operation and decommissioning phases; and Sulfur content in diesel fuel to be used for power generation. ECCC needs the information for an 	the proponent to include the following information in the DAR: • Power rating, make and models of stationary, mobile and back-up generators to be deployed on site; • Estimated annual volume of natural gas	No concerns; details around this inventory are routinely required to evaluate emissions (air/noise) appropriately and are produced in the course of an environmental assessment. PPML notes that exact makes and models are typically not available at time of initiating the EA, but reasonable assumptions will be made as per best practices.
		Section 4.1.1: Atmospheric Environment, p.13-15		
36	ECCC Regulations Section 4.1: Predicted changes to the Environment, p.13	beyond December 2021, it is imperative that the project proponent commits to comply with the applicable provisions under ECCC's Off-Road Compression-Ignition (Mobile and Stationary) and Large Spark Ignition Engine Emission	ECCC recommends that the ToR require the proponent to incorporate into the DAR text indicating their commitment to comply with the relevant provisions under ECCC's Off-Road Compression-Ignition (Mobile and Stationary) and Large Spark Ignition Engine Emission Regulations.	
		Section 4.1: Predicted changes to the Environment, p.13		

	4.1.1: Atmospheric Environment, "Greenhouse Gas Emissions", p.13	Assessment Report will:provide a description of each of the Project's main sources of greenhouse gas emissions by type; provide the estimated annual greenhouse gas emissions from each source; provide an estimate of yearly net greenhouse gas emissions, including an uncertainty assessment" Although the Strategic Assessment of Climate Change (SACC) does not specifically apply under the Mackenzie Valley Resource Management Act, the SACC and the Draft Technical Guidance published by ECCC to support the SACC are a useful references. ECCC is therefore recommending the inclusion of additional emission estimate	the following information to be included in the DAR: • a description of each of the project's main sources of GHG emissions and their estimated annual GHG emissions over the lifetime of the project; • net GHG emissions by year for each phase of the project based on the project's maximum throughput or capacity; • direct GHG emissions, acquired energy GHG emissions, CO2 captured and stored, avoided domestic GHG emissions and offset credits, if applicable, per year	Stating the annual emissions over the life of the project in their various forms as recommended by ECCC (e.g., gross, net, etc.) is not a matter of concern; however, the need to align with the draft SACC technical guidance document introduces uncertainty and considerable additional effort. The draft technical guidance has not been approved for use to date and remains under review and is subject to change. PPML's recommendation is to complete the GHG assessment using internationally accepted practices for the mining sector.
38	Carbon Sinks Section	Section 4.1.1: Atmospheric Environment, "Greenhouse Gas Emissions", p.13 The draft ToR states that "the developer's	or other as appropriate) for each year of the operation phase of the project; • a discussion on the development of emissions estimates and uncertainty assessment; and • a description of large sources of GHG emissions that may be the consequence of accidents or malfunctions. ECCC recommends that the ToR require the proponent to include a qualitative	PPML disagrees that adherence to the draft technical guidance document referenced by ECCC should be
	Environment: "Greenhouse Gas	qualitative description of the Project's	and quantitative description of the	include in the TOR. The draft technical guidance has not been approved for use to date and remains under review adn subject to change. PPML suggests that using it at this stage is premature. PPML proposes to quantify carbon

		T		
		Although the Strategic Assessment of	• a description of project activities in	sinks and sources explicitly using the methodology
		Climate Change (SACC) does not	relation to significant landscape features	provided by the IPCC. The IPCC methods are appropriate
		specifically apply under the Mackenzie	such as topography, hydrology and	for a project of this nature and offer a more practical
		Valley Resource Management Act, the	regionally dominant ecosystems;	approach to GHG evaluation than the current, draft
		SACC and the Draft Technical Guidance		technical guidance presented in the SACC.
		published by ECCC to support the	project, by ecosystem type (forests,	
		SACC are a useful references. ECCC is	cropland, grassland, wetlands, built-up	
		therefore recommending the inclusion of		
		a quantitative description of the project's		
		positive or negative impacts on carbon	restored or reclaimed ecosystem(s);	
		sinks in the ToR that will aid in the	• initial carbon stocks in living biomass,	
		assessment of the project's impact on	dead biomass and soils (by ecosystem	
		carbon sinks.	type) on land directly impacted by the	
			project over the course of the project	
		The SACC and Draft Technical guidance		
		links can be found in Annex A of the	• fate of carbon stocks on directly	
		Government of Canada's Cover Letter.	impacted land, by ecosystem type:	
			immediate emissions, delayed emissions	
		Section 4.1.1: Atmospheric	(timeframe), and storage (e.g. in wood	
		Environment: "Greenhouse Gas	products); and	
		Emissions", p.13	• anticipated land cover on the impacted	
			land areas after the project is in place.	
39	Greenhouse Gas	The draft ToR states that "the developer"	SECCC recommends that the ToR require	This is not a significant concern as this type of effort is
	Emissions Section	Assessment Report will:describe how		ordinarily undertaken in projects where GHG evaluation is
	4.1.1: Atmospheric	the Project may contribute to Canada's	in the DAR:	required.
	Environment,	efforts to reduce greenhouse gas	• an explanation of how the project may	required.
	"Greenhouse Gas	emissions, if applicable".	impact Canada's efforts to reduce GHG	
	Emissions",p.15	Although the Strategic Assessment of	emissions, if applicable, including how	
	Emissions ,p.15	Climate Change (SACC) does not	the project could result in GHG emission	
		specifically apply under the Mackenzie	reductions in Canada (e.g. by replacing	
		Valley Resource Management Act, the	higher emitting activities); and	
		SACC and the Draft Technical Guidance		
		published by ECCC to support the	impact global GHG emissions, if	
		SACC are a useful references. ECCC is	applicable. This could include, for	
		therefore recommending the inclusion of		
		additional requirements in the ToR that	o if there is a risk of carbon	
		will aid in the assessment of the project's		
		will all in the assessment of the projects	Canada, the Developer's Assessment	
			Canada, die Developer's Assessment	

	impact on Canadian and global	Report could include an explanation of	
	emissions in this subsection.	the likelihood and possible magnitude of	
		carbon leakage if the project is not	
	Furthermore, based on past project	approved; and	
	reviews, ECCC is of the opinion that	o if the project may displace	
	comparison of a project's emissions to	emissions internationally, the	
	those of an entire province/territory and	Developer's Assessment Report could	
	those of Canada is not beneficial.	describe how the project is likely to	
		result in global emission reductions. For	
	The SACC and Draft Technical guidance	example, a project that enables the	
	links can be found in Annex A of the	displacement of high-emitting energy	
	Government of Canada's Cover Letter.	abroad with lower emitting energy	
		produced in Canada could be considered	
	Section 4.1.1: Atmospheric	as having a positive impact.	
	Environment, "Greenhouse Gas		
	Emissions",p.15	ECCC recommends removal of the	
		following requirement: "compare the	
		Project's emissions to that of the NWT	
		and Canada".	
Greenhouse Gas			PPML disagrees that adherence to the draft technical
Emissions Section	Assessment Report will:describe how		guidance document referenced by ECCC should be
4.1.1: Atmospheric	greenhouse gas emissions were		included in the TOR. The draft technical guidance has not
Environment,	considered when determining energy		been approved for use to date and remains under review
"Greenhouse Gas	sources for project components and		and is subject to change. PPML suggests that using it at
Emissions", p.15			this stage is premature. This represents a considerable
	reduce, mitigate, or offset greenhouse		amount of additional effort, not yet having been required
	gas emissions; identify alternative		for a project of this scope and complexity. PPML proposes
	project design elements that would		to complete a qualitative BAT/BEP assessment. This
			would be supplemented with a credible net-zero plan that
	indicates the project's closure and	lifetime of the project. Emphasis should	references the qualitative BAT/BEP assessment.
	reclamation is anticipated to end in 2052,		
	goes beyond 2050, when Canada aims to		
	achieve net-zero emissions. As such,	throughout the project lifetime.	
	ECCC recommends that the proponent	Additional guidance can also be found in	
	develop a plan to reach net zero	the Draft Technical Guidance.	
	emissions. Although the Strategic		
	Assessment of Climate Change (SACC)	The credible plan should include at a	
	does not specifically apply under the	minimum the following information:	

Mackenzie Valley Resource the conclusions of the Best Available Management Act, the SACC and the Technologies and Best Environmental Draft Technical Guidance published by Practices (BAT/BEP) Determination ECCC to support the SACC are a useful process to identify and select the technically and economically feasible references. ECCC is therefore recommending the inclusion of technologies, techniques, or practices, additional requirements in the ToR that including emerging technologies, to will aid in the assessment of the project's minimize GHG emissions throughout all GHG effects and mitigation measures. phases of the project with a net-zero emission perspective. This should The SACC and Draft Technical guidance include at a minimum: links can be found in Annex A of the o the list of all potential GHG Government of Canada's Cover Letter. mitigation measures that were considered in the BAT/BEP Section 4.1.1: Atmospheric Determination process; Environment, "Greenhouse Gas o the list of potential GHG Emissions", p.15 mitigation measures selected at the end of the process that are considered for implementation in all phases of the project (BAT/BEP and emerging technologies), including the following information: ☐ the potential percentage reduction in GHG emissions associated with each measure: ☐ the level of technology maturity (when the technology could be implemented); and ☐ the barriers to implementing the selected mitigation measures. o a rationale for eliminating each technology or practice that has not been selected for implementation; o subject to the public availability of information, a comparison of the project's projected GHG emission intensity to similar high-performing, energy-efficient projects in Canada and

internationally. If applicable, the comparison should explain why the emission intensity of the project is different. • a description of any additional mitigation measures considered for the project to achieve net-zero by 2050, if applicable. This can include: o implementation of CO¬2 capture and storage technologies; o if any, a description of the proponent's corporate-level GHG commitments and/or net-zero plan and an explanation on how it aligns with the project's net-zero credible plan; and o acquisition of offset credits. • the implementation schedule describing when the mitigation measures will be implemented, considering equipment replacement. This does not need to describe every technology or practice the project will implement over time to achieve net-zero emissions. In this case, the proponent must instead describe the process they will follow in order to make the decisions and investment needed to achieve net-zero emission by 2050. The implementation schedule must include relevant data sources, assumptions, information, and a discussion on factors associated with the schedule such as schedule dependencies, constraints, and risk; • the emissions reductions at specified intervals determined by the proponent, up to 2050. Explain how net GHG emissions reductions are maximized in the earlier years of the project's lifespan.

ECCC recommends intervals to be every

			five (5) years or as appropriate for the project; • a description of measures taken to mitigate the project's impact on carbon sinks, including measures to restore disturbed carbon sinks; • any other relevant information such as supportive actions that the proponent would need in order to be able to achieve net-zero emissions; and • a list of the federal, provincial or territorial GHG legislation, policies or regulations that will apply to the project.	
	petroleum liquids	storage and loading of petroleum liquids. The objective is to reduce the risks associated with the formation of smog and air pollution in Canada as well as from emissions of carcinogenic VOCs such as benzene. The proposed regulations are planned for publication in the Canada Gazette, Part I in 2022 for a 60-day public comment period. Based on the information provided in the Project Description, it is possible that gasoline storage tanks at the proposed Pine Point Mine Project could be subject to requirements under the proposed regulations (if finalized).	review the information in the Government of Canada's discussion document, which can be found in Annex A of the Government of Canada's Cover Letter. Comments or questions regarding the proposed regulations can be directed to ECCC's Oil, Gas and Alternative Energy Division at covsecteurpetrolier-vocpetroleumsector@ec.gc.ca.	No concerns.
42		There is no information in the document regarding the assessment of karst		PPML does not agree that specific hydrostratigraphic units be included in the TOR, as the TOR requirement in
L	Harst potential	roburding the appendiment of Raibt		of meradou in the rort, as the rort requirement in

p. 23/77	potential presence. Karst may have a strong impact on groundwater flow and dewatering water management. Section 4.1.5: Karst potential - "Existing environment and baseline conditions", p. 23/77	on mine dewatering. 3. Assess the risk of deep saline water upwelling from karst formations during mining activities and describe mitigation measures for the management of this water if necessary.	Section 4.1.5 of describing the hydrostratigraphy in the LSA for existing environment and baseline conditions includes all potential geologic units and their potential influence on groundwater. As part of the baseline characterization and the surface water and groundwater environmental assessment, PPML will consider each of the listed recommendations, as necessary, for the identified hydrostratigraphic units in the LSA.
Permafrost Section 4.1.5: Permafrost - "Changes from the Project on groundwater and surface water quality and quantity", p.27/77	The presence and thawing of permafrost can have an impact on groundwater flow Failure to take this into account can lead to erroneous predictions. Section 4.1.5: Permafrost - "Changes from the Project on groundwater and surface water quality and quantity", p.27/77	should include permafrost in the conceptual and numerical hydrogeological model.	The area of the Project is in the discontinuous permafrost zone and from field work completed to date, very little permafrost has been identified. However, where applicable the PPML will include permafrost in the modelling.
Existing Open Pits Section 4.1.5: Existing open pits - "Existing environment and baseline conditions", p. 27/77	More information is needed regarding characteristics of existing flooded open pits. Existing pits may show contamination from past activities. To properly assess the cumulative effects of proposed mining activities, the existing conditions of these pits must be characterized. Section 4.1.5: Existing open pits - "Existing environment and baseline conditions", p. 27/77	NRCan suggests that, for existing flooded pit, the proponent should provide physico-chemical profile with metal(s) characterisation and compare the results with undisturbed areas.	PPML does not think this wording is required. For existing flooded pits where physico-chemical water column profile data exist, corresponding water chemistry data have been collected to allow the characterization of metals in the pit water. However, comparison of these data to "undisturbed areas" is challenging, as aside from Great Slave Lake, which is not a comparable waterbody to the flooded pits, there are limited natural waterbodies in the LSA (i.e., small lakes with similar depths to the flooded pits) to provide a meaningful comparison of water quality. Polar Lake, a small lake in the Buffalo River catchment within the LSA, may be a reasonable small lake that could be considered as an "undisturbed area". PPML will continue to collect water quality data for the existing flooded pits, particularly as part of the Confirmation and Exploration Program. These data will include physico-chemical water column profiles and water chemistry data (which will include metals data).
General Comment	It is suggested that that some additional points be added to the introduction to	NRcan's suggestions for the proponent:	PPML does not think this specific wording is required as
 Section 3: Overall	points be added to the introduction to		these concepts are covered in the TOR, but will leave it to

	impacts, p. 8	Section 3: Overall approach to assessing impacts, p. 8	sufficient to understand the nature of specific impacts and how conclusions were reached; (2) The ToR should provide a clear traceable path of information from baseline conditions through identification of potential impacts, mitigation, residual impacts and determination of significance; (3) Supporting (or supplementary) documentation should be provided (e.g., separate volumes, appendices) and referenced within the ToR text.	the Review Board to determine its inclusion. Note that the general approach for the DAR is provided in the Developer's Assessment Proposal.
46	General Comment Section 3.3: Assess impacts to valued components, p. 9	It is suggested that this paragraph also include requirement for providing description of any methods/models utilized so that it is clear to the reviewer how conclusions were reached. Section 3.3: Assess impacts to valued components, p. 9	Suggested text to add: "The methodology (including any models) utilized in the assessment should be adequately described."	PPML is amenable to this inclusion. PPML plans to describe assessment methods within the DAR.
47	Soil -" Existing environment and baseline conditions – geology", p.18 2nd bullet	Description of surficial materials/surficial geology could also be included in this section. It is mentioned	should be included in description of geology.	PPML is amenable to having the bullet point related to surficial geology under the geology subheading in Section 4.1.4 of the TOR rather than the terrain and soil subheading. From PPML's understanding, the TOR does not prescribe the Table of Contents for the DAR.
48	Section 4.1.4 Terrain, Geology and Soil - "Existing environment and baseline conditions	The thermal condition (temperature) of the ground is important when characterising permafrost conditions and		PPML does not think this wording is required in the TOR. The area of the Project is in the discontinuous permafrost zone and from field work completed to date, very little permafrost has been identified. Permafrost presence and

	– terrain and soil", p.18 4th bullet	Section 4.1.4 Terrain, Geology and Soil - "Existing environment and baseline conditions – terrain and soil", p.18 4th bullet		extent will be described using available field and published data
49	Geology and Soil - p. 19 Changes to terrain and soil, 12th bullet	Site preparation and construction can result in changes to ground stability. For example surface settlement or subisdence may occur if ice-rich permafrost is present and thaws in response to disturbance. It is suggested that "ground stability" be included along with slope stability. Section 4.1.4: Terrain, Geology and Soil - p. 19 Changes to terrain and soil, 12th bullet	ground stability"	PPML agrees with this inclusion.
50	Editorial Section 4.1.5: Surface and Groundwater Quality and Quantity - Existing environment and baseline conditions. 2nd bullet, p.20 (metal leaching and/or acid- rock drainage	The bullet currently reads "metal leaching and/or acid-rock drainage (ML/ARD) from waste rock piles". Section 4.1.5: Surface and Groundwater Quality and Quantity - Existing environment and baseline conditions. 2nd bullet, p.20 (metal leaching and/or acid-rock drainage (ML/ARD) from waste rock piles)	NRCan suggests editing to read: "metal leaching and/or acid-rock drainage (ML/ARD) from waste rock piles and tailings management facilities".	PPML agrees with this inclusion.
51	Minimum requirements for groundwater characterization Section 4.1.5: Surface and Groundwater Quality and Quantity - "Existing environment and baseline conditions", p.21 1st bullet	groundwater flow as frozen ground can act as a barrier to flow. A description of permafrost distribution (if applicable) should therefore be included in the	NRCan suggests that a bullet be added to the list: "Describe permafrost distribution (if applicable) and its influence on subsurface flow pathways"	PPML will describe the permafrost distribution and how it may influence subsurface pathways were applicable. The Project is in a zone of discontinuous permafrost zone and from field work (drilling) completed to date, very little permafrost has been identified.

52	Predictions Section 4.1.5: Surface and Groundwater Quality and Quantity - Existing environment and baseline conditions, p.23		include sediment quality predictions along with water quality predictions.	PPML is amenable to including reference to sediment quality in this section of the TOR. As a component of the surface water quality assessment, PPML would qualitatively assess potential effects to sediment quality in the receiving waterbodies by the Project through quantitative water quality modelling.
53	Permafrost Section 5.7: Effects of Environment on Project, p.66 (bullets following section title)	Permafrost, where present, can present a challenge for construction and operation of project infrastructure. Permafrost thaw in response to disturbance or climate change may have implications for integrity of project components and environmental effects. It is suggested that the effect of permafrost on the project components (where applicable) be included in the list. Section 5.7: Effects of Environment on Project, p.66 (bullets following section title)	be added to the list: "impacts related to	Permafrost is limited at the site; however, PPML is amenable to this inclusion in the TOR.
54	Plans Section 5.8: Monitoring, Evaluation and Follow-up, p.67	monitoring and adaptive management plans there is not requirement for the Developer to identify thresholds or criteria that will be used to determine when action is required. Although there	requirement for monitoring and adaptive management plans be added into the ToR to include a description of thresholds or criteria that will be used to determine when action is required in the DAR.	PPML disagrees that the TOR should list the specific monitoring and management plans that will support the DAR. The need for specific plans will depend in part on the predicted effects of the Project. As per Table 5.1 of the DAP, the following conceptual plans are likely to be included with the DAR: Conceptual Spill Contingency Plan Conceptual Waste Management Plan Conceptual Erosion and Sediment Control Plan Conceptual Tailings and Waste Rock Management Plan Conceptual Water Management Plan Conceptual Closure and Reclamation Plan Conceptual Air Quality Mitigation and Monitoring Plan (if required)

		Section 5.8: Monitoring, Evaluation and		
				Conceptual Aquatic Effects Monitoring Program
		Follow-up, p.67		 Conceptual Wildlife Monitoring and
				Management Plan
				Conceptual Socio-economic Management Plan
				Conceptual Engagement and Collaboration Plan
				Note that these will be conceptual plans where additional
				details will be developed and added following approval
				for the Project and as part of the permitting process.
				Although the plans are expected to include an adaptive
				management framework, where appropriate, triggers and
				thresholds will not be developed during the DAR or DAR
				review process, but will be developed for permitting.
55	Appendix B: p. IV, pt 8	It is important that reviewers understand		PPML disagrees that this point related to listing model
		all assumptions made in the models		assumptions belongs here in the overall assessment
		utilized by the Developer to measure		methods. PPML will provide model assumptions in
		impacts. This is critical to evaluate the		modelling reports, which will be provided in appendices
		validity of the analysis.		or annexes to the main document. However, how overall
				model assumptions affect uncertainty will be described in
		Appendix B: p. IV, pt 8		the relevant Prediction Confidence and Uncertainty
		Tr · · · · · · · · · · · · · · · · · · ·		sections (see Section 4.1.1 of the DAP).
56	Geotechnical Stability	Site preparation and construction can	NRCan suggests that the bullet should be	,
		result in changes to ground stability,	revised to: "how the geotechnical	5
		F '		
		<u> </u>		
1				
	1	L		
		Section 4.1.4: Terrain, Geology and Soil		
		Section 4.1.4: Terrain, Geology and Soil - Changes to terrain and soil, p.19 bullet		
	Changes to terrain and soil, p.19 bullet 13	paleokarst terrain, which if reactivated due to construction activities can be prone to ground surface subsidence. It is suggested that the influence of terrain hazards on the stability of engineered structures be considered in addition to climate, seismic, and precipitation scenarios.	including site access roads, will be ensured against: (1) a range of climate, seismic, and precipitation scenarios; and	

57	Section 5.6: Potential Accidents and Malfunctions, p.65-66	In the requirements for summarizing potential accidents and malfunctions, there is currently no requirement for the Proponent to describe potential risk control measures for accidents/malfunctions, as well as to demonstrate that those measures can reduce risk below the risk acceptability criteria. Section 5.6: Potential Accidents and Malfunctions, p.65-66	be added to the list: "describe risk	As per the response to CanNor-32, PPML is amenable to the inclusion of a discussion of relevant mitigations and/or design features in the accident and malfunction scenarios.
58	Earthquake Hazards Section 4.1.4. Terrain, geology, and soil, p.17- 19 Section 5.7. Effects of the Environment on	Evaluation of Earthquake hazards Section 4.1.4: Terrain, geology, and soil, p.17- 19	NRCan suggests that the Proponent should provide an "earthquake hazard assessment" that includes a description of potential/expected ground shaking, earthquake sources, design and mitigation methods, etc. for the project.	PPML disagrees that earthquakes or seismic risk belong in Section 4.1.4 of the TOR, but, as they are an extreme event, are best addressed as indicated in Section 5.7 (Effects of the Environment on the Project). As indicated in Section 4.3.1 of the Developer's Assessment Proposal, PPML proposed to assess potential for seismic risks in this section.
No		Reviewer Comment	Reviewer Recommendation	Proponent Response
Fort R		ent (FRMG) - Katy Dimmer		
1	2.2.1 Valued	Valued components relevant to FRMG way of life and the way of life for future generations need to be included.	FRMG recommends the inclusion of culturally important species as well as cultural continuity and transmission of knowledge to the VC list.	PPML acknowledge the importance and value of these topics. Culturally important species will be included with the VCs for vegetation, wildlife, and fish. The transmission of knowledge will be included in the Culture VC. PPML suggests that, given that these important topics are considered within other linked VCs, no associated revision to the list of VCs presented in Section 2.2.1 is required
2	2.2.1 Valued	Valued components relevant to FRMG way of life and the way of life for future generations need to be included.	FRMG recommends the inclusion of culturally important species as well as cultural continuity and transmission of knowledge to the VC list.	Duplicate comment. See above response.
3	Inquiry - 2.2.2 Key lines of Inquiry	FRMG raised the need for Culture as a Key line of inquiry during both technical and community scoping sessions. Pine Point is a location of great cultural value and history for FRMG members		PPML recommends that the current KLOI "Lasting Wellbeing" be revised to provide more targeted KLOIs: 1) Impacts to Economic Conditions; 2) Impacts to Social Conditions; and 3) Impacts to Culture. In doing so, this will address the concerns raised here, highlighting the

		therefore any development in this area is likely to have a significant impact on FRMG member culture and way of life now and for future generations.		importance of culture as a key component of lasting wellbeing.
4		FRMG raised the need for Culture as a Key line of inquiry during both technical and community scoping sessions. Pine Point is a location of great cultural value and history for FRMG members therefore any development in this area is likely to have a significant impact on FRMG member culture and way of life now and for future generations.		Duplicate comment. See above response.
5	Closure - 2.4 Temporal Scope, p. 8	FRMG is concerned with the inclusion of the phrase, "all phases of the Project lifespan including construction, operation, closure and reclamation, and extends until no potentially significant adverse impacts are predicted" (p.8). A mining company that predicts no operations level "significant" effects, could rationalize that it doesn't even need to look at closure using this rationale.	FRMG recommends a revision to the wording with the removal of the term "potentially significant" and change to "measurable adverse effect are predicted".	PPML disagrees with the comment. The TOR clearly indicates that the Project phases of construction, operation, and closure and reclamation be considered. Appendix B, #4 indicates that duration be used for classifying the residual effects, which will allow for the understanding of how long effects will last and if the effect is reversible or not. PPML's approach for temporal boundaries is provided in Section 6.5.2 of the DAP. The duration of effects may extend beyond specific phases of the Project, including closure, and is dependent on the physical, biological, social, and/or cultural properties and resilience of valued components.
6	Closure - 2.4 Temporal Scope, p. 8	FRMG is concerned with the inclusion of the phrase, "all phases of the Project lifespan including construction, operation, closure and reclamation, and extends until no potentially significant adverse impacts are predicted" (p.8). A mining company that predicts no operations level "significant" effects, could rationalize that it doesn't even need to look at closure using this rationale.	FRMG recommends a revision to the wording with the removal of the term "potentially significant" and change to "measurable adverse effect are predicted".	Duplicate comment. See above response.
7	IGO Engagement 3.0 Overall approach to assessing impacts	Clear direction needs to be provided to the Proponent that first right of refusal should be given to affected indigenous	Update the TOR to direct the proponent to involve affected IGOs, where desired by IGOs, in the development of the	PPML does not recommend additional language to this effect in Section 3.0 of the TOR. PPML has prepared the EA Initiation Package to include explicit discussion of the

	groups to collaborate on all aspects of the development of the DAR. FRMG notes that the TOR does not give specific guidance to to the Proponent to work with IGOs in determining the geographic and temporal scope.	identification, baseline data collection, effects identification and characterization, development of mitigation and monitoring measures, and determination of significance.	proposed approach to temporal and spatial scope, VC identification, baseline data collection, effects identification and characterization, development of mitigation and monitoring measures, and determination of significance. The intention of the EA Initiation Package submission is to receive comments from parties, including IGOs, on these approaches, and to integrate feedback on a collaborative final approach. PPML will undertake further engagement on the DAR,
			including Indigenous Knowledge studies that will help to inform the methodological approach to the DAR.
assessing impacts	Clear direction needs to be provided to the Proponent that first right of refusal should be given to affected indigenous groups to collaborate on all aspects of the development of the DAR. FRMG notes that the TOR does not give specific guidance to to the Proponent to work with IGOs in determining the geographic and temporal scope.	Update the TOR to direct the proponent to involve affected IGOs, where desired by IGOs, in the development of the temporal and spatial scope, VC identification, baseline data collection,	Duplicate comment. See above response.
Describe baseline conditions and the existing environment, p. 8.; 3.8. Closure and Legacy Effects, p. 12.	1 1	conditions' be used here, and that the TOR require the proponent to develop an appopriate backcast for VCs that shows how they have changed over time to date. FRMG recommends a backcast	PPML disagrees that the TOR prescribe a backcast to premining conditions for all VCs, and that wording related to legacy effects need to be included in Section 3.1. PPML plans to qualitatively describe existing conditions related to the legacy effects of the Cominco's historical mining operations where there is relevant information available.
existing environment, p. 8.; 3.8. Closure and Legacy Effects, p. 12.	FRMG has lived and is living with the legacy effects of previous mining operations in this location. For a robust assessment baseline data collection must also seek to determine sensitivity of valued components and trends-overtime. FRMG recognizes that legacy effects are discussed in section 3.8. Clear	an appopriate backcast for VCs that shows how they have changed over time to date. FRMG recommends a backcast	Duplicate comment. See above response.

	T	1:	T	T
		direction concerning legacy effects also		
1.1	0.471 (0.36)	needs to be included in section 3.1.	DI L. I. TOD.	
11	3.4 Identify Mitigation	FRMG is suportive of mitigation that is Specific, Measurable, Achievable, Realistic, and Timely. Language througout the TOR allows for the Proponent to describe what "might" be done, FRMg needs to know what will be done if a fullsome assessment is to be conducted. FRMG also notes that while avoidance and minimization is discussed in 3.4 and elsewhere offsetting and compensation is not. In the experience of FRMG avoidance and minimization is not always achievable. While FRMG would like to prioritixe avoidance of effects for the Project, all proposed means of mitigation need to be evaluated as part of the assessment and this may include compensation and offsetting measures.		PPML is amenable to the inclusion of offsetting in Section 3.4, following the mitigation hierarchy of avoid, minimize, reclaim, offset. Note, however, that the need for offsetting, may be determined through the residual effects analysis, classification, and determination of significance. PPML, however, does not agree that specific details regarding timelines and methods for implementation can be provided in the DAR as the approach for offsetting, if required, will involve regulatory and community engagement and will be part of the permitting phase of the Project.
12	3.4 Identify Mitigation			Duplicate comment. See above response.

	include compensation and offsetting		
	measures.		
3.5. Assess impacts holistically and systemically	FRMG supports the direction to assess impacts holistically and systemically,	to assess impacts to each IGO separately, in particular a Pan-Indigenous approach should not be applied to the assessment of impacts to well-being, culture, socioeconomic, and Indigenous land use nor should it be accepted by the board.	PPML agrees, and recognizes that each Indigenous group is different, and will undertake group-specific Indigenous Knowledge and Land Use studies with each, with an intent to characterize existing conditions and potential impacts to each separate group. PPML will also undertake socio-economic engagement with potentially impacted communities separately to identify unique socio-economic conditions and potential impacts. A single socio-economic assessment will be prepared for the Project, with community-specific considerations highlighted as appropriate and identified in collaboration with the community.
	assessment is conducted according to best practice.		
3.5. Assess impacts holistically and systemically	FRMG supports the direction to assess impacts holistically and systemically,	Please include direction to the Proponent to assess impacts to each IGO separately, in particular a Pan-Indigenous approach should not be applied to the assessment of impacts to well-being, culture, socio-economic, and Indigenous land use nor should it be accepted by the board.	Duplicate comment. See above response.
	sources if they provide a rationale. Traditional knowledge is not static, changes over time and is context	described in the 4th bullet of section 3.6 require reporting on how secondary	PPML agrees, and will support Indigenous Knowledge studies for those Indigenous groups prioritized for engagement based on their proximity to the Project and propensity to experience impacts. PPML is already in discussions with communities on such studies, and will advance the discussion further once a final TOR has been prepared. Indigenous Knowledge obtained through secondary sources will be summarized, and presented to each associated Indigenous group for comment and

		111 (1 001) (1 1 1 1		C' ' ' ' 1 1 1 1 1 1 DAD 111
		will not be sufficient to inform the	1	confirmation prior to inclusion in the DAR, within an
			groups.	agreed upon window of response.
		made clear in the TOR. Further, any		
		secondary sources used must also be		
		confirmed with the knowledge holders		
		themselves before it can be deemed		
		"contextually appropriate."		
16	Primary Sources - 3.6.	FRMG is concerned that the need for	Please include instructions in the TOR	Duplicate comment. See above response.
	Use and incorporation of	primary data collection for Traditional	for the Proponent to support affected	
	Traditional Knowledge,	Knowledge has not been emphasized.	Indigenous groups in the collection and	
			analysis of Traditional Knowledge for	
	L	allow the proponent to rely on secondary		
			also recommends that the summary table	
			described in the 4th bullet of section 3.6	
			require reporting on how secondary	
			Traditional Knowledge was confirmed as	
		will not be sufficient to inform the	contextually appropriate with Indigenous	
			groups.	
		made clear in the TOR. Further, any	groups.	
		secondary sources used must also be		
		confirmed with the knowledge holders		
		themselves before it can be deemed		
	0.5.C. 1 1 F.CC	"contextually appropriate."	TD1/G	DD1 (7 1)
17	3.7 Cumulative Effects	1 -		PPML disagrees that Section 3.7 needs to be updated to
				include these concepts. Section 3.1 of the TOR indicates
		of valued components before Project		the need for describing the existing conditions – which
				aligns with the Base Case, as described in Section
		close to negligable effect could have a		4.1.3.3.1 of the Developer's Assessment Proposal, where
				it indicates that the description of the existing environment
		for a VC has already been surpassed.		represents the cumulative effects of historical and current
			the determination of significance for	environmental pressures that have influenced the observed
		closing with FRMG and other	cumulative effects. Please also include	condition and patterns of a component. As identified by
		Indigenous groups to define the	direction to incorporate environmental	FRMG, this provides the important context for
		significance of cumulative effects.		determining if a threshold is already exceeded prior to
				applying the Project, and other future developments.
		cumulative effects and will have area		PPML plans to include climate change and associated
		specific knowledge on the current state		natural factors (e.g., fire, floods, drought, insects) into the
		and trends-over-time for valued		RFD Case and so is amenable to this inclusion into
		components applicable to cumulative		Section 3.7.
		components applicable to cumulative		Section 5./.

		effects assessment.FRMG notes that other stressors such as climate change, flooding, and forest fires will need to be part of assesment beyond future industrial development.		PPML will engage with Indigenous communities during the development of the DAR.
18	3.7 Cumulative Effects	3	FRMG recommends that section 3.7 be updated to include direction for the assessment of trends-over-time and accounting of the context and present state of valued components. Please include direction to the Proponent to collaborate with Indigenous groups on the determination of significance for cumulative effects. Please also include direction to incorporate environmental stressors such as climate change, flooding, and forest fires in the cumulative effects assessment.	Duplicate comment. See above response.
19	Acid Generating Potential Tests - 4.1.4 Terrain, geology, and soil, p. 19	FRMG supports the inclusion of a	Please include direction to conduct acid generating potential tests.	PPML disagrees that Section 4.1.4 of the TOR should specify the geochemical tests to be conducted. However, as indicated in Section 2.1.3.2 of the Project Description submitted with the EA Initiation Package, the potential for acid generation was tested by acid-base accounting analysis. As per the TOR, PPML will provide a characterization of the geochemical composition of expected mined materials in the DAR
20	Acid Generating Potential Tests - 4.1.4 Terrain, geology, and soil, p. 19	FRMG supports the inclusion of a description of the physical and chemical characteristics of mine rock, waste rock, and tailings as part of the assessment Report. FRMG requires assurances that	Please include direction to conduct acid generating potential tests.	Duplicate comment. See above response.

		Table 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
		this will be informed by acid generating potential tests.		
21	Seasonal base flow - 4.1.5. Surface and groundwater quality and quantity, p.21	full range of seasonal and inter-annual variation for all streams and rivers	for surface watercharacterization to ensure that all potentially affected waterbodies are assessed even if they are outside of the Project area.	PPML would characterize all surface waterbodies (i.e., rivers, creeks, streams) within the local study area (LSA). The LSA includes waterbodies that are outside of the Project footprint, some of which may not be hydrologically connected. For example, waterbodies that may potentially experience air quality effects would be included in the LSA for surface water quantity and quality. As described in Section 4.2.1.3 of the Developer's Assessment Proposal, the LSA is anticipated to be large enough to capture direct and indirect effects on surface water flows and levels resulting from the Project.
22	Seasonal base flow - 4.1.5. Surface and groundwater quality and quantity, p.21		Please reword the minimal requirements for surface watercharacterization to ensure that all potentially affected waterbodies are assessed even if they are outside of the Project area.	
23	groundwater quality and quantity, p.22	Within the limits of available data the proponent should also use the predictions of climate models to describe how ground and surface water budgets may change within the proposed lifetime of the project. As it is now the opinion of climate change experts that we will continue to see warming global surface temperature under all emissions scenarios (see IPCC 2021, item B.1, pg SPM-17), the proponent should consider predicted future changes to the water balance due to a warming climate to be part of baseline conditions. PCC, 2021: Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report	use an appropriate climate model and describe the choice of that model.	It would be inappropriate to select a single climate model to test climate change projections. Best practice is to examine the entire ensemble of models and scenarios, and use median or other metric to assess sensitivity to climate change.

	1			
		of the Intergovernmental Panel on		
		Climate Change [Masson-Delmotte, V.,		
		P. Zhai, A. Pirani, S. L. Connors, C.		
		Péan, S. Berger, N. Caud, Y. Chen, L.		
		Goldfarb, M. I. Gomis, M. Huang, K.		
		Leitzell, E. Lonnoy, J.B.R. Matthews, T.		
		K. Maycock, T. Waterfield, O. Yelekçi,		
		R. Yu and B. Zhou (eds.)]. Cambridge		
		University Press. In Press.		
24	4.1.5. Surface and		The TOR should direct the proponent to	Duplicate comment. See above response.
		proponent should also use the predictions		
	quantity, p.22	of climate models to describe how	describe the choice of that model.	
	7	ground and surface water budgets may		
		change within the proposed lifetime of		
		the project. As it is now the opinion of		
		climate change experts that we will		
		continue to see warming global surface		
		temperature under all emissions		
		scenarios (see IPCC 2021, item B.1, pg		
		SPM-17), the proponent should consider		
		predicted future changes to the water		
		balance due to a warming climate to be		
		part of baseline conditions.		
		part of basefine conditions.		
		PCC, 2021: Summary for Policymakers.		
		In: Climate Change 2021: The Physical		
		Science Basis. Contribution of Working		
		Group I to the Sixth Assessment Report		
		of the Intergovernmental Panel on		
		Climate Change [Masson-Delmotte, V.,		
		P. Zhai, A. Pirani, S. L. Connors, C.		
		Péan, S. Berger, N. Caud, Y. Chen, L.		
		Goldfarb, M. I. Gomis, M. Huang, K.		
		Leitzell, E. Lonnoy, J.B.R. Matthews, T.		
		K. Maycock, T. Waterfield, O. Yelekçi,		
		R. Yu and B. Zhou (eds.)]. Cambridge		
		University Press. In Press.		
25	Climate change and	·	Update the TOR to require the DAR to	As per FRMG-24, PPML would conduct climate change
	ground-water model -		describe expected changes to the	modelling which will consider multiple scenarios; this

	groundwater quality and quantity, pp. 22-24.	required to use the model and the results from the analysis of projected future climate conditions to discuss expected changes to the watershed baseline (which includes changing conditions caused by awarming of the global surface temperature) caused by project activities.	model and results from the analysis of projected future climate conditions.	would consider future climate for baseline watershed conditions.
26	ground-water model - 4.1.5. Surface and groundwater quality and quantity, pp. 22-24.	development of a 3-dimensional numerical groundwater flow model, however, the proponent should also be		Duplicate comment. See above response.
27	for groundwater and surface water impacts - 4.1.5. Surface and groundwater quality and quantity p. 24	for anticiapted and unanticipated effects to groundwater and surfacewater. To understand the potential impacts of the Project FRMG requires information on not only planned mitigations but also proposed adaptive measures including the thresholds that would trigger these measures. Further, thresholds must be informed by relevant values, particularly Indigenous land use.	adaptive measures.	PPML disagrees that the TOR should be updated to include this recommendation. In the DAR, PPML will include conceptual management and mitigation plans, where additional details will be developed and added following approval for the Project and as part of the permitting process (see CanNor-57). Although the plans are expected to include an adaptive management framework, where appropriate, triggers and thresholds will not be developed during the DAR or DAR review process, but will be developed for permitting. PPML will engage with Indigenous groups during the permitting phase of the Project.
28	Adaptive Management for groundwater and surface water impacts - 4.1.5. Surface and groundwater quality and quantity p. 24	The 5th bullet on page 24 outlines the need for the DAR to describe mitigation	Please update the TOR to include a requirement for the Proponent to work with Indigenous communities to identify thresholds for continency plans and adaptive measures.	Duplicate comment. See above response.

Climate change and vegetation - 4.1.6. Vegetation, p. 25	proposed adaptive measures including the thresholds that would trigger these measures. Further, thresholds must be informed by relevant values, particularly Indigenous land use. FRMG supports the inclusion of climate change considerations in describing baseline and existing conditions for vegetation and predicting future change however this should also be informed by modelling.	Please include a requirement to model impacts to vegetation from climate change.	PPML disagrees that modeling of global climate change on effects of local and regional vegetation should be in the scope of this assessment. PPML suggests instead that a review of recent scientific literature focused on modeling of climate changes to northern vegetation be completed instead to inform predictions of future change associated with the Project.
vegetation - 4.1.6. Vegetation, p. 25	FRMG supports the inclusion of climate change considerations in describing baseline and existing conditions for vegetation and predicting future change however this should also be informed by modelling.	Please include a requirement to model impacts to vegetation from climate change.	Duplicate comment. See above response.
Aquatic Life - 4.2.2. Fish and aquatic life, p. 28-29.	FRMG is concerned that the TOR does not identify changes to vegetation and wetlands explicitly as one of the potential project interactions impacting fish and fish habitat on p. 28 and 29.		All aquatic habitats are included in the fish and fish habitat assessment, including potentially fish-bearing wetlands and ponds. Changes to vegetation will also be considered where there will be the clearing of riparian vegetation. This approach is consistent with expectations to meet requirements to protect fish and fish habitat as outlined in the Fisheries Act.
Aquatic Life - 4.2.2. Fish and aquatic life, p. 28-29.	FRMG is concerned that the TOR does not identify changes to vegetation and wetlands explicitly as one of the potential project interactions impacting fish and fish habitat on p. 28 and 29.	Please include changes to vegetation and wetlands as a potential impact to fish and fish habitat.	Duplicate comment. See above response.
- 4.2.2. Fish and aquatic life, p. 28-29.	A description of habitat type should be informed by habitat supply modeling. This information could support identification of baseline data collection sites.	modeling for important fish species (including aquatic species at risk) as a	PPML disagrees that this should be added to the TOR. PPML will infer fish habitat using habitat suitability index (HSI) methods or a similar modelling approach for species and populations where there is expected to be residual effects to fish or fish habitat. For example, measured habitat variable data (e.g., bed substrate, stream width, habitat type) will be compared against literature-derived

			1	T
				species-specific habitat requirements to predict whether a waterbody has the potential to support a fish species.
				In any cases where there is expected to be a residual effect on fish or fish habitat, PPML will consider evaluating the potential pathway by using quantitative methods.
1	- 4.2.2. Fish and aquatic life, p. 28-29.	sites.	modeling for important fish species (including aquatic species at risk) as a way of determining project effects within the study area.	
H	Fish and aquatic life, p. 30.	4.1.5 of the TOR should inform the identification of impacts to fish, direction on this is not explicitly required.	fish.	The quantitative outcome of the surface water quantity model will be considered in the evaluation of flow changes for fish and fish habitat.
F	Fish and aquatic life, p. 30.	Hydrological models required in section 4.1.5 of the TOR should inform the identification of impacts to fish, direction on this is not explicitly required.	Please explicitly require the use of hydrological models to inform impacts to fish.	Duplicate comment. See above response.
4	4.2.3. Birds and their habitat, p. 31	Section 4.2.3 requires the mapping of areas of concentration of migratory birds. Habitat supply modeling should also inform this.	study area.	Habitat suitability index modelling will be completed for olive-sided flycatcher, yellow rail, whooping crane, and rusty blackbird using models that were developed in 2018 (Golder 2018). The habitat suitability index model for whooping crane and yellow rail will provide habitat estimates that can be applied to all waterbird species as the habitat types included in the model are water, wetlandshrub, and wetland-herb. Note that PPML requires data from ECCC on bird migration and staging areas before habitat modelling can be completed for determining these habitat types.
4	4.2.3. Birds and their habitat, p. 31	Section 4.2.3 requires the mapping of areas of concentration of migratory birds. Habitat supply modeling should also inform this.	Include a requirement for habitat supply modeling for migratory birds as a way of determining project effects within the study area.	Duplicate comment. See above response.
39 7	Traditional knowedge	The TOR does not direct the Proponent	Please include a requirement for the	PPML has, and will continue to provide opportunities for

		<u></u>	T	
	collection for Birds -	programs for bird habitat nor does it		appropriate environmental baseline studies for the Project.
	4.2.3 Birds and their	require or encourage the participation of	opportunities to participate in all baseline	Indigenous Knowledge collected through the baseline
	habitat, pp. 31 and 32.	Traditional Knowledge holders in		study programs will be incorporated into baseline
		baseline surveys. FRMG members need	terrestial and aquatic life. The proponent	reporting where provided and agreed upon by the
		to be involved in migratory bird	should also be required to document how	knowledge-holder(s). Given that this approach is not
		programs and data collection, especially	all baseline data was collected and how it	specific to bird surveys, PPML does not recommend a
		data collection concerning Whooping	was informed by IGO traditional	revision to the TOR in this section, and instead proposes
		Cranes.		to continue to carry out this work through the overall
				engagement process for the Project.
40	Traditional knowedge	The TOR does not direct the Proponent		Duplicate comment. See above response.
	and baseline data	to document baseline collection	proponent to work with affected	- np
	collection for Birds -	programs for bird habitat nor does it	Indigenous groups and provide	
	4.2.3 Birds and their	require or encourage the participation of	opportunities to participate in all baseline	
	habitat, pp. 31 and 32.	Traditional Knowledge holders in	studies and inventories of birds and other	
	naorat, pp. 31 and 32.	baseline surveys. FRMG members need	terrestial and aquatic life. The proponent	
		to be involved in migratory bird	should also be required to document how	
		programs and data collection, especially	all baseline data was collected and how it	
		data collection concerning Whooping	was informed by IGO traditional	
		Cranes.	knowledge.	
41	Traditional Knowledge	FRMG members have valuable		PPML agrees that text in bullet 1 on page 35 can be added
41	and Habitat	Traditional Knowledge that could and		to specify that PPML will work with Indigenous groups to
	Identification - 4.2.4.	should inform the identification of	traditional knowledge provided informed	
				The DAR will include a section summarizing how
	Moose, Furbearers and	potentially affected wildlife habitat sites.		
	other wildlife, pp. 33-	The TOR should be strengthened to	habitat sites.	Indigenous Knowledge was provided and how it informed
	34.	encourage the Proponent to work directly		the DAR broadly, including specific subcomponents.
		with affected Indigenous groups to	Please also reword the secon bullet on	
		identify and describe wildlife habitat	page 34 so that both the GNWT and	The GNWT has determined that a population survey of
				moose is required, and as indicated in the response to
		Further, Unlike the birds section (4.23),		GNWT-28, PPML is willing to collaborate with GNWT-
		this section does not reference the		ENR on the logistics and approach to the survey. As such,
		community-led Indigenous knowledge		the wording recommended by FRMG related to this bullet
		study, which will likely also include		is not required.
		focus on moose, furbearers and other		
		wildlife to provide important baseline		
		and existing conditions information.		
		Specific reference to this data source		
		should be made in this section of the		
		TOR.		

12	Traditional Vnovil-1	FRMG members have valuable	Undete section 4.2.4 to magning the	Dunlianta comment Cas chave manage
42	Traditional Knowledge and Habitat		Update section 4.2.4 to require the	Duplicate comment. See above response.
		Traditional Knowledge that could and	Proponent to document how any	
	Identification - 4.2.4.	should inform the identification of	traditional knowledge provided informed	
	Moose, Furbearers and	potentially affected wildlife habitat sites.		
	other wildlife, pp. 33-	The TOR should be strengthened to	habitat sites.	
	34.	encourage the Proponent to work directly		
		with affected Indigenous groups to	Please also reword the secon bullet on	
		identify and describe wildlife habitat	page 34 so that both the GNWT and	
		sites potentially affected by the Project.	Indigenous Group have the opportunity	
		Further, Unlike the birds section (4.23),	to identify the need for a population	
		this section does not reference the	survey for moose.	
		community-led Indigenous knowledge		
		study, which will likely also include		
		focus on moose, furbearers and other		
		wildlife to provide important baseline		
		and existing conditions information.		
		Specific reference to this data source		
		should be made in this section of the		
		TOR.		
43	4.2.5. Boreal Caribou		Please update section 4.2.5 to include	PPML agrees that any Indigenous Knowledge shared
		to FRMG members and FRMG members		during the community-led knowledge studies will be used
		have important traditional knowledge		to inform current use of the area and impacts of the project
		about Boreal caribou populations in the	current use of the area and impacts of the	on boreal caribou.
			project on boreal caribou.	
		that section 4.2.5 does not explicitly		
		support or encourage the consideration		
		of traditional knowledge in baseline data		
		collection and impact assessment. For		
		this section overall, there is heavy		
		emphasis on using best available		
		information from ECCC / ENR, however	•	
		there is no reference to Traditional		
		Knowledge or the community-led		
		Indigenous knowledge study. Without		
		the Traditional Knowledge component,		
		especially on the local Pine Point herd		
		scale, which may not be captured in the		
		GNWT's most recent boreal species		

		status report, the baseline information will not be complete.		
44	4.2.5. Boreal Caribou		knowledge shared to be used to inform current use of the area and impacts of the project on boreal caribou.	Duplicate comment. See above response.
45	Key Questions 4.2.5 Boreal Caribou, p.61	FRMG was surprised that mitigations were not included as a key question. To better understand potential impacts to boreal caribou at pine point, FRMG needs to understand how the Proponent intends to avoid, minimize, or offset impacts to caribou and caribou habitat.	boreal caribou be mitigated?"	This information is already included in the TOR. The last bullet in Section 4.2.5 states that the caribou impact section will "describe how the developer will prevent or fully mitigate any impacts to boreal caribou that may use the project area and Wood Buffalo National Park".
46	Key Questions 4.2.5 Boreal Caribou, p.61	FRMG was surprised that mitigations were not included as a key question. To better understand potential impacts to boreal caribou at pine point, FRMG needs to understand how the Proponent intends to avoid, minimize, or offset impacts to caribou and caribou habitat.	Please include the following as a key question in 4.2.5: "How will impacts to boreal caribou be mitigated?"	Duplicate comment. See above response.

47	Contamination - 4.2.8. Indigenous Land Use, p.41	Existing observed and recorded sources and location/extent of contaminationshould be required as part of the description of the existing environment, with additional guidance that the DAR should identify with Indigenous groups areas subject to elevated contamination concerns, whether they are supported by scientific data or traditional Knowledge.	Update section 4.2.8 to guide the Proponent to work with affected Indigenous groups to identify areas subject to elevated contamination concerns.	PPML agrees that identification of areas of elevated contamination concern should be identified, if possible, through the Indigenous Knowledge studies conducted for the Project.
48	Contamination - 4.2.8. Indigenous Land Use, p.41	Existing observed and recorded sources and location/extent of contaminationshould be required as part of the description of the existing environment, with additional guidance that the DAR should identify with Indigenous groups areas subject to elevated contamination concerns, whether they are supported by scientific data or traditional Knowledge.	Update section 4.2.8 to guide the Proponent to work with affected Indigenous groups to identify areas subject to elevated contamination concerns.	Duplicate comment. See above response.
49	Food security and existing environment - 4.2.8. Indigenous Land Use, p.41	An additional line item should be added requiring examination of "country food security and food sovereignty and how this has changed over time" to the description of the existing environment.	Update section 4.2.8 to ensure that country food security and food sovereignty and how this has changed over time is described in the DAR description of the existing environment for Indigenous Land Use.	PPML agrees that food security should be addressed in the existing conditions section of the DAR, as identified through Indigenous Knowledge studies conducted for the Project.
50	Food security and existing environment - 4.2.8. Indigenous Land Use, p.41	An additional line item should be added requiring examination of "country food security and food sovereignty and how this has changed over time" to the description of the existing environment.	Update section 4.2.8 to ensure that country food security and food sovereignty and how this has changed over time is described in the DAR description of the existing environment for Indigenous Land Use.	Duplicate comment. See above response.
51	Rights and Effects on Indigenous Land Use - 4.2.8. Indigenous Land Use, p.42	FRMG members have constitutionally recognized Aboriginal rights that are not subject to Treaty. The TOR as worded only requires the DAR to include an assessment of impacts to Treaty rights. All rights must be assessed.		PPML does not feel that the assessment of Indigenous Rights, including Treaty Rights, should be undertaken by the developer, and that this is best evaluated by Indigenous Peoples themselves. Consistent with the requests of other Indigenous groups commenting on the TOR (e.g., DKFN 29), PPML requests that this

52	Rights and Effects on	FRMG members have constitutionally		requirement be removed from the TOR. Specifically, PPML requests that the bullet "overall impacts on Indigenous Peoples' ability to practice Treaty Rights" be removed from Section 4.2.8. Duplicate comment. See above response.
	Indigenous Land Use - 4.2.8. Indigenous Land Use, p.42	recognized Aboriginal rights that are not subject to Treaty. The TOR as worded only requires the DAR to include an assessment of impacts to Treaty rights. All rights must be assessed.	page 42 to "Aboriginal and Treaty Rights"	
53	Experience and perception - 4.2.8. Indigenous Land Use, p.42	The 8th bullet on p. 42 for the list of effects on Indigenous Land Use only describes the need to document "perception." "Experience and perception" should always be used; it is not just perception it is also observed experience.	Please revise the 8th bullet on page 42 to include changes to Indigenous Groups/harvesters observed experience.	
54	Experience and perception - 4.2.8. Indigenous Land Use, p.42	The 8th bullet on p. 42 for the list of effects on Indigenous Land Use only describes the need to document "perception." "Experience and perception" should always be used; it is not just perception it is also observed experience.	Please revise the 8th bullet on page 42 to include changes to Indigenous Groups/harvesters observed experience.	Duplicate comment. See above response.
55	Climate Change - 4.2.8. Indigenous Land Use, p.42	Further guidance is required for understanding climate change considerations on Indigenous land use. Guidance needs to be expanded to require the developer to estimate preproject vs. during- and post-project zones of alienation likely due to a mixture of physical restrictions, observed changes, and perceived risks associated with climate change.	during- and post-project zones of alienation likely due to a mixture of physical restrictions, observed changes, and perceived risks associated with climate change. FRMG also recommends	PPML disagrees. An assessment linking perceived risks related to multiple climate change scenarios in the past, present, and future, to zones where Indigenous land users will or will not use the land is outside the scope of the Project, and so should not be included in the TOR.
56	Climate Change - 4.2.8. Indigenous Land Use, p.42	Further guidance is required for understanding climate change considerations on Indigenous land use.Guidance needs to be expanded to	Expand TOR guidance require the developer to estimate pre-project vs. during- and post-project zones of alienation likely due to a mixture of	Duplicate comment. See above response.

		T	T	
		require the developer to estimate pre-	physical restrictions, observed changes,	
		project vs. during- and post-project	and perceived risks associated with	
		zones of alienation likely due to a	climate change. FRMG also recommends	
		mixture of physical restrictions, observed		
			scenarios be required in any such	
		with climate change.	analysis.	
	Impacts on Culture -		FRMG encourages the Board not to use	PPML agrees that Indigenous Peoples are best positioned
	4.2.11. Culture, p. 45.	role of engaging culture holders	"closed" topics like this series of bullets,	to discuss the important subject of culture. PPML will
		themselves in the cultural impact		engage with communities to undertake Indigenous
		assessment here. that should be fixed.	almost certainly, additional cultural	Knowledge studies led by the communities, which may
		This is one area where developers most	impact concerns beyond these bullets	include community-defined components of culture.
		certainly are not best equipped to	will be raised. Suggest adding a catch all	
		conduct these effects characterization	bullet at the end for "any other cultural	
		exercises on their own.	impact concern raised by impacted	
			communities".	
58	Impacts on Culture -	This section has no mention of the key	FRMG encourages the Board not to use	Duplicate comment. See above response.
	4.2.11. Culture, p. 45.	role of engaging culture holders	"closed" topics like this series of bullets,	
	, F. 12.	themselves in the cultural impact	for the breadth of cultural impact issues".	
		assessment here, that should be fixed.	almost certainly, additional cultural	
			impact concerns beyond these bullets	
		certainly are not best equipped to	will be raised. Suggest adding a catch all	
		conduct these effects characterization	bullet at the end for "any other cultural	
		exercises on their own.	impact concern raised by impacted	
		exercises on their own.	communities".	
59	Indicators 4.2.12 Social	we would recommend not emphasizing	Please update indicators in the TOR to	PPML agrees that these Indigenous Social Determinants
	and Community			of Health should be applied to the TOR in place of the
			than disfunction.	'social indicators of quality of life' presented in the
	Conditions, p.47	,		
		including Indigenous Social		second bullet of the Existing Environment and Baseline
		Determinants of health indicators		Conditions section of Section 4.2.12. These Determinants
		recognized for the NWT (e.g., education		also likely cover some of the other bullets in this section,
		levels, housing adequacy, affordability		which should be removed as appropriate to avoid
		and crowding, adequacy of physical		redundancy in the TOR.
		infrastructure, family structure, access to		
		health care and social services, level of		
		country foods in diet, levels of traditional		
		activities, connectedness to community,		
		etc., level of food sharing, youth-elder		
		dynamics, time on the land, self reported		
		well-being)		

60	Indicators 4.2.12. Social	FRMG would recommend not	Please update indicators in the TOR to	Duplicate comment. See above response.
		emphasizing so many "indicators of	focus on indicators of function rather	· · · · · · · · · · · · · · · · · · ·
		disfunction" and focusing more on	than disfunction.	
		indicators of function, including		
		Indigenous Social Determinants of		
		health indicators recognized for the		
		NWT (e.g., education levels, housing		
		adequacy, affordability and crowding,		
		adequacy of physical infrastructure,		
		family structure, access to health care		
		and social services, level of country		
		foods in diet, levels of traditional		
		activities, connectedness to community,		
		etc., level of food sharing, youth-elder		
		dynamics, time on the land, self reported		
N.T.	m ·	well-being)	D 1 1 1	D. A.D.
No	1 L	Reviewer Comment	Reviewer Recommendation	Proponent Response
Dene	Tha First Nation - Mathey		THE CONTRACTOR	hr · i
1	DTFN submission	Letter from Dene Tha First Nation	Letter from Dene Tha First Nation	No response required.
No		Reviewer Comment	Reviewer Recommendation	Proponent Response
GNW		Aggrey@gov.nt.ca Sam-Aggrey	G 1	hy
1		Cover letter	Cover letter	No response required.
2			Boreal Caribou Range Planning	No response required.
2	C	Framework	Framework	NT
3		EA0607-002 INAC IR response	EA0607-002 INAC IR response	No response required.
4	response Abandonment and	Abandoonment and Restoration Plan -	Abandonment and Resotoration Plan -	No response required.
4		Teck Metals	Teck Metals	No response required.
5	Boreal Caribou Report	Influence of Land Cover, Fire and Hman		No response required.
)		Disturbance on Habitat Selection by	Borear Carroon Report	no response required.
		Boreal Caribou in the NWT		
No		Reviewer Comment	Reviewer Recommendation	Proponent Response
	u K'ue First Nation (DKF		provide not recommendation	r roponent response
1		DKFN submission	DKFN submission	No response required
2		All sections	Some bullet points seem to have a	No response required
Γ			strikethrough (e.g., p. 24 last black bullet	a to response required
			point and p. 27 last open bullet point).	
	1	i .	ii	L

page 1	The project includes the open pit and underground mining of zinc and lead	sections of the ToR. Please clarify the	As described in the Project Description, mining is expected to occur over 10 to 15 years.
	deposits over five years Transportation	actual life of the mine. Another subject to consider is the use of public roads (e.g., highways) for the movement of mined rock.	PPML notes that "transport of mine related materials to and from mine site" is included in Table 1 in Section 2.1
Development, page 5	Power	While the project will use the NTPC network, it is our understanding that this network is being upgraded. The ToR should be clear on whether this upgrade is a direct result of the mine (i.e., should be included in the scope) or is being upgraded for other reasons.	Board undertook an environmental assessment of the Taltson Expansion Project in 2007, long before the Pine Point Project was envisioned. PPML is in discussions with NTPC to obtain hydroelectric power, which can be provided by the existing Taltson Hydroelectric Plant without need for upgrades for the hydroelectric system. Questions regarding the plans for an expansion to the Taltson Hydroelectric Plant and associated transmission line should be directed to GNWT and NTPC, and do not belong in the DAR. Regardless, the DAP includes the Taltson Hydroelectric Expansion Project as a reasonably foreseeable development, and this will be included in the cumulative impacts scenarios.
of Inquiry, page 7	Managing water so that it remains clean in the future lasting well-being	This key line of inquiry is awkwardly worded. Please revise to provide clarity on what this actually means.	PPML suggests that the wording be "managing water so that it remains safe and available for use in the future". Please also see the response to ECCC-23 and NRCan-5.
Section 2.2.2. Key Lines	Of the listed species at risk assessed in this EA, the developer will pay particular	Here, and in other section of the ToR (e.g., 2.2.1 Valued Components), the specific reference to whooping cranes	The wildlife VCs that were selected for comprehensive assessment in the DAR are boreal caribou, wood bison, wolverine, gray wolf, little brown myotis, olive-sided

		attention to assessing and mayorting are	(and housel southou) has the	flygotohon common nighthough aroning angelessless 11
		attention to assessing and preventing any		flycatcher, common nighthawk, evening grosbeak, yellow
		effect on whooping crane.	unanticipated intention of undermining	rail, rusty blackbird, and whooping crane.
			other species at risk in the project area	
			that need to be assessed. While,	
			whooping crane and boreal caribou are	
			highly important, so are other species at	
			risk and the terms of reference should	
			not be seen as favouring one species over	
			another. All species at risk need to be	
_			equally assessed.	
8		<u> </u>		PPML agrees with DKFN's clarification.
		significance of residual project effects	only need to consider the cumulative	
		which may combine with cumulative	effects of other projects, whereas the	
			developer will need to consider the	
		activities and identify mitigations that	residual effects of other projects that act	
		already exist or would be required for	cumulatively with the residual effects of	
		cumulative effects beyond those for	the Pine Point Mine. Likewise, the	
		project specific effects.	development will need to identify	
			mitigations that already exist or would	
			be required to address cumulative	
			effects	
9		These legacy effects from past	Clearer direction is required on how	No response required. Please also see responses to
	Legacy Effects, page 12	developments need to be considered in	these legacy effects are to be considered.	FRMG-9 and FRMG-17.
		the description of baseline conditions.	These past legacy effects should be	
			considered in the cumulative effects	
			assessment, as well as the assessment of	
			effects at the systems level.	
10	Section 4.1.5. Surface	describe past and current surface water	We recommend adding to the bullet	PPML do not have any concerns about listing the range of
			point list a list of parameters measured.	parameter groups and parameters included in the baseline
		characterization programs including		characterization of surface waters and groundwaters. This
		information about:		detail would be provided as part of the baseline surface
				water and groundwater quality and quantity
		- sampling site selection and locations		characterization.
		- monitoring duration and frequency		
		- sampling methods and analytical		
		protocol, including quality assurance and		
		quality control measures		

11	and quantity, page 20		recommend rephrasing it for better clarity.	PPML agree. The bullet can be revised to state, "provide rationale for how baseline data available for the Project are sufficient from a geographic scale and duration context to adequately represent the surface water and groundwater environment for the assessment".
12	Section 4.1.5. Surface and groundwater quality and quantity, page 20	environment for the current conditions"	drilling should be requested to help update aquifer mapping in the groundwater/surface water study area (LSA and RSA), specifically in the western region (Figure 3-1 of Volume 1 - Project Description; PPML, 2020). Wells could serve dual purpose and act as observation wells for helping	PPML does not agree that the recommendation needs to be incorporated into the TOR. PPML will develop a model of the groundwater and surface water environment. The requirement of the TOR as stated implies that such a model will be developed in the DAR to the necessary standard using available data and, if necessary, through collecting additional data. should be to specify that the modeling of the groundwater will be used to assess affects of the project. The model will be developed to the necessary standard using available data and, if necessary, collecting additional data.
13	and quantity, page 21	chemical constituents for surface water and groundwater		PPML supports this recommendation.
14	and quantity, page 21	characterization and conceptual model development will: - () - provide baseline data for physicochemical parameters and relevant chemical constituents for surface water and groundwater	water are connected, we recommend the Developer present baseline groundwater quality data in the groundwater section and baseline surface water quality data in	PPML agrees with this recommendation.

15	Section 4.1.5. Surface and groundwater quality and quantity, page 21	minimum requirements for the surface water characterization and conceptual model development include:	"provide baseline data for physicochemical parameters and relevant chemical constituents for surface water" under surface water characterization.	PPML agrees with this recommendation.
	Section 4.1.5. Surface and groundwater quality and quantity, page 21	characterization and conceptual model development include: () - identification of contaminants of potential concern through screening against relevant guidelines (for example, CCME)	the baseline study and the aquatic effects monitoring program, not only the "contaminants of potential concern" as some parameters (e.g., nitrate) could become a "potential concern" only after several years of operation. Baseline information on all nutrients and metals would be important. As such, we recommend adding the same footnote as on page 27, (i.e., "11 Relevant physicochemical parameters include, at minimum, temperature, pH, electrical conductivity, dissolved oxygen, turbidity, total suspended solids, total hardness, and total dissolved solids. Relevant chemical constituents include, at minimum, major and minor ions, and total and dissolved trace metals.")	aquatic life, wildlife use, or human use should they be incrementally changed as a result of the Project. PPML has responded in DKFN-14 that it has no concerns with the footnote addition.
17	Section 4.1.5. Surface and groundwater quality and quantity, page 22	- within the limits of available data, describe impacts of historical mining or stresses on local and regional surface and groundwater quantity and quality, including if the system is in a state of equilibrium or may still be changing because of historical activities	We recommend the Developer presents trends in historical water quality, water quantity and water flows, if data is available.	This recommendation is inferred in the TOR bullet, but is dependent on the availability of historic data for regional surface and groundwater quantity and quality. PPML believes that the data limitations will restrict this description to a qualitative assessment; however, for these components, the data record will be reviewed, and any obvious trends will be described. No further text is recommended in the TOR.
18	Section 4.1.5. Surface and groundwater quality and quantity, page 22	"Present a 3-dimensional numerical groundwater flow model based on the conceptual model of the hydrogeological environment for current conditions and use that model to estimate changes related to the project"	Steady or transient state 3-dimentional flow models require detailed input values for calibration. Additional field testing (pumping test) should be performed to confirm seasonality of hydraulic head and hydraulic gradient for the various	PPML thanks the reviewer for the advice. PPML is currently undertaking a study of groundwater conditions and hydrologic characterization of the aquifers intersected using exploration drillholes and will continue this work into the summer of 2022. The hydrogeological model will be developed using inputs from this work. If needed,

19	and quantity, page 23	"Describe methods used to assess the potential for ML/ARD for tailings, waste rock, and low-grade ore or other	aquifer hydraulic conductivity across the study area is also required as suggested in the analytical modelling completed by Tetratech (2020). Further field testing should be required to characterize waste rock chemistry for a more accurate prediction of future	PPML will review the available rock chemistry data used to characterize the waste rock in terms of distribution of data (bother laterally and vertically) with respect to the
			sampling (sonic drilling or other) of waste rock piles. Previous tests were completed at shallow depths (<1.5m; Tetratech. 2018) and; therefore; are less representative of total waste rock chemistry.	waste rock management and interaction of waste rock with surface and groundwaters. If necessary, PPML will obtain additional data to support the analysis.
20	and quantity, page 24	water management plans" applied in the assessment of other parts of the environment.	The water quality prediction model should be compatible or should communicate with the 3-dimentionsional numerical groundwater flow model for accurate representation of groundwater conditions. Inputs should be shared between disciplines.	This recommendation is inferred in the TOR bullet, and no further text is recommended in the TOR. As described in Section 4.2.1.4 in the Developer's Assessment Proposal (KLOI-1: Impacts to Water Quality), PPML's assessment of potential changes to surface water and groundwater resulting from the Project will be completed by utilizing a numerical model that will integrate the site water balance and site water quality, the receiving environment surface water quantity and water quality, and the hydrogeological modelling component. Any update to the model during the lifespan of the project to address future changes to the mine development and or water management plans is expected to utilize the same (or updated as required) integrated modelling framework.
21	and quantity, page 24	- determine the spatial extent of the effluent mixing zone in Great Slave Lake, if loadings of contaminants of potential concern are predicted to enter the lake by surface or groundwater pathways	plume model if any tailings or waste water is discharged to Great Slave Lake.	This recommendation is inferred in the TOR bullet. As described in Section 4.2.1.4 in the Developer's Assessment Proposal, PPML states that other water quality models may also be considered in the surface water quality assessment depending on the Water Management Plan developed to support the DAR. Should the Project discharge to Great Slave Lake, a near-field discharge dispersion model, such as CORMIX, would be considered.

	Section 4.1.5. Surface and groundwater quality and quantity, page 24	- describe proposed programs for characterizing future surface water and groundwater quality. Include: - sampling site selection and locations - monitoring duration and frequency - sampling methodology, and analytical protocol, including quality assurance and quality control measures ()	parameters that will be measured with all available water quality guidelines to which those parameters will be compared to.	PPML do not have any concerns with this recommendation, but recommend that Project thresholds be included with guidelines for data comparison. This is included to account for any site-specific water quality objectives that may be derived as part of the surface water and groundwater quantity and quality assessment for the DAR.
	and quantity, page 24	- describe the plans to mitigate both anticipated and unanticipated adverse impacts on ground and surface waters including: () - strategies to manage cumulative effects due to past impacts on water quality and quantity in the Project area in addition to project-related effects	(from other industries and activities in the mine regional study area) be added to the cumulative effects assessment and management strategy.	This is inferred in the TOR bullet, and no additional text is required. In the Developer's Assessment Proposal, PPML stated that the assessment of cumulative effects would include the Project and other current projects in the RSA, as well as previous and reasonably foreseeable developments, where there is potential for effects due to spatial overlap or interactions.
24		 describe past, current, and planned water resource baseline characterization programs. Provide information about: sampling site selection and locations monitoring duration and frequency sampling methodology, and analytical protocol, including quality assurance and quality control measures 	parameters that will be measured with all available water quality guidelines to which those parameters will be compared to.	PPML do not have any concerns with this recommendation, but recommends that Project thresholds be included with guidelines for data comparison.
25		"Provide baseline data for physiochemical parameters and relevant chemical constituents 11 for water	2020) suggest hydraulic communication between the shallow and deep aquifers	

26	Section 4.2. 1. Use of water by people, page 28	- carry forward the assessment of potential adverse effects due to change in water quality and quantity to other valued parts of the environment as	quantity, as water flows are important for	This recommendation is inferred in the TOR bullet, as water flows (surface hydrology) is included in the "water quantity" aspect of the assessment. Water quantity assessment results are carried forward to the fish and fish
		appropriate		habitat assessment, which will assess potential effects to fish passage and movement. No additional text is required.
27	Section 4.2.2. Fish and aquatic life, page 29	ground disturbance, altered drainage or instream construction activities.	Impacts to groundwater recharge of waterbodies in the assessment area need to be considered.	The results of the effects assessments for groundwater quality and quantity will be considered in the fish and fish habitat effects assessment
28	Section Existing environment and baseline conditions, Page 31	identify all federal species at risk, critical habitat and any potentially affected residences in the study areas; sites that are likely to be sensitive locations and habitat for birds; and environmentally significant areas. These include National Parks, Areas of Natural or Scientific Interest, Migratory Bird Sanctuaries, Important Bird Areasl4 or other priority areas or sanctuaries for birds, National Wildlife Areas, World Biosphere Reserves and provincially or territorially designated areas, such as Wildlife Areas.	environmentally significant areas identified in the ToR (e.g., National Park, Migratory Bird Sanctuaries), therefore, we recommend changing the wording to: "These areas include, but are not limited to, National Parks	We agree that the wording can be changed to "These areas include, but are not limited to, National Parks
29	Section 4.2.8. Indigenous Land Use, page 40	-	A requirement should be included to assess impacts to income from trapping activities as a component of traditional land use.	PPML will consider the role of trapping activities in provision of livelihood for trappers in the discussion of the economic impacts of the Project.
30	Section 4.2.8. Indigenous Land Use, page 40		assess "overall impacts on Indigenous Peoples' ability to practice Treaty rights".	

			of Crown consultation supported by the relevant VC baseline and assessment information.	
31	Uses, page 43	any predicted changes to recreation, hunting, and fishing activity in the project area, including new access (if any), changes to travel routes through the area or changes to the abundance and distribution of harvested species (consider the results of the wildlife and fish assessments)	The developer should also assess potential changes to the efficacy of reclamation efforts put forth on the Tailings Impoundment Area and the rail bed.	The Tailings Impoundment Area and the railbeds are not under PPML's control: Teck Resources and CIRNAC are responsible respectively. Any future remediation of the Tailings Impoundment Area and the rail bed will be subject to a public review process of their Closure and Reclamation Plans. Closure objectives and monitoring to confirm the effectiveness of closure will be included in the respective Closure and Reclamation Plans. PPML cannot speak to the outcome of these upcoming processes, except to assume that the Closure and Reclamation Plans will not be approved without engagement and collaborative planning with the DKFN and other affected groups. As such, this should not be a requirement of the Terms of Reference.
32	page 45	Section 4.2.11 the ToR states that "the developer will work with Indigenous groups and communities to describe existing environment and baseline conditions for the aspects of Indigenous culture listed in that section of the ToR.	required to work with Indigenous groups to develop this information; however, as	PPML has developed an Engagement and Collaboration Framework for the DAR, and will continue to work with Indigenous communities to advance engagement and Indigenous Knowledge studies related to the Project.
33	water so that it remains clean for the future, page	Keeping water clean requires a holistic consideration of: surface and groundwater quality and quantity,	We recommend adding water flows in addition to water quality and water	See response to DKFN-25. PPML has no concerns with the second recommendation.
34	clean for the future, page	 Will water around the mine (that is, the local and regional study areas) be safe and clean for people, fish, aquatic life, and wildlife during all project stages? Will water in the project footprint area be 	The first bullet point uses the expression "around the mine (that is, the local and regional study areas)" while the second sentence bullet usesthe project	PPML supports the recommendation that the two bullets reference the LSA (in which the Project footprint is a component) and the RSA or integrate the project phases into the one bullet. PPML notes that as per the Developer's Assessment Proposal, the Project phases comprise construction, operation, and closure and

	safe and clean for people, fish, aquatic life, and wildlife after the project has closed?	and/or to define what is the "project footprint".	reclamation. As a result, integrating these two bullets to one is preferred. Further, as responded to ECCC-20 and ECCC-23, PPML recommend that the phrase "safe and clean" in the bullet be revised to "safe".
	Will people still know that the water is clean, as a sign that the land is healthy?	This sentence is somewhat confusing. We recommend rephrasing it. For instance: "Will people still trust that the water is clean, and the land is healthy?"	The recommendation has a slightly different context to the TOR bullet as referenced, so PPML does not agree with the recommended text revision. The TOR infers that people perceive that "clean" water is the result of the land being healthy, so PPML simply requests the removal of the comma. As per previous responses, PPML also suggests that "safe" be used instead of "clean".
Section 4.3.1., page 58	managing unexpectedly high volumes of mine water impact other parts of the environment both during operations and after closure?"	Environmental Initiation Package (Volume 2 - Waste Management Plan; PPML, 2020). There is potential for cumulative mine water impacts on the receiving environment, given the discussion of dewatering and re-injection of groundwater as part of water management and storage of waste rock (thicken tailings) in open mine pits (WRSF and TDA), presumed to be connected to groundwater. To keep "water clean", water capture and treatment should be discussed in some detail (cost and feasibility) in the contingency planning in the event indicator parameter guidelines (CCME) are exceeded.	PPML expects that as part of the discussion on contingencies in the DAR as a component of the water management plan that water treatment is one of the options considered for managing unexpected water quality and/or water quality issues. No additional text is required in the TOR bullet.
purpose, needs,and alternatives, page 64	Section 5.5 requires the developer to describe alternative means of carrying out the Project that are technically and economically feasible.	We recommend that additional wording be added to the requirement that the developer describe criteria to determine the technical and economic feasibility of possible alternative means to include "assumptions made regarding economic feasibility in appropriate detail" to avoid	

			the developer unduly screening out	
			alternative means that protect the well	
			being of Indigenous communities in	
			order to protect profit margins	
No	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
GNW'	Γ-Lands - Dr. Melissa Pin	k		
1	Section 1.1 'Past	The last paragraph of Page 2 of the draft	The GNWT notes that some of the	No comment.
		Terms of Reference (ToR) states "Lands		
		in the area are managed by the	of the railbed that is on Commissioner's	
		Government of the Northwest Territories	land). The GNWT requests that the ToR	
			refer to the railbed as being on federal	
		which is federal land."	and territorial land.	
2		Given the need to delineate brownfield		There are already many such maps in the Developer's
		and greenfield areas on the project site,		Assessment Proposal and there will of course be many
		the GNWT considers it important for		more in the DAR to respond to the requirements of the
		PPML to provide a map and / or other		TOR (such as the requirements to describe existing
		illustrative documents or shapefiles		environment for vegetation, and the requirement to
		showing the footprint or coordinates of		consider the effects of past activities on caribou).
			relation to the footprint of the previous	eonotice une effects of publication of carries of
		the previous Pine Point Mine Project and		
		townsite.		
		The GNWT believes that such		
		information could be pertinent in		
		advancing the discussions on areas of the		
		proposed project site that could be		
		considered brownfields and those that		
		could be considered greenfields.		
3	Section 1.1 'Past	The draft ToR states "About 50 open	The GNWT recommends acknowledging	PPML agrees that it may be helpful to include a baseline
		pits, waste rock piles, a network of		in the Terms of Reference so as to distinguish PPML's
		roads, and a tailings facility remain on		proposed activities from historical ones, as PPML will
				only be responsible for remediating impacts from its own
		been an active mine at Pine Point since		activities, not historical ones.
		1988."	that has occurred and been approved by	detivities, not installed ones.
		1700.	previous governments (federal and	
			territorial). The GNWT recognizes that it	
			is possible that the reclamation that was	
			done in the 1990s may not be up to	
			modern standards. The GNWT	
			modern standards. The Orviv I	

			. 1	
			understands the developer would be	
			responsible for remediating impacts from	
			their project areas and activities.	
			Appropriate baseline information	
			collected would help inform all parties of	
			the current conditions. A paragraph	
			highlighting these aspects would	
			increase clarity to the developer and	
			public on the history of and current	
			responsibility for such factors.	
4	Section 1.1 'Past	The GNWT is talking with, and will		PPML agrees with the recommendation. However, neither
	Mining.' Page 2	continue to talk with PPML regarding	encourage the developer to put on	PPML nor Osisko Metals are in possession of any
		site conditions. For the information of all		information not already provided by the GNWT. PPML
		parties, the GNWT is submitting to the		has been working with GNWT to identify historic
		Board for placement on the public	carried out by its predecessor on the old	documents, and appreciates the effort that GNWT has
		registry a series of documents regarding	Pine Point Mine site.	invested in this.
		the history of the site with respect to site		
		conditions and previous remediation		
		efforts. The GNWT will post additional		
		documents as they are identified.		
5	Section 1.2. 'Process of	The third bullet on Page 3 reads "the	The GNWT recommends stating: the	PPML agrees with the GNWT suggestion
	Developing the Terms of	Project partially overlaps and uses the	Project partially overlaps and uses the	
	Reference.' Page 3	location of the historic Pine Point mine,	location of the historic Pine Point mine,	
	_	which has not been fully reclaimed"	which the GNWT understands was	
		•	remediated in the 1990s and may not be	
			to modern standards.	
6	Section 1.2 'Process of	The third bullet on Page 3 reads "the	The GNWT recommends stating: the	PPML agrees with the GNWT suggestion
	Developing the Terms of	Project partially overlaps and uses the	Project partially overlaps and uses the	
	Reference' Page 3	location of the historic Pine Point mine,	location of the historic Pine Point mine,	
		which has not been fully reclaimed"	which the GNWT understands was	
			remediated in the 1990s and may not be	
			to modern standards.	
7	Section 2.2.1 'Valued	Section 2.2.1 outlines that a preliminary	The GNWT supports the inclusion of	PPML disagrees that surface water and groundwater
	Components.' Page 6.	list of valued components to be used in	surface water and groundwater quality	quality and quantity be included as one valued component.
	Section 4.1.5 'Surface	the assessment of biophysical, social,		PPML understands the interconnection between the
	and Groundwater	economic, and cultural impacts from the		surface and groundwater; however, they would have
	Quality and Quantity.'	project includes surface water and		different measurement indicators and would have different
	Page 19.	project includes surface water and		analysis and assessment methods.

		1 , 12 1 , 2 1 , 1	TI CANALE A 1	
		groundwater quality and quantity and the		
		use of water by people.	of surface water and groundwater quality	
			and quantity to be a single valued	
		Further, Section 4.1.5 acknowledges	component given the connectivity	
		that: "The Review Board understands	between the surface and groundwater	
			systems.	
		between the surface and groundwater		
		systems in the project area. Because of		
		this connectivity, the Review Board		
		believes that it is appropriate and		
		necessary to consider the surface and		
		groundwater system as a single valued		
		component in this assessment."		
		The GNWT supports the inclusion of		
		surface water and groundwater quality		
		and quantity and the use of water by		
		people as a valued component, and that		
		surface water and groundwater quality		
		and quantity will be considered a single		
		valued component, in accordance with		
		the GNWT's recommendations in review		
		of the Developer's Assessment Proposal.		
8	Section 2.2.2 'Key Lines		The GNWT supports the inclusion of	As per the response to CanNor-20 and -23, PPML believes
		inquiry to be addressed within the		that "clean" is a subjective statement adjective and
		Developer's Assessment Report. The		difficult to define in a way that would be the same for all
		GNWT believes that the importance of	an are racare as a neg mie or miquing.	groups. PPML suggests that the wording be "managing
		water resources is an important element		water so that it remains safe and available for use in the
		of the assessment.		future".
9	Section 3.1 'Describe			PPML agrees that the Section 3.1 of the TOR is somewhat
		describe baseline conditions for each	for a description of the baseline	confusing as written. PPML disagrees with the concept of
	the Existing	valued component in enough detail to		providing a future baseline without the Project in a
			is presented in a separate section from	separate section. The concept of a future baseline is
			the request for a description of potential	implicitly part of the assessment cases (see Section 4.1.3.3
				of the Developer's Assessment Proposal). PPML believes
		content do not clearly align, causing		that assessing future risks associated with Cominco's
		some ambiguity in what is being		historic mining operations is outside the scope of the
		requested by this section. The title asks		Project.
		the developer to describe the baseline		- J · · ·
L	l	and developer to describe the buseline		

	conditions and the existing environment, in other words the present, but much of the content of this section is asking for a description of the environment in the future. Separating the requests for each of these descriptions would help emphasize the importance of each.		
Impacts Holistically and Systemically.' Subsection - 'Secondary Pathways.' Page 11.	Section 3.5 states: "the developer should consider secondary pathways if they interact with other VCs, to evaluate the combined effects of multiple impacts	of effects should consider secondary pathways if they interact with other valued components, to evaluate the combined effects of multiple impacts from the project as part of evaluating the systemic impacts of the project.	As per the TOR, PPML will consider secondary pathways in terms of larger interactions or systemic impacts. However, the definition of secondary pathways is that with the application of mitigation, the pathway could result in a measurable but minor environmental change relative to existing conditions or guideline values, but the change is sufficiently small that it would have a negligible residual effect on a VC (e.g., an increase in an air quality parameter that is negligible compared to the range of existing values and is well within the air quality guideline for that parameter). Therefore, the pathway would not be expected to contribute to effects of other existing, approved, or RFDs to cause a significant effect. Based on the definition, secondary pathways are unlikely to contribute to combined effects or systemic impacts as described in the draft TOR.
assessing cumulative effects/impacts	cumulative impacts as changes in the environment caused by multiple interactions among human activities and natural processes that accumulate across	inclusion of impacts from natural	PPML plans to include climate change and associated natural factors into the RFD Case and so is amenable to this inclusion into Section 3.7.

		limited to only the impacts from 'past,		
		present and reasonably foreseeable		
		future projects' as currently stated in		
		Section 3.7 and other locations		
		throughout the draft Terms of Reference.		
		Both human disturbances, such as		
		mining development, and natural factors,		
		such as forest fires and climate change,		
		can have equally important and		
		compounding impacts on the		
		environment and valued components.		
		Furthermore, the inclusion of natural		
		factors when assessing cumulative		
		effects/impacts was confirmed by the		
		developer during the Technical Scoping		
		Session.		
12	Section 3.9 'Climate	The draft Terms of Reference state	The GNWT recommends that "melt" be	PPML agrees with the recommendation.
.	Change.' First paragraph	"These effects have implications to the	changed to "thaw" in the first paragraph	
ļ	Page 12. Terminology	success of projects through a myriad of	of Section 3.9 on page 12.	
		pathways including increased extreme		
		weather events, fires, impacts to project		
		infrastructure, shorter ice road seasons,		
		melting permafrost, changes to wildlife,		
		and many other ways."		
		Permafrost thaws, it doesn't melt.		
13	Section 3.9 'Climate		The GNWT recommends the expansion	PPML agrees with the GNWT that the wording is unclear.
	Change.' First paragraph,		of what is meant by "changes to wildlife"	
]			1 0 1	
			page 12.	
		and many other ways."		
		What is meant by "changes to wildlife"?		
		Changes to what in wildlife (movement		
	Change.' First paragraph, Page 12. Terminology	"These effects have implications to the	of what is meant by "changes to wildlife" in the first paragraph of Section 3.9 on	T 1 11L agrees with the GIVW I that the worthing is unclear.

	1	I	<u> </u>	
		patterns, distribution, abundance, access		
		to critical habitat, etc.)?		N
14	Section 4.1.1		The GNWT recommends that "may" be	No concern.
	'Atmospheric		changed to "will" in the first paragraph	
	Environment." First	smells to the air."	of Section 4.1.1 on page 13.	
	paragraph, Page 13.			
	Terminology	The project will release emissions, dust		
		and odors to the air, as indicated in the		
		developer's Identification of Potential		
		Project-Interactions and Proposed		
		Mitigations Measures report that was		
		submitted as part of the environmental		
		assessment initiation package for the		
		Pine Point Project.		
15	Section 4.1.1	The draft Terms of Reference state "The		No concerns.
	'Atmospheric		replacement of "smells" with "odour" in	
	Environment.' First	smells to the air." The word "smell(s)" is		
	paragraph, Page 13.	not typical terminology used in air	page 13.	
	Terminology	quality.		
16	Section 4.1.1 'Changes	The draft Terms of Reference direct the	The GNWT recommends that the Terms	No concerns.
	to the Atmospheric	developer to include in the Developer's	of Reference should direct the developer	
	Environment.' Page 14.	Assessment Report a description of	to provide a description of air emission	
	Fugitive Emission	emission sources of air pollutants from	sources from the project including all	
	Sources	the project including all point sources,	point sources, fugitive sources, mobile	
		mobile sources, and road sources.	sources, and road sources.	
		However, there is no explicit mention of		
		fugitive emissions sources. The		
		description of emission sources should		
		include fugitive emission sources such as		
		stockpiles and loading and unloading		
		areas.		
17	Section 4.1.1	The draft Terms of Reference state that		Agreed; no concern; although this strengthens the
	'Greenhouse Gas	"Additional guidance related to		argument against using Draft Technical Guidance
	Emissions.' Last	greenhouse gas emissions and climate	on page 15.	Document as proposed by ECCC.
	paragraph, page 15.	change is included in the draft Strategic		
	Reference to the	Assessment of Climate Change prepared		
	Strategic Assessment of	by Environment and Climate Change		
	Climate Change	Canada."		

	Т		1	T
		The Strategic Assessment of Climate Change (SACC) was finalized in 2020. Note that the draft Technical Guide Related to the SACC: Guidance on quantification of net GHG emissions, impact on carbon sinks, mitigation measures, net-zero plan and upstream GHG assessment is currently in draft form and open for public comment.		
18	Section 4.1.4 'Existing environmental and baseline conditions – terrain and soil.' Page 18.	The section identifies a number of aspects that are to be included in the DAR. The GNWT is very interested in understanding the baseline soil	The GNWT recommends that these two bullets be revised to ensure that the baseline assessments associated with terrain and soil are clear that soil baseline will be collected. • describe baseline 'soil' concentrations of contaminants of concern based on historic and proposed mining within the local, regional, and downstream receiving environments. • describe the historical land use and the potential for soil contamination as a result of the proposed project.	For the soils baseline, PPML We should push with something like, we would be happywilling to review the baseline soil condition data that were used by the GWNT/DIAND to accept the land back from Cominco. Cominco described potentially contaminated areas in their Abandonment and Restoration Plans available on the LWBLand and Water Board document registry (MV2006L2-0003). WePPML would be happy toalso review the information that the GNWT used to confirm that these areas were adequately reclaimed prior to Cominco relinquishing the lands back to the GWNT/Crown.
19	Section 4.1.5 'Surface and Groundwater Quality and Quantity.' Pages 19-20. Identification of geographic scope	The minimum geographic scope for the surface and groundwater assessment should include the basins of the five watercourses in the vicinity of the Pine Point Project and the wetlands of the regional study area. A basin-wide	The GNWT recommends that the minimum geographic scope of assessment for surface and groundwater quality and quantity be identified in Section 4.1.5 and that it include Paulette Creek, Twin Creek, the Buffalo River,	PPML do not agree that this recommendation is needed. The Developer's Assessment Proposal stated that the LSA for the Project would be defined at a scale that contains most, or all, expected effects of the Project on the VCs and supporting intermediate components; therefore, the LSA for surface water and groundwater quantity and

	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 Y 1 1 D 00 1 D1 D1 1 G 1	
		approach is important for assessing	the Little Buffalo River, Birch Creek,	quality includes each of the listed creeks and rivers
		impacts to water so that cumulative		(except for Birch Creek and Little Buffalo River), as well
		impacts elsewhere in the basin can be		as wetlands and the coastal fringe of Great Slave Lake.
		accounted for. A basin-wide approach	Lake in the regional study area.	The extent of this proposed LSA is anticipated to be
		also allows for comparative monitoring		appropriate (and large enough) to capture direct and
		of undisturbed parts of the basins (i.e.		indirect Project effects on surface water flows and levels
		upstream of the Project) vs. disturbed		resulting from the Project. Birch Creek, as well as a 2 km
		parts of the basin (i.e. areas directly		extension of the LSA into Great Slave Lake and upstream
		impacted by Project disturbances).		extensions of the LSA to the Paulette Creek, Twin Creek,
		Including wetlands in the regional study		the Buffalo River watersheds are included in the RSA.
		area, many of which are not inside the		PPML considers the proposed RSA is appropriate to
		delineated basins of the creeks and rivers		capture the maximum potential effects from the Project.
		of the study area, is important in order to		The Little Buffalo River is excluded from the LSA and
		assess impacts to these features (e.g.		RSA because it lies well outside the potential influence of
		impacts to wetland water level,		the Project and RFDs.
		connectivity and landscape wetness from		
		dewatering or site water management		
		practices).		
		Furthermore, as done in Section 4.2.2,		
		which specifies the minimum geographic		
		scope of assessment for fish and aquatic		
		life and habitat, the minimum geographic		
		scope of assessment of surface and		
		groundwater should likewise be		
		identified in Section 4.1.5.		
20	Section 4.1.6	The third bullet point in Section 4.1.6,	The GNWT recommends that the third	No concern with this change in wording
		subsection "Changes in vegetation",	bullet point under Changes to Vegetation	
		instructs the developer to describe	be re-worded to read "impacts on any	
	Page 26. Ecologically	project impacts on any rare plants and	rare plants and plants of traditional,	
		plants of traditional, cultural, or	cultural, ecological or economic	
	1 F	economic importance but doesn't specify		
		plants of ecological importance. An	*	
		example of plants of ecological		
		importance include plants/forage that are		
		critical to caribou diet.		
21	Section 4.1.6	On Page 26, bullet 4 under the	The GNWT recommends that the Board	PPML believes that this information should be provided
	Vegetation. Subsection -	subsection labelled "State of		by the GNWT. PPML has searched available public
	State of regeneration at	regeneration at past disturbed sites at		records, including the Land and Water Board's document

	past disturbed sites at	Pine Point mine property" states "	reclamation or remediation efforts at the	registry, and cannot find a fulsome description of the
	Pine Point mine	describe any known past reclamation or		results of the remediation and reclamation efforts
	property.' Page 26			undertaken in the past with respect to vegetation. Note that
	property: 1 age 20			there are Abandonment and Restoration Plans on the Land
		remediation activities that have focused		and Water Board document registry site (MV2006L2-
		on issues other than vegetation		0013) from 1987, 1992, and 2006. PPML has also had
		regeneration (for example, tailings		several calls with the GNWT requesting any relevant
		management). Hence it is important to	is to have the developer describe all of	information that they have in their files.
		specify which reclamation or	the reclamation or remediation efforts on	
		remediation efforts is being referred to.	the site then the section on revegetation	
			does not seem to be the logical place for	
			this request.	
22	4.1.6 Vegetation -	In the DAP, the developer refers to the	The GNWT recommends that in the	The terms brownfield and greenfield were used as high-
	definitions of		definitions of brownfield and greenfield,	level descriptors to distinguish areas of historic mining
	'brownfield"	a brownfield site, or as a brownfield site,	the developer clarify that "brownfield"	from areas of the Project where mining was not
		or in predominantly a brownfield area.		undertaken. These terms will be replaced in the DAR with
				more specific descriptors that recognize the regeneration
		The ToR requires the developer to		of disturbed areas, and that disturbed areas may also have
		provide clear definitions of "greenfield"		heritage resources.
		and "brownfield" with rationale for these		
		descriptions.	heavily influences assessments of	
			heritage resource potential and	
		The GNWT notes that baseline	subsequent recommendations. The	
		archaeological studies at the Pine Point	GNWT also recommends that the	
		mine sites have demonstrated that large	definition of "brownfield" should align	
		tracts of terrain within the historic mine	with heritage resource baseline studies	
		property (the "brownfield" site) are not	which have demonstrated that there are	
		previously disturbed; this has	intact landscapes within areas broadly	
		implications for archaeological	described as "brownfield" on the historic	
		recommendations.	mine property. These sites have potential	
			to contain archaeological sites. Areas	
			that have been modified through	
			cutlines, for example, still contain	
			significant tracts of undisturbed land	
			with archaeological potential.	
			The GNWT also recommends the	
			developer identify how much of the site	
			would be considered brownfield and how	

			much would be considered greenfield. If there is overlap between the two definitions, the developer should also indicate how much of the brownfield is not previously disturbed. The GNWT recognizes that there might not be a clear distinction between brownfield and greenfield sites in the area of the project. Where there might be a gradient of conditions at the site that do not necessarily fit into the definition of brownfield or greenfield, the GNWT recommends the proponent identify these, and describe them to the best of their abilities. If it is helpful, the GNWT	
			recommends the proponent create a	
22	0	The CNW/There is a second of the second of t	definition for these areas.	DDM
		The GNWT notes that the Hamlet of		PPML agrees that the community of Enterprise be
		Enterprise was not included in the list		included in the socio-economic assessment for the Project.
		of potentially affected communities,		Potential impacts will be screened, and baseline conditions
		whose existing municipal services and		will be described where a community has the potential to
		infrastructure could be impacted by the		experience relevant Project effects, such as those identified in this comment.
			Subsection 'Existing Environment and Baseline Conditions'). The bullet should	identified in this comment.
		,	read 'status and capacity of existing	
		to the highway, it is important for the	services and infrastructure within	
		developer to assess the impacts of the	potentially affected communities	
		project on the status and capacity of	(including the Hamlet of Enterprise, Hay	
		existing services and infrastructure in the		
		community.	Resolution, and Fort Smith).	
24			The GNWT recommends that the Board	PPML agrees with these additions.
		assess the impact of the project on	require the developer to assess, in all	
		municipal services such as water and	potentially affected municipalities, the	
		sewer, and emergency response services		
			a. the status and capacity of solid waste	
		fire protection), and emergency services	services and recreational facilities.	
		on the highway.	b. community government human	
			resource capacity.	

25	4.2.12 Social and Community Conditions	However, the draft TOR does not require the developer to assess the impact of the project on:; solid waste services and recreational facilities. Potentially affected communities are responsible for the continued delivering of these services and maintaining infrastructure through their available funding. Hence, any additional demand for these services has potential implications for human resources and their finances. The ToR should also require the developer to assess the impacts of the project on community government human resource capacity, the provision of municipal services and the maintenance of municipal infrastructure. The GNWT notes that the ToR makes numerous references to safety as well as potential social, community, and economic impacts to women, Indigenous Peoples, youth, Elders, LGBTQ+ and two spirited people, and vulnerable groups. The GNWT is supportive of this inclusion. Through EA, the GNWT supports 'Calls to Justice' 13.1 and 13.2; through review of the ToR, the GNWT believes that it supports the 'Calls for	The GNWT encourages the developer, the Board, and all parties to review and consider the 'Calls to Justice' relevant to extractive and development industries.	PPML agrees to review and consider the Calls to Justice.
		Justice'.		
	4.2.13 - Economy and Employment. In subsection - 'Effects on the economy and employment'. Page 51	or agreements that aim to maximize benefits". Many initiatives and agreements are	The GNWT recommends replacing the original bullet with this suggested bullet: 1) "any current or forthcoming socio-economic initiatives or agreements, including a socio-economic agreement with the GNWT, that aim to maximize	PPML agrees with the majority of the proposed edit, with the exception of the words "or forthcoming". This section is intended to describe the agreements and initiatives that PPML will be a party to and participating in to maximize benefits. Forthcoming agreements and initiatives that PPML is not yet aware of cannot be included here, as they are currently unknown and thus do not have formal

	1		I	
		much as they can, while noting that		
		many of those agreements will be		
		confidential.		
		In Table 4-8 of the Developer's		
		Assessment Proposal, the developer		
		stated that "PPML will collaborate with		
		the government to track socio-economic		
		trends in the region and in communities,		
		and will track, internally, appropriate		
		indicators with the purview of a		
		developer as defined by the forthcoming		
		Socio-economic Agreement between		
		PPML and the GNWT."		
		The GNWT would like this to include		
		forthcoming efforts so that not only		
		existing initiatives and agreements are		
		taken into consideration.		
27	Section 4.2.4, Impacts	The draft Terms of Reference direct the	The GNWT recommends the	We agree that the word "smell" can be replaced with
27	from the Project on	developer to describe the effects sensory		"odour".
	Moose and Furbearers,	disturbances, including smells, may have		odoui .
	Other Wildlife and	on moose, furbearers, wildlife and	die se ventil sub bullet on page 3 1.	
	Wildlife Habitat. Page	wildlife habitat valued components. The		
	34. Terminology	word "smells" is not a typical		
	31. Terminology	terminology used in air quality		
28	Section 4.2.4, Moose,	The draft Terms of Reference includes	The GNWT recommends the rewording	As the GNWT sees the need for a population survey for
	Furbearers and Other		<u> </u>	moose and caribou, we agree that the point of
	Wildlife. Page 34.	population survey for moose is	"working with GNWT to determine if a	collaboration between GNWT-ENR and PPML is on the
	indirect age 5	appropriate for the project area".		logistics and approach to the survey, and not on the need
		GNWT's comment on the Developer's		for a survey. As such, we agree with the change to the
				wording for the bullet on page 34. This also eliminates the
			survey of moose and caribou in the study	
		in the TOR include a population estimate		
		for the caribou and moose in the Pine	need for the last bullet in this section	
		Point area. PPML should work with	"Population estimates of moose and	
		ENR to conduct a survey to determine	caribou in the Project area should be	
		how many boreal caribou and moose	discussed with GNWT."	
		occur within the project area." This		
		clearly identifies that the GNWT sees a		

	1		ı	
		need for a population survey of moose in		
		the project area in order to assess the		
		impacts of this project and that the point		
		of collaboration/cooperation between		
		ENR and the developer is on the logistics	3	
		and approach to the survey and not on		
		the need for the survey.		
29	Section 4.2.4. Moose,	GNWT has identified several	The GNWT has confirmed that although	PPML agree with the proposed wording change
	Furbearers and other	inconsistent references to the Human and	PPML has committed to carry out the	
	wildlife. Subsection &		HHERA, this exercise has not yet been	
	Section 4.2.5 Boreal	(HHERA) in the draft ToR. For example,		
	Caribou - Subsection -	on page 34 of the ToR, bullet 5 states	recommends that references to the	
	Existing Environment		HHERA in the document state "the	
	and baseline conditions.'	traditionally harvested food species	proposed HHERA."	
		should be ascertained and linked		
		appropriately to the Human Health and		
		Ecological Risk Assessment that was		
		undertaken." Four bullets from the		
		bottom of the same page, the document		
		states "possible changes to contaminant		
		concentrations (as per the proposed		
		Human and Ecological Health Risk		
		Assessment). [emphasis added]		
		Reference is also made to the HHERA		
		on page 36 in an inconsistent manner.		
		Based on the text of the ToR, it is		
		unclear whether the HHERA has already		
		being conducted or whether it is yet to be		
		carried out. Could the Board clarify what		
		the exact status of the HHERA is?		
30	Section 4.2.5, Existing		The GNWT recommends the rewording	PPML agrees with the new wording for this paragraph.
	Environment and	contains this paragraph "The DAR will	of the paragraph as follows: "The DAR	a 1 1.112 agrees with the new worthing for this paragraph.
	Baseline Conditions	provide the best information available	will use the best information available,	
	(Boreal Caribou). Page	from the Government of Northwest	including data and reports from the	
	35.	Territories (GNWT) Environment and	Government of Northwest Territories	
	55.	Natural Resources (ENR) Branch	(GNWT) Department of Environment	
			and Natural Resources (ENR), to	
			characterize population size, habitat	
		Consideration and mention will be given	mentes and trends for doreal carribou at	

			T	
			the following spatial scales: 1) the NT1	
			range (using the ECCC threshold), 2) the	
			southern NWT planning region	
			identified in the GNWT's Framework	
			for Boreal Caribou Range Planning	
		NWT Range Plan, the area east of Hay	(using the region specific threshold	
		River and south of Great Slave Lake (as	identified in that plan) 3) the area east of	
		described in the developer's proposed	the Hay River and south of Great Slave	
		RSA), and incorporating detailed collar	Lake as proposed by PPML as the	
			Regional Study Area, 4) the range of the	
			local Pine Point caribou corresponding	
			to a minimum convex polygon or kernel	
			density contour (subject to further	
			discussion with ENR) around the Pine	
			Point collar locations and 5) the	
			proposed LSA. This information will	
			provide the basis for both the residual	
		_	effects analysis and the cumulative	
			effects analysis. Data from a population	
			survey in the Pine Point area, consistent	
			with the methods used by ENR in	
			previous surveys, should also be used.	
			The developer should work with and	
			consult Indigenous knowledge holders	
			on other survey approaches that may	
			support baseline work.	
31	Section 4.2.5, Boreal			PPML agrees that the second bullet on page 36 can use the
	Caribou. Subsection -			wording recommended by GNWT and that bullet #10 on
		scales decided in consultation with		page 36 can be removed.
	\mathcal{C}	ECCC and GNWT-ENR, likely at the	scales including: 1) the NT1 range	page 50 can be removed.
			(using the ECCC threshold), 2) the	
	conditions. Tage 33-30.		southern NWT planning region	
		Point herd population-level". This	identified in the GNWT's Framework	
		description of the spatial scales is not	for Boreal Caribou Range Planning	
		consistent with that in the preamble to	(using the region specific threshold	
			identified in that plan) 3) the area east of	
			the Hay River and south of Great Slave	
			Lake as proposed by PPML as the	
			Regional Study Area, 4) the range of the	
			integronal Study Area, 4) the range of the	

			local Pine Point caribou corresponding to a minimum convex polygon or kernel density contour (subject to further discussion with ENR) around the Pine Point collar locations and 5) the proposed Local Study Area. This information will provide the basis for both the residual effects analysis and the cumulative effects analysis." The GNWT also recommends the removal of bullet # 10 on this list on page 36 of this section.	
32	Environment and Baseline Conditions (Boreal Caribou). Page 35-36.	Baseline information for boreal caribou should include information about how collared caribou are using regenerated sites of different ages. This will provide a basis for understanding restoration and closure objectives and cumulative effects.	a bullet on page 36 indicating that the Developer's Assessment Report should: "Within the Local Study Area, link the	PPML will collect additional baseline data that will inform on the regeneration state of previously disturbed areas at the historic Pine Point mine. Collared caribou use of previously disturbed areas will be provided within the assessment.
	Environment and Baseline Conditions (Boreal Caribou). Pages 35-36.	The last bullet point in Section 4.2.5, subsection "Existing environment and baseline conditions", instructs the developer to "consider the effects of"(emphasis added). This wording choice does not clearly indicate the need to fulfill the requirements identified in the bullet point, which are important to the cumulative effects assessment for caribou.	The GNWT recommends that the word "consider" be replaced with "include". The bullet point would read as "include the effects of past activities on caribou, changing climate"	PPML agrees that the word "consider" can be replaced by "include".
34	'Indigenous Land use' - Subsection 'Existing conditions and baseline conditions'	the region, including" It is unclear	prerogative of the Board. The GNWT requests that the Board clarify the scope of its request (i.e. how far back in time does the developer need to go) regarding information on past traditional activities	PPML believes that Indigenous Peoples should have the opportunity to define the temporal extent of their past activities on the land through community-led Indigenous Knowledge studies, and does not feel that a single date is required or applicable for all groups, specifically with reference to past Indigenous use of the land and its resources.

	-	b: p: : : : : : : : : : : : : : : : : :	T	
		Pine Point mine) or pre development of		
		the mine (i.e. earlier than the 1960s)?		
35	Section 4.2.8	The fourth bullet on Page 41 requires		PPML agrees with this request for clarification.
			TOR what it expects of the developer	
	Subsection - Existing		with respect to the impacts of climate	
		harvesting" Should this read " how	change on Indigenous harvesting. Is the	
	conditions.' Page 41	climate change has already impacted	Board requesting that the developer	
	Subsection -'Effects on	traditional harvesting on the local study	predict how climate change, interacting	
	Indigenous Land Use.'	area"? On Page 42, the fifth bullet from	with the effects of the project, is likely to	
	Page 42	the bottom requires the developer to	impact traditional harvesting?	
		assess the "impacts of climate change on		
		Indigenous harvesting and land use (for		
		example, ice conditions, weather		
		predictability, or wildlife distribution and		
		availability)". It is not clear if that means		
		the developer should assess the impacts		
		of the project on climate change and then		
		the impact of climate change on		
		Indigenous land use or something		
		different.		
36	4.3.2 - 'Lasting Well-	There are no questions regarding the	The GNWT recommends the inclusion	PPML agrees with this addition.
	being'. Subsection -	mine's contractors/sub-contractors in the	of this additional question: "Will the	
	'Supporting Questions'	'key questions' or 'supporting questions'	project improve on the capacity of local	
		sections. Contractors/sub-contractors	businesses, providing goods and services	
		may represent a tremendous amount of	to the mine and for similar future work?"	
		the economic benefits available from the	so that local businesses are addressed at	
		project.	a systems level (4.3)	
37	Section 4.3.2 'Lasting	The second bullet from the bottom of	The GNWT recommends that the Board	PPML suggests that the "effects of past developments"
	Well-being'. Subsection	Page 59 (key questions on well-being to	consider revising the question in the	would be captured in the discussion of existing conditions
	- 'Key Questions'. Page	be answered in the DAR) reads -"How	bullet to read "How will this project act	(e.g., how past development influenced labour force
	59	will this project act cumulatively with	cumulatively with the effects of past	conditions today), which is what the Project's effects are
		other projects in the area to affect social,	developments and other projects in the	assessed against. Given this, PPML does not feel an edit to
		health, cultural, and economic	area to affect social, health, cultural, and	this bullet is required.
		conditions?" The GNWT believes that it	economic conditions?	-
		is important to also consider how the		
		effects of the project will interact		
		cumulatively with effects of past		
		developments, to affect social, health,		
1		cultural, and economic conditions.		

38	Section 5.2. 'Presentation of Material.' Page 63.	Section 5.2 identifies the Developers Assessment Report submission requirements, such as printed copies upon request and electronic documents in PDF format. The GNWT notes that any raw data included to support the Developer's Assessment Report should also be submitted in useable (i.e. unsecured) excel format to enable reviewers to conduct their own assessments, confirm the developer's conclusions, and any other relevant analysis.	submitted in a useable excel format.	PPML prefers that this not be included in the TOR. In general, PPML is amenable to providing raw data in an electronic format when requested; however, PPML would prefer to not be tied to a blanket requirement for all data. For example, PPML may receive and use data from other parties that may be unwilling to share publicly.
39	Section 5.6, Potential Accidents and Malfunctions, page 65	The proposed project area is a previously developed site that has a long history of	bullet in Section 5.6 is edited to state: Conduct a risk assessment using best practices for the project including	PPML agrees with GNWT that the risk assessment for accidents and malfunctions consider the current state of the site, which includes the historic Pine Point mine site.
40	Section 5.8, 'Monitoring, Evaluation, and Follow-Up.' Page 67.	In the second bullet of Section 5.8, the developer is asked to "describe how the project-specific monitoring will be compatible with the NWT Cumulative Impacts Monitoring Program or any other regional monitoring and research programs." However, this wording is slightly misleading. The NWT Cumulative Impacts Monitoring Program	The GNWT recommends that the bullet is re-worded as follows: "describe how the project-specific monitoring will be compatible with any regional monitoring and research programs".	PPML agrees with the proposed change.

		(NWT CIMP) is one source of monitoring and need not be singled out. NWT CIMP is able to provide advice and information regarding monitoring and research programs in the region. We encourage the developer to contact NWT CIMP for further information.		
41	[object Object]		The GNWT recommends that the Board clarify what it means by "slow low onset events".	PPML agrees with the GNWT's request for clarity on this phrase.
		Reviewer Comment	Reviewer Recommendation	Proponent Response
	leeche First Nation (KFN)		L	
	Letter from Katl'odeeche First Nation	Letter from KFN	Letter from KFN	No resonse required
No	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
	oint Mining Limited - Oz			
		Noise data from previous baseline surveys in the area are available and could be used to establish/characterize "current ambient noise levels".	The proponent should be allowed to make a case for why existing baseline data are still valid/representative, rather than being automatically required to collect new baseline noise data.	No response required
	Vibration: "providepermissible noise levels for each receptor"	There are no regulatory noise limits applicable to wildlife. As such, "permissible noise levels" at receptors can only be established with reference to regulatory guidance on human disturbance/annoyance. Light levels are typically measured and	Potential noise effects to wildlife should be assessed holistically within the wildlife section(s) of the DAR. The requirement to characterize light	No response required No response required
		assessed under dark skies. Given the	effects for "different seasons" should be	no response required

		high latitude of the Project site, it will be challenging to characterize night-time light levels during the summer season (when the night sky will not be very dark).	relaxed and the light assessment should focus on periods of time when the night sky is dark.	
4	Components: "Surface and ground water quality and quantity and the use of water by people Indigenous land use other land uses"	Surface and groundwater quality and quantity are distinct VCs that feed into the discussion of human uses of water, which are influenced by other factors. The assessment of impacts on Indigenous and other uses of the land combines the results of other discipline assessments to create a picture of how effects to the environment impact people.	PPML recommends that the use of water by people be a component of the Indigenous and other land use assessments, as the discussion of human use may be influenced by topics other than surface and ground water quality and quantity. PPML recommends that the VCs in question be revised to read: -groundwater quantity and quality -surface water quantity and quality -Indigenous land and water uses -other land and water uses	No response required
5	water by people. Existing environment and baseline conditions	Per the recommendation in Section 2.2.1, the use of water by people is not solely a discussion linked to surface and ground water quality and quantity. These are distinct considerations.		No response required
6	water by people. Impacts from the Project on the use of water by people:	Per the recommendation in Section 2.2.1 the use of water by people is not solely a discussion linked to surface and ground water quality and quantity. These are distinct considerations.		No response required
7	Section 4.2.8 Effects on Indigenous Land Use: "overall impacts on Indigenous Peoples' ability to practice Treaty Rights"	The interpretation of Treaty Rights is important and complex, but is not likely effectively evaluated by any one developer through a regulatory process. PPML does not feel that the assessment of Indigenous Rights, including Treaty Rights, should be undertaken by the	PPML recommends that this bullet be removed from the TOR.	No response required

	T	I	T	
		developer, and that this is best evaluated		
		by Indigenous Peoples themselves.		
		Consistent with the requests of other		
		Indigenous groups commenting on the		
		TOR (e.g., DKFN 29), PPML requests		
		that this requirement be removed from		
		the TOR. Specifically, PPML requests		
		that the bullet "overall impacts on		
		Indigenous Peoples' ability to practice		
		Treaty Rights" be removed from Section		
		4.2.8.		
8	Section 4.2.9 Other	Tourism, outfitting, and similar	PPML recommends that this bullet be	No response required
	Land Uses: "revenue		revised to read "tourism, outfitting, or	
	from tourism, outfitting,	aurora viewing, guiding) are often	similar commercial activities".	
	or similar activities"	operated by small companies or		
		individual operators. Requesting baseline		
		information on the revenue that these		
		small operates obtain from their business		
		is inappropriate, and such information		
		could not ethically be reported on in a		
		public document.		
9	Section 4.2.12 Social	This bullet is limiting as written, and	PPML recommends that this bullet and	No response required
	and Community	could be reworded to use a determinants	sub-bullet be reworded to read "social	
	Conditions: bullet	of health approach.	and Indigenous determinants of health".	
	"social indicators of			
	quality of life" (entire			
	bullet and sub-bullet)			
	Section 4.2.12 Social	The psychological response to social and	PPML recommends that this bullet be	No response required
	and Community	physical environments is a highly	removed from the TOR as it is not	
	Conditions: bullet "the	individual experience, and is not	appropriate for the purview of a	
	relationship between	effectively discussed through the lens of	regulatory filing.	
	psychology and on	a regulatory application. Soliciting	_	
	community" (entire	information about such individual		
	bullet)	conditions such as psychology, and		
		reporting on it in a public regulatory		
		application, is likely neither appropriate		
		nor ethical.		

11	Conditions: bullet "any social impacts of income inequity and uneven distribution of benefits within families nd communities"	the Project has not been selected. Further, it is not possible at this stage to accurately assess how benefits are distributed within an individual family.	reworded to omit the words "within families".	No response required
12	and Community Conditions: bullet "any emotional or stress factor"	The emotional response to changes in daily activities is a highly individual experience, and is not effectively discussed through the lens of a regulatory application. Soliciting information about such individual conditions, and reporting on it in a public regulatory application, is likely neither appropriate nor ethical.	PPML recommends that this bullet be reworded to omit the words "emotional or".	No response required
13	and Community Conditions: bullet "any need for government or the developer expenditure for new or	as part of their mandate to provide services to the population.	reworded to read "any need for new or expanded services, facilities, and infrastructure as a result of project-related impacts".	No response required
14	and Employment. Effects on the economy and employment "the developer will assess the potential economic effects of the project on each potentially-affected community and population"	It is not always possible to accurately predict how individual communities will respond to economic opportunities. While data can be presented at a community level to characterize a labour market and business base, it is unknown how the community will/can respond. Further, many efforts by the developer to target communities most impacted by the Project for benefits such as employment and contracting are broad, applying to	assess the potential economic effects of the project on potentially-affected communities".	No response required

	ı	T	T	
		multiple communities. The wording as		
		presented here suggests a separate		
		economic assessment for each individual		
		community. This is likely not effective		
		within the context of a regulatory		
		application.		
15		Many agreements between the developer		No response required
		and communities or other groups are	reworded to read "any non-confidential	
	"any socio-economic		socio-economic initiatives or agreements	
		be reported in a public document.	that aim to maximize benefits".	
	that aim to maximize			
	benefits"			
16		The incremental net economic benefit of		No response required
	and Employment. Bullet	any one project to the Canadian	reworded to read "how the project would	
		economy is extraordinarily small relative		
	affect gross domestic		federal and territorial levels."	
	product at the federal	suggested that there is little utility in this		
	and territorial levels, as	national macroeconomic discussion for		
		an individual mining project of modest		
	benefits to the Canadian	size.		
	economy"			
17	Section 4.2.13 Economy		PPML recommends that this section be	No response required
	and Employment.	bullets represent operational practices	removed from the TOR, as it is not	
	Section beginning with	that may be taken by a developer. They	appropriate to prescribe operational	
	"The Review Board	are not guidance on how to conduct the	practices in a regulatory TOR. Rather,	
	supports the GNWT's	DAR. Operational practices to enhance	this section could read "identify	
	suggested approaches to	the capacity of the labour force will be	mitigation and benefit enhancement	
	enhance" and	addressed in the social management plan		
	subsequent 14 bullets.	prepared for the Project, but to state that		
		the developer has to adopt these specific	capture and uptake of economic	
		measures or be considered non-	opportunities associated with the	
		compliant with the TOR is not	Project".	
		appropriate for a TOR for a regulatory		
		application. The need for mitigation and		
		benefit enhancement measures to address		
		the issue of local benefit capture can be		
		highlighted in a TOR, but it is not		
		appropriate to prescribe specific		
		measures at this stage.		

	This section goes beyond typical	PPML suggests this be renamed "Health	No response required
	measures of human health, extending	and Wellbeing"	
	into the realm of wellbeing.		
Section 4.2.14 Human		PPML recommends a review of Sections	No response required
	this section and Sections 4.2.8	4.2.8, 4.2.11, 4.2.12, 4.2.13, and 4.2.14	
	Indigenous Land Use; 4.2.11 Culture;	to identify areas of redundancy to avoid	
	4.2.12 Social and Community	repetition and confusion within the	
	Conditions; and 4.2.13 Economy and	DAR. PPML also suggests that this	
	Employment. This section includes much		
		focused in light of the fact that it appears	
	as the assessment conducted in Section	to be the holistic, integrated assessment	
	4.3.2 Lasting Wellbeing, and therefore	required in Section 4.3.2 of the TOR.	
	does not appear to be a discrete VC.		
	It is unclear why the qualifier	PPML recommends that this bullet be	No response required
Health. Effects to human		reworded to omit the word "(quantified)"	
1	of the discussion around mental health is		
	not quantifiable beyond reported rates		
mental health (for	(which are not typically reflective of the		
1 1 1	real extent of mental health issues).		
	Much of the discussion is qualitative.		
sense of safety)"			
	Range of conditions that could be		No response required
	present during the life of the Project	baseline conditions and basis for	
	from a climate perspective is neither	assessment to those conditions that have	
the future environmental	certain, nor appropriate for use in an	been measured. Anything else would be	
		speculative. The federal Strategic	
	speculative	Assessment of Climate Change	
and projections, in the		document does not address this scenario.	
developer's predictions			
of impacts.			
		PPML suggests that the TOR limit the	No response required
developer will describe		baseline conditions and basis for	
	1 2	assessment to those conditions that have	
predicted future	uncertainty of the scenarios and the	been measured. Anything else would be	
	1	speculative. The federal Strategic	
	makes this an unnecessary task.	Assessment of Climate Change	
for a range of climate		document does not address this scenario.	

	Ι		T	
	change scenarios, to			
	reflect uncertainties".			
23		There are discrepancies in the Project		No response required
		timelines in the draft TOR. This	"The project includes the open pit and	
		reference to timeline is not necessary	underground mining of zinc and lead	
	on the south side of	here in the third sentence of the	deposits along a 70 km stretch of land on	
	Great Slave Lake."	Introduction (Section 1).	the south side of Great Slave Lake."	
24	Section 1 Introduction:	PPML would like to clarify that, as per	PPML suggest this text in Section 1 be	No response required
	"more than 10 years of	Section 1.1.5 of the Project Description,	revised to state "approximately five	
	closure and reclamation	active closure and reclamation activities	years".	
	activities at the end of	are expected to take approximately 5		
	mine life."	years, followed by a 10 year period of		
		passive care.		
25	Section 1 Introduction:	Based on discussions with MVEIRB	PPML suggest that MVEIRB include	No response required
	"organize existing	staff, PPML's understanding is that the	this point within the TOR for clarity.	
		final TOR will be a list of requirements		
		for the DAR but the structure of the		
		DAR is up to PPML.		
	Proposal)"			
26		PPML notes that Subjects of Note are	PPML suggests that Subjects of Note be	No response required
			deleted from this section, or that the term	
		the TOR.	be used consistently throughout the	
	Subjects of Note."		TOR.	
27		Based on conversation with MVEIRB	PPML suggests that the TOR clearly	No response required
	Components: "valued	staff, PPML understands that	acknowledge that not all VCS should be	1 1
			assessed for significance.	
		VCs in Section 4.2 of the TOR and not	6	
		for VCs in Section 4.1.		
	economic, and cultural			
	impacts from the			
	Project"			
28		Based on discussions with MVEIRB	PPML suggests that "standalone" can	No response required
			mean that the sections can summarize	1 17
	1 0	even if these are considered standalone,	relevant information form other sections	
		/		
		references other sections.		
	inquiry."			
	of Inquiry: "stand- alone assessment to facilitate public evaluation for all identified key lines of	staff, it is PPML's understanding that even if these are considered standalone, they can be an overall summary that	mean that the sections can summarize	

29		PPML believes that "clean" is a		No response required
	of Inquiry: "managing	subjective statement and difficult to	"managing water so that it remains safe	
	water so that it remains	define in a way that would be the same	and available for use in the future".	
		for all groups.		
	lasting well-being"			
30	Section 2.3 Geographic	The Developer's Assessment Proposal	PPML suggests that Little Buffalo River	No response required
	Scope (spatial	stated that the LSA for the Project would		
	boundaries): " Little		the DAR for aquatic valued components	
	Buffalo River (with	or all, expected effects of the Project on	as it lies well upstream of where indirect	
	respect to impacts on	the VCs; therefore, the LSA for aquatic	or direct project effects are expected to	
	wildlife, water quality,		occur. PPML has included Birch Creek	
	fish, and land users).	listed creeks and rivers (except for Birch	within the RSA for aquatic components.	
	Birch Creek (with	Creek and Little Buffalo River), as well		
		as wetlands and the coastal fringe of		
	quality, fish, and land	Great Slave Lake. The extent of this		
	users)."	proposed LSA is anticipated to be		
		appropriate (and large enough) to capture		
		direct and indirect Project effects on		
		surface water flows and levels resulting		
		from the Project. Birch Creek, as well as		
		a 2 km extension of the LSA into Great		
		Slave Lake and upstream extensions of		
		the LSA to the Paulette Creek, Twin		
		Creek, the Buffalo River watersheds are		
		included in the RSA. PPML considers		
		the proposed RSA is appropriate to		
		capture the maximum potential effects		
		from the Project. The Little Buffalo		
		River is excluded from the LSA and		
		RSA because it lies well outside the		
		potential influence of the Project and		
		RFDs on aquatic components.		
31	Section 3.1 Describe	PPML would like to clarify that, as per	PPML suggest this text in Section 3.1 be	No response required
	baseline conditions and	Section 1.1.5 of the Project Description,	revised to state "with reclamation and	-
	the existing	active closure and reclamation activities	closure activities continuing for	
	environment. "with	are expected to take approximately 5	approximately five years".	
	reclamation activities	years, followed by a 10 year period of		
	continuing for 15 years	passive care.		

	(to 2052)			
	approximately."			
32		PPML questions the use of the "scale"	PPML suggests that "scale" be removed	No response required
	3		from the list of criteria in Section 3.2.	The state of the s
		by extent (i.e., geographic extent)? This		
		seems like a new criterion in the		
	the magnitude, direction,	classification; "scale" is also not used in		
		Appendix B.		
	likelihood, duration, and			
	scale of predicted			
	changes."			
33		Section 3.3 indicates that "The DAR will		No response required
		assess the potential impacts of the	TOR that the analysis and classification	
		proposed development to valued	is for residual effects only.	
		components based on the predicted		
		changes to the environment. This will		
		include a description of the magnitude,		
		direction, extent, timing, likelihood,		
		duration, and scale of impact." This		
		section implies that this assessment will		
		be completed prior to the identification		
		of applicable mitigation (in Section 3.4		
		of the draft TOR). PPML strongly		
		disgrees that the assessment of effects		
		should occur prior to the application of		
		mitigation. Based on standard EA		
		practices, the assessment and		
		classification is conducted only on residual effects.		
34			PPML suggests that this point be	No response required
			removed from the TOR or it is clarified	1 to response required
			that this will be done through a brief na	
	mitigation measures, and		rrative. The effectiveness of mitigations	
	where mitigations have		is incorporated into the residual affects	
	been implemented in a		assessment.	
	similar context"			
35		PPML's understanding is that the	PPML recommends that the third	No response required
	impacts holistically and	"systems thinking" referenced in Section	paragraph of Section 3.5 indicate that the	-

	systems thinking to integrate impacts of the whole development on	3.5 of the TOR is specific to the three key lines of inquiry in Section 4.3. PPML anticipates that these sections will be plain language summaries of relevant sections of the DAR pulled together into a cohesive story. These sections are expected to be fairly high level and include references to other sections for additional details. These sections are not		
		expected to include new or additional analyses.		
36	terrain, soils, and sediments within the local and regional study areas, including sediment stratigraphy.	Sediments and sediment stratigraphy as they relate to waterbodies are assessed by aquatics components and not terrestrial components.	Suggest that "sediments" and "sediment stratigraphy" is moved to water quality surface and groundwater quality and quantity section (4.1.5)	No response required
37	soil •how the geotechnical stability of all engineered structures, including site access roads will be ensured against a range of climate, seismic, and precipitation scenarios	PPML would like to clarify the following. These are standard design input parameters for engineered structures. All engineered structures will be designed by a P.Eng and will be stamped. At the EA stage, many of the designs are not fully completed and would completed in the lead up to construction either during the permitting phase or post-permitting depending on when the structure is required to be constructed. This level of information may be addressed qualitatively at the level appropriate to the level of engineering at the EA stage.		No response required
38	soil •how the	PPML would like to clarify the following. These are standard design input parameters for engineered structures. All engineered structures will be designed by a P.Eng and will be	PPML suggests that the TOR indicate that this will be done through a qualitative approach.	No response required

	T	T	T	
		stamped. At the EA stage, many of the		
		designs are not fully completed and		
		would completed in the lead up to		
		construction either during the permitting		
		phase or post-permitting depending on		
	over what extent of time	when the structure is required to be		
		constructed. Engineered designs would		
		be submitted to the board prior to		
		construction for approval. The		
		information would be developed to a		
		sufficient level required for the		
		assessment of effects for the EA.		
39		PPML would like to clarify that the	PPML recommends that this bullet be	No response required
		terrain and soils section will consider	reworded to reflect this distinction.	- · · · · · · · · · · · · · · · · · · ·
	2 23	results from the hydrogeology/surface		
		water sections to evaluate changes to		
		terrain and soils, but the analysis will not		
		be completed here.		
	interactions with surface	be completed here.		
	water, as this is an			
	important consideration			
	in this environmental			
	assessment.			
40		There is some redundancy in the DAR	PPML suggest blending these bullets to	No response required
40		requirements in this bullet and in the	state, "provide all water quality	No response required
		following 4th bullet. The water quality	requirements for groundwater and	
			surface water quality and quantity that	
		guided by the "applicable guidelines,	will need to be met, or that the developer	
		objectives or standards for water	is proposing to meet, in the local and	
		consumption use, aesthetics, recreational		
	\mathcal{E}	or other."	development, which will form the basis	
	areas during all phases		to compare Project-related changes"	
4.1	of development	DD (1 1 1 1 1 1 1	DDM (1 1111 / 1 10 (1 10 11	NY 1
41		PPML recognizes that much of the		No response required
			section in the DAR, a high-level	
		Tailored Impact Statement Guidelines	summary will be provided based on	
		Template for Designated Projects	information that is available, but much of	
		Subject to the Impact Assessment Act	this information will not be available in	
	temporal scales, which	and the Nuclear Safety and Control Act.	detail.	

	effects to population persistence and ecological processes	Much of this information will not be available for the Project area as it has not been heavily researched compared to southern areas in Canada. Collection of baseline information to this level is beyond the scope of baseline studies to be conducted by a single proponent for an EA.		
	aquatic life: • describe fish present in the project areas. Include a description of: seasonal and annual trends in abundance	Abundance data for fish are not available for the Project area and baseline sampling has been focused on presence/absence and not quantitative estimates of abundance. Quantitative estimates of abundance are beyond the scope of a baseline study to support an EA.	PPML suggests that the requirement for seasonal and annual trends in abundance be removed form the TOR.	No response required
	Effects Assessment: " For each predicted	This section starts off with "for each predicted impact" which is confusing with the context for the rest of the paragraph.	PPML suggest removing "for each predicted impact" from the start of the paragrpah.	No response required
44	Effects Assessment:	PPML does not plan to assess significance for all VCs. Also PPML suggests that significance be determined for the RFD Case.	PPML suggest that the wording be adjsuted to reflect these points.	No response required
45	Section 4.1 Predicted Changes to the Environment	Based on discusion with MVEIRB staff, it is PPML's understanding that VCs listed in Section 4.1 of the draft TOR do not need to be assessed for significance.	PPML suggested that the TOR reflect this point.	No response required

46		PPML believes that modelling of		No response required
			past, present, and predicted future	
		climate change is beyond the scope of an	changes to regional vegetation to a	
	vegetation in the area in	assessment for a mine, as it would	scientific studies/literature review and	
	the past, at present and	involve considerable work and high	summary. PPML suggests that the TOR	
		levels of uncertainty and is above and	be reworded to suggest this.	
		beyond what is required for an effects		
		assessment by a proponent.		
47	Section 4.1.1	PPML disagrees that regional air quality	PPML recommends that "regional air	No response required
		modelling should be conducted by a	quality modelling" be removed from the	
	environment: predict the	single proponent. Regional air quality	TOR.	
	fate of emissions	modelling is considerable effort and		
	resulting from all project	should be conducted through a regional		
	sources for emissions	approach and not by a single proponent.		
	using atmospheric	PPML believes this is beyond the scope		
	dispersion and regional	of an EA.		
	air quality modelling			
48		PPML disagrees that surface water and	PPML suggests that surface water and	No response required
	and groundwater quality	groundwater be included as one valued	groundwater be discrete valued	
	and quantity: Because of	component. PPML understands the	components. The results of their	
	this connectivity, the	interconnection between the surface and	assessments (changes to their	
	Review Board believes	groundwater; however, they would have	measurement indicators) will be linked	
	that it is appropriate and	different measurement indicators and	and inform each other, as well as for the	
	necessary to consider the	would have different analysis and	assessment of other valued components	
	surface and groundwater	assessment methods.	and KLOIs in the DAR.	
	system as a single			
	valued component in			
	this assessment			
49	Section 4.1.5 Surface	The TOR implies that surface water and	No change is necessary as PPML prefer	No response required
	and groundwater quality	groundwater are separate valued	that surface water and groundwater be	
	and quantity: The	components.	considered as separate valued	
	impacts of changes to		components in the DAR.	
	groundwater and surface			
	water quality and			
	quantity on each of these			
	valued parts of the			
	environment			

50	Section 4.1.5 Surface and groundwater quality and quantity: provide baseline data for physicochemical parameters and relevant chemical constituents for surface water and		PPML suggest the removal of "surface water and" from this bullet.	No response required
	groundwater			
51	Section 4.1.5 Surface and groundwater quality and quantity: stage hydrographs for lakes, including Great Slave Lake, that might be affected by the Project showing the full range of seasonal and interannual water level variations	freshwater to be drawn from any freshwater resource, which may include Great Slave Lake, by the Project for the	PPML suggest the removal of ", including Great Slave Lake," from this bullet, and replace with "lakes within the LSA that subsequently drain to Great Slave Lake".	No response required.
52	4.1.5 Surface and groundwater quality and quantity: within the limits of available data, describe impacts of historical mining or stresses on local and	PPML is of the opinion that this requirement will be limited to a qualitative evaluation, due to the limited	historical mining"	No response required
53	Section 4.1.5 Surface and groundwater quality and quantity: predicted changes caused by project activities to surface water and	being required to model physico-	PPML suggest the removal of "physicochemical parameters and" from the bullet.	No response required

	physicochemical parameters and chemical constituents	modelling deemed appropriate for the DAR. The complexity of the modelling would be expected to increase the uncertainity in their model projections. Surface water and groundwater models that are proposed for the DAR, which are		
		consistent with those used in other northern EAs, will therefore focus on		
		chemical constituents.		
	and groundwater quality and quantity: describe proposed programs for characterizing future surface water and groundwater quality	Assessment Proposal, PPML planned to provide a conceptual Aquatic Effects Monitoring Program, but did not plan on preparing a conceptual Groundwater Management Plan to support the DAR. For both surface water and groundwater, the specific locations and detailed	described conceptually based on the level of detail that is available,	No response required
l l	Section 4.1.5 Surface	PPML is concerned that this requirement	PPML suggest that the text be revised to	No response required
			emphasise the requirement for only a	
		conditions within the water management		
	1		effects from upset conditions with respect to water management to surface	
		additional modelling effort that would be		
		developed from broad-based	 	
	unexpectedly high	assumptions with potentially high		
		uncertainties. PPMLs preference is to		
	rates into operational	address this requirement through		
		qualitative assessments, and within the Accidents and Malfunctions section.		
56	Section 4.1.6	The typical process would be to map and	PPMI suggests that the word	No response required
		describe anthropogenic disturbance to	"quantification" be removed from the	
	levels of anthropogenic	quantify with area summaries and	TOR.	

	1 1 1 1 1 1	1 11 11 11 11 11 11 11	T	
	and natural disturbance	describe distribution of fragmentation		
		qualitatively. Quantitative assessment		
	other ecological	such as Fragstats adds very limited		
	communities, including	value.		
	a description and			
	quantification of the			
	current extent of			
57		Wetlands will be described according to		No response required
	Vegetation: •wetlands	the Canadian Wetland Classification	TOR be adjusted.	
	potentially affected by	System which includes bog		
	the Project (including	(muskeg/peatlands), fens		
	muskeg, fens, marshes,	(muskeg/peatlands), swamps, marshes		
	peat lands, bogs)	and shallow open water wetland types.		
58	Section 4.2 Assessing	Based on discussions with MVEIRB	PPML suggests that MVEIRB clarify	No response required
	impacts to individual	staff, it is PPML's understanding that the		
		VCs listed in Section 4.2 will be		
	1	assessed for significance but not those in		
		Section 4.1.		
59	Section 4.2.3 Birds and	PPML plans to use existing information	PPML suggest that the text be revised to	No response required
	their habitat: •		include "based on data from existing	
	provide	requirement.	sources" to this bullet.	
	estimates of the			
	abundance and			
	distribution, and			
	information on the life			
	history of migratory and			
	non-migratory birds			
60		PPML plans to use existing data to	PPML suggest that the text be revised to	No response required
		support this requirement.	include "based on data from existing	a to response required
	provide maps	support and requirement.	sources" to this bullet.	
	showing areas of highest		boarses to this ounce.	
	concentrations of species			
	and identify areas of			
	concentration of			
	migratory birds,			
	including sites used for			
	migration, staging,			
	migration, staging,			

	1 1 0 1 1	T	T	
	breeding, feeding, and			
	resting			
61		PPML notes that the ability to harvest for		No response required
	Furbearers and other	traditional use is listed under Section	whether this bullet should be moved.	
	wildlife: impacts to	4.2.4 of the TOR (Moose, Furbearers and		
	moose and other	other wildlife). PPML, however,		
	furbearers of importance	understand that the TOR does not		
		prescribe the overall document structure		
		of the DAR. PPML plans to assess		
		harvesting in the Indigeneous Land Use		
		section.		
	(4.2.8)			
62	,	The draft TOR says above "explore with	PPML suggest adding an "if collected"	No response required
-		ECCC and Parks Canada the potential	to the bullet.	
		for additional surveys that", but then		
		says that "the developer will show how it		
		has used this new data". PPML		
		suggests that this presupposes the		
		outcome of the discussion.		
	evaluation of Project and			
	project component siting			
	decisions and impact			
	predictions			
63	*	As disussed with MVEIRB staff, PPML	DDMI suggests that this algorification ha	No response required
03			PPML suggests that this clarification be considered.	No response required
		anticipates that the key line of inquiry	considered.	
		sections will be plain language		
		summaries of relevant sections of the		
		DAR pulled together into a cohesive		
		story. These sections are expected to be		
		fairly high level and include references		
		to other sections for additional details.		
		These sections are not expected to		
		include new or additional analyses.		
64				No response required
		used as it is a subjective term.	word "clean".	
	clean for the future:			
	•Will water around the			
	mine (that is, the local			

	T		I	1
	and regional study areas)			
	be safe and clean for			
	people, fish, aquatic life,			
	and wildlife during all			
	project stages?			
65		PPML disagrees that the" commitments"	PPML suggests that this be removed	No response required
		in the EA Inititation Package should be	from the TOR.	
		tabulated. These commitments will be		
	1	superseded by the DAR and this is extra		
		effort that is not required.		
	DAR of all	crioit that is not required.		
	commitments and			
	mitigation measures			
	made during early			
	engagement and in the			
	Developer's Assessment			
	Proposal.			
66		PPML recommends that this wording be		No response required
			adjusted for the developer to discuss the	
	Malfunctions: the	effects on VCs from an accident or	potential effects of the accident and	
	developer will first	malfunction.	malfunction scenario on VCs.	
	discuss impacts in			
	relation to valued			
	components from an			
	accident or malfunctions			
	as though it has			
	happened			
67	Section 5.7 Effects of	"best" is not appropriate wording.	PPML suggests that the wording be	No response required
	the Environment on the	Transfer and the second	changed from "best" to "currently	
	Project: •describe		available".	
	climate change scenarios			
	considering current			
	trends and International			
	Panel on Climate			
	Change best climate			
	predictions			
68	u	PPML agrees with the inclusion of a	PPML suggests that to reduce	No response required
00		description of proposed monitoring	redundancy and to focus the efforts for	a to response required
	evanuation, and follow-	acsemption of proposed monitoring	redundancy and to focus the efforts for	

	include a section that summarizes proposed follow-up, monitoring and adaptive management plans and programs.	associated with the Project. However, PPML believes that it should be included in the discipline sections so that it is directly tied to the residual effects analysis and uncertainty sections. Having it in another section as well increases effort, redundancy, and volume of the DAR.	section.	
	collaboration work done by PPML has helped focus the analysis of impacts from the Project on the issues that matter most to Indigenous governments and organizations, and potentially affected communities.	EA Initiation Package has helped focus the issues and narrow the DAR. Instead it seems to have expanded the issues and resulting TOR.	PPML suggests that MVEIRB reconsider whether the conclusion should be reworded.	
70	Assessment Methodology: 4. identify potential interactions of the Project with valued components and any potential direct and	Similar to Section 3.3, this section indicates that the effects are assessed and classified before mitigation. PPML strongly disgrees that the assessment of effects should occur prior to the application of mitigation. Based on standard EA practices, the assessment and classification is conducted only on residual effects.		No response required
71	Appendix B: Assessment Methodology. (d) "The developer will also include a separate cumulative effects section that provides a	PPML agrees with the inclusion of cumulative effects within the DAR. However, PPML believes that cumulative effects should be included in the discipline sections (i.e., in the RFD Case). Having it in another section as well increases effort, redundancy, and volume of the DAR.	PPML suggests that to reduce redundancy and to focus the efforts for the DAR, the TOR not include the requirement for a standalone cumulative effects section.	No response required

predicted cumulative		
effects."		