Reviewer Comments and Proponent Responses

Project: Yellowknife Lithium Project

Board: Mackenzie Valley Land and Water Board

Organization: EREX International Ltd

No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response	Board Decision			
GN	NWT-ENR - EAM (Environmental Assessment and Monitoring) - Environmental Regulatory Analyst							
1	ECC Cover Letter	Please see attached.	N/A					
2	Ice Bridge	Part D of the draft Water Licence has a	ECC recommends that the	Proponent accepts ECC's	The Board notes that a			
		direction from the "Board staff seeking	Board add the terms "ice	recommendations for	winter road should be an			
		input from a GNWT Inspector regarding	bridge" and "winter road" to	definitions of ice bridges and	interconnected structure			
		the use of ice road/bridge in the table (as	the definitions of the licence.	winter roads, and that water	that includes ice bridges and			
		opposed to using only ice road or ice	"Ice bridges" should refer to	usage for ice bridges over	overland components.			
		bridge)." It is unclear to ECC the intent of	ice roads on water bodies	water bodies should not be	The Board has added a			
		this comment by Board staff.	only, and "winter road"	included in licenced water	definition for Winter Road			
			should refer to over-land	usage.	to the Licences for clarity, as			
		ECC supports the Board by including clear	portions of the road.		well as updating Part D to			
		terms with definitions, such as "winter			refer to water use for a			
		road" and "ice bridge" in the licence. ECC	ECC recommends that the		Winter Road, as opposed to			
		notes that an ambiguous definition of	Board remove "ice bridges"		separating the water use			
		these terms could adversely impact the	from the listed water uses of		between ice bridges and			
		proponent's activities. Using ice	the licence. Only water used		overland portions. The			
		road/bridge could confuse how activities	for over-land road		Board also included the			
		under the license and associated land use	construction, camp use, or		term Winter Road in the			
		permits are regulated. The Board could	drilling activities should be		Permit for consistency.			
		use the terms "ice bridge" and "winter	included in the use					
		road" in the terms defined in the licence.	calculations.		The Board notes that ECC's			
		Ice bridges should refer to ice roads on			recommendation is not			
		water bodies only, and "winter road"			consistent with the LWB's			
		should refer to over-land portions of the			Reference Bulletin: Water			
		road.			Use and the LWBs'			
					interpretation of the			
		ECC would also like to note that the			legislation. The LWBs are			
		GNWT submitted our concern on the			considering how to address			
		Board's interpretation of water use for			the differences in			
		ice bridges to the Board via email			interpretation with respect			
		correspondence on January 30, 2023. It is			to ice-bridge water use.			
		noted that the previous reasons for the						

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		decision on the original licence had the			
		Board including ice bridges in Part D,			
		Condition 1 of the licence. ECC believes			
		that water sourced to construct ice			
		bridges on a lake or river should not			
		count towards maximum daily totals. ECC			
		notes that this licence has been classified			
		as "miscellaneous" under Part H of the			
		Waters Regulations, which explicitly			
		excludes ice bridges from a water licence			
		trigger. ECC maintains that the intention			
		of excluding ice bridges under Schedule H			
		was to specifically address that the			
		regulations should not apply to these			
		activities. ECC maintains that the water			
		used to create ice in the same water body			
		should fall under the same premise as an			
		indirect use and that water used in this			
		manner is similar to a diversion. ECC			
		understands that the Board may be			
		seeking input on this specific issue of ice			
		bridges as a water use in the near future.			
		ECC will provide more details on its			
		position at that time.			
3	Security Estimate	ECC has completed an updated security	ECC recommends that the	Proponent accepts ECC	The Board accepts ECC's
		estimate of the territorial components for	reclamation security for the	recommendations for security	recommendation regarding
		the Project to help inform the Mackenzie	Territorial authorizations	for the land and water	security.
		Valley Land and Water Board's	should be \$383,784.00.	components under territorial	
		(MVLWB's) decision on determining	\$145,365 should be held	jurisdiction, as well as the	
		security associated with the water licence	under the water licence, and	estimates of security for land	
		(non-federal) and LUP. This security	the remaining \$238,419	and water for federal land.	
		estimate update incorporates new data	should be held under a lands	However, the 20%	
		and information provided in EREX's	instrument. ECC directs the	contingency on top of 21.6%	
		amendment application documentation	Board and Nighthawk to the	inflation adjustment for	
		submitted on March 9, 2023. A holistic	attached memorandum and	prices from 2014 to 2023	
		reclamation cost for the Project, which	attached excel RECLAIM file	appears to be a little	
		included an estimate of the federal	from its retained consultant,	excessive.	
		security is provided following the	ARKTIS, that provides in-		
		approach ECC's previous 2022 estimate	depth details on the		

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		to ensure that project components were	estimated splits between		
		not double bonded due to project design	Federal and Territorial lands		
		and potential overlap as well as provide	and land and land water		
		consistency in comparison of update	liabilities.		
		information. However, it is recognized			
		that security recommendations	ECC recommends that the		
		associated with federal liability are the	reclamation security for the		
		responsibility of the Crown-Indigenous	Federal authorizations should		
		Relations and Northern Affairs Canada	be \$248,264.00. \$45,589		
		(CIRNAC). Therefore, ECC defers to	should be held under the		
		CIRNAC on this security component. A	water licence, and the		
		review of securities proposed for the	remaining \$202,675 should		
		Federal component of the Project by	be held under a lands		
		CIRNAC was not completed for	instrument. It should be		
		adjustments to reconcile potential	noted that ECC has provided		
		common securities or to evaluate if the	this recommendation for		
		Federal security estimate remains valid.	information purposes only, as		
		No recommendations to the CIRNAC	ECC defers to Canada on		
		security are presented for this	making recommendations for		
		submission. ECC directs the Board and	Federal liabilities.		
		EREX International Ltd. to the attached			
		memorandum from its retained			
		consultant, ARKTIS, that provides in-			
		depth details on the estimate splits			
		between Federal and Territorial lands and			
		land and land water liabilities.			
4	Additional information	ECC's estimate submitted with these	None.		Noted.
	items for refining the	comments reflects current information			
	security estimate	provided in the amendment application			
		documentation lists in Section 1 and			
		EREX's correspondence on March 17,			
		2023. It is noted that EREX's RECLAIM			
		estimate contains items of not such as			
		the exclusion of inflation in the total			
		costs, mistakes in cell references or			
		calculations, and discrepancies in			
		quantities from values indicated in the			
		CRP, Project Description, and/or other			
		cost items within the RECLAIM estimate.			

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		Additional information from EREX's amendment application and correspondence has addressed some uncertainties identified in ECC's previous review and RECLAIM estimate. The new data and information have been incorporated in this RECLAIM security estimate update where applicable. Additional information and details for further consideration and/or to be provided by EREX to further refine the reclamation security estimate and address outstanding uncertainties are			
5	Underground Mine	included in the subsequent recommendations. ECC is seeking more information regarding the description of closure and reclamation activities anticipated for the trenches.	ECC recommends that EREX Include an estimate for the quantity of potential PAG waste rock that may require off-site disposal.	- From previous geochemical analytical work done on trench samples Proponent believes that there is no likelihood of potentially acid generating ("PAG") waste rock occurring on its leases. EREX will be conducting analyses of rock to determine if PAG rock occurs in the areas it is working on an ongoing basis over the term of the permit. The focus of EREX's exploration work is	Given the details requested for refining the security estimate by ECC are forthcoming, the Board requires EREX to submit an updated RECLAIM model within two years of the effective date of the Licences and Permit with the details.
				spodumene-bearing pegmatites. These rocks contain no sulphides, consequently their PAG ability is nil. The wallrock to the pegmatites is Burwash Formation metasediments. That formation may contain	

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				trace amounts of sulphides - pyrite or pyrrhotite – but there is little evidence of this: no limonitic or gossanous zones have been seen in the exposures around the pegmatites; there has been no hydrothermal alteration of the wallrock associated with the pegmatite. Consequently, it is unlikely that the wall rock has PAG abilities. EREX has retained the services of Det'on Cho Environmental to initiate environmental baseline studies. Their independent studies will assist in understanding the PAG abilities in the areas that EREX is exploring. In terms of reclamation and closure activities anticipated for the trenches EREX will assess those requirements in consultation with GNWT inspectors when trenches are excavated.	
6	Buildings & Equipment – IR 1	The number of drill pads/holes requiring remediation on Federal and Territorial leases for the 2023- 24 program has been provided in the CRP; however, it is uncertain whether these numbers are representative of the annual average. The distribution of drill holes located on federal and territorial land has been used to inform the cost split of select items in the RECLAIM security estimate. Since the	ECC recommends that EREX Include information detailing the anticipated number of drill holes on Federal and Territorial leases annually for the duration of the program, which may further refine the cost split for the security estimate.	Once EREX is on the ground it will be able to assess where exactly it can drill in the summer and then plan out drill holes for winter. As you also point out the distribution and number of drill holes will vary in future years. EREX will keep GNWT and CIRNAC inspectors appraised of drill	See Board Decision to ECC, comment 5.

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		distribution and number of drill holes		locations, proposed, and	
		may vary in future years of mineral		completed during the term of	
		exploration, the proportion of Federal		the permit.	
		and Territorial costs allocated to these			
		components may also change.			
7	Buildings & Equipment – IR	Some additional clarification regarding	ECC recommends that EREX	1. Estimated length of the	See Board Decision to ECC,
	2	the length of winter road portages on	provide the following details:	Thompson-Lundmark winter	comment 5.
		Federal and Territorial leases was		road from the point of	
		provided in correspondence and has	1. The length of the existing	departure from Highway 4 to	
		been incorporated in updating the	Thompson-Lundmark winter	EREX's proposed campsite at	
		RECLAIM estimate. However, it is unclear	road for which EREX is	Hidden Lake is 10.25 km.	
		whether EREX is responsible for the	required to complete	From the campsite north	
		construction and operation of the	construction and operation.	there is approximately 3.35	
		Thompson-Lundmark winter road or		km of the winter road that	
		section of the winter road. The number of		EREX will likely open and use	
		ice bridges crossing streams and creeks	ice bridges crossing	during the term of the permit.	
		also remains uncertain.	streams/creeks on Federal	2. At this time EREX personnel	
			and Territorial leases that will	have not examined the	
			require reclamation (i.e., V-	Thompson-Lindmark winter	
			notching).	road corridor to assess how	
				many steam/creek cross	
			3. Identify all areas that	there are. EREX will examine	
			require reclamation and	the road during the summer	
			describe the closure and	to be in a position to quantity	
			reclamation activities	stream/creek crossing that	
			anticipated for these areas	could need reclamation (i.e.	
			(e.g., scarification, seeding,	v-notching) on federal and	
			regrading, etc.). Include	territorial land and confirm	
			estimated quantities or	these with GNWT and CIRNAC	
			map(s) providing a clear	inspectors in advance of	
			delineation of areas and the	winter operations.	
			reclamation activities to	3. At this time the main areas	
			occur.	that could require	
				reclamation at the previously	
				disturbed and abandoned	
				Hidden Lake gold mine are	
				the campsite, fuel storage,	
				helicopter pad, drill core	
				logging and cutting facilities,	

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8	Buildings & Equipment – IR 3	The drilling programs described in the Project Description indicate variability in drill location between federal and territorial land such as during the transition between the Spring-Summer and Winter Programs. Due to the variability in drill location, there is uncertainty of drill location at the time of abandonment which may affect the Federal/Territorial cost split for drill removal. Presently, the cost split is assumed to be 50:50; however, further information detailing the locations of all drills throughout the year may further refine the cost split for the security estimate.	ECC recommends that for future security estimates, EREX Include a more thorough description of drill locations completed for both Federal and Territorial lands.	and core storage all of which are on federal land. Reclamation for these areas could, as you have pointed out, may require some degree of scarification, seeding, regrading, etc. A detailed map of the proposed campsite and associated facilities is provided in the Project Description. Until that camp is constructed and in operation it is difficult to estimate the amount and nature of reclamation activities that could be needed post project operations. Reclamation requirements will be estimated as the project progresses in consultation with GNWT and CIRNAC inspectors. EREX will provide detailed locations for planned and completed holes drilled.	See Board Decision to ECC, comment 5.

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9	Interim and Post-Closure Monitoring and Maintenance	ECC is seeking more information regarding costing associated with the Interim and Post-Closure Monitoring and Maintenance.	ECC recommends that EREX describe: 1. The interim monitoring/inspection locations and duration. 2. The post-closure monitoring/inspection locations and duration.	1. Once EREX is on the ground it will have a better opportunity to determine the locations and duration of interim monitoring/inspection stations. For drilling these are expected to change as the drills move around the leases during summer and winter. Water usage in the Hidden Lake camp will be monitored there over the term of the project. 2. post-closure monitoring/inspection locations and duration will be determined in consultation with GWNT and CIRNAC inspectors.	See Board Decision to ECC, comment 5.
10	Mobilization/Demobilization	EREX indicated an estimate of 21 days as the duration of the anticipated reclamation program; however, specific details on the reclamation activities required to be completed within the program and their timelines are unclear.	1. Provide a detailed schedule for all closure and reclamation activities, including equipment requirements associated with these activities and the crew and time requirements to complete the activities. 2. Estimate fuel requirements to support, sustain, and complete the reclamation activities on Federal and Territorial land. 3. Confirm the disposal location and all applicable	EREX will provide all information that ECC requires regarding all closure and reclamation activities on federal and territorial land. EREX will confirm the disposal location and associated fees. EREX acknowledges that the version of the Waste Management plan submitted was incomplete. A revised version will be prepared and submitted to the Board regulatory staff for review.	See Board Decision to ECC, comment 5. Board staff mistakenly did not realize that the version of the WMP original attached to the ORS for the public review did not include the attachments in Appendix A referenced by the GNWT. Subsequently on April 13 the correct WMP V1.2 was included on the ORS.

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			fees associated with the types of waste for off-site disposal. It is noted that the Waste Management Plan (v1.2) did not include attachments in Appendix A.		
11	Memorandum	Arktis RECLAIM Estimate Memorandum	see attached	EREX appreciates the effort that Arktis has put into their RECLAIM Estimate.	
12	RECLAIM Estimate	RECLAIM Estimate Workbook	see attached	Received	
CIF	RNAC-Inspectors - Tim Morton	1			
1	Waste Management Plan – Page 19 Waste Streams	Storage of waste streams prior to transport off site section appears to be inconsistent with the project and what is listed within the federal and territorial lands. For example, drill cuttings arising from diamond drilling and contaminated soils arising from fuel spills near the bulk fuel storage facility is listed under the territorial lands section but not the federal lands. These two sections need to be reevaluated as the project now includes drilling and other activities on federal lands.	Reevaluate these two sections to reflect the possible waste streams and storage on both federal and territorial lands.	Thank you for bringing this inconsistency to my attention corrections to the Waste Management Plan will be made to rectify this.	Board directive according to the Inspector's comment.
2	Scope of Draft Federal Water Licence	Ensure that the scope of the federal water licence includes all activities proposed by the applicant. Example, withdrawal of water is only scoped for camp consumption and not drilling.	Revisit the scope to ensure that all activities applied for are scoped into the licence.		The Board updated the Licence according to the Inspector's comment.
3	Draft Federal Water Licence – Part E Condition 7	As mention in previous comments, please revisit the list of waste including storage within the waste management plan on federal lands to ensure that this condition does not limit the activities on federal lands.	Revisit the waste management plan, specifically the waste management on federal lands.	Thank you for pointing this out EREX will revise the Waste Management Plan to be sure that waste streams on federal land and waste storage areas are clearly identified.	See Board Decision to CIRNAC Inspector, comment 1.

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CII	RNAC (Yellowknife) - Megan L	arose			
1	Waste Managment Plan	The Waste Management Plan doesn't appear to have been updated to reflect the proposed changes to project. For example, the text in Section 1.7 (Project Description) does not reference the addition of the Perlis leases, plans for exploration drilling on federal land, or the changes to the project timeline (e.g., no winter season work in 2023). It is acknowledged that Version 1.2 (posted April 13) includes updated figures that show the location of the Perlis leases, the text does not appear to have changed.	A revised version of the Waste Management Plan should include an updated description of the project, site description, and timeline.	Thank you for pointing out those errors in the Waste Management Plan Project Description. These will be corrected in a revised version of the Plan.	Board directive according to the comment.
2	Waste Management Plan - Sewage	Section 2.3 (pg 15) of the Waste Management Plan indicates that at the Hidden Lake Camp sewage will be managed by pit latrine in summer, and incinolet toilet in winter. However, Section 2.3.3 (page 20) references use of incinolet toilets at the main camp for winter and summer programs and pit latrines at smaller outlying camps. If pit latrines are planned at the Hidden Lake Camp then this should be added to the scope of the federal water licence.	Clarify if pit latrines will be used at the Hidden Lake Camp or not. If so, add the deposit of sewage into sumps into the scope of the federal water licence, similar to Item 1.j) of the non-federal licence.	Pit latrines will not be used at the Hidden Lake camp. The Waste Management Plan will be revised to state that.	Board directive according to the response. For project flexibility, the Board has included "Depositing of drill cuttings and Sewage into Sumps" in the federal Licence MV2022L8-0009.
3	Scope of the federal licence - withdrawal of water & deposit of drill cuttings	The amendment application indicates that exploration drilling is planned for federal leases that the Proponent is in the process of acquiring that cover the abandoned Thompson-Lundmark Mine. To accommodate drilling activities on federal lands, the scope of the federal water licence should include the withdrawal of water for drilling purposes and the deposit of drill cuttings.	Add the withdrawal of water for drilling and camp consumption and the deposit of drill cuttings to the scope of the federal water licence, similar to Item 1.i) and Item 1.j) of the non-federal water licence.	EREX agrees with CIRNAC's recommendations.	See Board Decision to CIRNAC – Inspector, comment 2.

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4	Federal Water Licence -	With drilling activities proposed on	Revise Schedule 1 Item 1.h)	EREX agrees to provide the	The Board has updated the
	Schedule 1: Annual Water	federal land, the annual water licence	of the federal water licence	information required by the	federal Licence MV2022L8-
	Licence Report	report for the federal water licence	to include the requirement to	revision that CIRNAC as	0009 according to the
		should include reporting of drill waste	provide "Monthly and annual	requested.	comment.
		discharged by location, and a summary	quantities, in cubic metres, of		
		and interpretation of results from the	drill Waste discharged by		
		geochemical characterization and	location" - similar to non-		
		discussion on the potential for acid rock	federal licence (page 18). Add		
		drainage and metal leaching based on the	a condition similar to		
		geochemical data for federal land.	condition 1.m) of the non-		
			federal licence (page 18) that		
			requires "A summary and		
			interpretation of the results		
			from the geochemical		
			characterization and a		
			discussion on the potential		
			for acid rock drainage and		
			metal leaching based on the		
_		0 1:: 70 / 40 (42) (11 1	geochemical data".	EDEX 6: 11 1 1:	7 5 11 1 1 1 1 1
5	Land Use Permit - Fuel	Condition 70 (page 10 of 13) of the Land	Confirm the maximum	EREX confirms that it is	The Board has updated the
	Volume	Use Permit currently states that the	volume of fuel expected to	requesting the maximum	Permit according to the
		maximum fuel on site is 109,965 litres;	be stored on-site for the	volume of fuel to be stored	recommendation and
		unless otherwise approved by the Board.	project on federal and	on -site on federal and	response.
		However, the revised project description	territorial land so that the correct volume is reflected in	territorial land be changed to	
		and closure and reclamation plan provided for the amendment application		125,020 litres.	
		suggest that the total volume of fuel	the amended land use permit (Condition 70).		
		stored for the project will be 125,020	(Condition 70).		
		litres, stored at three locations:			
		- Hidden Lake Camp (federal) 3 x 25,000			
		litre tanks (75,000 L) + 130 drums (26,650			
		L) = 101,650 L			
		- Big/Nite Lease (territorial) 12 drums			
		(2,460 L)			
		- Echo Lease (territorial) 102 drums			
		(20,910 L)			
		The maximum volume of fuel on site			
		(Condition 70) should be representative			
		of the project as a whole and include all			

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		proposed storage locations.			
6	Security Estimate - Federal Land	CIRNAC has prepared a revised security estimate based on our understanding of the proposed project amendments. This includes the following assumptions regarding planned activities on federal land: - Bulk fuel storage will now be located on federal land at the Hidden Lake Camp	CIRNAC recommends a security estimate of \$208,197 for the federal component of the land use permit and a security estimate of \$48,055 for the federal water licence.	EREX accepts CIRNAC's recommendations for security for land and water.	The Board accepts CIRNAC's recommendation regarding security.
		 Exploration drilling will occur on federal land (estimated 22 drill holes in 2023) No trenching or channel sampling will occur on federal land No storage of explosives on federal land Hazardous waste storage is located on federal land Drilling equipment will be stored on 			
		federal land - Other equipment required for the project (e.g., graders, pick-up trucks, ATVs, snow machines) will be stored on federal land - Closure and Reclamation activities on federal lands will require site work in the			
		winter for 2 weeks (14 days) - Cost to mobilize/demobilize equipment required for closure and reclamation activities will be split between federal and territorial (assumed approximately 50/50 split) Changes to the above assumptions may result in the need to review the security			
		estimate. CIRNAC has proposed an inflation adjustment of 21.6% based on the change in Consumer Price Index for Yellowknife between 2014 to January 2023 as reported by Statistics Canada. Contingency (20%) has also been applied			

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		to capital costs, mobilization/demobilization, post-closure monitoring and maintenance and the associated inflation. A copy of our proposed RECLAIM Estimate for federal land is attached for consideration.			
MV	LWB - Kimberley Murray				
1	Application Forms - Section 7, second table	The second table under Section 7 in the Licence Application Forms for MV2022L8-0008 and MV2022L8-0009 include a footnote for the "Comparison of Total Proposed Water Use to Capacity" column. The footnote indicates that the calculation used was: (299/capacity of water source)x100, assuming a proposed water use of 299 cubic metres/day. Based on this calculation, which used the available capacity of each water source (which is also the proposed annual withdrawal limit for each water source), Lake 31 has a value of 120%. EREX has indicated "water use will not exceed the Annual Withdraw limit of the source" in the Project Description, which conflicts with the 120% comparison provided in the Application form. It is unclear to Board staff if the proposed water use of 299 cubic metres for Lake 31 with an annual capacity of 250 cubic metre is an	EREX to confirm that they will be able to stay within the proposed annual withdrawal limit for Lake 31.	EREX confirms that it will stay within the limits for annual water withdrawal for Lake 31	Noted.
2	Draft Licences - Part D: Water Use	oversight. See comment.	Board staff recommend EREX review the updates made to Part D, Condition 1 in both Licences. If corrections are required, please submit the proposed corrections through the ORS in EREX's response.	EREX will review the tables on Part D, Condition 1 of both licences for completeness and provide corrections if necessary.	Noted.

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3	Draft Licences - Part B, Condition 19 and Schedule 1, Condition 1	The current Licences include a requirement for an Annual Water Licence Report to be submitted no later than every March 31, beginning on March 31, 2023. As the Licences were not issued	For EREX's information - no Annual Report for 2022 is due this year given the Licence was not issued until January 2023.	Thank you for this information.	
		until January 2023, this condition should read "Beginning March 31, 2024 and no later than every March 31 thereafter". Board staff will bring this change as an administrative update in the Licences to the Board when the Amendment			
		Applications are presented to the Board.			
Ye	llowknives Dene First Nation	,			
1	Engagement Plan - General	The YKDFN sincerely thank EREX/LiFT for the work they have done in thoroughly engaging our community and leadership. The YKDFN support EREX/Li-FT's engagement plan and the triggers that fall under the jurisdiction of crown	No recommendations.	EREX/Li-FT look forward to building a strong partnership with the YKDFN	Noted.
		consultation and the duty to consult.			
A	Member of the Public - Mr. Je	rry Vanhantsaeme			
1		Hazardous Waste Storage	Large amount of fuel being stored in an area that has had wildfire activity in the past. Concern the large amount of fuel on site provides a fuel source for potential widlfire and risk to water ways for contamination if leaked or burned. Water ways lead to populated areas that utilize this water for their homes (e.g., Prelude Lake communities)	drilling on the BIG lease and will minimize diesel fuel on site to what is required for two days of drilling, i.e., 4 drums. The drums will be located at each of the drill sites where they can be monitored daily by drillers for leakage. If leakage occurs drillers will be in position onsite to take prompt remedial action.	Comment and Applicant's response considered for the preliminary screening. Board directive that requires EREX to update the Spill Contingency Plan with the details discussed in the Applicant's response.
2		Water ways	I do not see any consultation with the Department of Fisheries and Oceans	EREX has included DFO Yellowknife on the distribution and thanks the	Adequate response. The Board notes that DFO

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				reviewer for pointing that out.	has commented on the Amendment Applications.
3		Hazardous Waste Storage	I did not see any containment plan for the fuel on site. (e.g., spill berms and barriers)	All fuel will be stored in secondary containment as per the Spill Contingency Plan.	Adequate response.
Fis	heries and Oceans Canada (Di	FO) - Triage Group Fisheries Protection Pro	gram		
1	EREX International LTD. Yellowknife Lithium Project - Amendment - Land A Use Permit and Type B Water Licences (MV2022C0021, MV2022L8-0008, MV2022L8-0009) - Water withdrawal for exploratory drilling, camp use, winter access roads	Your proposal has been reviewed to determine whether it is likely to result in the death of fish by means other than fishing and the harmful alteration, disruption or destruction of fish habitat which are prohibited under subsections 34.4(1) and 35(1) of the Fisheries Act; and, effects to listed aquatic species at risk, any part of their critical habitat or the residences of their individuals in a manner which is prohibited under sections 32, 33 and subsection 58(1) of the Species at Risk Act.	Please review Codes of Practices at (http://www.dfo- mpo.gc.ca/pnw-ppe/practice- practique-eng.html) for use of End-of-Pipe Fish Screens and Ice Bridges and Snow Fills. Provided that the plans can meet the Codes of Practice guidelines and the Measures to Protect Fish and Fish Habitat (https://www.dfo- mpo.gc.ca/pnw- ppe/measures-mesures- eng.html), the Fish and Fish Habitat Protection Program (the Program) is of the view that your proposal will not require an authorization under the Fisheries Act or the Species at Risk Act. If the project is unable to comply with the Interim Codes of Practice or the Measures to Protect Fish and Fish Habitat, we recommend that the proponent submit a Request for Review (http://www.dfo- mpo.gc.ca/pnw-ppe/reviews- revues/forms- formes/request-demand-	EREX will require drilling contractors, winter road construction contractors, and camp maintenance personnel to adhere to DFO code of practise for end of intake pipe screens to prevent the injury or death of fish from suction through water pumps to drills, water trucks, and camp water supply including core cutting saws. Proponent will require winter road construction and maintenance crews adhere to the code of practise for ice bridges and snow fills. The purpose of this code is to minimize risk to fish and fish habitat by avoiding disturbance to watercourse beds and banks; release of sediments or other deleterious substances into streams.	Adequate response.

No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response	Board Decision
			eng.pdf) of the		
			project.Should your plans		
			change or if you have		
			omitted some information in		
			your proposal, further review		
			by the Program may be		
			required. It remains your		
			responsibility to remain in		
			compliance with the Fisheries		
			Act, avoid prohibited effects		
			on listed aquatic species at		
			risk, any part of their critical		
			habitat or the residences of		
			their individuals, and prevent		
			the introduction of non-		
			indigenous species. It is also		
			your Duty to Notify DFO if		
			you have caused, or are		
			about to cause, the death of		
			fish by means other than		
			fishing and/or the harmful		
			alteration, disruption or		
			destruction of fish habitat.		
	IWT-Lands - North Slave Regio		1		
1	Part A: Scope and Defined	The majority of the items detailed in the	Please remove the following	EREX agrees with these	The Board disagrees with
	Terms - MV2022L8-0008	scope of the water license are regulated	activities from the scope of	recommendations and thanks	the recommendation from
	(Non-Federal Water	by the Mackenzie Valley Land Use	water license MV2022L8-	GNWT Lands for their	GNWT-Lands. The purpose
	License)	Regulations, land use permit	0008 since they are all	advice.	of the scope of the Licences
		MV2022C0021.	regulated by the land use		is to describe which
			permit;		activities have been subject
		Since the schedules of the Waters	\		to Part 5 of the MVRMA and
		Regulations do not prohibit these	a) Drilling		that the Licensee is entitled
		activites they must be removed from the	b) Channel Sampling		to conduct. Therefore, the
		scope of the water license, and captured	c) Trenching		Board has left the scope of
		under the land use permit, which they	d) Use of Explosives		the non-federal Licence
		are.	e) Use of equipment, vehicles		unchanged.
			and machines		
			f) Use and storage of fuel		

No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response	Board Decision
			h) Construction, operation and maintenance of camps		
2	Part D: Water Use - Ice Road/Bridge in the Water Use Table	"Winter road" construction is a term best suited for "Purpose of Water Use" rather than ice road or ice bridge. Winter road would capture all water uses related to the main winter road as well as water used for the construction of drill access trails.	Please change ice road/bridge to winter road.	EREX agrees with these recommendations and thanks GNWT Lands for their advice.	The Board agrees – see Board Decision to GNWT- ENR, comment 1.
3	Annex A: MV2022C0021 -	Under the "Timeline for Submission"	Please change "license" to	EREX agrees with these	The Board has updated the
	Concordance Table of Items	Column it should state "Permit" not	"permit".	recommendations and thanks	Permit according to the
	Requiring Submission -	"License".		GNWT Lands for their	comment.
	Administrative Update			advice.	



Government of Gouvernement des Northwest Territories Territoires du Nord-Ouest

April 14, 2023

Jacqueline Ho Technical Advisor Mackenzie Valley Land and Water Board P.O. Box 2130 4922 - 48th Street YELLOWKNIFE, NT X1A 2P6

Dear Jacqueline Ho,

RE: Yellowknife Lithium Project Type B Water Licences and Type A Permit Amendment Applications

The Department of Environment and Climate Change (ECC), Government of the Northwest Territories has reviewed the application at reference based under its mandated responsibilities under the *Waters Act*. ECC has provided comments and recommendations on the Online Review System for the consideration of the Mackenzie Valley Land and Water Board at this time.

Please contact Bill Pain, Environmental Management Scientist with the Water Regulatory Group at Bill_Pain@gov.nt.ca if you have any technical questions.

Please contact GNWT_EA@gov.nt.ca with any general questions or concerns.

Sincerely,

Sjensen

Shakita Jensen

Regulatory Analyst

Environment and Climate Change



	MEMORANDUM				
File:	2023-GNWT ENR				
To:	Government of the Northwest Territories, Environment and Natural Resources				
Attention:	Bill Pain, Environmental Scientist, Water Management and Monitoring Division				
Subject:	EREX International Ltd. – Yellowknife Lithium Project RECLAIM Estimate for non-federal Water Licence (W2022L8-0008), federal water licence (W2022L8-0009) and Land Use Permit (W2022C0021) amendment application				
Author:	Jun-tian Zhang, Ph.D., EIT Drew Stavinga, M.Sc., P.Geo. Jamie Van Gulck, Ph.D., P.Eng.				
Page Total:	23 plus appendices				
Revision	0				
Date:	April 11, 2023				

1.0 INTRODUCTION

ARKTIS Solutions Inc. (ARKTIS) was contracted by the Government of the Northwest Territories, Environment and Natural Resources (GNWT) to update the financial security estimate associated with EREX International Ltd. (EREX or Proponent) Land Use Permit (LUP) and non-federal and federal Water Licence (WL) amendment applications for the Yellowknife Lithium Project (Project), W2022C0021, W2022L8-0008 and W2022L8-0009.

In March 2023, ARKTIS on behalf of the GNWT completed an updated security estimate of the territorial components for the Project to help inform the Mackenzie Valley Land and Water Board's (MVLWB's) decision on determining security associated with the WL (non-federal) and LUP. A holistic reclamation cost for the Project, which included an estimate of the federal security is provided following the approach in ARKTIS' 2022 estimate to ensure that project components were not double bonded due to project design and potential overlap as well as provide consistency in comparison of update information. However, it is recognized that security recommendations associated with federal liability are the responsibility of the Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) and therefore we defer to CIRNAC on this component of security. A review of securities proposed for the Federal component of the Project by CIRNAC was not completed for adjustments to reconcile potential common securities or to evaluate if the Federal security estimate remains valid. No recommendations to the CIRNAC security are presented for this submission. This security estimate update incorporates new data and information provided in EREX's amendment application documentation submitted on March 9, 2023.

This Memorandum presents an updated calculation of the security estimate for the closure and reclamation of the NITE, BIG, ECHO (formerly THOR), Ki, Fi, and Shorty (formerly Hi) leases, comprising the territorial leases and T-L 2 (Perlis, NT-3366) lease as well as the Hidden Lake Camp that comprise the federal component of EREX's Yellowknife Lithium Project.

The layout of this Memorandum is as follows:

- Section 2.0 Summarizes the adjustments made to the ARKTIS RECLAIM security estimates for the Territorial and Federal portions to reflect the most current information on the Project.
- Section 3.0 Presents the results of the ARKTIS 2023 security estimate.
- Section 4.0 Presents a summary comparison of total site liabilities from the 2023 ARKTIS and Proponent security estimates.
- Section 5.0 Summarizes the recommendations.
- Section 6.0 Disclaimer and closure.

2.0 RECLAMATION SECURITY ESTIMATE UPDATE

Updates to the ARKTI RECLAIM security estimate are based on the information provided in the Proponent's amendment application documentation:



- EREX International Ltd., March 2023, Reclamation and Closure Plan (Version 1.1), Yellowknife Lithium Project.
- EREX International Ltd., March 2023, Yellowknife Lithium Project Description.
- EREX International Ltd., March 2023, Permit and Licence Application RECLAIM Closure Cost Estimate.
- EREX International Ltd., March 2023, Waste Management Plan (Version 1.2), Yellowknife Lithium Project.
- Mackenzie Valley Land and Water Board, March 2023, EREX International Ltd., Water Licence Application Form – Non-Federal.
- Mackenzie Valley Land and Water Board, March 2023, EREX International Ltd., Water Licence Application Form Federal.
- Mackenzie Valley Land and Water Board, January 2023, EREX International Ltd., Type A Land Use Permit, MV2022C0021.

New information clarifying the regulatory jurisdiction of each lease is presented with the current information in the updated Project Description (Table 1 – Lease Status). This new information has resulted in revising the proportion of federal and territorial liability. Specifically, it was identified in the updated Project Description that the lease NT-3366 and the Hidden Lake camp are under Federal jurisdiction while the Ki, Fi, Shorty, NITE, BIG and ECHO leases are under Territorial jurisdiction. The split between territorial and federal has been updated to reflect new information where there is a clear delineation between territorial and federal liability. Where the delineation between territorial and federal liability is unclear, such as shared reclamation equipment, the distribution of cost is assumed based on the proportion of capital costs with exception of the drill locations and interim monitoring/inspection that are split evenly (50:50) due to outstanding uncertainties. Updates to the ARKTIS RECLAIM security estimate compared to the previous ARKTIS 2022 estimate for the Territorial portion are summarized in Table 1 while Table 2 summarizes the Federal portion.



Table 1: Summary of the ARKTIS RECLAIM security estimate adjustments – Territorial Liability.

		TERRITORIAL Re		
ltem	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
1.0 Trench reclamation	The Project Description describes obtaining bulk samples from trenches, the sample weight, number of trenches, and their trench dimension. Reclamation activities of trenches are not described.	\$0	\$307 (\$307)	UG Mine (GNWT)
	Based on the information provided ARKTIS has added a cost for reclamation work of the trenches in this updated security estimate. Trenches are assumed to be stable and assuming reclamation activities to include demobilization and disposal of potentially acid generating waste rock, filling and levelling/grading, and revegetation. Assuming shared territorial and federal costs based on the proportion of work described on each lease (approximately 90% Territorial).			
	This estimate may be updated and refined as additional information becomes available.			
2.0 Remove Buildings	The cost to remove the accommodation complex comprised of temporary structures (e.g., tents) at the campsite located on the ECHO lease has been revised to include three (3) additional Sleepers for a total of seven (7) Sleepers and one (1) kitchen tent, as indicated in the CRP.	\$6,374	\$8,112 (\$1,738)	Bldgs & Equip (GNWT)
3.0 Grade and Contour Pads	Costing for grade and contour pads has been revised based on the following: • Increase in number of drill holes anticipated on territorial land leases (259 drill holes total per CRP and Table 1 Project Description). The CRP and Project Description indicate that a small number of drill holes (10% rounded, or 22 of 281 holes) are anticipated to be drilled on leases under Federal jurisdiction. The new information updates the cost to revegetate the drill pads, backfill, recontour, and stabilize the drill cutting sumps, cap drill	\$23,117	\$65,143 (\$42,026)	Bldgs & Equip (GNWT)



		TERRITORIAL Re	clamation Security	
ltem	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	holes, and the labour associated with capping drill holes. Additional camp infrastructure based on the CRP requires revegetation. New cost based on Proponent's estimate associated with reclamation of sumps at the campsite on territorial land. The CRP indicates that sumps are filled and levelled during closure. Dimensions of sumps at camps on territorial land are based on Proponent's estimate and are similar to the sump described at the Hidden Lake camp. Without further information, ARKTIS has adopted the cost for sump reclamation at the camp on Territorial land based on the Proponent's estimate. New cost added to adopt new reclamation activity indicated in Proponent's estimate – scarify camp, building, and laydown areas. This reclamation activity appears to align with the LUP (Condition 81) which indicates that the Proponent "shall prepare the site in such a manner as to facilitate natural revegetation". Based on this information the Proponent's project cost for this activity has been incorporated into this security estimate update These changes result in an overall increase in the			
4.0 Reclaim Roads	cost estimate. The cost associated with reclaiming roads has been revised to reflect the new information regarding leases located on territorial land. Number of snow fills and ice bridges are estimated based on site maps from Project Description.	\$2,000	\$5,000 (\$3,000)	Bldgs & Equip (GNWT)
5.0 Consolidation of Hazardous Materials	It is assumed an increase in the environmental technician / coordinator's time is needed based on new information that clarifies the regulatory jurisdiction of the leases. A full day was previously	\$890	\$4,310 (\$3,420)	Chemical (GNWT)



		TERRITORIAL Re	clamation Security	
Item	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	estimated to oversee the removal of residual fuel and contaminated soil from three leases (NITE, BIG, ECHO). Therefore, given the additional ground to cover the three territorial leases Fi, Ki, and Shorty, an estimate of 2 days is allocated to oversee the removal of residual fuel and contaminated soil from all six (6) leases on Territorial land.			
	Furthermore, the Proponent's estimate has used the high unit cost rate and included a new line item for one additional personnel to assist the Environmental Technician / Coordinator. Without further information, ARKTIS has adopted the Proponent's approach in the estimate with revised hours previously described.			
	These changes based on the available information increases the cost.			
6.0 Hazardous Materials Removal	Based on the CRP, fuel barrels and other various lubricants stored on the NITE, BIG, and ECHO (Territorial) leases have decreased. The liability for hazardous materials removal has been revised to reflect the updated quantities.	\$1,091	\$1,072 (-\$19)	Chemical (GNWT)
7.0 Hazardous Material	The Proponent's estimate indicates a new line item attributed to "contaminated soil disposal" and assumed a volume of five cubic meters (5 m³) at a unit cost of \$240 per cubic meter. This liability was evenly split between land and water. Without further information ARKTIS has adopted the Proponent's estimate and assumes this allowance is attributed to other hazardous waste generated that are not already costed (e.g., batteries, ash, or incinerator residue, etc.). Transportation costing has been accounted for in the mobilization / demobilization cost items.	\$0	\$1,200 (\$1,200)	Chemical (GNWT)
8.0 Contaminated Soils	Current information clarifies the regulatory jurisdiction of the leases (Project Description – Table 1), which indicates a significant increase in drilling located on Territorial land. Thus, ARKTIS has	\$6,505	\$11,505 (\$5,000)	Chemical (GNWT)



		TERRITORIAL Re	clamation Security	
ltem	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	included an additional allowance for the Phase 1 ESA the update cost estimate corresponding to this increase in drilling on Territorial land.			
	The number of soil samples reflect the number of drill locations and fuel caches on territorial land. Due to the uncertainty of the drill locations at time of abandonment (e.g., stored at Hidden Lake Camp or at the drill site), per CRP, the territorial and federal split is assumed to be 50:50 for drill locations at time of abandonment.			
9.0 Contaminated Soil Removal	The Proponent's security estimate indicates an increase in the anticipated volume of contaminated soil (3% of the total area) to be removed from site. Without further information ARKTIS has adopted the Proponent's estimate. Based on the Proponent's description and estimate, an excavation depth of 1 meter is assumed. Consequently, the cost for disposal has also been updated to reflect this new volume of contaminated soil. Additionally, a new cost item to contour the decontaminated area was included based on the Proponent's description and is assumed to use overburden/soil piles based on RECLAIM unit costs. Without further information, ARKTIS has updated the costing based on these new quantity estimates.	\$304	\$2,727 (\$2,423)	Chemical (GNWT)
10.0 Post-closure Monitoring and Maintenance	The Proponent's estimate indicates one summer inspection attributed to the Federal liability portion only. ARKTIS has assumed inspection of all sites would be included. The total number of sites is assumed to be 8 with 2 federal sites (Hidden Lake Camp and lease NT-3366) and 6 territorial sites (NITE, BIG, Ki, Fi, and Shorty leases), per Project Description. The Proponent has indicated that the inspection would take place during the summer which requires helicopter support, per Project Description. Without additional information available, ARKTIS has updated the costing for Post-closure Monitoring and Maintenance to include this cost with	\$0	\$15,423 (\$15,423)	Post Closure (GNWT)



		TERRITORIAL Re	clamation Security	
Item	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	a 75:25 split for the territorial and federal liability, respectively. Additionally, helicopter support based out of Yellowknife for the assumed eight (8) sites has been included in this updated cost estimate. This cost may be updated with further information.			
11.0 Mobilize Heavy Equipment	Based on Proponent correspondence (Mar 17, '23), additional equipment (snow cat) is required for winter road construction and operation. Additionally, the reclamation program duration was updated based on estimated days to complete winter construction and reclamation activities on Territorial land. Based on current information, ARKTIS has updated the cost to reflect the new number of days and the additional equipment (snow cat).	\$8,097	\$9,792 (\$1,695)	Mobilization (GNWT)
	It is assumed equipment will be shared between the Federal and Territorial sites, therefore costing was split based on the relative proportion of territorial to federal capital costs. A similar assumption is present in the Proponent's estimate.			
	As recent information has resulted in updates to capital costs, ARKTIS has updated the cost of the shared equipment accordingly. These updates increase the Territorial portion of the security estimate.			
12.0 Mobilize Camp	Proponent's estimate indicates a minimal requirement for the camp. Without further information and due to the use of temporary structures in the exploration camp, ARKTIS has adopted the Proponent's cost estimate.	\$0	\$4,000 (\$4,000)	Mobilization (GNWT)
13.0 Mobilize Workers	It is assumed workers (supervisors, operators, and labourers) completing reclamation activities will be shared between the Federal and Territorial sites; therefore, costing has been split based on the relative proportion of territorial to federal capital costs. Due to updates to capital costs, the costing to	\$921	\$1,117 (\$196)	Mobilization (GNWT)



		TERRITORIAL Re	clamation Security	
ltem	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	Mobilize Workers (including demobilization cost) has been updated.			
14.0 Worker Accommodations	The time to complete reclamation activities is based on the estimated amount of person days needed to complete building teardown, demobilize drill rigs, reclaim abandoned drill holes, and winter road construction. Based on recent information, the total number of person days to complete the reclamation activities has increased. This increase is primarily attributed to the increase in number of anticipated drill holes that require reclamation on Territorial land.	\$4,640	\$9,620 (\$4,980)	Mobilization (GNWT)
15.0 Mobilize Fuel	The estimated volume of fuel required to complete reclamation activities increased to correspond with the estimated time to complete the reclamation activities. With the increase in estimated fuel consumption, the cost to mobilize fuel also increased.	\$930	\$1,860 (\$930)	Mobilization (GNWT)
16.0 Winter Road	Based on current information in the Project Description, there is a cost associated with the construction and operation of the existing winter road (Thompson-Lundmark) and new winter road construction. Additionally, new information from site maps has provided clarity on the length of road located on Territorial land. Based on this new information, ARKTIS has updated the costing associated with winter road construction on Territorial land.	\$20,000	\$58,000 (\$38,000)	Mobilization (GNWT)
17.0 Demobilize Heavy Equipment	The cost to demobilize heavy equipment was revised to include additional equipment required for reclamation. Per Proponent's correspondence, an additional snow cat was required. The operations equipment was also revised to reflect the additional pieces of operations equipment present on site. The additional pieces are summarized as follows: 3 water trucks 2 snow machines 4 pick-up trucks 	\$6,048	\$9,621 (\$3,573)	Mobilization (GNWT)



	Changes to Reclamation Activities	TERRITORIAL Re	TERRITORIAL Reclamation Security		
Item		ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet	
	4 diesel generators				
	In addition to the change in equipment, the federal and territorial split was updated based on updates to capital costs.				
	These updates increase the territorial security estimate.				
18.0 Demobilize Camp	Proponent's estimate indicates a minimal requirement for the camp. Without further information, ARKTIS has adopted the Proponent's cost estimate.	\$0	\$4,000 (\$4,000)	Mobilization (GNWT)	
19.0 Demobilize Waste	The Proponent's estimate indicates a total of 3 (flatbed) truck loads of waste to Yellowknife are anticipated. Without further information, ARKTIS has updated the cost to reflect the increase in anticipated waste to be demobilized. Additionally, based on the addition of Item 1.0 (Trench reclamation), a new line item for the demobilization of the potentially acid generating waste rock from the trenches as a result of the Proponent's bulk sampling program has been added in ARKTIS' estimate update.	\$23,967	\$28,126 (\$4,159)	Mobilization (GNWT)	
	These updates result in an increase in cost for demobilization of waste from territorial land.				
20.0 Inflation	Reclamation security has been updated to apply a 21.6% inflation rate (2014 to 2023) based on the most recent available inflation data.	\$21,030	\$44,507 (\$23,477)	Total	
	ARKTIS' estimate applies inflation to capital and indirect costs to address potential increases to various unit costs based on the elapsed time and to better align with more recent security estimates completed for the GNWT. The change in cost reported for inflation is primarily due to the changes in capital and indirect costs.				



Table 2: Summary of the ARKTIS RECLAIM security estimate adjustments – Federal Liability.

		FEDERAL Reci		
Item	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
1.0 Trench reclamation	The Project Description describes obtaining bulk samples from trenches, the sample weight, number of trenches, and their trench dimension. Reclamation activities of trenches are not described.	\$0	\$34 (\$34)	UG Mine (Fed)
	Based on the information provided ARKTIS has added a cost for reclamation work of the trenches after bulk sampling in this updated security estimate. Trenches are assumed to be stable and assume reclamation activities to include demobilization and disposal of potentially acid generating waste rock, filling and levelling/grading, and revegetation. Assuming shared territorial and federal cost based on the proportion of work described on each lease (approximately 10% Federal).			
	This estimate may be updated as additional information becomes available.			
2.0 Remove Buildings	The cost for building removal was revised based on the additional generator sheds (formerly wood structures), as indicated in the CRP.	\$23,959	\$24,957 (\$998)	Bldgs & Equip (Fed)
3.0 Grade and Contour Pads	Costing for grade and contour pads has been revised based on the following: • Decrease in the number of drill holes anticipated on federal land leases (22 drill holes total per CRP and per Table 1 Project Description). The CRP and Project Description indicate that the majority of drill holes (90% rounded, or 259 of 281 holes) are anticipated to be drilled on Territorial land. The new information updates the cost to revegetate the drill pads, backfill, recontour, and stabilize the drill cutting sumps, cap drill holes, and the labour associated with capping drill holes.	\$23,629	\$40,549 (\$16,920)	Bldgs & Equip (Fed)



	Changes to Reclamation Activities	FEDERAL Recia	amation Security	
ltem		ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	 The cost to revegetate these areas has been revised to reflect the additional structures (Item 2.0).and based on new information provided in the Proponent's estimate. The new information includes an increase in the required area for revegetation from 20% to 50% and the additional revegetation of Storage Facilities at the Hidden Lake Camp on federal land. New cost based on Proponent's estimate associated with reclamation of sumps at the Hidden Lake campsite. The CRP indicates that sumps are filled and levelled during closure. Dimensions of these two sumps are described in the Waste Management Plan. Based on this information, ARKTIS has incorporated the cost for sump reclamation at the Hidden Lake campsite on federal land. New cost added to adopt new reclamation activity indicated in Proponent's estimate – scarify camp, building, and laydown areas. This reclamation activity appears to align with the LUP (Condition 81) which indicates that the Proponent "shall prepare the site in such a manner as to facilitate natural revegetation". Based on this information the Proponent's project cost for this activity has been incorporated into this security estimate update The overall net change based on these revisions is an increase in cost. 			
4.0 Reclaim Roads	The cost associated with reclaiming winter roads has been revised to reflect the winter road length on Federal land based on current information. Based on site maps for the length of road on Federal land, the number of anticipated portages has decreased.	\$3,000	\$500 (-\$2,500)	Bldgs & Equip (Fed)



	Changes to Reclamation Activities	FEDERAL Reci		
ltem		ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	Therefore, based on this information ARKTIS has updated the costing in this RECLAIM estimate.			
5.0 Consolidation of Hazardous Material	Based on the Proponent's estimate, the RECLAIM high unit cost rate was used and a new line item was added for one (1) additional personnel to assist the Environmental Technician / Coordinator. Without further information, ARKTIS has adopted the Proponent's cost estimate which results in an increase in cost.	\$890	\$2,155 (\$1,265)	Chemical (Fed)
6.0 Hazardous Materials Removal	The cost for removal of waste fuel stored at the Hidden Lake Camp was updated to reflect the increase in fuel on-site from 20,000 L to 25,000 L.	\$8,597	\$10,397 (\$1,800)	Chemical (Fed)
	It is noted that the Proponent has included an additional cost for removal of 36 barrels of waste fuel (assuming 10% remaining) which would exceed the maximum fuel allowance on site, per Licence application.			
7.0 Hazardous Material	The Proponent's estimate indicates a new line item attributed to the disposal of five cubic meters (5m³) of hazardous waste offsite at a tipping fee of \$240 per cubic meter. Without further information available, ARKTIS has adopted the Proponent's estimate.	\$0	\$1,200 (\$1,200)	Chemical (Fed)
	Demobilization of this waste to the offsite location is addressed in the Mobilization worksheet.			
8.0 Contaminated Soils	Based on recent information in the Proponent's amendment application, the number of soil samples to support the Phase 1 ESA was updated to reduce the number of samples on federal land. However, the overall increase in cost is due to the application of the RECLAIM unit cost for a Phase 1 ESA as indicated in the Proponent's estimate.	\$6,290	\$8,790 (\$2,500)	Chemical (Fed)
9.0 Contaminated Soil Removal	The Proponent's estimate indicates an update to the quantity of contaminated soil anticipated on federal land. ARKTIS has therefore updated the costing	\$304	\$8,388 (\$8,084)	Chemical (Fed)



	Changes to Reclamation Activities	FEDERAL Recl		
Item		ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	attributed to decontaminating and contouring the area based on the Proponent's information. ARKTIS has assumed that the updated volume encompasses the 1 m³ described in the Waste Management Plan. The increase in contaminated soil and additional contouring activity result in an increase in cost.			
10.0 Post-closure Monitoring and Maintenance	The Proponent's estimate indicates a summer inspection that is attributed to the Federal liability portion only. ARKTIS has assumed inspection of all sites would be included. The total number of sites is assumed to be 8 with 2 federal sites (Hidden Lake Camp and lease NT-3366) and 6 territorial sites (NITE, BIG, Ki, Fi, and Shorty leases), per Project Description. The Proponent has indicated that the inspection would take place during the summer which requires helicopter support, per Project Description. Without additional information available, ARKTIS has updated the costing for Post-closure Monitoring and Maintenance to include this cost with a 75:25 split for the territorial and federal liability, respectively. Additionally, helicopter support based out of Yellowknife for the assumed eight (8) sites has been included in the updated cost estimate.	\$0	\$5,141 (\$5,141)	Post Closure (Fed)
11.0 Mobilize Heavy Equipment	Based on Proponent correspondence (Mar 17, '23), new equipment for reclamation activities (snow cat) was required. Additionally, the duration to complete reclamation activities on federal land was updated based on estimated duration of activities from current information. ARKTIS has updated the cost to reflect these changes. It is assumed equipment will be shared between the Federal and Territorial sites; therefore, costing was split based on the relative proportion of territorial to	\$10,000	\$5,849 (- \$4,151)	Mobilization (Fed)
	new equipment for reclamation activities (snow cat) was required. Additionally, the duration to complete reclamation activities on federal land was updated based on estimated duration of activities from current information. ARKTIS has updated the cost to reflect these changes. It is assumed equipment will be shared between the	ψ10,000		



		FEDERAL Reci	amation Security		
Item	Changes to Reclamation Activities	ARKTIS Dec. 2022 RECLAIM ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)		RECLAIM Worksheet	
	These updates result in a decrease in the federal portion of the security estimate.				
12.0 Mobilize Camp	Proponent's estimate indicates a minimal requirement for the camp. Without further information and due to the use of temporary structures in the exploration camp, ARKTIS has adopted the Proponent's cost estimate.	\$0	\$4,000 (\$4,000)	Mobilization (Fed)	
13.0 Mobilize Workers	It is assumed workers (supervisors, operators, and labourers) completing reclamation activities will be shared between the Federal and Territorial sites; therefore, costing has been split based on the relative proportion of territorial to federal capital costs. As a result of updated capital costs, the cost of the shared worker mobilization and demobilization has been updated.	\$1,239	\$1,043 (-\$196)	Mobilization (Fed)I	
14.0 Worker Accommodations	Person days needed to complete reclamation activities are based on the estimated amount of building teardown, demobilize drill rigs, reclaiming abandoned drill holes, and winter road construction. Based on recent information, the total number of person days to complete the reclamation activities has decreased to 39.9 days total due to the decrease in number of anticipated drill holes on federal land.	\$5,810	\$3,570 (-\$2,240)	Mobilization (Fed)	
15.0 Mobilize Fuel	The estimated volume of fuel required to complete reclamation activities was updated to correspond with the revised estimate for the duration of reclamation activities. Although the volumetric amount of fuel decreased, the amount remained within the freight capacity of the flat-bed trucks for mobilization. Thus, there was no change in cost.	\$930	\$930 (no change)	Mobilization (Fed)	
16.0 Winter Road Construction and Operation	The cost to construct and operate the winter road situated on federal land was updated based on new site maps clarifying federal and territorial land designation. Based on the current information, ARKTIS has updated the cost estimate for the winter road construction and maintenance on federal land.	\$30,000	\$9,400 (-\$20,600)	Mobilization (Fed)	



	Changes to Reclamation Activities	FEDERAL Reci	FEDERAL Reclamation Security		
ltem		ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet	
17.0 Demobilize Heavy Equipment	The cost to demobilize heavy equipment was revised to include additional equipment required for reclamation. It was noted in the Proponent's correspondence (item 11) that an additional snow cat was required. Demobilization of operations equipment was also revised to reflect the additional pieces of equipment present on-site based on the CRP. The additional pieces are summarized as follows: 3 water trucks 2 snow machines 4 pick-up trucks 4 diesel generators In addition to the change in pieces of equipment, the federal and territorial split was updated based on updates to capital costs. Overall, these updates increase the federal security	\$8,134	\$9,652 (\$1,518)	Mobilization (Fed)	
18.0 Demobilize Camp	estimate portion. Proponent's estimate indicates a minimal requirement for the camp. Due to the use of temporary structures in the exploration camp, ARKTIS has adopted the Proponent's cost estimate.	\$0	\$4,000 (\$4,000)	Mobilization (Fed)	
19.0 Demobilize Waste	The cost to demobilize waste offsite was updated based on new information presented in the Proponent's estimate. The Proponent's estimate indicates an update to the total number of truckloads (2 to 3) to be transported to Yellowknife and the anticipated amount of solid waste (40 tonnes) from federal lands. Based on the assumed capacity of the trucks it is assumed that the truckloads are allocated to demobilize 1) waste, 2) hazardous waste, and 3) contaminated soil. Without further information available ARKTIS has updated the cost to reflect the new information provided for waste demobilization. The tipping fees have also been updated to reflect current rates (as of January 2023).	\$17,910	\$11,053 (- \$6,857)	Mobilization (Fed)	



	Changes to Reclamation Activities	FEDERAL Recla		
Item		ARKTIS Dec. 2022 RECLAIM	ARKTIS Mar. 2023 RECLAIM (Change in Security from 2022 to 2023)	RECLAIM Worksheet
	Additionally, in concordance with the addition of Item 1.0 (Trench reclamation), a new line item for the demobilization of the potentially acid generating (PAG) waste rock possibly generated from the trenches in the Proponent's bulk sampling program has been added in ARKTIS' updated estimate. The federal liability portion is based on the proportion of work anticipated to take place on federal (approximately 10%) and territorial (approximately 90%) lands. The net change based on these revisions is a decrease in the cost to demobilize waste from federal land.			
20.0 Inflation	Reclamation security has been updated to apply a 21.6% inflation rate based on the most recent available data. ARKTIS' estimate applies inflation to capital and indirect costs to address potential increases to various unit costs based on the elapsed time and to better align with more recent security estimates completed for the GNWT. The change in cost reported for inflation is primarily due to the changes in capital and indirect costs.	\$28,509	\$29,117 (\$608)	Total



3.0 RESULTS OF RECLAIM SECURITY UPDATE

Table 3 provides a summary of the updated ARKTIS 2023 financial security estimate to the previous ARKTIS 2022 estimate. The RECLAIM v7 output sheets are provided in Appendix A.

Table 3: Summary of total reclamation security.

	Total	Costs	
Capital Costs	ARKTIS' 2022, Estimate	ARKTIS' March 2023 Estimate	Notes
Underground mine	\$0	\$341	Increase of \$341, see Table 1 and Table 2, line item 1
Buildings and equipment	\$110,395	\$172,577	Increase of \$62,182, see Table 1 and Table 2, line items 2, 3, and 4.
Chemicals and contaminated soil management	\$24,871	\$51,745	Increase of \$21,874, see Table 1 and Table 2, line items 5, 6, 7, 8, and 9.
Interim care and maintenance	\$5,0000	\$5,000	
Inflation (21.6%) mobilization / demobilization and post-closure monitoring and maintenance	\$26,173	\$42,561	Increase of \$16,388, see Table 1 line item 20, and Table 2 line item 20.
SUBTOTAL: Capital Costs	\$166,440	\$272,224	
Indirect Costs	Total Costs		
Mobilization/demobilization	\$138,094	\$175,663	Increase of \$37,569, see Table 1 line items 11 through 19, and Table 2 line items 11 through 19.
Post-closure monitoring and maintenance	\$0	\$20,564	Increase of \$20,564, see Table 1 and Table 2, line items 10.
Engineering (5%)	\$8,322	\$13,611	These indirect costs are calculated as a
Project management (5%)	\$8,322	\$13,611	percentage of the capital cost. The capital costs differ between the estimates and therefore these
Health and safety plans / monitoring and quality assurance / quality control (1%)	\$1,664	\$2,722	indirect costs are different.
Bonding / Insurance (1%)	\$1,664	\$2,722	
Contingency (20%) – applied to capital cost, mobilization / demobilization, post-closure monitoring and maintenance and inflation	\$65,557	\$99,897	
Market price factor adjustment (0%)	\$0	\$0	
Inflation (21.6%) mobilization / demobilization and post-closure monitoring and maintenance	\$23,249	\$31,064	Increase of \$7,815, see Table 1 line item 20, and Table 2 line item 20.
SUBTOTAL: Indirect Costs	\$246,872	\$359,824	
TOTAL COSTS	\$413,312	\$632,048	



4.0 COMPARISON TO PROPONENT'S RECLAIM SECURITY ESTIMATE

A summary of ARKTIS' updated 2023 financial security estimate for the Project with a comparison to the Proponent's 2023 security estimate is provided in Table 4 for the Territorial portion and Table 5 for the Federal portion. Notes detailing the cause for differences between estimates are also provided in the tables. Appendix A provides the RECLAIM output sheets that contain the detailed calculations.

Table 4: Comparison of total territorial liabilities for the Yellowknife Lithium Project

	Territorial Total Costs		
Capital Costs	EREX's March 9, 2023, Estimate	ARKTIS' March 2023 Estimate	Notes
Underground mine	\$0	\$307	Increase of \$307 is attributed to the reclamation of trenches (fill, grade, and revegetate) from the bulk sampling program.
Buildings and equipment	\$54,266	\$96,051	Increase of \$41,785 is due to computational errors in the Proponent's RECLAIM file. The Proponent had mistakenly duplicated the Federal liability portion. Apart from the computational errors, the main cost
			contributors to the increase in security are attributed to the significant increase in number of drill holes on territorial land and the addition of the reclamation activity to scarify the laydown areas at the Hidden Lake Camp which the Proponent had included in their Territorial tab. Additional contributors include additional temporary structures, estimated quantities for reclamation activities indicated by the proponent, and length of winter road on territorial land.
Chemicals and contaminated soil management	\$9,731	\$20,814	Increase of \$11,083 primarily due to the disposal fee of excavated contaminated soil. The proponent's estimate indicates the excavation of contaminated soil as well as contouring of the decontaminated site but excluded the disposal of the contaminated soil. Another contributor to the cost increase is an additional unit for Phase 1 ESA at the Proponent's unit cost in correspondence with the increase in work on territorial land. Other contributors to the increase include differences in estimated person hours for consolidation of hazardous materials, waste fuel disposal, and number of soil sampling for the Phase 1 ESA.
Interim care and maintenance	\$2,500	\$2,500	
Inflation (21.6%)	N/A	\$21,138	Increase of \$21,138 due to inflation and updates to capital costs. EREX's estimate total excludes inflation.
SUBTOTAL: Capital Costs	\$77,559	\$140,811	It is noted that there are errors in EREX's RECLAIM file and the difference in subtotals between estimates here is misaligned with the total of differences in cost of the preceding items above.



	Territorial ⁻	Total Costs					
Capital Costs	Costs EREX'S ARKTIS' March 9, March 2023, 2023 Estimate Estimate		Notes				
Indirect Costs	Territorial Te	otal Costs					
Mobilization/demobilization	\$51,218	\$126,136	Increase of \$74,918 is primarily due to differences in the quantity of estimated waste demobilized from territorial land, demobilization of waste from ECHO lease via helicopter, demobilizing operations equipment from site, and estimated additional person days to complete reclamation activities (i.e., drill holes on territorial land). Finally, another contributor to the increase in security cost is a result of changes in capital cost above that increased the territorial proportion of shared liability items (e.g., reclamation equipment).				
Post-closure monitoring and maintenance	\$0	\$15,423	Increase of \$15,423 due to the assumed territorial and federal split of 75:25 of the summer post-closure monitoring and maintenance cost indicated in the Proponent's estimate. In contrast, the cost for the post-closure summer inspection was fully allocated to the Federal liability in the Proponent's estimate. An additional contributor to the increase in cost is the helicopter support needed during the summer inspection, per Project Description and CRP. The cost of helicopter support was excluded in the Proponents' estimate.				
Engineering (5%)	\$3,878	\$7,041	These indirect costs are calculated as a				
Project management (5%)	\$3,878	\$7,041	percentage of the capital cost. The capital costs differ between the estimates and therefore these				
Health and safety plans / monitoring and quality assurance / quality control (1%)	\$776	\$1,408	indirect costs are different.				
Bonding / Insurance (1%)	\$776	\$1,408					
Contingency (15% vs 20%)	\$11,634	\$61,148	Increase of \$49,514 due to updates to capital costs described above and the difference in contingency percentage used (20% vs 15%).				
Market price factor adjustment (0%)	\$0	\$0					
Inflation (21.8% vs 21.6%)	N/A	\$23,369	Increase of \$23,369 due to inflation and updates to mob/demob and new inspection post-closure. EREX's estimate excludes inflation.				
SUBTOTAL: Indirect Costs	\$72,159	\$242,973					
TOTAL COSTS	\$149,719	\$383,784					



Table 5: Comparison of total federal liabilities for the Yellowknife Lithium Project

	Federal To	otal Costs					
Capital Costs	EREX's March 9, 2023, Estimate	ARKTIS' March 2023 Estimate	Notes				
Underground mine	\$0	\$34	Increase of \$34 is attributed to the reclamation of trenches (fill, grade, and revegetate) from the bulk sampling program. This is the federal proportion based on the proportion of drill holes anticipated on federal and territorial land.				
Buildings and equipment	quipment \$54,266 \$76,526		Increase of \$22,260 is due to increase in building infrastructure quantities indicated in the CRP that were excluded in the Proponent's estimate, differences in estimated quantities for reclamation activities between ARKTIS' and the Proponents' estimate, and updated reclamation activities. A primary contributor was based on the Proponent's approach to scarifying and revegetating the camp and laydown areas which the Proponent had misplaced under the Territorial tab, based on the described area, and estimated footprint. Other contributors include updates to the number of drill holes on federal land, number of generator shacks on site, reclamation of sumps on site, and reclamation of winter road based on current information that were typically higher than the quantities included in the Proponent's estimate. It is noted that EREX's estimate includes the demobilization of operational equipment in this category (tab) instead of the mob/demob category.				
Chemicals and contaminated soil management	\$27,300	\$30,930	Increase of \$3,630 is due to the disposal fee associated with the excavated contaminated soil. EREX's estimate includes the excavation and contouring activities to remove and reclaim the contaminated area but excludes the disposal of the contaminated soil.				
Interim care and maintenance	\$2,500	\$2,500					
Inflation (21.8% vs 21.6%)	N/A	\$21,423	Increase of \$21,423 due to inflation and updates to mob/demob and post-closure inspection. EREX's estimated total excludes inflation.				
SUBTOTAL: Capital Costs	\$84,066	\$131,413					
Indirect Costs	Federal Tota	l Costs					
Mobilization/demobilization	\$55,369	\$49,497	Decrease of \$5,872 due to decrease in the number of light duty truck rentals and decrease in estimated person days to complete reclamation activities resulting from the decrease in the number of drill holes and other reclamation activities located on federal land. Another contributing factor to the decrease in mob/demob cost is a result of the updated proportion of capital costs used to estimate the proportion of shared cost items.				
Post-closure monitoring and maintenance	\$5,000	\$5,141	Increase in \$141 due to additional cost for helicopter support for the summer inspection post-closure and the territorial/federal split of 75:25, respectively. The territorial/federal split is based on				



	Federal To	otal Costs	
Capital Costs	EREX's March 9, 2023, Estimate	ARKTIS' March 2023 Estimate	Notes
			the assumed number of inspection sites located on federal and territorial land.
Engineering (5%)	\$4,203	\$6,571	These indirect costs are calculated as a
Project management (5%)	\$4,203	\$6,571	percentage of the capital cost. The capital costs differ between the estimates and therefore these
Health and safety plans / monitoring and quality assurance / quality control (1%)	\$841	\$1,314	indirect costs are different.
Bonding / Insurance (1%)	\$841	\$1,314	
Contingency (15% vs. 20%)	\$22,429	\$38,749	Increase of \$16,320 due to updates to capital costs described above and the difference in contingency percentage used (ARKTIS' 20% vs EREX's 15%).
Market price factor adjustment (0%)	\$0	\$0	
Inflation (21.6%)	N/A	\$7,695	Increase \$7,695 due to inflation applied to updates to mob/demob and post-closure costs noted above. EREX's estimate has not applied inflation.
SUBTOTAL: Indirect Costs	\$92,886	\$116,851	
TOTAL COSTS	\$176,952	\$248,264	

5.0 RECOMMENDATIONS

This RECLAIM security estimate update calculates the portion of security that is applicable to Federal and Territorial land and water liabilities. It is recommended that the security be held under the appropriate instrument (e.g., land use permit, water licence, etc.). The total reclamation security and recommended Federal/Territorial land and water portions as presented by ARKTIS' and EREX's estimate is provided in Table 6 for a direct cost comparison.

Table 6. Summary of reclamation security.

Estimate	Total Costs	Total Land Liability	Total Water Liability	Territorial Land Liability	Territorial Water Liability	Federal Land Liability	Federal Water Liability
ARKTIS	\$632,048	\$441,094	\$190,954	\$238,419	\$145,365	\$202,675	\$45,589
EREX	\$326,671	\$264,093	\$62,578	\$117,490	\$32,229	\$146,603	\$30,349
Difference	\$305,377	\$177,001	\$128,376	\$120,929	\$113,136	\$56,072	\$15,240



ARKTIS' 2023 estimate update reflects current information provided in the amendment application documentation lists in Section 1 and EREX's correspondence on March 17, 2023. It is noted that EREX's RECLAIM estimate contains items of not such as the exclusion of inflation in the total costs, mistakes in cell references or calculations, and discrepancies in quantities from values indicated in the CRP, Project Description, and/or other cost items within the RECLAIM estimate.

Additional information from EREX's amendment application and correspondence has addressed some uncertainties identified in ARKTIS' 2022 review and RECLAIM estimate. Where applicable, the new data and information have been incorporated in this RECLAIM security estimate update. Additional information and details for further consideration and/or to be provided by EREX to further refine the reclamation security estimate and address outstanding uncertainties include without limitation:

Underground Mine

1. Description of closure and reclamation activities anticipated for the trenches. Include an estimate for the quantity of potential PAG waste rock that may require off-site disposal.

Buildings & Equipment

- 1. The number of drill pads/holes requiring remediation on Federal and Territorial leases for the 2023-24 program has been provided in the CRP however it is uncertain whether these numbers are representative of the annual average. The distribution of drill holes located on federal and territorial land has been used to inform the cost split of select items in the RECLAIM security estimate. Since the distribution and number of drill holes may vary in future years of mineral exploration, the proportion of Federal and Territorial costs allocated to these components may also change. Further information detailing the anticipated number of drill holes on Federal and Territorial leases on an annual basis for the duration of the program may further refine the cost split for the security estimate.
- 2. Some additional clarification regarding the length of winter road portages on Federal and Territorial leases was provided in correspondence and has been incorporated in updating the RECLAIM estimate. However, it is unclear whether EREX is responsible for construction and operation of the Thompson-Lundmark winter road or section of the winter road. The number of ice bridges crossing streams and creeks also remains uncertain.
 - a. Length of the existing Thompson-Lundmark winter road for which EREX is required to complete construction and operation.
 - b. Estimated number of ice bridges crossing streams/creeks on Federal and Territorial leases that will require reclamation (i.e., V-notching).
- 3. Identify all areas that require reclamation and describe the closure and reclamation activities anticipated for these areas (e.g., scarification, seeding, regrading, etc.). Include estimated quantities or map(s) providing a clear delineation of areas and the reclamation activities to occur.
- 4. The drilling programs described in the Project Description indicate variability in drill location between federal and territorial land such as during the transition between the Spring-Summer and Winter Programs. Due to the variability in drill location, there is uncertainty of drill location at the time of abandonment which may affect the Federal/Territorial cost split for drill removal. Presently, the cost split is assumed to be 50:50, however further information detailing the locations of all drills throughout the year may further refine the cost split for the security estimate.

Interim and Post-Closure Monitoring and Maintenance

- 1. Describe the interim monitoring/inspection locations and duration.
- 2. Describe the post-closure monitoring/inspection locations and duration.

Mobilization/Demobilization

1. An estimate of 21 days was indicated by EREX as the duration of the anticipated reclamation program however, specific details on the reclamation activities required to be completed within the program and their timelines are unclear.



- a. Provide a detailed schedule for all closure and reclamation activities, including equipment requirements associated with these activities, and the crew and time requirements to complete the activities.
- b. Estimate fuel requirements to support, sustain, and complete the reclamation activities on Federal and Territorial land.
- 2. Confirm the disposal location and all applicable fees associated with the types of waste for off-site disposal. It is noted that the Waste Management Plan (v1.2) did not include attachments in Appendix A.

6.0 DISCLAIMER AND CLOSURE

ARKTIS Solutions Inc. assumes no responsibility for inappropriate use of the contents of this report and disclaims all liability arising from negligence or otherwise in respect of such information and recommendations presented in this report. General terms and conditions are available in Appendix B.

ARKTIS SOLUTIONS INC.

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APPENDIX A - RECLAIM OUTPUTS

Reclaim 7.0 Project: EREX Yellowknife Lithium

SUMMARY OF COSTS

CAPITAL COSTS	COMPONENT NAME	COST	TOTAL TERRITORIAL	Territorial Land Liability	Territorial Water Liability	TOTAL FEDERAL COST	Federal Land Liability	Federal Water	Source of Information	Comparison to Proponent's Security
	COMPONENT NAME								Reclamation of bulk sampling program based on	
UNDERGROUND MINE ROCK PILE		\$341 \$0	\$307 \$0	\$307 \$0	\$0 \$0	\$34 \$0	\$34 \$0		assumed activities.	Not included in Proponent's estimate.
ROCK PILE		\$0	20	\$0	\$0	\$0	\$0	\$0		Proponent has referenced the FED value twice in the total cost for this item. Discrepancies between description for line items and CRP/ Project Description (see Bldgs. & Equip Tabs), E.g., number holes,
BUILDINGS AND EQUIPMENT		\$172,577	\$96,051	\$63,363	\$32,689	\$76,526	\$73,482	\$3,043		additional buildings
CHEMICALS AND CONTAMINATED SOIL MANAGEMENT	•	\$51,745	\$20,814	\$10,424	\$10,390	\$30,930	\$15,465	\$15,465		
SURFACE AND GROUNDWATER MANAGEMENT		\$0	\$0	-	\$0	\$0	-	\$0		
INTERIM CARE AND MAINTENANCE		\$5,000	\$2,500	-	\$2,500	\$2,500	-	\$2,500		
INFLATION (2014 to 2023) ON CAPITAL COSTS	21.6%	\$42,561	\$21,138	\$13,383	\$7,756	\$21,423	\$18,300	\$3,123		Inflation is not applied in the total estimate values.
	SUBTOTAL: Capital Costs	\$272,224	\$140,811	\$87,476	\$53,335	\$131,413	\$107,281	\$24,132		
	PERCENT OF SUBTOTAL		52%	62%	38%	48%	82%	18%		
INDIRECT COSTS		COST	TOTAL TERRITORIAL COST	Territorial Land Liability	Territorial Water Liability	TOTAL FEDERAL COST	Federal Land Liability	Federal Water Liability		
MOBILIZATION/DEMOBILIZATION		\$175,633	\$126,136	\$78,360	\$47,776	\$49,497	\$40,408	\$9,089		
										includes inspection allowance of \$5000 total under federal tab. Excludes ter/fed split. Excludes helicopter/air support for the summer
POST-CLOSURE MONITORING AND MAINTENANCE		\$20,564	\$15,423	\$9,581	\$5,842	\$5,141	\$4,197	\$944		inspection.
ENGINEERING	5%	\$13,611	\$7,041	\$4,374	\$2,667	\$6,571	\$5,364	\$1,207		
PROJECT MANAGEMENT	5%	\$13,611	\$7,041	\$4,374	\$2,667	\$6,571	\$5,364	\$1,207		
HEALTH AND SAFETY PLANS/MONITORING & QA/QC	1%	\$2,722	\$1,408	\$875	\$533	\$1,314	\$1,073	\$241		
BONDING/INSURANCE	1%	\$2,722	\$1,408	\$875	\$533	\$1,314	\$1,073	\$241		For Federal split - Includes 15% contingency on capital costs. Excludes post-closure and inflation.
										For Territorial split - Includes 15% contingency on capital costs ONLY. Excludes all indirect costs and inflation.
									Includes a 20% contingency, applied to capital costs, mob/demob, post-closure and inflation	Based on RECLAIM Manual (2017, Mining), 15% is used if there is "Little detailed engineering and costs based upon verbal quote". Presently, it is unclear whether any
CONTINGENCY	20%	\$99,897	\$61,148	\$37,987	\$23,161	\$38,749	\$31,634		costs. Follows RECLAIM manual	detailed engineering and cost quotes have been provided.
MARKET PRICE FACTOR ADJUSTMENT	0%	\$0	\$0	\$0	\$0	\$0	\$0			
INFLATION (2014 to 2023)	21.6% _	\$31,064	\$23,369	\$14,518	\$8,851	\$7,695	\$6,282	\$1,413	Inflation update to Jan 2023	Inflation was excluded
	SUBTOTAL: Indirect Costs	\$359,824	\$242,973	\$150,942	\$92,031	\$116,851	\$95,394	\$21,458		
TOTAL COSTS		\$632,048	\$383,784	\$238,419	\$145,365	\$248,264	\$202,675	\$45,589		
		¥552,546	4000 ,104	4200,710	Ţ,300	¥= .0,±04	+ 202,010	¥ .5,500		

Statistics Canada inflation rate for YK from January 2014 (Consumer Price Index 127.0) to 154.4 Jan 2023 for inflation of 21.6%. (https://www150.statcan.gc.ca/l1/lb11/en/tv.action?pid=1810000401)



TERRITORIAL RECLAIM OUTPUTS

Reclaim 7.0 Project: EREX Yellowknife Lithium

1 Underground Mine Nam	10			UG Mine # 1					
ACTIVITY/MATERIAL	Notes	Unit	Qty Code	Unit Cost	Cost %	Land Land Cost Water	Cost	Source of Information Comparison to Proponent's Security Information Requested from Pr	oponent
CONTROL ACCESS									
Fence Signs		m each	#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	\$0 \$0		
Block roads		eacn m3	#N/A	\$0.00	\$0 \$0	\$0 \$0	\$0		
Berm		m3	#N/A	\$0.00	\$0	\$0	\$0		
Concrete wall in portals		m3	#N/A	\$0.00	\$0	\$0	\$0		
Trench stabilization/regrade	Assume as-constructed long-term stable.	m3	0 #N/A	\$0.00	\$0	\$0	\$0	Assume as-constructed bulk sample trench is long-term stable. Not included in proponent's estimate	
Waste rock disposal fee	Tipping fee of \$30 /lonne	tonne	5 #N/A	\$30.00	\$135	100% \$135	\$0	Based on Project Description, up to 10 tonnes of rock may be broken out of 10 trenches where each sample would weigh up to one tonne. Assume 50% waste rock from bulk sample (5 tonnes) is PAG and requires removal from sile at closure. Assume disposal location for PAG waste rock located in Aberta. It is assumed all bulk sample has already been removed from sile. Tipping fee assumed based on reasonable tipping fees for metal contaminated soil in Alberta. Tipping fee is adjusted for inflation from Feb 22. Transportation off-site is included under Demobiliza Waste in the Mobilization tab. Assume 60% Firer, 10% Feb Cabed on drill holes per terrified lease. Applies inflation from 2022 to Jan 2023.	
		5.15	S mun	400.00	V ISS	Ţ.	•	Tourch dimensions are trenches are approx. 2.5 m long, 0.5 m deep and 0.3 m wide per Project Description. Assume trenches to be filed and levelled. Total cost reported. Assume profix Firm; 10% Foch based on drill holes per terrified lease.	
Replace top soil cover	Assume fill and level/grade trench area.	m3	37.5 SB3L	\$5.10	\$172	100% \$172	\$0	\$37 Territorial cost reported only Confirm reclamation activity of territorial	nches
								Assume trench area will be revegetated. Assume trench revegetation cost to be included in drill pad revegetation under Bidgs & Equip Not included in proponent's estimate	
Revegetate trench area Backfill Portal	Assume trench area is revegetated.	ha m3	#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	\$0 \$0	50 tabs. Confirm reclamation activity of tren	nches
Backfill Portal		m3	#N/A	\$0.00	\$0	\$0	\$0		
Cap raise # 1		m3	#N/A	\$0.00	\$0	\$0	\$0		
Cap raise #2		m3	#N/A	\$0.00	\$0	\$0	\$0		
Cap shaft #1		m3	#N/A	\$0.00	\$0	\$0	\$0		
Cap shaft #2		m3	#N/A	\$0.00	\$0	\$0	\$0		
Backfill adits		m3	#N/A	\$0.00	\$0	\$0	\$0		
Backfill open stope		m3	#N/A	\$0.00	\$0	\$0	\$0		
Concrete cap over open stope Other		m3	#N/A #N/A	\$0.00 \$0.00	\$0 \$0	\$0 \$0	\$0 \$0		
REMOVE HAZARDOUS MATERIALS			#IWA	\$0.00	φU	φ0	\$0		
Remove hazardous materials, U/G labor		mandays	#N/A	\$0.00	\$0	\$0	\$0		
Remove/decontam. stationary & elect. equip		mandays	#N/A	\$0.00	\$0	\$0	\$0		
Remove/decontam. mobile equipment		each	#N/A	\$0.00	\$0	\$0	\$0		
Remove misc. haz. mat & explosives		kg	#N/A	\$0.00	\$0	\$0	\$0		
Other INSTALL BULKHEADS			#N/A	\$0.00	\$0	\$0	\$0		
Bulkheads to control water flow		each	#N/A	\$0.00	\$0	\$0	\$0		
Grout bulkhead		m3	#N/A	\$0.00	\$0	\$0	\$0		
FLOOD MINE									
Supply/install pump		each	#N/A	\$0.00	\$0	\$0	\$0		
Supply/install piping system		each	#N/A	\$0.00	\$0	\$0	\$0		
Operate pumps to flood workings		m3	#N/A	\$0.00	\$0	\$0	\$0		
Other INSTALL GROUNDWATER COLLECTION S	SYSTEM		#N/A	\$0.00	\$0	\$0	\$0		
Excavate/install sumps	7101EM	m2	#N/A	\$0.00	\$0	\$0	\$0		
Install pumping wells		m3	#N/A	\$0.00	\$0	\$0	\$0		
Install pumps/pipelines/power supply SPECIALIZED ITEMS		LS	#N/A	\$0.00	\$0	\$0	\$0		
Install water quality monitoring pipes		personhours	#N/A	\$0.00	\$0	\$0	\$0		
Install permanent pumping system		each	#N/A	\$0.00	\$0	\$0	\$0		
Other			#N/A	\$0.00	\$0	\$0	\$0		
				Total	\$307	\$307 100%	\$0	Territorial cost reported here. Assume 90% territorial and 10% federal based on described work in Project Description.	
				% of Total		Inflation	0%		

Inflation
Land Cost Water Cost
\$42 \$0

1 Building / Equip Name: Bldg / Equip #: 1

1 Building / Equip Name				Bldg / Equip #: <u>1</u>							
ACTIVITY/MATERIAL DISPOSE MOBILE EQUIPMENT	Notes		uantity Cost Code	Unit Cost		nd Land C	Cost Water Cos		Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
Decontaminate and ship off-site Decontaminate and dispose on-site		allow allow	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$1 \$0 \$1				
Decorial mate and dispose or site	NITE&BIG lease: 2 drills. 1 supervisor.	diow	men	φυ.σσ	\$0		φυ φι		Assume 1 drill per lease (NITE, BIG) based on CRP. Assume approx. 5 hrs per drill to pack up and remove to Yellowknife.		
Drill removal - supervisor labour	5 hrs/drill to demob to Yellowknife.	personhrs	10 Superl	\$52.00	\$520 10	00%	\$520 \$0		\$112 Assume 1 supervisor to oversee work.	Included into Proponent's estimate	
Drill removal - drill crew labour	N TE&BIG lease: 2 drills. Drill crew of 4. 5 hrs/drill to demob to Yellowknife.	personhrs	40 lab-sl	\$41.00	\$1,640 10	00% \$1	1,640 \$0		Assume 1 drill per lease (NITE, BIG) based on CRP. Assume approx. 5 hrs per drill to pack up and remove to Yellowaffile, 4 person drill crew, based on Proponent's estimate ("Assumes 2.5 days total, by 4 person crew for 7 drills total. Use \$354 project specific unit cast. No terrifed spir provided.").	s Included into Proponent's estimate	
	NITE&BIG lease:								Assume 1 drill per lease (NITE, BIG) based on CRP.		
Drill removal - Hiab	2 drills. 2 loads/drill. 5 hrs/drill to demob to Yellowknife by flatbed truck.	hrs	20 Hiabl	\$155.00	\$3,100 10	00% \$3	3,100 \$0		Assume approx. 5 hrs per drill to pack up and remove to Yellowknife, 2 loads/drill, based on Proponent's estimate \$670 ("Assumes 2 loads/drill at 5hrs/drill. No terr/fled split provided.").	Included into Proponent's estimate	
Drill removal - supervisor labour	ECHO (formerly THOR) lease: 2 drils. 1 supervisor. 5 hrs/drill to demob to Yellowknife.	personhrs	10 Superi	\$52.00	\$520 10	00%	\$520 \$0		per Project Description, N-3192 (ECHO (formerly known as THOR)), Assume up to 2 drils for ECHO lease, based on CRP. Assume approx. 5 his per drill to pack up and remove to Yellowknife, based on Proponents estimate. \$112 Assume 1 supervisor to oversee work.	Included into Proponent's estimate	
									D 1 1 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Drill removal - drill crew labour	ECHO (formerly THOR) lease: 2 drils. Drill crew of 4. 5 hrs/drill to demob to Yellowknife.	personhrs	40 lab-sl	\$41.00	\$1,640 10	00% \$1	1,640 \$0		per Project Description, N-3192 (ECHO (formerly known as THOR)). Assume up to 2 drils for ECHO lease, based on CRP. Assume approx. 5 hrs per dril to pack up and remove to Yellowknife, 4 person drill crew, based on Proponent's estimate \$354 ("Uses project specific unit cost. No terrifed split provided."). Helicopter access only to ECHO lease per Project Description. Up to 2 drills per Project Description. Assume up to 2 hrs flying time to demote aach drill to Yellowknife 2 drills "2 hrs/drill = 4 hrs total. Included costs based on helicopter quotation from Sahtu Helicopters Jan 22, 2021. Flight time = \$1850.hr '4 hr flight/day = \$7,400	Included into Proponent's estimate	
	ECHO (formerly THOR) lease: 2 drills.								Fuel usage = \$744/hr * 4 hrs = \$2,976 Total = \$10,376 (per lease)		
Drill removal - heli	z ums. Heli - time	allowance	1 #N/A	\$10,376.00	\$10,376 10	00% \$10	0,376 \$0		\$1,193 Inflation from Jan 2021 to present applied.	Included in Proponent's estimate	
Other			#N/A	\$0.00	\$0		\$0 \$1)	Addressed in the mob tab.	Proponent's estimate includes additional truck cost to remove other stuff.	
REMOVE BUILDINGS - see note below	ECHO (formerly THOR) lease:										
Accommodation Complex	Temporary structures: tent, soft-sided Sleepers (7), Kitchen (1)	m2	168.6 BRWL	\$27.50	\$4,635 10	00% \$4	4,635 \$1		\$1,001 Quantities and structures from CRP (Table 3)	Included in Proponent's estimate Excludes 3 sleepers	
Process Facilities Offices, Repair, Lab, Warehouse	ECHO (formerly THOR) lease: Temporary structures: tent, soft-sided Dry (1), Office (1)	m2 m2	#N/A 42.1 BRWL	\$0.00 \$27.50	\$0 \$1,159 10	00% \$1	\$0 \$0 1,159 \$0		\$250 Quantities and structures from CRP (Table 3)	Included in Proponent's estimate	
Storage Facilities Water and Wastewater Treatment Facilitie		m2 m2	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$1 \$0 \$1)	, ,	•	
U/G Heating Plant	35	m2	#N/A	\$0.00	\$0		\$0 \$1)			
Emulsion Plant AN Storage Facility		m2 m2	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$i \$0 \$i				
Artourage raciny	NITE&BIG lease: Temporary structures: tent, soft-sided Emergency shelter (2) ECHO lease:	me.	#NO	40.00	30		30 3				
Warehouse, Shops and Other	Temporary structures: tent, soft-sided Core logging (1), Core cutting (1)	m2	84.3 BRWL	\$27.50	\$2,318 10	00% \$2	2,318 \$		\$501 Quantities and structures from CRP (Table 3)	Included in Proponent's estimate. Excludes (2) core logging, cutting tents	
Storage Facility at Laydown/Airstrip		m2	#N/A	\$0.00	\$0		\$0 \$1)			
Fuel tanks	No fuel tanks present on territorial land. All fuel stored in drums, cylinders, tubes, cans, pails See 'Chemicals' and 'Mob' for removal and disposal.	each	#N/A	\$0.00	\$0		\$0 \$1		CRP and LLP application indicates all fuel storage on territorial land will be in drums, cylinders, tubes, cans or pails. Transport costs for fuel containers addressed in Mob lab. Handling and disposal costs addressed in Chemicals tab.		
Freshwater intake Reclaim pumps		m2 m2	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$1 \$0 \$1				
Outfall & Diffuser Airstrip lighting, navigation, electrician		m2	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$i				
Airstrip lighting, navigation, mechanical		persondays	#N/A	\$0.00	\$0		\$0 \$t)			
Break foundation slabs Consolidate & dump boneyard debris		m2 m3	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$i				
Other LANDFILL FOR DEMOLITION WASTE		allow	#N/A	\$0.00	\$0		\$0 \$)			
Place rock cover		m3	#N/A	\$0.00	\$0		\$0 \$1				
Place soil cover Vegetate		m3 ha	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$1 \$0 \$1				
GRADE AND CONTOUR PADS									Uses Proponent's approach of tent and building area + 5%.		
Accommodation Complex	Scarify area beneath and around tents and buildings +	ha	0.031 scfyl	\$4,300.00	\$133 10	00% :	\$133 \$i	,	Use camp and building area footprint described in CRP. Uses Proponent's approach for camp on federal land for \$29 consistency	item was identified in Proponent's estimate but incomplete and not included in estimate cost.	Confirm and identify the areas to
Process Facilities	Scarry area beneath and around tents and buildings +	ha	#N/A	\$0.00	\$0	0070	\$0 \$1)	φεο- consistency	moonpete and not included in estimate cost.	De acarmed
Offices, Repair, Lab, Warehouse Storage Facilities		ha ha	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$(
Water and Wastewater Treatment Facilitie	es	ha ha	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$i)			
Emulsion Plant		na ha	#N/A #N/A	\$0.00	\$0 \$0		\$0 \$1				

Building / Equip Na	1110.			Bldg / Equip #: 1							
CTIVITY/MATERIAL	Notes	Units C	tuantity Cost Code	Unit Cost	Cost La	and Land Cos	st Water Cost	Inflation	Source of Information Adopted Proponent's footprint estimate for laydown area.	Comparison to Proponent's Security Proponent's estimate indicates a laydown area	Information Requested fr Proponent
arehouse, Shops and Other	Scarify laydown areas	ha	0.003 scfyl	\$4,300.00	\$11 1	00% \$1	11 \$0		Uses Proponent's approach for camp on federal land for \$2 consistency	of 25ha (50m by 50m) but incomplete and not included in estimate cost	Confirm and identify the a be scarified
ce rock cover	Scarry layuuwri areas	m3	#N/A	\$0.00	\$0		\$0 \$0		92 CONSISTENCY	included in estimate cost	De scarilleu
mp/building/fuel cache area - egetate	Territorial land (incl. NITE, BIG and ECHO lease): Vegetate	ha	0.15 VHFL	\$4,000.00	\$ 590 1	00% \$59	90 \$0	\$1	Assume total building footprint x10 for camp/pad/fuel cache footprint. Assume 50% of building/camp/fuel cache area on these three tasses requires revegetation based on Proponent's estimate.	Proponent's estimate does not reflect the updated footprint of temporary structures on Territorial land.	
ill pads - Re-vegetate	Vegetate 200 m2/drill pad	ha	1.0 VHFL	\$4,000.00	\$4,032 1	00% \$4,03	32 \$0	S	Assume drill pad size based on Proponent's estimate. Assume 20% of total drill pad area requires re-weg, based on Proponent's estimate. CRP describes a total of 281 holes are anticipated for 2023-24. Assume 1 years worth (280 holes/pads, rounded) will require reclamation, based on CRP and Proponent's estimate. Approx. 90% of drill holes/pads located on territorial land based on number of holes drilled, per CRP (22 of 281 on Fed. I and is 871 10%,, rounded; 259 of 281 on Terr, land is 90%, rounded)	Assumes 20% of 280 total drill pads require reveg. Estimates drill pads = 10m x 20 m Assumes costing for reveg of 1 ha of land. Assume Terr/fed split 50%.	Confirm the drill pad footp and required revegetation coverage
rill cuttings sumps	Backfill, recontour, stabilize 1 m2/sump	m2	252 #N/A	\$100.00	\$25,200	50% \$12,60	00 \$12,600	\$5,4	Sump footprint (1 m2/sump) from Proponent's estimate. Uses Proponent's unit cost for backfill, reconbur and stabilize. Assume infill material is adjacent to sump from initial excavation. Assume 1 sump/drill hole, with number of drills holes assumed as 43 noted above.	Includes project-specific sump backfill/recontour unit cost. Assumes 90 sumps total for territorial	
									CRP indicates drill holes are to be capped/sealed with plugs or concrete. Assume 3' diameter drill holes. Assume clay benhonite cap for 2 m. Approx. 0.01 m3/drill hole or 18 kg/hole Estimate approx. \$2.2/kg based on retail rates. Assume mobilized with other items/crew in Mob tab.		
rill holes - capping	Clay bentonite for capping.	kg	4536 #N/A	\$2.20	\$9,979	50% \$4,9	90 \$4,990	WA, current rate	Number of drill holes on terr. land determined as previously noted above	Assumes 180 holes at 50% split in Proponent's Territorial (GNWT) estimate	
rill holes - cap/plug	Drill holes on territorial land	personhours	504 LAB-SH	\$49.60	\$24,998	50% \$12,48	99 \$12,499	\$5,4	Assume 2 skilled labourers to plugicap drill holes at: 0.5 hr to plugicap 0.5 hr to move to next hole Thus, 1 hr/drill hole Number of drill holes on terr. land determined as previously noted 400 above	Assumes 180 holes at 50% split in Proponent's Territorial (GWWT) estimate	
									Based on Proponent's estimate. CRP indicates that sumps are filled and leveled. Assume sump at camp on ECHO lease (Territorial)	included in Proponent's Territorial (GNWT)estimate.	
ade Greywater Sump	1m by 3m by 6 m	each	1 #N/A	\$200.00	\$200	50% \$10	00 \$100	WA, project cos	Assume infill material is adjacent to sump from initial excavation.	Assumes project cost	
INCTURE LINED SUMPS ncture liner and place soil cover		m3	#N/A	\$0.00	\$0	\$	\$0 \$0				
CLAIM ROADS											
move culverts move bridges		each each	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0 \$0 \$0				
arify and install water breaks		ha	#N/A	\$0.00	\$0		\$0 \$0				
arify airstriip		ha	#N/A	\$0.00	\$0	\$	\$0 \$0				
									Area is not identified nor described in the CRP or Project Description for retritorial faul. The area (1.2 ha) appear to align with the corresponding areas at the Hidden Lake Camp based on site map. Thus, assuming Proponent misplaced then in Territorial tab and cost has been moved to Federal tab and reported here for reference purposes only.	included in Proponent's GNWT estimate. Assume 1.2 ha (approx. 50m by 150m + 30 by	
carify laydown areas	area for core storage, laydown areas, heli-pads, fuel	ha	1.2 #N/A	\$0.00	\$ 0 1	00%	so so		Cost for scarifying these areas on territorial land have been \$0 included above.	30 + 30 m by 120 m area for core storage,	Confirm and Identify these for the territorial camp
egetate	storage	ha ha	1.2 #N/A #N/A	\$0.00	\$0 I		\$0 \$0		ус-пониси авоче.	laydown areas, heli-pads, fuel storage)	ror are territorial camp
	Remove snow fills and ice bridges on winter road								CRP indicates ice bridges at stream crossings are to be v- notched as part of winter road reclamation. Assume Proponent's proposed site-specific unit cost for removing snow fills and ice bridges on portages.		Identify number of anticip
inter roads	portages	each	10 #N/A #N/A	\$500.00 \$0.00	\$5,000 \$0	50% \$2,50	00 \$2,500 50 \$0	\$1,0	080 Estimate up to 10 portages on territorial land based on site maps.	Estimates 4 portages on territorial land	ice bridge.
ther PECIALIZED ITEMS			#N/A	\$0.00	\$0	*	pu \$0				
ther		ha	#N/A	\$0.00	\$0		\$0 \$0				
				Total % of Total	\$96,051	\$63,36 66					

1 Chemicals/Soil Area Name:

Note: The procedures, equipment and packaging for clean up and removal of chemicals or contaminated soils are highly dependent on the nature of the chemicals and their existing state of containment. Government guidelines should be consulted on an individual chemical basis. Any estimate made here should be considered very rough unless specific evaluations have been conducted.

ACTIVITY/MATERIAL	Notes	Units Qua	Cost antity Code	Unit Cost		% L Land C		Water Cost	Inflation	Source of Information	Comparison to Proponent's Security
HAZARDOUS MATERIALS AUDIT Hazardous materials audit		mandays	#N/A	\$0.00	\$0		\$0	\$0			
CONSOLIDATION OF HAZARDOUS MAT	FRIALS	manaayo	77.47.1	ψ0.00	ų,		ΨΟ	•			
										Assume 1 day to oversee removal of residual fuel and contaminated soil from three locations (leases); assume time to travel between locations is included. Total of 6 territorial leases (NITE, BIG, ECHO and FI,Ki, and Shorty) results in 2 days for inspection. Assume 12hrs per day.	Included in Proponent's estimate assumes 1 day for activity at Hidden Lake Camp.
Environmental technician/coordinator	Fuel and contaminated soil removal	personhrs	24 ENVCOH	\$130.00	\$3,120	50%	\$1,560	\$1,560	\$67	4 Unit cost based on Proponent's estimate	Assume 12hr/day
Decontaminate: oil, fuel		persondays	#N/A	\$0.00	\$0		\$0	\$0			
Decontaminate maintenance shop		persondays	#N/A	\$0.00	\$0		\$0	\$0			
Decontaminate power plant		persondays	#N/A	\$0.00	\$0		\$0	\$0			
Decontaminate bulk fuel storage		persondays	#N/A	\$0.00	\$0		\$0	\$0			
Decontaminate ANFO plant		persondays	#N/A	\$0.00	\$0		\$0	\$0			
Decontaminate offices/warehouse/accom		persondays	#N/A	\$0.00	\$0		\$0	\$0			
Removal of asbestos siding on buildings		m2	#N/A	\$0.00	\$0		\$0	\$0			
Removal of friable asbestos on equipment		m2	#N/A	\$0.00	\$0		\$0	\$0			
										Based on Proponent's estimate. Assume skilled labour support is for Enviro. Tech/Coord. Support	Included in Proponent's estimate. Uses high cost estimate
Other	Support/Assist Enviro Tech/Coord	personhrs	24 lab-sh	\$49.60	\$1,190	50%	\$595	\$595	\$25	7 Assume hours based on Enviro. Tech/Coord. (see above)	Assumes 12hrs
HAZARDOUS MATERIALS REMOVAL											
	NITE,BIG, ECHO lease:									Quantity based on 10% of total fuel quantity for site, as	
Waste fuel - diesel, aviation fuel, and gaso	lii 10% of total max on site	litre	2337 ORL	\$0.43	\$1,005	50%	\$502	\$502	\$21	7 identified in CRP.	E 16
										Assume low unit cost given fuel is to be stored in drums or	Fuel from territorial land not included in
	NITE,BIG, ECHO lease:									other small containers, limiting handling requirements	Proponent's estimate.
Propane	10% of total max on site	litre	91 ORL	\$0.43	\$39	50%	\$20	\$20	\$	Estimate 91 L per 100 lb (45 kg) propane cylinder.	CRP and project description indicates fuel
										Assume cost includes disposal fee.	storage in these quantities on ECHO, BIG, ar
Other - various lubricants (e.g., drilling	NITE,BIG, ECHO lease:									Assume unit cost excludes cost for transport off site. Transport	NITE leases (territorial)
fluids)	10% of total max on site	Pri	66 ORL	\$0.43	***	50%	\$14	\$14	_	6 addressed under Mob tab.	•
Waste Oil	10% Of total max on site	litre litre	#N/A	\$0.43	\$28 \$0	50%	\$14	\$14	\$	6 addressed under Wob tab.	
Assav & environmental lab reagents			#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0			
		kg litre	#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0			
Machine shop paints, solvents etc Glycol		litre	#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0			
Process reagents			#N/A	\$0.00	\$0		\$0	\$0			
Nuclear sources		kg allow	#N/A	\$0.00	\$0		\$0	\$0			
Other hazardous materials		allow	#N/A	\$0.00	\$0		\$0	\$0			
HAZARDOUS MATERIALS		allow	mwa	ψ0.00	ΨΟ		ΨΟ	ΨΟ			
INEAR BOOK WATERIALO										included in mob/demob tab	
Transportation to disposal facility	included in mob/demob tab	hrs	#N/A	\$0.00	\$0		\$0	\$0	\$	Assume disposal at Yellowknife Based on Proponent's estimate. Assume this cost was not included in the cost assumption above since it was included as	included in demob tab
										a separate item. Assume this quantity accounts for the hazardous wastes listed in WMP, excluding contaminated soil and waste fuel.	
Disposal fees	hazardous materials	m3	5 #N/A	\$240.00	\$1,200	50%	\$600	\$600	N/A current rate	s Use project unit cost. Assume current rate (no inflation)	disposal
Other	nazardous materiais	IIIO	#N/A	\$0.00	\$1,200	30 /0	\$0	\$000	IVA, current rate	s ose project unit cost. Assume current rate (no illiation)	uisposai
CONTAMINATED SOILS			77.47.1	ψ0.00	ų,		ΨΟ	•			
CONTAININATED SOILS										Fuel storage areas are to be assessed for fuel contamination	
										as noted by the CRP.	
										Assume Phase 1 ESA for Territorial lease drill sites.	
										Uses Proponent's cost allowance.	
										Assume includes travel time and transport.	
										An additional allowance compared to previous estimate due to	
Contam. soil investigation - Phase 1	Phase 1 ESA	allow	2 #N/A	\$5.000.00	\$10,000	50%	\$5,000	\$5,000	\$2.46	 an additional allowance compared to previous estimate due to increase drilling on Territorial leases. 	included in Proponent's estimate
Contam. soil investigation - Phase 1 Contam. soil investigation - Phase 2	THUSE I ZOA	each	#N/A	\$5,000.00	\$10,000	30%	\$5,000	\$5,000	φ2, 10	moreuse urining off Territorial leases.	moduce in Froponent's estimate
Comain, John Hyconyation - Friase 2		Julii	#IN/A	ψυ.υυ	φυ		φυ	φυ		Assume 1 sample per site, 4 current drill locations on territoria	
										land at time of closure and 3 fuel caches. Total of 7 sites.	
										Assume 50:50 split of drills due to uncertainty of location at	
										time of abandonment.	
										Uses Proponent's sample cost allowance.	Includes 4 samples for drill locations at time of
Soil sampling for Phase 1	Soil sampling for Phase 1 ESA	allow	7 #N/A	\$215.00	\$1,505	50%	\$753	\$753	N/A, current rate	s Assume No inflation due to current estimated sample rates.	closure
CONTAMINATED SOIL REMOVAL	,g				Ţ.,.J0		+	Ţ. J0	, zanzini rato		
Excavate and transport to onsite facility		m3	#N/A	\$0.00	\$0		\$0	\$0			
Manage hydrocarbon remediation at facility	,	m3	#N/A	\$0.00	\$0		\$0	\$0			
Reagents/stabilizing agent	•	m2	#N/A	\$0.00	\$0		\$0	\$0			
J			""	70.00	Ψ3		ΨΟ	ψū			
										Quantity based on described approach in Proponent' estimate	
										Unit cost for excavation.	
										Use foot print of areas on Territorial Land, per CRP.	
	Contaminated soil									Assume excavation for transport off site.	3% of total area. Therefore, assumes a dept
Excavate	Contaminated soil Assume 3% of total structures area on	m3	8.85 SB1L	\$4.30	\$38	50%	\$19	\$ 19			Assumes 26.14 m3 total for project based or 3% of total area. Therefore, assumes a dept of 1m3. Includes additional costing line for 1m3

1 Chemicals/Soil Area Name:

Note: The procedures, equipment and packaging for clean up and removal of chemicals or contaminated soils are highly dependent on the nature of the chemicals and their existing state of containment. Government guidelines should be consulted on an individual chemical basis. Any estimate made here should be considered very rough unless specific evaluations have been conducted.

	Contaminated soil							
Disposal fees	Assume 3% of total structures area on Terr. Land	m3	8.85 #N/A	\$300.00	\$2,655	50%	\$1,327	\$1,327
Contour decontaminated area		m3	8.85 dsh	\$3.80	\$34	100%	\$34	\$0
CONTAMINATED SOIL VERY LOW PER	RMEABILITY COVER							
Supply geomembrane, HDPE, ES3, GCL		m2	#N/A	\$0.00	\$0		\$0	\$0
Upper and lower bedding layers		m3	#N/A	\$0.00	\$0		\$0	\$0
Install geomembrane, HDPE, ES3, GCL		m2	#N/A	\$0.00	\$0		\$0	\$0
Erosion protection layer		m3	#N/A	\$0.00	\$0		\$0	\$0
Vegetate		m2	#N/A	\$0.00	\$0		\$0	\$0
Install infiltration/seepage instrumentation	1	allow	#N/A	\$0.00	\$0		\$0	\$0
Other			#N/A	\$0.00	\$0		\$0	\$0
OTHER								
			#N/A	\$0.00	\$0		\$0	\$0
				Total % of Total	\$20,814		\$10,424 50%	

Inflation	
Land	Water
Cost	Cost
\$1,801	\$1,794

	Included disposal fee based on KBL 2020
Use Proponent's disposal fee.	rates.
Inflation from Jan 2020 to present applied.	Includes disposal of 1m3 but excludes the
\$258 Assume off-site disposal of excavated soil	26.14 m3 of excavated soil
	assume approx. 3% of the total area for camp
Based on Proponent's estimate.	requires contouring due to contaminated soil
\$7 Assume contouring of excavated soil area	excavation

1 Interim Care and Maintenance

ACTIVITY/MATERIAL	Notes	Units Qua	ntity Cost Code	Unit Cost	Cost	Inflation Source of Information	Comparison to Proponent's Security
INTERIM CARE & MAINTENANCE							
on-site caretaker		manmonths	#N/A	0	\$0		
extra personnel		manmonths	#N/A	0	\$0		
-electrician		manmonths	#N/A	0	\$0		
-mechanic		manmonths	#N/A	0	\$0		
annual fuel		litre	#N/A	0	\$0		
misc. supplies		allow	#N/A	0	\$0		
pick-up truck		each	#N/A	0	\$0		
small dozer		allow	#N/A	0	\$0		
small excavator		allow	#N/A	0	\$0		
snow machine		allow	#N/A	0	\$0		
communications		allow	#N/A	0	\$0		
SNP/AEMP water sampling & reporting	ıg	each	#N/A	0	\$0		
geotechnical assessment		each	#N/A	0	\$0		
interim water treatment			#N/A		\$0		
						Uses Proponent's cost allowance.	
						No inflation due to current estimated proje	ect Included project-specific cost allowance.
						specific cost.	Includes travel time and transport.
Other	ICM Inspection	allow	1 #N/A	2500	\$2,500	N/A, current rates Assume Territorial amount shown	Territorial (under GNWT Tab)
	·		Annual Interi	m C&M Cost	\$2,500		,
Number of years of IC	M	years	1	Total	\$2,500	\$0 1 years ICM assumed.	included in Proponent's estimate

1 Mobilization/Demobilization:

ACTIVITY/MATERIAL	Notes	Units Qu	Cost antity Code	Unit Cost	Cost Inflat	tion Source of Information Comparison to Proponent's Security Information Requested from Propone
MOBILIZE HEAVY EQUIPMENT						Per RECLAIM manual, it is assumed existing on-site equipment is not
						available for use in reclamation.
						Therefore, assume below equipment is required to be mobilized/demobilized to complete winter road construction and
						reclamation activities. Costs shown are territorial costs unless
						Assume average 1.5 hr travel time between Yellowknife and all leases otherwise noted. Assume difference in Fed/Terr, solit differs
						Dased on site maps. Assume difference in PedJ err. split differs Unless otherwise stated, assume fed/terr split based on capital cost based on differences in proportion of capital Confirm reclamation equipment
Reclamation Equipment						split. Territorial cost reported only. cost requirements.
Excavators	piece. Winter road construction/site reclamation. Transport by 1 flat deck truck.	h	1.5 hiabl	6455	\$120	\$26 Assume 1 load per each piece of equipment. Included in Proponent's estimate.
Excavators	1 piece. Winter road construction/site reclamation.	hrs	1.5 Illabi	\$155	\$120	\$26 Assume 1 load per each piece of equipment. Included in Proponent's estimate.
Dozers	Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$120	\$26 Assume 1 load per each piece of equipment. Included in Proponent's estimate.
	1 piece. Winter road construction/site reclamation, loading flat decks.					
Loader	Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$120	\$26 Assume 1 load per each piece of equipment. Included in Proponent's estimate.
	3 vehicles. Worker access.					Assume trucks will be driven back from site by reclamation staff, with
Light duty vehicles	Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation.	hrs	#N/A	\$0	\$0	\$0 costs addressed with worker mobilization/demobilization. Included in Proponent's estimate. Assume truck driven back from site by reclamation staff, with costs
Water truck	Addressed with worker mobilization.	hrs	#N/A	\$0	\$0	\$0 addressed with worker mobilization/demobilization. Included in Proponent's estimate.
						Assume 3 trucks.
						Typical daily rental rate assumed. Assume mobilization of light trucks to site is addressed with worker
						mobilization costs below. Included in Proponent's estimate.
	Rental fee. 3 trucks for all leases.					Assume reclamation program duration based on reclamation activities. Assumes 13 day program for reclamation \$2,011 Territorial cost reported. activities on Territorial land
Light duty vehicles	3 trucks for all leases.	days	90 #N/A	\$200	\$9,311	\$2,011 Territorial cost reported. activities on Territorial land Per Proponent's correspondence (Mar 17), listed the addition of a
						snow cat as a required equipment to support reclamation of the
Snow cats	piece. Winter road construction/site reclamation. Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$120	fed/terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Not included in Proponent's estimate.
		allow	#N/A	\$155	\$120	SZO ASSUIRE I MAU PER GAUTI PIECE OF EQUIPMENT. 1901 INMOUGH IN ETOPOTIENTS ESSITIATE.
Other - helicopter MOBILIZE MISC. EQUIPMENT	Addressed with drill demob in Bldgs&Equip.	allow	#IN/A		\$0	
Pump shipping		each	#N/A	\$0	\$0	
Pipe shipping		m	#N/A	\$0	\$0	
Minor tools and equipment		allow	#N/A	\$0	\$0	
ruck tires		allow	#N/A	\$0	\$0	
Other		allow	#N/A		\$0	
MOBILIZE CAMP						Proponent's estimate assumes a cost of
						\$4,000 based on the rationale, "Assume
						minimal camp requirements as exploration
Reclamation activities		allow	1 #N/A	\$4,000	\$4,000 N/A	Adopted Proponent's estimate. camp will be taken down as part of reclamation current rates Assume Territorial cost reported only. activities."
ong term reclamation activities (eg pur	mp flooding)	allow	#N/A	\$0	\$0	
MOBILIZE WORKERS	•					
						Assume 1 supervisor required for winter road construction, drill site reclamation and demob.
						revaination and centro. Assume 1.5 hr travel time from Yellowknife (3 hr round trip).
	All activities					Assume transport to camp by light duty pick up truck.
	1 supervisor. Mob and demob.					Assume shift change every 2 weeks. Assume supervisor is shared between leases, with federal/territorial
	Transport by pick-up truck.					Assume supervisor is stated to tenurent reason, with recurrent and institutional split based on capital cost split. Territorial cost reported only.
Reclamation activities - travel time	2 week shift, 2 mob events.	hrs	6 SUPERL	\$52	\$161	\$35 Included in Proponent's estimate.
						Assume 4 person drill crew required for drill site reclamation and
						demob based on Proponent's estimate.
	Drill demob/reclamation					Assume 1.5 hr travel time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck.
	4 person drill crew. Mob and demob.					Assume shift change every 2 weeks.
	Transport by pick-up trucks.					Assume drill crew is shared between leases, with federal/territorial spill based on positial code spill. Territorial cost reported only.
Reclamation activities - travel time	2 week shift, 2 mob events.	hrs	24 LAB-SL	\$41	\$509	\$110 split based on capital cost split. Territorial cost reported only. Included in Proponent's estimate.
						Assume 2 labourers required for winter road construction.
	Winter road construction					Assume 1.5 hr travel time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck.
	2 skilled labourers. Mob and demob					Assume shift change every 2 weeks.
	Transport by pick-up truck.					Assume labourers shared between leases, with federal/territorial split
Reclamation activities - travel time	2 week shift, 2 mob events.	hrs	12 LAB-USL	\$31	\$192	\$42 based on capital cost split. Territorial cost reported only. Included in Proponent's estimate.
						Assume 2 equipment operators required for winter road construction.
	Winter road construction					Assume 1.5 hr travel time from Yellowknife (3 hr round trip).
	2 equipment operators.					Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks.
	Mob and demob.					Assume operators shared between leases with federal/territorial split
Reclamation activities - travel time	Transport by pick-up truck. 2 week shift. 2 mob events.	hrs	12 OPERL	\$41	\$254	based on capital cost split. Territorial cost reported only. Included in Proponent's estimate.
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1 Mobilization/Demobilization:

			Cost					
ACTIVITY/MATERIAL	Notes	Units Qua		Unit Cost	Cost Inflation	Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
Long term reclamation activities (eg pump f		each	#N/A	\$0	\$0			
Long term reclamation activities (eg pump f	looding) - travel time	each	#N/A	\$0	\$0			
Airfare - Reclamation Monitoring		each	#N/A	\$0	\$0	464	0 (04.040	
WORKER ACCOMODATIONS							0 (\$4,640	")
						Total persondays is based on estimated crew and activity time requirements (see estimates below).		
						Additional camp support staff are expected to be required beyond the		
						approx. 9 person crew. However, costing for additional camp support		Provide schedule of project activities,
Reclamation activities	Drill demob, site reclamation, winter road			0400	20.000	staff is assumed addressed with camp operation costs.	Included in Proponent's estimate	including equipment, crew and time
Long term reclamation activities (eg pump f	construction/operation	persondays personmonths	96.2 ACCML #N/A	\$100 \$0	\$9,620 \$0	\$2,078 Territorial cost reported only.	Total person days 46.6	requirements.
MOBILIZE FUEL	looding)	personinonus	#19/75	φυ	φυ			
MODICIZE I OCE								
						Estimate approx. 19000 L total fuel requirement based on estimated		
						equipment requirements (see calculations below). Estimate 93 fuel drums. Assume 25 drums per truck, thus 4 truck		
						loads.		
						Assume 1.5 hr travel time from Yellowknife (3 hr round trip).		
Fuel freight - reclamation activities &						Assume transport by flat-bed truck. Territorial cost reported only.	Proponent's estimate includes total fuel	Confirm estimated fuel required for
accommodations		hrs	12 HIABL	\$155	\$1,860	\$402 Assume cost of fuel is included with costing for reclamation activities.		reclamation activities.
Fuel freight - long term reclamation activitie	s	litre	#N/A	\$0	\$0			
WINTER ROAD					**			
						Based on Proponent's correspondence, approx. 5.2 km of winter road		
						required for NITE/BIG leases and approx. 4.7 km of winter road required for Fi,Ki, Shorty leases. These leases are categorized as		
						Territorial per on Project Description (Table 1)		
						Estimate of 19.1 km for Thompson-Lundmark winter road based on		
	5.2 km winter road to BIG/NITE leases					site maps.		
Construction and operation	4.7 km winter roads to Fi, Ki, Shorty leases. 19.1km winter road (Thompson-Lundmark)	km	29 WRCL	\$2,000	\$58,000 \$	Total length of road approx. 29 km 12,528 Territorial cost reported only here.	Included in Proponent's estimate. Estimates a total of 10 km winter road	Confirm estimate of winter road required for reclamation.
Limited winter use	13. Tkin winter road (Thompson-Editarialik)	km	#N/A	\$2,000	\$0	12,526 Territorial cost reported only fiere.	Estimates a total of 10 km winter road	ioi reciamation.
Winter road tariff		km	#N/A	\$0	\$0			
DEMOBILIZE HEAVY EQUIPMENT						Per RECLAIM manual, it is assumed existing on-site equipment is not		
						available for use in reclamation. Therefore, assume below equipment is required to be		
						mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps.	S	
Reclamation Equipment						mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases	S	
	1 piece. Winter road construction/site reclamation.					mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr spit based on capital cost split. Territorial cost reported only.		
Reclamation Equipment Excavators	Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all lease: based on site maps. Assume fedferr spilt based on capital cost spilt. Territorial cost	s Included in Proponent's estimate.	
Excavators	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation.					mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment.	Included in Proponent's estimate.	
	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck.		1.5 hiabl	\$155 \$155	\$120 \$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr spit based on capital cost split. Territorial cost reported only.		
Excavators Dozers	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks.		1.5 hiabl	\$155		mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment.	Included in Proponent's estimate. Not included in Proponent's estimate.	
Excavators	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation,					mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume fedferr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate.	
Excavators Dozers	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks.	hrs	1.5 hiabl	\$155	\$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate.	
Excavators Dozers	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks.	hrs	1.5 hiabl	\$155	\$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume fedferr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate.	
Excavators Dozers	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume fed/terr spit based on capital cost spit. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$28 Assume 1 load per each piece of equipment. \$29 Assume 1 load per each piece of equipment. \$20 Assume 1 load per each piece of equipment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate.	
Excavators Dozers Loader Snow cats	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access.	hrs hrs	1.5 hiabl	\$155 \$155 \$155	\$120 \$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume led/terr spit based on capital cost spit. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Assume 1 load per each piece of equipment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate.	
Excavators Dozers Loader	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck.	hrs hrs	1.5 hiabl	\$155 \$155	\$120 \$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume 1 load per each piece of equipment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate.	
Excavators Dozers Loader Snow cats Light duty vehicles	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. 1 piece. Winter road construction/site reclamation.	hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A	\$155 \$155 \$155 \$0	\$120 \$120 \$120 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr spit based on capital cost spit. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate.	
Excavators Dozers Loader Snow cats	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. 1 piece. Winter road construction/site reclamation, loading flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization.	hrs hrs	1.5 hiabl	\$155 \$155 \$155	\$120 \$120	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campaies". \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate.	
Excayators Dozers Loader Snow cats Light duty vehicles	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. 1 piece. Winter road construction/site reclamation.	hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A	\$155 \$155 \$155 \$0	\$120 \$120 \$120 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with 50 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization. Below quantities from CRP.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate.	
Excayators Dozers Loader Snow cats Light duty vehicles	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. 1 piece. Winter road construction/site reclamation.	hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A	\$155 \$155 \$155 \$0	\$120 \$120 \$120 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with costs of the cost	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate.	
Excavators Dozers Loader Snow cats Light duty vehicles	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. 1 piece. Winter road construction/site reclamation.	hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A	\$155 \$155 \$155 \$0	\$120 \$120 \$120 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume Tload per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume Tload per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leases (3 hr round trip) based on site maps. Assume transport by flat-bed truck.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities	
Excayators Dozers Loader Snow cats Light duty vehicles	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. 1 piece. Winter road construction/site reclamation.	hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A	\$155 \$155 \$155 \$0	\$120 \$120 \$120 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume ledrierr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Below quantities from GRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume transport by flat-bed truck. Assume transport by flat-bed truck.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate.	
Excavators Dozers Loader Snow cats Light duty vehicles Water truck	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. 1 piece. Winter road construction/site reclamation.	hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A	\$155 \$155 \$155 \$0	\$120 \$120 \$120 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume leafter split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campatie." \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campatie." \$26 Assume 1 load per each piece of equipment. Assume truck will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume I load for each piece of equipment unless otherwise noted Assume fed/ter split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bidgs & Equip (Fed) Tab. Excludes Terr./Fed split	
Excavators Dozers Loader Snow cats Light duty vehicles Water truck Operations Equipment	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. Addressed with worker mobilization.	hrs hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A #N/A	\$155 \$155 \$155 \$0 \$0	\$120 \$120 \$120 \$0 \$0	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume led/terr spit based on capital cost spit. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campeite." \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campeite." \$26 Assume 1 load per each piece of equipment. Assume Trucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume transport by flat-bed truck. Assume 1 load for each piece of equipment unless otherwise noted Assume fedferr spit based on capital cost spit due to uncertainty in location of most equipment at the time of abandonment.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bidgs & Equip (Fed) Tab. Excludes Terr/Fed split Additional differences' notes provided below.	
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Excavators Dozers Loader Snow cats Light duty vehicles Water truck Operations Equipment Solids removal equipment cw generator Skidder or D-6 buildozer	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. Addressed with worker mobilization.	hrs hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A #N/A	\$155 \$155 \$155 \$0 \$0 \$155.00	\$120 \$120 \$120 \$0 \$0 \$1,203 \$962	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume led/ter split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$27 Assume 1 load per each piece of equipment. \$28 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$28 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with 50 costs addressed with worker mobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume transport by flat-bed truck. Assume 1 load for each piece of equipment unless otherwise noted Assume fed/ter split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment. Territorial cost reported only.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bildgs & Equip (Fed.) Tab. Excludes Terr./Fed.spitf. Additional differences/ notes provided below. Not included in Proponent's estimate.	
Excavators Dozers Loader Snow cats Light duty vehicles Water truck Operations Equipment Solids removal equipment w generator Skidder or D-6 buildozer Water truck	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. Addressed with worker mobilization. 5 pieces with worker mobilization.	hrs hrs hrs hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A #N/A 15 hiabl 12 hiabl 12 hiabl	\$155 \$155 \$155 \$0 \$0 \$155.00 \$155.00	\$120 \$120 \$120 \$0 \$0 \$1,203 \$962 \$962	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Preponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campaies". \$26 Assume 1 load per each piece of equipment. Assume rucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume I load for each piece of equipment unless otherwise noted Assume fedterr split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment. Territorial cost reported only.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bidgs & Equip (Fed) Tab. Excludes Terr/Fed split Additional differences' notes provided below.	
Excavators Dozers Loader Snow cats Light duty vehicles Water truck Operations Equipment Solids removal equipment cw generator Skidder or D-6 bulldozer Water truck	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. Addressed with worker mobilization. 5 pieces 4 pieces 4 pieces 4 pieces 4 piece 1 piece	hrs hrs hrs hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A #N/A 15 hiabl 12 hiabl 12 hiabl 13 hiabl	\$155 \$155 \$155 \$0 \$0 \$155.00 \$155.00 \$155.00	\$120 \$120 \$120 \$0 \$0 \$1,203 \$962 \$962 \$962 \$241	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume led/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite." \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with 00 costs addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume transport by flat-bed truck. Assume 1 load for each piece of equipment unless otherwise noted Assume fed/ter split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment. Territorial cost reported only.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bildgs & Equip (Fed.) Tab. Excludes Terr./Fed.spitf. Additional differences/ notes provided below. Not included in Proponent's estimate.	
Excavators Dozers Loader Snow cats Light duty vehicles Water truck Operations Equipment Solids removal equipment ow generator Skidder or D-6 bulldozer Water truck	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. Addressed with worker mobilization. 5 pieces with worker mobilization. 5 pieces 4 pieces 4 pieces 4 piece 1 piece 1 piece	hrs hrs hrs hrs hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A #N/A 15 hiabl 12 hiabl 12 hiabl	\$155 \$155 \$155 \$0 \$0 \$155.00 \$155.00 \$155.00 \$155.00	\$120 \$120 \$120 \$0 \$0 \$1,203 \$962 \$962 \$241 \$241	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Preponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campaies". \$26 Assume 1 load per each piece of equipment. Assume rucks will be driven back from site by reclamation staff, with \$0 costs addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume I load for each piece of equipment unless otherwise noted Assume fedterr split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment. Territorial cost reported only.	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bildgs & Equip (Fed.) Tab. Excludes Terr./Fed.spitf. Additional differences/ notes provided below. Not included in Proponent's estimate.	
Excavators Dozers Loader Snow cats Light duty vehicles Water truck Operations Equipment Solids removal equipment cw generator Skidder or D-6 buildozer Water truck Excavator Grader	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks. Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck. 3 vehicles. Worker access. Addressed with worker mobilization. 1 piece. Winter road construction/site reclamation. Addressed with worker mobilization. 5 pieces 4 pieces 4 pieces 4 pieces 4 piece 1 piece	hrs hrs hrs hrs hrs hrs	1.5 hiabl 1.5 hiabl 1.5 hiabl #N/A #N/A 15 hiabl 12 hiabl 12 hiabl 3 hiabl 3 hiabl	\$155 \$155 \$155 \$0 \$0 \$155.00 \$155.00 \$155.00	\$120 \$120 \$120 \$0 \$0 \$1,203 \$962 \$962 \$962 \$241	mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leaser based on site maps. Assume fed/terr split based on capital cost split. Territorial cost reported only. \$26 Assume 1 load per each piece of equipment. \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume 1 load per each piece of equipment. Per Proponent's correspondence, an additional snow cat is needed to support reclamation of the fed & terr leases to "open the existing WR to access the campsite". \$26 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with costs \$90 addressed with worker mobilization/demobilization. Assume truck driven back from site by reclamation staff, with costs \$90 addressed with worker mobilization/demobilization. Below quantities from CRP. Assume average 1.5 hr travel time between Yellowknife and all leaser (3 hr round trip) based on site maps. Assume transport by flat bed truck. Assume 1 toad for each piece of equipment unless otherwise noted Assume fed/terr split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment. \$208 \$208 \$208 \$208 \$208 \$228	Included in Proponent's estimate. Not included in Proponent's estimate. Included in Proponent's estimate. Not included in Proponent's estimate. Unless otherwise noted, below quantities included in Proponent's estimate under Bildgs & Equip (Fed.) Tab. Excludes Terr./Fed.spitf. Additional differences/ notes provided below. Not included in Proponent's estimate.	

1 Mobilization/Demobilization:

ACTIVITY/MATERIAL	Notes	Units Qua	Cost ntity Code	Unit Cost	Cost Inflation	:	Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
ATVs	6 pieces	hrs	3 hiabl	\$155.00	\$241	\$52		,	
Snow machines	10 pieces	hrs	6 hiabl	\$155.00	\$481		Assume typical dimensions for hiabl truck and snow machines. Assume 2 loads for 10 snow machines	Excludes 2 pieces	
Pick-up trucks	12 pieces (9 pieces Total)	hrs	36 hiabl	\$155.00	\$2,886	\$623		Excludes 4 pieces	
	5 pieces (5kw-10kw) 1 pieces (20kw)						Assume 1 load per generator larger than 19 kw (4 total) and 1 load for all generators less than 11 kw.		
Diesel generators Incinerator	3 pieces (40kw) 1 piece (1500kg)	hrs hrs	6 hiabl 3 hiabl	\$155.00 \$155.00	\$481 \$241	\$104 \$52			
Miscellaneous equipment	e.g., core saws, oil heaters, ice auger, blast hole drill	hrs	3 hiabl	\$155.00	\$241	\$52			
DEMOBILIZE CAMP	e.g., one suns, or reacts, see augo, business uni	1113		\$133.00			Adopted Proponent's estimate.	Proponent's estimate assumes a cost of \$4,000 based on the rationale, "Assume minimal camp requirements as exploration camp will be taken down as part of reclamatio	n Confirm schedule of anticipated
Reclamation activities		allow	1 #N/A	\$4,000	\$4,000 N/A, curre	ent rates	Assume Territorial cost reported only.	activities." based on end of LUP term.	reclamation activities
DEMOBILIZE WORKERS									
Reclamation activities - travel time	Included with mob costs.	hrs	#N/A	\$0	\$0			Proponent's estimate includes two additional	
								line items for demob crew (1 super and 5 crew members). Discrepancy with Mob Workers since Mob	,
								Worker include demob costing. Proponent's estimate uses units (persondays)	Confirm the crew size required for
crew transportation	Included with mob costs.	each	#N/A	\$0	\$0		Included in Mobilize Worker	and cost code (\$/hr) that are misaligned	
DEMOBILIZE WASTE	Waste removal from Territorial Leases	hrs	9 HIABL	\$155	\$1,395		Based on Proponent's Estimate Assume includes demolished buildings, contaminated soil, site refuse and debris, sewage, remaining fluel drums, and any other inert and hazardous waste. (Chemicals (GNWT) Tab) Estimate 3 hrs total per round trip. Assume transport by flat-bed truck. Assume 3 loads at approx 10 m8 each	Proponent's estimate includes one line item under Demob Camp category 3 loads, round trip to YK by flat-bed truck	
Transport waste rock to disposal facility	Assume PAG. Disposal in Alberta. 5 tonnes 1 round trip required. Tipping fee addressed in UG tab.	hrs	20.5 HIABL	\$15 5	\$2,860		Quantities outlined in UG tab. Assume waste rock from bulk sample is PAG and requires removal from site. Estimate 3 hrs travel time between Yellowknife and Hidden Lake Camp for transport trucks. Estimate distance by winter road between Camp and bulk sample site approx. 10km (30min round trip) for Ki, Fi, and Shorty leases. Assume 1 hr travel time between Yellowknife and BIG & NITE leases. Assume disposal location for PAG waste rock located in Alberta at approximately 8 hrs travel time from Yellowknife (one-way). Assume fedferr split cost based on capital costs.	Not included in Proponent's estimate.	
	ECHO lease						Helicopter access only to ECHO lease as described in Project Description. Assume up to 0.5 day (6 hrs) flying time to demob all site waste to Yellowkinfle. Included costs based on helicopter quotation from Sahtu Helicopters Jan 22, 2021. Flight time = \$1850/hr * 6 hr flight/day = \$11,100 Fuel usage = \$744/hr * 6 hrs = \$4,464 Total = \$15.564		
Demobilize waste	Helicopter transport	allow	1 #N/A	\$15,564	\$15,564	\$1,665	Inflation from Jan 2021 to present applied. Based on 2023 Yellowknife landfill tipping fees for commercial waste from outside city.	Not included in Proponent's estimate. Proponent's estimate includes one line item under Demob Camp category Provides Tipping fee of \$156/tonne	Provide Supporting documentation for project specific tipping fees WMP - Appendix A (correspondences) is
Solid waste tipping fee	Tipping fee	tonne	40 #N/A	\$191.50	\$7,660 N/A, curre	ent rates	Assume an allowance for one full truck load of 40 tonnes.	Assumes 40 tonnes	missing/not provided
Solid waste tipping fee	Minimum equipment charge	allow	1 #N/A	\$130	\$130 N/A, curre		Minimum equipment charge based on 2023 Yellowknife tipping fees. Estimate 100 L sewage produced per person per day. Assume 20% is blackwater for off-site disposal, thus: 100 Upersoniday x 9 people x 30 days = 27,000 L x 20% = 5.4 m3 = 5.4 tonnes.	Not included in Proponent's estimate.	
							Estimate 5.4 m3 of blackwater for disposal.		

Estimated Equipment Fuel Use

Reclaim 7.0 Project: Blank 2023-04-11

1 Mobilization/Demobilization:

				Cost					
ACTIVITY/MATERIAL	Notes	Un	its Quanti	y Code	Unit Cos	t Cost Inflation	Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
Equipment	# of Machines	Days Active	L/hr	Consum ption L/day (10hrs/d ay)	Total fuel				
Excavators		1	5	15 15	0 692	Assume needed for soil excava	ation, building teardown, winter road reclama	ition (assume approx. 5 days)	
Water truck		1	30	12 12	0 3600	Assume needed for winter road	d construction/operation (total project duratio	n)	
Service Vehicles		3	30 2	2.5 2	5 2250	Assume needed for total project	ct duration (total project duration)		
Loader		1	30	7 7	0 2100	Assume needed for loading fla	t decks, winter road construction/operation (t	total project duration)	
Dozers		1	30	15 15	0 4500	Assume needed for winter road	d construction/operation (total project duratio	n)	
Snow Cat		1	30	17 17	0 5100	Per Proponent's corresponden	ice (Mar 17 '23), assume needed for winter ro	oad construction/operation (total project duration)	
Camp generator		1	30 2	2.9 2	9 870	Assume needed for total project	ct duration		
Total Per Day					19112	93 estimate num	ber of barrels (205 L /barrel)		

*Lhr for equipment based on rates for typical equipment available online. Actual rates will likely vary based on specific equipment model, standby time, operational effort, environmental conditions, etc.

	Activity Time	

Major Project Activity Time Estima	te	
Building Teardown		
	1 hr/each, 14 frames/pads = 1.4 days based on size	
Tent frames and pads	and teardown by equipment/hand.	
Total teardown time	1.4 days (10 hr day)	
Days	1.4	
Crew required	4 (1 supervisor, 2 labourer, 1 operator)	
Crew quantity (persons) - excluding supervision		
Crew days (person days)	4.2	
Demob Drill Rigs		
Demob drill rigs	5 hrs/drill	
# drills	4	
Total time	20 hrs = 2 days (10 hr day)	
Days	2	
Crew required	5 (1 supervisor, 4 drill crew)	
Crew quantity (persons) - excluding supervise	4	
Crew days (person days)	8	
Abandon Drill Holes		
Cut/plug/cap time	0.5 hr	
Travel time b/w holes	0.5 hr	
	280 holes rounded (approx. 90% total # for territorial	
# holes	land)	
Total time	252 hrs = 25.2 days rounded (10 hr day)	
Days	25.2	
Crew required	2 (2 labourers)	
Crew quantity (persons) - excluding supervision		
Crew days (person days)	50.4	
Winter Road Construction		
Winter road build rate	10 km/day based on build distance/time for other northern winter roads	
Winter road length	10 km	
Total build time	1 day	
Days	1	
Crew required	3 (1 supervisor, 2 operators, 2 labourers)	
Crew quantity (persons) - excluding supervis	4	
Crew days (person days)	4	
Total project days	29.6	
Total persondays (excluding supervisor	66.6	
Supervisor days	29.6	Assume supervisor present for total project du
Total persondays	96.2	
Maximum persons onsite	9	

duration

Reclaim 7.0 Project: Blank 2023-04-11

1 Post-Closure Monitoring & Maintenance:

ACTIVITY/MATERIAL	Notes	Units Quantity	Cost Code	Unit Cost	Cost	Source of Information	Comparison to Proponent's Security	Information Requested from Propo
MONITORING & INSPECTIONS		-						
Annual geotechnical inspection		each	#N/A	\$0.00	\$0			
Survey inspection		each	#N/A	\$0.00	\$0			
Regulatory costs*		each	#N/A	\$0.00	\$0			
Site water monitoring (AEMP and SNP)		each	#N/A	\$0.00	\$0			
- Active closure and flooding		each	#N/A	\$0.00	\$0			
- Post pit flooding		each	#N/A	\$0.00	\$0			
Air Quality Monitoring Program (AQMP)		each	#N/A	\$0.00	\$0			
		each	#N/A	\$0.00	\$0			
Wildlife Effects Monitoring Program (WE	INP)							
Vegetation Monitoring		each	#N/A	\$0.00	\$0			
Helicopter	Support for summer inspection	allowance	1 #N/A	\$15,564.00	\$11,673	Per Project Description, access to leases and camps during The summer program is supported by helicopter' aircraft. Assume 1 inspection per lease and 1 inspection at Hidden Lake camp, 8 locations total. 8 locations *0.15 hrs per location = 4 hrs. Assume up to 2 hrs flying firme round trip to Yellowknife. 6 hrs total. Included costs based on helicopter quotation from Sahtu Helicopters Jan 22, 2021. Flight time = \$1860/m* *6 hr flight/day = \$11,100 Fuel usage = \$744/m* *6 hrs = \$4,464 Total = \$15,564 Inflation from Jan 2021 to present applied. Terr/fed sight based on proportion of inspection locations (75.25). \$1,342 Territorial cost reported only Uses Proponent's cost allowance. No inflation due to current estimated project specific cost. Terrifed sight based on proportion of inspection locations (75.25). Assume allowance excludes needed helicopter support durin	not included in proponent's estimate	Confirm support required for post-closinspection
						summer.	erosion or other issues.	Confirm anticipated inspection activiti
Other	summer inspection	each	1 #N/A	\$5,000.00	\$3,750	N/A, current rates Territorial cost reported only	Federal cost only; no territorial cost split.	and criteria for passing inspection.
COVER MAINTENANCE Repair erosion - infill gullies		allow	#N/A	\$0.00	\$0			
		allow	#N/A	\$0.00	\$0			
Repair erosion - upgrade diversion ditche	es							
Remove problem vegetation		allow	#N/A	\$0.00	\$0			
Repair animal damage		allow	#N/A	\$0.00	\$0			
Repair/upgrade access controls Other		allow	#N/A #N/A	\$0.00 \$0.00	\$0 \$0			
SPILLWAY MAINTENANCE			#IWA	φυ.υυ	φU			
Repair erosion		m3	#N/A	\$0.00	\$0			
Clear spillway		each	#N/A	\$0.00	\$0			
CWTS MAINTENANCE								
Maintain flow, restore vegetation		allow	#N/A	\$0.00	\$0			
POST-CLOSURE WATER TREATMENT*	•							
					\$0			
Annual water treatment cost, from "Water	r Treatment"							
Annual water treatment cost, from "Water	r Treatment"				\$15,423			
Annual water treatment cost, from "Water Subtotal, Annual post-closure costs			0.00%		\$15,423			
Annual water treatment cost, from "Water			0.00%	years	\$15,423			

*Regulatory costs - annual reporting, management plans, progress reports etc.
Include water treatment cost from "Water Treatment" worksheet if treatment is considered long term, such as ARD/ML.



FEDERAL RECLAIM OUTPUTS

Reclaim 7.0 Project: EREX Yellowknife Lithium

ACTIVITY/MATERIAL	Notes	Unit	Qty Code	UG Mine # 1			d Cost Water	. 0 4	Source of Information	Commenters to Dec	Information December 117
ACTIVITY/MATERIAL CONTROL ACCESS	Notes	Unit	Qty Code	Unit Cost	Cost %	Land Land	d Cost Water	r Cost	Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
Fence		m	#N/A	\$0.00	\$0		\$0	\$0			
Signs		each	#N/A	\$0.00	\$0		\$0	\$0			
Block roads		m3	#N/A	\$0.00	\$0		\$0	\$0			
Berm		m3	#N/A	\$0.00	\$0		\$0	\$0			
Concrete wall in portals		m3	#N/A	\$0.00	\$0		\$0	\$0			
Trench stabilization/regrade	Assume as-constructed long-term stable.	m3	0 #N/A	\$0.00	\$0		\$0	\$0	Assume as-constructed bulk sample trench is long-term stable. Based on Project Description, up to 10 tonnes of rock may be broken out of 10 trenches where each sample would weigh up to	Not included in proponent's estimate	
									one tonne. Assume 50% waste rock from bulk sample (5 tonnes) is PAG and requires removal from site at closure. Assume disposal location for PAG waste rock located in Alberta. It is assumed as bulk sample has already been removed from site. Tipping fee assumed based on reasonable tipping fees for metal contaminated soil in Alberta, Tipping fee is adjusted for inflation from Feb '22. Transportation off-site is included under Demobilize Waste in the Mobilization tab. Assume 90% Terr, 10% Fed. based on drill holes per terrifed lease.	Not included in proponent's estimate	Confirm the estimated quantity of PAG was rock generated from the bulk sampling pro
Waste rock disposal fee	Tipping fee of \$30./tonne	tonne	5 #N/A	\$30.00	\$15	100%	\$15	\$0	Applies inflation from 2022 to Jan 2023 \$1 Federal cost reported only Trench dimensions are trenches are approx. 2.5 m long, 0.5 m		
									deep and 0.3 m wide per Project Description. Assume trenches to be filled and leveled. Total cost reported. Assume 90% Terr, 10% Fed. based on drill holes per terr/fed	Not included in proponent's estimate	
Replace top soil cover	Assume fill and level/grade trench area.	m3	37.5 SB3L	\$5.10	\$19	100%	\$19	\$0	lease. \$4 Federal cost reported only		Confirm reclamation activity of trenches
									Assume trench area will be revegetated. Assume trench revegetation cost to be included in drill pad	Not included in proponent's estimate	
Revegetate trench area	Assume trench area is revegetated.	ha	#N/A	\$0.00	\$0		\$0	\$0	\$0 revegetation under Bldgs & Equip tabs.		Confirm reclamation activity of trenches
Backfill Portal		m3	#N/A	\$0.00	\$0		\$0	\$0			
Backfill Portal Cap raise # 1		m3 m3	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0			
Cap raise # 1 Cap raise #2		m3	#N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0			
Cap shaft #1		m3	#N/A	\$0.00	\$0		\$0	\$0			
Cap shaft #2		m3	#N/A	\$0.00	\$0		\$0	\$0			
Backfill adits		m3	#N/A	\$0.00	\$0		\$0	\$0			
Backfill open stope		m3	#N/A	\$0.00	\$0		\$0	\$0			
Concrete cap over open stope		m3	#N/A	\$0.00	\$0		\$0	\$0			
Other			#N/A	\$0.00	\$0		\$0	\$0			
REMOVE HAZARDOUS MATERIALS											
Remove hazardous materials, U/G labor		mandays	#N/A	\$0.00	\$0		\$0	\$0			
Remove/decontam. stationary & elect. equip Remove/decontam. mobile equipment		mandays each	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0			
Remove/decontam: mobile equipment Remove misc. haz. mat & explosives		each kg	#N/A	\$0.00	\$0		\$0 \$0	\$0 \$0			
Other		ng	#N/A	\$0.00	\$0		\$0	\$0			
INSTALL BULKHEADS											
Bulkheads to control water flow		each	#N/A	\$0.00	\$0		\$0	\$0			
Grout bulkhead		m3	#N/A	\$0.00	\$0		\$0	\$0			
FLOOD MINE											
Supply/install pump		each	#N/A	\$0.00	\$0		\$0	\$0			
Supply/install piping system		each	#N/A	\$0.00	\$0		\$0	\$0			
Operate pumps to flood workings		m3	#N/A	\$0.00	\$0		\$0	\$0			
Other INSTALL GROUNDWATER COLLECTION S	SYSTEM		#N/A	\$0.00	\$0		\$0	\$0			
Excavate/install sumps		m2	#N/A	\$0.00	\$0		\$0	\$0			
Install pumping wells		m3	#N/A	\$0.00	\$0		\$0	\$0			
Install pumps/pipelines/power supply		LS	#N/A	\$0.00	\$0		\$0	\$0			
SPECIALIZED ITEMS		personhours	#N/A	\$0.00	\$0		\$0	\$0			
Install water quality monitoring pipes Install permanent pumping system		personnours each	#N/A #N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0			
Other		eacn	#N/A	\$0.00	\$0		\$0 \$0	\$0			
Juliei			#N/A	\$0.00	\$U		φU	\$U	Federal cost reported here. Assume 90% territorial and 10% federal based on described work		
				Total % of Total	\$34		\$34 100%	\$0 0%	in Project Description.		
				/v 0. rotal							
						Inflat					

1 Building / Equip Name Bldg / Equip #: 1

ACTIVIT/MATERIAL DISPOSE MOBILE EQUIPMENT Decontaminate and ship off-site Decontaminate and dispose on-site Drill removal - supervisor labour	Notes Hidden Lake Camp (Fi-Shorty (formerly Hi)-Ki lease): 4 drills. 1 supervisor. 5 Instidfill to demot to Yellowknife.	allow allow	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0 \$0	\$0 \$0		Source of Information	Comparison to Proponent's Security	
·	lease): 4 drills. 1 supervisor.	allow	#N/A	\$0.00	\$0		\$0	\$0				
Drill removal - supervisor labour	lease): 4 drills. 1 supervisor.											
	o movami to domos to i onowanio.	personhrs	20 Superl	\$52.00	\$1,040	100%	\$1,040	\$0	\$22	Assume approx. 5 hrs per drill to pack up and remove to Yellowknife based on Proponent's estimate.	n Included in Proponent's estimate.	Confirm the total number of drills a anticipated distribution between fede and territorial lands in their CR
Drill removal - drill crew labour	Hidden Lake Camp (Fi-Shorty (formerly Hi)-Ki lease): 4 drills. Drill crew of 4. 5 hrs/drill to demob to Yellowknife.	personhrs	80 lab-sl	\$41.00	\$3,280	100%	\$3,280	\$0	\$70	Terrifed cost split assume 50/50 for drills. Assume drills working on 08 territorial leases are stored on Federal land at time of abandonment.	Included in Proponent's estimate. Describes 6 drills total 4 at FI-Shorty-Ki (federal) and 2 at NITE.BIG,ECHO (terr.)	
	Hidden Lake Camp (Fi-Shorty (formerly Hi)-Ki lease): 4 drills. 2 loads/drill. 5 hrs/drill to demob to Yellowknife by flatbed									Terr/fed cost split assume 50/50 for drills. Assume drills working on	Included in Proponent's estimate. Describes 6 drills total 4 at FI-Shorty-Ki (federal) and 2 at	
Drill removal - Hiab Other	truck.	hrs	40 Hiabl	\$155.00	\$6,200	100%	\$6,200	\$0	\$1,33	39 territorial leases are stored on Federal land at time of abandonment.	NITE.BIG,ECHO (terr.)	
REMOVE BUILDINGS - see note below	Hidden Lake Camr									Quantities and structure type from CRF		
Accommodation Complex	Temporary structures: tent, soft-sided Sleepers (18), First Aid (1), Kitchen (2)	m2	484.6 BRWL	\$27.50	\$13,327	100%	\$13,327	\$0	\$2,87	At Hidden Lake Camp, therefore Federal (based on Project 79 Description)	Included in Proponent's estimate. Includes Drys and toilets	
Process Facilities	Hidden Lake Camr	m2	#N/A	\$0.00	\$0		\$0	\$0		Included in Warehouse Shops and Other Quantities and structure type from CRF	Proponent's estimate includes core logging and cutting facilities here. Included in Proponent's estimate	
Offices Repair Lab Warehouse	Temporary structures: tent, soft-sided	m2	136.7 BRWL	\$27.50	\$3.760	100%	\$3.760	\$0	604		Excludes the Drys (see Accommodation Complex)	
Storage Facilities	Mens Dry (1), Womens Dry (2), Offices (2)	m2 m2	136.7 BRWL #N/A	\$27.50	\$3,760	100%	\$3,760	\$0 \$0	\$81	12 Description)	Complex)	
Water and Wastewater Treatment Facili	ties	m2	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
U/G Heating Plan Emulsion Plant		m2 m2	#N/A #N/A	\$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
AN Storage Facility		m2	#N/A	\$0.00	\$0		\$0	\$0				
Warehouse, Shops and Other	Hidden Lake Camp Temporary structures: tent, soft-sided Core logging (3), Core cutting (3), Toilets (2)	m2	231.8 BRWL	\$27.50	\$6,374	100%	\$6,374	\$0	\$1,37	Based on Project Description, structures are located at Hidden Lake 77 Camp, therefore on Federal land Quantities and structure type from CRP	Accommodation Complex)	
Generator shed	Hidden Lake Camp Generator Shack (3)	m2	54 4 BRWI	\$27.50	\$1,496	100%	\$1,496	\$0	633	Based on Project Description, structures are located at Hidden Lake 23 Camp, therefore on Federal land		Confirm the number of generator shacks located on territorial and federal land.
Storage Facility at Laydown/Airstrij	Three (3) 25,000 L fuel tanks. Additional fuel stored in drums, cylinders, tubes, cans, pails See 'Chemicals' and 'Mob' for removal and	m2	#N/A	\$0.00	\$0	100 /8	\$0	\$0	432	CRP and LUP amendment application indicates 3 fuel tanks (25,001 L each) stored on fed land, with additional fuel storage in drums, cylinders, tubes, cans or pails. Assume fuel tanks are removed intact, thus no teardown required. Transport costs for fuel tanks and containers addressed in Mob tab.	·	ocation of territorial and receive and
Fuel tanks Freshwater intake Reclaim pumps Outfall & Diffuser Airstrip lighting, navigation, electricial Airstrip lighting, navigation, mechanica Break foundation slab: Consolidate & dump boneyard debri	disposal.	each m2 m2 m2 v persondays m2 m3	#N/A #N/A #N/A #N/A #N/A #N/A #N/A	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		Handling and disposal costs addressed in Chemicals tab.	Included in Proponent's estimate	
Other LANDFILL FOR DEMOLITION WASTE Place rock cover		allow m3	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
Place soil cover Vegetate GRADE AND CONTOUR PADS		m3 ha	#N/A #N/A #N/A	\$0.00 \$0.00 \$0.00	\$0 \$0		\$0 \$0 \$0	\$0 \$0				
Accommodation Complex Process Facilities Offices. Repair. Lab. Warehouse	scarify area beneath and around building and tents + 5%	<mark>ha</mark> ha ha	0.095 scfyl #N/A #N/A	\$4,300.00 \$0.00 \$0.00	\$410 \$0 \$0	100%	\$410 \$0 \$0	\$0 \$0 \$0	\$8	Uses Proponent's approach of tent and building area footprint + 5%.	Included in Proponent's estimate Estimates footprint area of 871.25m2 Assumes additional 5% for area around footprint.	clarify reclamation activities and area estimate
Storage Facilities Water and Wastewater Treatment Facili U/G Heating Plan	Scarify equipment/storage laydown area tie:	ha ha ha	1.3 scfyl #N/A #N/A	\$4,300.00 \$0.00 \$0.00	·	100%	\$5,590 \$0 \$0	\$0 \$0 \$0 \$0	\$1,20	Uses total footprint of equipment, storage, and helipad areas based on site map (Project Description - Figure 4). Excludes two additional areas in Proponent's estimate (see right for description). These two areas are not identified nor described in the	estimated foot print of 2500m2 or 0.25 ha (50m by 50m) however, are not described nor identified in the Application	Identify and confirm areas to be scarified

Emulsion Plant Warehouse, Shops and Other Place rock cover		ha ha m3	#N/A #N/A #N/A	\$0.00 \$0.00 \$0.00	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	
Re-vegetate Camp/building/fuel cache areas Equipment/storage laydown areas	Hidden Lake Camp Vegetate	ha	6.95 VHFL	\$4,000.00	\$27,815 100%	\$27,815	\$0	Assume total building footprint x10 for camp/pad/fuel cache and Included in Proponent's estimate under a equipment/storage laydown footprint based on Proponent's estimate. different activity/material label "Vegetate". Based on Proponent's estimate, 50% of building/camp/fuel cache and Proponent's ost uses RECLAIM cost clarify reclamation activities and area compositions are compositive to code "script".
Drill pads - Re-vegetate	Vegetate 200 m2/drill pad	ha	0.1 VHFL	\$4,000.00	\$448 100%	\$448	\$0	Assume drill pad size based on Proponent's estimate. Assume 20% of total drill pad area requires re-veg, based on Proponent's estimate. CRP indicates 281 drill holes in 2023-2024. Of these 281 holes, 22 Excludes 11 drill pads for re-veg. drill holes (-10%) are on the Federal Lase NT-3366. Therefore, s97 assume 10% of drill holes/pads located on federal land.
Drill cuttings sumps	Backfill, recontour, stabilize 1 m2/sump	m2	22 #N/A	\$100.00	\$2,200 50%	\$1,100	\$1,100	Sump footprint (1 m2/sump) from Proponent's estimate. Uses Proponent's unit cost for backfill, recontour and stabilize. Assume infill material is adjacent to sump from initial excavation. Assume 1 sump/drill hole, with number of drills holes assumed as \$475 noted above.
Drill holes - capping	Clay bentonite for capping.	kg	504 #N/A	\$2.20	\$1,109 50%	\$554		CRP indicates drill holes are to be capped/sealed with plugs or concrete. Assume 3" diameter drill holes. Assume day bentonite cap for 2 m. Approx. 0.01 m3/drill hole or 18 kghole Estimate approx. \$2.2/kg based on retail rates. current Assume mobilized with other itemsfcrew in Mob tab. Number of drills holes terrifed split as noted above. Exclude 11 drill holes
Drill holes - cap/plug	Assume approx. 10% of drill holes on federal land	I personhours	56 LAB-SH	\$49.60	\$2,778 50%	\$1,389	\$1,389	Assume 2 skilled labourers to plug/cap drill holes at: 0.5 hr to plug/cap 0.5 hr to move to next hole Thus, 1 hr/drill hole \$\$5000 Assume 10% of drill hole located on federal land as noted above Not included in Proponent's estimate. Confirm reclamation activities for drill hole
	2 sumps at Hidden Lake Camp 1 sump by kitchen (6m by 3m by 1m)						N/A	Description based on Proponent's estimate, CRP (Final Closure), an WMMP (Sumps). Sump by dining hall (fm by 6m by 3 m) and by core cutting lents (1m by 1m by 1m) Assume cost is for both sumps at the hidden lake camp. Assume Proponent's project/unit cost based on Proponent's Terr. Proponent's estimate describes different current estimate for sump of similar dimensions. Assume typo in Proponents's sump dimension (1m by 0.5m by 0.5 m) Confirm sump dimensions and number or
Grade Greywater Sump PUNCTURE LINED SUMPS	1 sump by helipad (1m by 1m by 1m)	allowance	1 #N/A	\$200.00	\$200 100%	\$200	\$0 rate	s federal estimate. and lower project cost (\$100) sumps
Puncture liner and place soil cove		m3	#N/A	\$0.00	\$0	\$0	\$0	
RECLAIM ROADS Remove culverts Remove bridges Scarify and install water breaks Scarify airstriip Scarify laydown areas Vegetate		each each ha ha ha ha	#N/A #N/A #N/A #N/A #N/A	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
Winter roads	Remove snow fills and ice bridges on winter road portages	each	1 #N/A	\$500.00	\$500 100%		\$0	CRP indicates ice bridges at stream crossings are to be v-notched at part of winter road reclamation. Assume Proponent's proposed site-specific unit cost for removing snow fills and ice bridges on portages. Per Project Description maps, there is stretch of road (approx. 2.5km) through the Hidden Lake Camp that is on federal land and another stretch of road (approx. 2.2) on the south-east T-L leases (Perlis) that are also on federal land. Proponents estimate under Grade and Contour Pads assumes 6 portages Included in Proponents estimate under Grade and Contour Pads assumes 6 portages
Other SPECIALIZED ITEMS			#N/A	\$0.00	\$0	\$0	\$0	
Other		ha	#N/A	\$0.00	\$0	\$0	\$0	
				Total % of Total	\$76,526	\$73,482 96%	\$3,043 4%	

Note: Unit costs are based on 3m high, single storey building. Scale larger building areas accordingly. E.g. 10m high building multiply area by 3.3 (10

| Water | Land Cost Cost | \$15,709 | \$538

1 Chemicals/Soil Area Name:

ACTIVITY/MATERIAL	nd packaging for clean up and removal of Notes		Cost Quantity Code	Unit Cost	9	& La and Co		Water Cost I	nflation	Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
HAZARDOUS MATERIALS AUDIT Hazardous materials audi		mandays	#N/A	\$0.00	\$0		\$0	\$0				
CONSOLIDATION OF HAZARDOUS MAT	TERIALS									Assume 1 day to oversee removal of residual fuel from tanks an		
										contaminated soil from Hidden Lake Camp area and at the Perlis Lease by environmental coordinator	e Included in Proponent's estimate	
Environmental technician/coordinator		persondays	12 ENVCOH	\$130.00	\$1,560	50%	\$780	\$780		\$337 Updated unit cost based on Proponent's estimate	Uses high cost estimate	confirm the reclamation activity needed
Decontaminate: oil, fue Decontaminate maintenance sho		persondays persondays	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
Decontaminate maintenance sno		persondays	#N/A	\$0.00	\$0		\$0	\$0				
Decontaminate bulk fuel storage Decontaminate ANEO plan		persondays	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
Decontaminate ANFO plan Decontaminate offices/warehouse/accor		persondays persondays	#N/A	\$0.00	\$0		\$0	\$0				
Removal of asbestos siding on building		m2	#N/A	\$0.00	\$0		\$0	\$0				
Removal of friable asbestos on equipmer		m2	#N/A	\$0.00	\$0		\$0	\$0		Based on Proponent's estimate	Included in Proponent's estimate	
Other HAZARDOUS MATERIALS REMOVAL	Support/Assist Enviro Tech/Coord	persondays	12 lab-sh	\$49.60	\$595	50%	\$298	\$298		\$129 Assume skilled labour support for Enviro. Tech/Coord.	Uses high cost estimate	confirm the reclamation activity needed
HAZARDOUS MATERIALS REMOVAL										Updated quantity based on 10% of total fuel quantity for site, as identifi in CRP	ed e	
											Included in Proponent's estimate. Assumes 10% of total fuel for removal.	
										Assume unit cost for pumping/consolidation of fuel for off site removal. Assume cost includes disposal fee.	Assumes 25,000 L diesel tanks, LUP application is for	
	Hidden Lake Camp									Assume unit cost excludes cost for transport off site. Transport	20,000L tanks. Uses high cost code.	
Waste fuel - diesel tanks	10% of total max on site Hidden Lake Came	litre	7500 ORH	\$1.20	\$9,000	50%	\$4,500	\$4,500	\$	i1,944 addressed under Mob tab Quantity based on 10% of total fuel quantity for site, as identified in CR	Uses nigh cost code.	
Waste fuel - diesel, aviation and gasoline	10% of total max on site	litre	2665 ORL	\$0.43	\$1,146	50%	\$573	\$573		\$248 and LUP application.	'	
gustine				20.40	,	/0		-0.0		Assume low unit cost given fuel is to be stored in drums or other small		
D	Hidden Lake Camp 10% of total max on site		364 ORI	60.40	\$157	500/	670	670		containers, limiting handling requirements. \$34 Estimate 91 L per 100 lb (45 kg) propane cylinder.	Included in Proponent's estimate.	
Propane		litre	364 UKL	\$0.43	\$157	50%	\$78	\$78		Assume cost includes disposal fee.		
Other - various lubricants (e.g., drilling fluids)	Hidden Lake Camp 10% of total max on site	litre	220 ORL	\$0.43	\$95	50%	\$47	\$47		Assume unit cost excludes cost for transport off site. Transport \$20 addressed under Mob tab		
Waste Oil	v or total max off alto	litre	#N/A	\$0.00	\$0	JU /0	\$0	\$0		audressed under Mod tab		
Assay & environmental lab reagent		kg	#N/A	\$0.00	\$0		\$0	\$0				
Machine shop paints, solvents et Glycol		litre litre	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
Process reagents		kg	#N/A	\$0.00	\$0		\$0	\$0				
Nuclear sources		allow	#N/A	\$0.00	\$0		\$0	\$0		Exclude the additional 36 barrels from the Proponent's estimate.		
										Additional 36 barrels are not identified nor described in the CRP or		
										Project Description.	Assumes 10% of total fuel for removal.	
	36 barrels of waste fuel									Removal of (10% of) maximum waste fuel on site per CRP is addresse above.	Additional line item was added for 36 additional barrel	s confirm total amount of fuel stored and storage
Other hazardous materials	assume 10% remaining	allow	0 orh	\$1.20	\$0		\$0	\$0		Item is reported here for reference only, without addition to costin	of waste fuel with 10% remaining	location
HAZARDOUS MATERIALS Transportation to disposal facilit	included in Mob/Demob tal	hrs	#N/A	\$0.00	\$0		\$0	\$0		\$0 Based on Proponent's estimate	Included in demob tab	
Transportation to disposal facility	moddod iii mody Domob tal	1110		ψ0.00	••		40	ų.		Based on Proponent's estimate. Assume this cost was not included in t		
										cost assumption above since it was included as a separate item. Assume this quantity accounts for the hazardous wastes listed in WMP		
										excluding contaminated soil and waste fuel.	Included in Proponent's estimate	
										Use project unit cost. \$116 Assume current rate (no inflation)	Assume 5m ³ contaminate soil Estimate \$240 per m ³ for contaminated soil disposal	
Disposal fees Other	hazardous materials	m3	5 #N/A #N/A	\$240.00 \$0.00	\$1,200 \$0	50%	\$600 \$0	\$600 \$0		\$116 Assume current rate (no inflation)	Estimate \$240 per m ⁿ 3 for contaminated soil disposal	
CONTAMINATED SOILS				*****	**			•				
										Fuel storage areas are to be assessed for fuel contamination as noted the CRP.	t	
										Assume Phase 1 ESA for Camp sites and federal leases.		
										Assume accidental duplication of cost in Proponent's estimate. Use of RECLAIM unit cost code consistent with the Proponent's		
										assumption.		
										Assume includes travel time and transport.		
Contam. soil investigation - Phase 1	Phase 1 ESA	allow	1 cs1l	\$7,500.00	\$7,500	50%	\$3 750	\$3,750	5	Assume second Phase 1 ESA in Proponent's estimate was added in	Proponent's estimate includes a second Phase 1 ESA investigation using a project-specific cost allowance.	 Confirm number of Phase 1 ESA investigations needed
Contam. soil investigation - Phase :		each	#N/A	\$0.00	\$0		\$0	\$0				
										Assume 1 sample per site, 4 current drill locations at time of closure an 2 fuel cache (primary and secondary storage. Total of 6 sites	,	
										Assume 50:50 split of drills due to uncertainty of location at time of		
										abandonment. Uses Proponent's sample cost allowance from Territorial Tab.		
Soil sampling for Phase 1	Soil sampling for Phase 1 ESA	allow	6 #N/A	\$215.00	\$1,290	50%	\$645	\$645	I/A, curren	t rates No inflation due to current estimated sample rates.	Not included in Proponent's estimate (Federal Tab)	
CONTAMINATED SOIL REMOVAL		2	*****	e0 00	**		-					
Excavate and transport to onsite facilit Manage hydrocarbon remediation at facilit	1	m3 m3	#N/A #N/A	\$0.00 \$0.00	\$0 \$0		\$0 \$0	\$0 \$0				
Reagents/stabilizing agen		m2	#N/A	\$0.00	\$0		\$0	\$0				
											Includes cost for contaminated soils to be excavated Assumes 3% of total area for project will require	
										Quantity based on described approach in Proponent' estimate	excavation of contaminated soil	
										Assume excavation at Hidden Lake Camp footprint, based on CRP.	Assumes footprint of 871.25m2 resulting in a total	
							000	\$59		Assume excavation for transport off site. \$25 Federal only cost report	volume of 26.14m3. Assume excavation depth of 1m.	
Excavate	Hydrocarbon contaminated soil	m3	27.23 SB1L	\$4.30	\$117	50%	\$59			Uses Proponent's disposal fee from Territorial tat		
Excavate	Hydrocarbon contaminated soil	m3	27.23 SB1L	\$4.30	\$117	50%	\$59				The second secon	
Excavate	Hydrocarbon contaminated soil	m3	27.23 SB1L	\$4.30	\$117	50%	\$59			Inflation from Jan 2020 to present applied.		Confirm how contaminated soil will be disease.
	Hydrocarbon contaminated soil Hydrocarbon contaminated soil	m3	27.23 SB1L	\$4.30 \$300.00	****	50%	•	\$4,084			Not included in Proponent's estimate	Confirm how contaminated soil will be dispose and the disposal location
Excavate Disposal fees	·	-			****		•	\$4,084		Inflation from Jan 2020 to present applied. Assume disposal of excavated area	Includes cost for contouring due to excavated	
	·	-			****		•	\$4,084		Inflation from Jan 2020 to present applied. Assume disposal of excavated area	Includes cost for contouring due to excavated contaminated soils.	
Disposal fees	Hydrocarbon contaminated soil	m3	27.23 #N/A	\$300.00	\$8,168	50%	\$4,084	• ,,		Inflation from Jan 2020 to present applied. Assume disposal of excavated area \$752 Demobilization addressed in Mobilization tab. Assumes quantity from Proponent' estimate	Includes cost for contouring due to excavatec contaminated soils. Assumes 3% of total area for project will require excavation of contaminated soil (26.14 m3 total)	
Disposal fees Contour decontaminated area	Hydrocarbon contaminated soil Contouring excavated area	-			****		•	\$4,084 \$52		Inflation from Jan 2020 to present applied. Assume disposal of exavated area \$792 Demobilization addressed in Mobilization tab.	Includes cost for contouring due to excavated contaminated soils. Assumes 3% of total area for project will require	
Disposal fees Contour decontaminated area CONTAMINATED SOIL VERY LOW PERI	Hydrocarbon contaminated soil Contouring excavated area	m3	27.23 #N/A	\$300.00	\$8,168	50%	\$4,084	\$52		Inflation from Jan 2020 to present applied. Assume disposal of excavated area \$752 Demobilization addressed in Mobilization tab. Assumes quantity from Proponent' estimate	Includes cost for contouring due to excavatec contaminated soils. Assumes 3% of total area for project will require excavation of contaminated soil (26.14 m3 total)	
Disposal fees Contour decontaminated area CONTAMINATED SOIL VERY LOW PER: Supply geomembrane, HDPE, ES3, GCI Upoer and lower bedding lawer.	Hydrocarbon contaminated soil Contouring excavated area	m3 m3 m2 m3	27.23 #N/A 27.23 DSH #N/A	\$3.80 \$0.00 \$0.00	\$8,168 \$103 \$0 \$0	50%	\$4,084 \$52 \$0 \$0	\$52 \$0 \$0		Inflation from Jan 2020 to present applied. Assume disposal of excavated area \$752 Demobilization addressed in Mobilization tab. Assumes quantity from Proponent' estimate	Includes cost for contouring due to excavatec contaminated soils. Assumes 3% of total area for project will require excavation of contaminated soil (26.14 m3 total)	
Contour decontaminated area CONTAMINATED SOIL VERY LOW PERI Supply geomembrane, HDPE, ES3, GCI Upper and lower bedding layer Install geomembrane, HDPE, ES3, GCI	Hydrocarbon contaminated soil Contouring excavated area	m3 m3 m2 m3 m2	27.23 #N/A 27.23 DSH #N/A #N/A #N/A	\$300.00 \$3.80 \$0.00 \$0.00 \$0.00	\$8,168 \$103 \$0 \$0 \$0	50%	\$4,084 \$52 \$0 \$0 \$0	\$52 \$0 \$0 \$0 \$0		Inflation from Jan 2020 to present applied. Assume disposal of excavated area \$752 Demobilization addressed in Mobilization tab. Assumes quantity from Proponent' estimate	Includes cost for contouring due to excavatec contaminated soils. Assumes 3% of total area for project will require excavation of contaminated soil (26.14 m3 total)	
Disposal fees	Hydrocarbon contaminated soil Contouring excavated area	m3 m3 m2 m3	27.23 #N/A 27.23 DSH #N/A	\$3.80 \$0.00 \$0.00	\$8,168 \$103 \$0 \$0	50%	\$4,084 \$52 \$0 \$0	\$52 \$0 \$0		Inflation from Jan 2020 to present applied. Assume disposal of excavated area \$752 Demobilization addressed in Mobilization tab. Assumes quantity from Proponent' estimate	Includes cost for contouring due to excavatec contaminated soils. Assumes 3% of total area for project will require excavation of contaminated soil (26.14 m3 total)	

Other	#N/A	\$0.00	\$0	\$0	\$0
OTHER					
	#N/A	\$0.00	\$0	\$0	\$0
		Total	\$30,930		\$15,465
		% of Total		50%	50%

1 Interim Care and Maintenance

ACTIVITY/MATERIAL	Notes	Units Quar	ntity Cost Code	Unit Cost	Cost Inflation	Source of Information	Comparison to Proponent's Security
INTERIM CARE & MAINTENANCE							
on-site caretaker		manmonths	#N/A	0	\$0		
extra personnel		manmonths	#N/A	0	\$0		
-electrician		manmonths	#N/A	0	\$0		
-mechanic		manmonths	#N/A	0	\$0		
annual fuel		litre	#N/A	0	\$0		
misc. supplies		allow	#N/A	0	\$0		
pick-up truck		each	#N/A	0	\$0		
small dozer		allow	#N/A	0	\$0		
small excavator		allow	#N/A	0	\$0		
snow machine		allow	#N/A	0	\$0		
communications		allow	#N/A	0	\$0		
SNP/AEMP water sampling & reporti	ng	each	#N/A	0	\$0		
geotechnical assessment		each	#N/A	0	\$0		
interim water treatment			#N/A	\$0	\$0		
						Uses Proponent's cost allowance.	
						No inflation due to current estimated pro	ject Included project-specific cost allowance
						specific cost.	Includes travel time and transport.
Other	ICM Inspection	allow	1 #N/A	2500	\$2,500 N/A, current rates	Assume Federal amount shown	Federal (under GNWT Tab)
	•		Annual Inter	im C&M Cost	\$2,500		
Number of years of	ICM	years	1	Total	\$2,500	1 years ICM assumed.	included in Proponent's estimate

1 Mobilization/Demobilization:

ACTIVITY/MATERIAL	Notes	Units Qu	Cost antity Code	Unit Cost	Cost	Inflation	Source of Information	Comparison to Proponent's Security	Information Requested from Proponent
iobilize Heavy Equipment							Per RECLAIM manual, it is assumed existing on-site equipment is not available for use in reclamation. Therefore, assume below equipment is required to be mobilized/demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Unless otherwise stated, assume fed/terr split based on capital cost	Costs shown are territorial costs unless	
Reclamation Equipment	1 piece. Winter road construction/site reclamation.						split. Federal cost reported only.		Confirm reclamation equipment requirement
Excavators	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation.	hrs	1.5 hiabl	\$155	\$112		\$24 Assume 1 load per each piece of equipment.	Included in Proponent's estimate.	
Dozers	Transport by 1 flat deck truck. 1 piece. Winter road construction/site reclamation, loading flat decks.	hrs	1.5 hiabl	\$155	\$112		\$24 Assume 1 load per each piece of equipment.	Included in Proponent's estimate.	
Loader	Transport by 1 flat deck truck. 3 vehicles. Worker access.	hrs	1.5 hiabl	\$155	\$112		\$24 Assume 1 load per each piece of equipment. Assume trucks will be driven back from site by reclamation staff, with	Included in Proponent's estimate.	
Light duty vehicles	Addressed with worker mobilization.	hrs	#N/A	\$0	\$0		\$0 costs addressed with worker mobilization/demobilization.	Included in Proponent's estimate.	
Water truck	piece. Winter road construction/site reclamation. Addressed with worker mobilization.	hrs	#N/A	\$0	\$0		Assume truck driven back from site by reclamation staff, with costs \$0 addressed with worker mobilization/demobilization.	Included in Proponent's estimate.	
Light duty vehicles	Rental fee. 3 trucks for all leases. 1 piece. Winter road construction/site reclamation.	days	27 #N/A	\$200	\$5,400	77	Assume 3 trucks. Typical daily rental rate assumed. Assume mobilization of light trucks to site is addressed with worker mobilization costs below. Assume reclamation program duration based on reclamation activities on federal land (9 days). 51,166 Federal only cost reported. Per Proponent's correspondence (Mar 17), listed the addition of a snow cat as a required equipment to support reclamation of the fed/ter leases to "open the existing WR to access the campsite."	cost item of 2 trucks for 21 days in line item "Other" without providing rationale.	,
Snow cats	Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$112		\$24 Assume 1 load per each piece of equipment.	Not included in Proponent's estimate.	
Other MOBILIZE MISC. EQUIPMENT		allow	#N/A		\$0				
Pump shipping		each	#N/A	\$0	\$0				
ipe shipping		m	#N/A	\$0	\$0				
linor tools and equipment		allow	#N/A	\$0	\$0				
ruck tires		allow	#N/A	\$0	\$0				
Other MOBILIZE CAMP		allow	#N/A		\$0				
Reclamation activities ong term reclamation activities (eg pun	np flooding)	allow allow	1 #N/A #N/A	\$4,000 \$0	\$4,000 \$0	N/A, current	Adopted Proponent's estimate. Assume minimal camp requirements Assume current rate, thus no inflation rates Assume Federal cost reported only.	Included in Proponent's estimate Assume minimal camp requirements as exploration camp will be taken down as part of reclamation activities.	Confirm schedule of anticipated reclamation
MOBILIZE WORKERS									activities including any shift changes
Reclamation activities - travel time	All activities 1 supervisor. Mob and demob. Transport by pick-up truck. 2 week shift, 2 mob events.	hrs	6 SUPERL	\$52	\$ 151		Assume 1 supervisor required for winter road construction, drill site reclamation and demob. Assume 1.5 hr travel time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks. Assume supervisor is shared between leases, with federal/territorial samples and the sample of the sample shared between the sample shared between the sample shared between the sample shared to the sample shared between the sample shared between the sample shared shared to the sample shared shared to the sample shared s	Includes costing for 3 hrs of travel time (round trip) for 1 supervisor, split between Mod and Demob. Assume 1 shift	
	Drill demob/reclamation 4 person drill crew.						Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks. Assume dill crew is shared between leases, with federal/territorial spli Sigg based on capital cost split. Federal cost reported only.	Includes costing for 3 hrs of travel time (round trip) for 5 person crew, split between Mod and ¹ Demob. Assume 1 shift	
eclamation activities - travel time	Mob and demob. Transport by pick-up trucks. 2 week shift, 2 mob events.	hrs	24 LAB-SL	\$41	\$475				
Reclamation activities - travel time	Transport by pick-up trucks.	hrs	24 LAB-SL 12 LAB-USL	\$41 \$31	\$475 \$180		Assume 2 labourers required for winter road construction. Assume 1.5 hr travel time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks. Assume labourers shared between leases, with federal/territorial split	Not included in Proponent's estimate.	
teclamation activities - travel time	Transport by pick-up trucks. 2 week shift, 2 mob events. Winter road construction 2 skilled labourers. Mob and demob. Transport by pick-up truck. 2 week shift, 2 mob events. Winter road construction 2 equipment operators. Mob and demob. Transport by pick-up truck.	hrs	12 LAB-USL	\$31	\$180		Assume 2 labourers required for winter road construction. Assume 1.5 hr tavet time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks. Assume labourers shared between leases, with federal/territorial split says based on capital cost split. Federal cost reported only. Assume 2 equipment operators required for winter road construction. Assume 1.5 hr tavet time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume split change every 2 weeks. Assume operators shared between leases, with federal/territorial split		
declamation activities - travel time	Transport by pick-up trucks. 2 week shift, 2 mob events. Winter road construction 2 skilled labourers. Mob and demob. Transport by pick-up truck. 2 week shift, 2 mob events. Winter road construction 2 equipment operators. Mob and demob. Transport by pick-up truck. 2 week shift, 2 mob events.	hrs	12 LAB-USL 12 OPERL	\$31 \$41	\$180 \$238		Assume 2 labourers required for winter road construction. Assume 1.5 hr travel time from Yellowkinfe (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks. Assume labourers shared between leases, with federal/territorial split sage based on capital cost split. Federal cost reported only. Assume 2 equipment operators required for winter road construction. Assume 1.5 hr travel time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks.	Not included in Proponent's estimate. Not included in Proponent's estimate.	
	Transport by pick-up trucks. 2 week shift, 2 mob events. Winter road construction 2 skilled labourers. Mob and demob. Transport by pick-up truck. 2 week shift, 2 mob events. Winter road construction 2 equipment operators. Mob and demob. Transport by pick-up truck. 2 week shift, 2 mob events.	hrs	12 LAB-USL	\$31	\$180		Assume 2 labourers required for winter road construction. Assume 1.5 hr tavet time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume shift change every 2 weeks. Assume labourers shared between leases, with federal/territorial split says based on capital cost split. Federal cost reported only. Assume 2 equipment operators required for winter road construction. Assume 1.5 hr tavet time from Yellowknife (3 hr round trip). Assume transport to camp by light duty pick up truck. Assume split change every 2 weeks. Assume operators shared between leases, with federal/territorial split		

	Drill demob, site reclamation, winter road					Total persondays is based on estimated crew and activity time requirements (see estimates below). Additional camp support staff are expected to be required beyond the Included in Proponent's estimate approx. 9 person crew. However, costing for additional camp support Assumes a 6 person crew Provide schedule of project activities, including
Reclamation activities	construction/operation	persondays	35.7 ACCML	\$100	\$3,570	\$771 staff is assumed addressed with camp operation costs. Assumes a 21 day (3 weeks) program equipment, crew and time requirements.
Long term reclamation activities (eg pump	flooding)	personmonths	#N/A	\$0	\$0	
MOBILIZE FUEL						
						Estimate approx. 5800 L total fuel requirement based on estimated
						equipment requirements (see calculations below). Estimate 28 fuel drums. Assume 25 drums per truck, thus 2 truck Proponent's estimate assumes fuel estimate of
						loads. Some 20 definition of the state of th
						Assume 1.5 hr travel time from Yellowknife (3 hr round trip). 2 weeks. Discrepancy between available fuel
Fuel freight - reclamation activities &						Assume transport by flat-bed truck. and program length. Federal cost reported only. Uses RECLAIM unit cost for corresponding fuel Confirm the volume of fuel needed to support
accommodations		hrs	6 HIABI	\$155	\$930	receral cost reported only. S201 Assume cost of fuel is included with costing for reclamation activities. quantity.
Fuel freight - long term reclamation activitie	es	litre	#N/A	\$0	\$0	• • • •
WINTER ROAD						
	Roads located on Federal Land * Hidden Lake Camp					Estimate total of 4.7km of winter road is located on federal land based. Assume approximately 2.2 km of winter road
Construction and operation	* Perlis Lease NT-3366	km	4.7 WRCI	\$2,000	\$9,400	Estimate total of 4./km or winter road is located on recertal land based. Assume approximately 2.2 km or winter road \$2,030 on site maps required one season)
Limited winter use	1 3110 23000 111 3000	km	#N/A	\$0	\$0	SEASON OF THE MAPP
Winter road tariff		km	#N/A	\$0	\$0	
DEMOBILIZE HEAVY EQUIPMENT						
						Per RECLAIM manual, it is assumed existing on-site equipment is not available for use in reclamation. Therefore, assume below equipment is required to be mobilized / demobilized to complete winter road construction and reclamation activities. Assume average 1.5 hr travel time between Yellowknife and all leases based on site maps. Assume fed/terr split based on capital cost split.
Reclamation Equipment	1 piece. Winter road/site reclamation.					Federal cost reported only.
Excavators	Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$112	\$24 Assume 1 load per each piece of equipment. Included in Proponent's estimate
	1 piece. Winter road construction/site reclamation.			7.22	****	
Dozers	Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$112	\$24 Assume 1 load per each piece of equipment. Not included in Proponent's estimate.
	1 piece. Winter road construction/site reclamation,					
Loader	loading flat decks.	hrs	4.5.1.1.1		200	
Loader	Transport by 1 flat deck truck.	nrs	1.5 hiabl	\$155	\$112	\$24 Assume 1 load per each piece of equipment. Included in Proponent's estimate Per Proponent's correspondence (Mar 17), listed the addition of a
Snow cats	1 piece. Winter road construction/site reclamation. Transport by 1 flat deck truck.	hrs	1.5 hiabl	\$155	\$112	snow cat as a required equipment to support reclamation of the fed/terr leases to "open the existing WR to access the campsite." 824 Assume 1 load per each piece of equipment. Not included in Proponent's estimate.
Show cars	3 vehicles. Worker access	1113	1.5 mapi	\$100	9112	Assume trucks will be driven back from site by reclamation staff, with
Light duty vehicles	Addressed with worker mobilization.	hrs	#N/A	\$0	\$0	Assume trucks will be annen back from site by reclamation start, with So costs addressed with worker mobilization/demobilization. Not included in Proponent's estimate.
Light daty vollidios	piece. Winter road construction/site reclamation.	1110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40	40	Assume truck driven back from site by reclamation staff, with costs
Water truck	Addressed with worker mobilization.	hrs	#N/A	\$0	\$0	\$0 addressed with worker mobilization/demobilization. Not included in Proponent's estimate.
Operations Equipment Solids removal equipment ow generator	5 pieces	hrs	15 hiabl	\$155.00	\$1,122	Below quantities from CRP. Assume average 1.5 in travel time between Yellowknife and all leases (3 hr round trip) based on site maps. Assume 1 transport by flat-bed truck. Assume 1 toad for each piece of equipment unless otherwise noted Assume fed/terr split based on capital cost split due to uncertainty in location of most equipment at the time of abandonment. Federal cost reported only. S242 Below quantities included in Proponent's estimate under Bibles Equip (Fed) Tab. Excludes Terr/Fed split Additional differences/ notes provided below. Not included in Proponent's estimate.
Skidder or D-6 bulldozer	4 pieces	hrs	12 hiabl	\$155.00	\$898	\$194
Water truck	4 pieces 4 piece	hrs	12 hiabi	\$155.00	\$898	3 194 excludes 2 pieces
Excavator	1 piece	hrs	3 hiabl	\$155.00	\$224	\$48
Grader Snow cats	1 piece 2 pieces	hrs hrs	3 hiabl 6 hiabl	\$155.00 \$155.00	\$224 \$449	\$48 \$97
Hagglund BV206	2 pieces 1 piece	nrs hrs	3 hiabl	\$155.00	\$449 \$224	\$48
Water pumps	10 pieces	hrs	3 hiabl	\$155.00	\$224	\$48
ATVs	6 pieces	hrs	3 hiabl	\$155.00	\$224	\$48
Snow machines Pick-up trucks	10 pieces 12 pieces	hrs hrs	6 hiabl 36 hiabl	\$155.00 \$155.00	\$449 \$2,694	\$97 Assume 2 loads for 10 snow machines excludes 2 pieces \$582 excludes 4 pieces
13.1.2.	(9 pieces Total) 5 pieces (5kw-10kw)	3	oo maa	-\$100.00	-\$2,007	Assume 1 load per generator larger than 19 kw (4 total) and 1 load for
Diesel generators	1 pieces (20kw) 3 pieces (40kw)	hrs	15 hiabl	\$155.00	\$1,122	all generators less than 11 kw. \$242
Incinerator	1 pieces (40kW)	nrs hrs	3 hiabl	\$155.00 \$155.00	\$1,122 \$224	\$242 \$48
Miscellaneous equipment	e.g., core saws, oil heaters, ice auger, blast hole di		3 hiabl	\$155.00	\$224	
DEMOBILIZE CAMP Reclamation activities DEMOBILIZE WORKERS		allow	1 #N/A	\$4,000	\$4,000 N/A	Adopted Proponent's estimate. Included in Proponent's estimate Assume minimal camp requirements. Assume minimal camp requirements as Assume current rate, thus no inflation. exploration camp will be taken down as part of reclamation activities.
Reclamation activities - travel time	Included with mob costs.	hrs	#N/A	\$0	\$0	Proponent's estimate includes two additional
						line items for demob crew (1 super and 5 crew members). Proponent's estimate uses units (persondays)
		each	#N/A	\$0	\$0	Included in Mobilize Worker. and cost code (\$/hr) that are misaligned

DEMOBILIZE WASTE						
Demobilize fuel tanks	3x 25,000L fuel tanks located at Hidden Lake Camp	hrs	9 HIABL	\$155	\$1,395	Assume 1 truck per tank to remove from site. Estimate 3 hrs total per round trip. \$301 Assume transport by flat-bed truck. Not included in Proponent's estimate.
Demobilize waste	From Hidden Lake Camp	hrs	9 HIABL	\$155	\$1,395	Based on Proponent's estimate. Assume includes demolished buildings, contaminated soil, site refuse and debris, sewage, remaining fuel drums, and any other inert and hazardous waste. Estimate 3 hrs total per round trip. Assume truck allocation is for hazardous waste removal under the soil. 310 Chemical tab, contaminated soil, and solid waste.
Transport waste rock to disposal facility	Assume PAG. Disposal in Alberta. 5 tonnes 1 round trip required. Tipping fee addressed in UG tab.	hrs	20.5 HIABL	\$ 155	\$318	Quantities outlined in US tab Assume waste rock from bulk sample is PAG and requires removal from site. Estimate 3 his travel time between Yellowkinife and Hidden Lake Camp for transport trucks. Estimate distance by winter road between Camp and bulk sample site for is approx. 10km total (30min round trip) for Ki, Fi, and Shorty leases. Assume 1 hr travel time between Yellowkinife and BIG & NITE leases. Assume disposal location for PAG waste rock located in Alberta at approximately 8 his travel time from Yellowkinife (one-way). Not included in Proponent's estimate.
Solid waste tipping fee	Tipping fee	tonne	40 #N/A	\$ 191.50	\$7.660 N/A, curre	40 tonnes of waste, per Proponent's estimate and correspondence. Based on 2023 Yellowknife landfill tipping fees for commercial waste from outside city. Proponent's estimate includes one line item under Demob Camp category provides Tipping fee of \$156/tonne \$156
Solid waste tipping fee	Minimum equipment charge	allow	1 #N/A	\$130	, ,	Int rates Minimum equipment charge based on 2023 Yellowknife tipping fees. Not included in Proponent's estimate.
Sewage tipping fee	Assumed \$94.88/m3	m3	1.62 #N/A	\$95.75	\$155 N/A, curre	Estimate 100 L sewage produced per person per day. Assume 20% is blackwater for off-site disposal, thus: 100 L/person/day x 9 people x 9 days = 6,100 L x 20%= 1,62 m3 = 1,62 tonnes. Estimate 1,62 m3 of blackwater for disposal. Intrales. Assume half solid waste tipping fee Not included in Proponent's estimate.
		1113	1.02 #14/74	Total	\$49,497	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Estimated Equipment Fuel Use

				Consum		
				ption		
				L/day		
		Days		(10hrs/d		
Equipment	# of Machines	Active	L/hr	ay)	Total fuel (L)	
Excavators		1	2 15	150	300	Assume needed for soil excavation, building teardown, winter road reclamation (approx. 2 days)
Water truck		1	12	120	1080	Assume needed for winter road construction/operation (total project duration)
Service Vehicles	į į	3	2.5	25	675	Assume needed for total project duration (total project duration)
Loader		1	7	70	630	Assume needed for loading flat decks, winter road construction/operation (total project duration)
Dozers		1	15	150	1350	Assume needed for winter road construction/operation (total project duration)
Snow Cat		1	17	170	1530	Per Proponent's correspondence (Mar 17 '23), assume needed for winter road construction/operation (total project duration)
Camp generator		1	2.9	29	261	Assume needed for total project duration
Total Per Day					5826	28 estimate number of barrels (205 L /barrel)

L/hr for equipment based on rates for typical equipment available online. Actual rates will likely vary based on specific equipment model, standby time, operational effort, environmental conditions, etc.

Major Project Activity Time Estimate

Building Teardown	
-	1 hr/each, 37 frames/pads = 3.7 days based on size
Tent frames and pads	and teardown by equipment/hand.
Total teardown time	3.7 days
Days	3.7
Crew required	4 (1 supervisor, 2 labourer, 1 operator)
Crew quantity (persons) - excluding supervis	3
Crew days (person days)	11.1
Demob Drill Rigs	
Demob drill rigs	5 hrs/drill
# drills	4
Total time	20 hrs = 2 days (10 hr day)
Days	2
Crew required	5 (1 supervisor, 4 drill crew)
Crew quantity (persons) - excluding supervis	4
Crew days (person days)	8
Abandon Drill Holes	
Cut/plug/cap time	0.5 hr
Travel time b/w holes	0.5 hr
# holes	280 holes rounded (10% total # for federal land)
Total time	28 hrs = 2.8 days rounded (10 hr day)
Days	2.8
Crew required	2 (2 labourers)
Crew quantity (persons) - excluding supervis	2

Crew days (person days)	5.6
Winter Road Construction	
	10 km/day based on build distance/time for other
Winter road build rate	northern winter roads
Winter road length	4.7
Total build time	0.5 day (assume min. half day)
Days	0.5
Crew required	3 (1 supervisor, 2 operators, 2 labourers)
Crew quantity (persons) - excluding supervis	4
Crew days (person days)	2
Total project days	9
Total persondays (excluding supervisor)	26.7
Supervisor days	9
Total persondays	35.7
Maximum persons onsite	9

Assume supervisor present for total project duration

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1 Post-Closure Monitoring & Maintenance:

MORTIONERS ABDESCINS Annual protection all inspection seach seac				04					
MATHONIA REPORT Married geochemical neglection Married geoch	ACTIVITY/MATERIAL	Notes	Units Quantity	Cost Code	Unit Cost	Cost	Source of Information	Comparison to Proponent's Security	Information Requested from Propone
Show junction each 84V 50.00 50 10 10 10 10 10 10	MONITORING & INSPECTIONS								
Sincy incomposition	Annual geotechnical inspection		each	#N/A	\$0.00	\$0			
Register			each			\$0			
Seventier motioning (ASIP and SRP) each MVA 50.00 10 - Pack pit flooting each each MVA 60.00 10 - Pack pit flooting each									
Action closury and flooding each 874 920 10									
### Page Region									
Ac Caught printing Program (Page 100 100									
Waste Support Waste Wa									
Section Montroing Sect		MD)							
Per Project Discription, accoss to leaves and camper during Register and Project Discription, and camper during Register and Project Discription, and Camper during Register and Project Discription (a) Support for surmore impection at Holiston Register and Project Discription (a) Support for surmore impection at Holiston Register and Project Discription (a) Support for surmore impection at Holiston Register and Register and Project Discription (a) Support for surmore impection at Holiston Register and Regi		ur)							
Registration Page	vegetation wonitoring		eacn	#IWA	\$0.00	\$0			
Cover Summer inspection Summer inspectio	Helicopter	Support for summer inspection	allowance	1 #N/A	\$15,564.00	\$3,891	The surmer program is supported by helcopter / aircraft. Assume 1 inspection per lease and 1 inspection at Hidden Lake camp, 8 locations total. 8 locations * 10.5 his per location = 4 hrs. Assume up to 2 hrs flying time round trip to Yellowknife. 6 hrs total. Included costs based on helicopter quotation from Sahtu- Helcopters Jan 22, 2021. Fight time = \$1850/hr * 6 hrs = \$4,464 Total = \$15.564 Inflation from Jan 2021 to present applied. Terrifed split based on proportion of inspection locations (75.26). \$447 Federal cost reported only Uses Proponent's cost allowance. No inflation due to current estimated project specific cost. Terrifed split based on proportion of inspection locations (75.25). Assume allowance excludes needed helcopter support during to	not included in proponent's estimate noticed by the second of the secon	
Repair errosion - infill guillies allow #NA \$0.00 \$0 Repair errosion - upgrade diversion ditches allow #NA \$0.00 \$0 Remove problem vegetation allow #NA \$0.00 \$0 Repair annial damage allow #NA \$0.00 \$0 Other Bost of the pair prosion #NA \$0.00 \$0 SPILLIVAS MAINTENANCE W \$0.00 \$0 Clear spilway each #NA \$0.00 \$0 CVIT'S MAINTENANCE #NA \$0.00 \$0 POSI-CLOSURE WAITER TREATMENT* \$0 \$0 Annual valer freatment cost, from "Water Treatment" \$0 \$0 Subtotal, Annual post-closure costs \$5,141 Discount rate for calculation of net present value of post-closure cost, % \$1, years	Other	summer inspection	each	1 #N/A	\$5,000.00	\$1,250			and criteria for passing inspection.
Repair erosion - upgrade diversion ditches allow #NA \$0.00 \$0 Remove problem vegetation allow #NA \$0.00 \$0 Repair airnal damage allow #NA \$0.00 \$0 Repair dupgrade access confols allow #NA \$0.00 \$0 Other Bloow #NA \$0.00 \$0 SPILLWAY MAINTENANCE WNA \$0.00 \$0 CWTS MAINTENANCE WNA \$0.00 \$0 CWTS MAINTENANCE WNA \$0.00 \$0 CWTS MAINTENANCE SO \$0 COST-CLOSURE WATER TREATMENT* \$0 \$0 Subtoal, Annual post-closure costs \$5,141 Discount rate for calculation of net present value of post-closure cost, % \$1,9ex =	COVER MAINTENANCE								
Remote problem vegetation allow #NA \$ 0.00 \$0 Repair unimal damage allow #NA \$ 0.00 \$0 Repair unimal damage allow #NA \$ 0.00 \$0 Other allow #NA \$ 0.00 \$0 SPILL WAY MAINTENANCE W \$ 0.00 \$0 Cours pullway each #NA \$ 0.00 \$0 COVES MAINTENANCE W W \$ 0.00 \$0 COVES LAUSINEWARCE TREATMENT** \$ 0.00 \$0 Annual water treatment cost, from "Water Treatment" \$ 0.00 \$0 Subtotal, Annual post-closure costs \$ 5,141 \$5,141 Discount rate for calculation of net present value of post-closure cost, % \$ 0.00% \$ 5,141	Repair erosion - infill gullies		allow	#N/A	\$0.00	\$0			
Repair animal damage allow #NA \$0.00 \$0 Repair project access controls allow #NA \$0.00 \$0 Other #NA \$0.00 \$0 SPILLAVA MAINTENANCE ************************************	Repair erosion - upgrade diversion ditches		allow	#N/A	\$0.00	\$0			
Repair animal damage allow #NA \$0.00 \$0 Repair/upgrade access controls allow #NA \$0.00 \$0 Other #NA \$0.00 \$0 SPILLAY MAINTENANCE ************************************	Remove problem vegetation		allow	#N/A	\$0.00	\$0			
Other #NA \$0.00 \$0 SPILLWAY MAINTENANCE #NA \$0.00 \$0 Clear spillway each #NA \$0.00 \$0 Clear spillway each #NA \$0.00 \$0 CWTS MAINTENANCE Walkinatin flow, restore vegetation allow #NA \$0.00 \$0 POST-CLOSURE WATER TREATMENT* \$0 \$0 Annual water treatment cost, from "Water Treatment" \$0 \$5,141 Subbotal, Annual post-closure costs \$5,141 \$5,141 Discount rate for calculation of net present value of post-closure cost, % \$0.00% \$1 Number of years of post-closure activity 1 years \$1			allow	#N/A	\$0.00	\$0			
SPILLWAY MAINTENANCE Repair crosion m3 #NA \$0.00 \$0 Clear spillway each #NA \$0.00 \$0 CWTS MAINTENANCE ************************************	Repair/upgrade access controls		allow	#N/A	\$0.00	\$0			
Repair erosion m3 #NA \$0.00 \$0 Clear spillway each #NA \$0.00 \$0 CWTS MAINTENANCE Bulliant flow, restore vegetation \$0 \$0 POST-CLOSURE WATER TREATMENT* \$0 \$0 Annual water freatment cost, from "Water Treatment" \$0 \$0 Subtotal, Annual post-closure costs \$5,141 \$5,141 Discount rate for calculation of net present value of post-closure cost, % 1 years \$1, years	Other			#N/A	\$0.00	\$0			
Clear spillway each #NA \$0.00 \$0 CWTS MAINTENANCE allow #NA \$0.00 \$0 Mointain flow, restore vegetation allow #NA \$0.00 \$0 POST-CLOSURE WATER TREATMENT* \$0 \$0 Subtoal, Annual post-closure costs \$0 \$5,141 Discount rate for calculation of net present value of post-closure cost, % \$0.00% \$0.00% Number of years of post-closure activity 1 years 1 years									
CWTS MAINTENANCE Maintain flow, restore vegetation Annual water freatment cost, from "Water Treatment" Subtotal, Annual post-closure costs Subtotal, Annual post-closure costs Subtotal of net present value of post-closure cost, % Number of years of post-closure activity Sylvers	Repair erosion		m3	#N/A	\$0.00	\$0			
Maintain flow, restore vegetation allow #NA \$0.00 \$0 POST-CLOSURE WATER TREATMENT* Annual water reatment cost, from "Water Treatment" Subtotal, Annual post-closure costs Subtotal, Annual post-closure costs Subtotal, Post-closure costs Subtotal, Subtotal, Subtotal, Subtotal Control of net present value of post-closure cost, % Number of years of post-closure activity 1 years	Clear spillway		each	#N/A	\$0.00	\$0			
POST-CLOSURE WATER TREATMENT* Annual water treatment cost, from 'Water Treatment' \$0 Subbotal, Annual post-closure costs Subbotal, Annual post-closure costs \$5,141 Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity 1 years	CWTS MAINTENANCE								
Annual water freatment cost, from "Water Treatment" Subtotal, Annual post-closure costs Subtotal, Annual post-closure costs Sistematical for calculation of net present value of post-closure cost, % Number of years of post-closure activity 1 years	Maintain flow, restore vegetation		allow	#N/A	\$0.00	\$0			
Subtotal, Annual post-closure costs Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity 1 years	POST-CLOSURE WATER TREATMENT**								
Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity 1 years	Annual water treatment cost, from "Water]	Treatment"				\$0			
Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity 1 years	Subtotal Annual neet closure costs					¢5 1/1			
Number of years of post-closure activity 1 years		tunius of post alegura sost 9/		0.009/		φυ, 141			
		value of post-closure cost, 76							
Present value or payment stream \$5,141 \$447					yedrs	ec 44:	0447		
	Present value of payment stream					\$5,141	\$ 44 7		

*Regulatory costs - annual reporting, management plans, progress reports etc.
Include water treatment cost from "Water Treatment" worksheet if treatment is considered long term, such as ARD/ML.

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Unit Cost Table (for refining unit costs see "Estimator" worksheet)

Filter by unit

ITEM	Detail	COST	UNITS	LOW \$	HIGH \$	SPECIFIED \$	COMMENTS
Acco	modation						
		ACCM	manday	100.00	175.00		
Build	ings - Decontaminate						
	Asbestos	BDA	m2	25.60	51.20		Low: removal of asbestos siding & flooring; High: removal of insulated pipes, friable asbestos
Build	ings - Remove						Unit costs are based on 3m high, single storey building. Scale areas accordingly.
	Wood	BRW	m2	27.50	41.00	6.00	Charified numeture concrete foundation clobe
	Concrete Steel - teardown	BRC BRS1	m2 m2	40.00 45.00	65.00 65.00	6.00	Specified: puncture concrete foundation slabs
	Steel - for salvage	BRS2	m2	67.00	100.00		
Conc	rete work	5.102		07.00	100.00		
	Small pour	CSF	m3	426.50	639.75		Low: YK; High=1.5xLow
	Large pour	CLF	m3	353.50	530.25	2,130.00	Specified: concrete crown pillar
Conta	aminated Soils						
	ESA Phase 1	CS1	each	7500.00			Low: small, "clean" site
	ESA Phase 1	CS2	each	50000.00	440.00		Low: small, "clean" site
Dozin	Remediate on site	CSR	m3	47.00	146.00		
DOZIII	doze rock piles	DR	m3	1.05	2.40		Low cost: doze crest off dump
	doze overburden/soil piles	DS	m3	0.95	3.80		High cost: push up to 300 m
Exca	ate Rock; Low Spec's and (.110	0.83	3.00		riigii sooti pasii up to soo iii
	drill/blast/load/short haul	RB1	m3	11.40	17.05		Low:quarry operations for bulk fill
	drill/blast/load/long haul	RB2	m3	12.05	17.80		
	RB1 + spread and compact	RB3	m3	12.05	17.80		
	RB2 + spread and compact	RB4	m3	12.50	30.75		
_	Specified activity	RBS	m3				
Exca	rate Rock; High Spec's and						(e.g. ditch/spillway excavation)
	drill/blast/load/short haul	RC1	m3	12.05	17.80		Low:foundation excavation;High:spillway excavation
	drill/blast/load/long haul	RC2	m3	12.70	18.40		
	RC1 + spread and compact RC2 + spread and compact	RC3	m3	12.70	18.40		e,g, cover construction
	Specified activity	RC4 RCS	m3 m3	13.50	19.20	175.00	e,g, cover construction Specified-drift excavation
Excay	/ate Rip Rap	RCS	III3			175.00	Specified-drift excavation
-200	drill/blast/load/short haul/place	RR1	m3	13.50	17.75		High: quarry & place rip rap in channel
	drill/blast/load/long haul/place	RR2	m3	14.20	20.65		right quality a place tip tap it offamor
	source is waste dump/short haul	RR3	m3	7.00			cost includes sorting
	source is waste dump/long haul	RR4	m3	7.60			·
	Specified activity	RRS	m3				
Exca	vate Soil; Low Spec's and Q	A/QC					
	clear & grub	SBC	m2	3.40	5.00		
	excavate/load/short haul	SB1	m3	4.30	5.90		
	excavate/load/long haul	SB2	m3	4.60	7.30		
	SB1 + spread and compact	SB3 SB4	m3	5.10	8.90		Low: non-engineered; High:engineered
	SB2 + spread and compact Specified activity	SBS SBS	m3 m3	5.50 3.20	11.00 6.30		Low: rependle weste resk dump by dezing: High: shandle weste resk by hauling
	Tailings	SBT	m3	1.35	3.70	15.50	Low: rehandle waste rock dump by dozing; High:rehandle waste rock by hauling High:contour surface - wet or frozen; Specified:haul/place wet infill
Excav	ate Soil, High Spec's and Q		1110	1.00	0.70	10.00	riightooritodi sahade - wet of fiezeri, opeoliied.hadiipiade wet iiiliii
	excavate/load/short haul	SC1	m3	6.80	9.30		
	excavate/load/long haul	SC2	m3	7.10	11.75		
	SC1 + spread and compact	SC3	m3	8.90	14.20		Low: non-engineered; High:engineered
	SC2 + spread and compact	SC4	m3	9.30	23.20		Low: non-engineered; High:engineered (e.g. complex covers, low volume dam construction)
_	Specified activity	SCS	m3			18.80	Backfill adit with waste rock
Fence							
F1	and Flaggists.	FNC	m	13.55	203.00		
ruela	and Electricity	500	lia				
	Fuel cost - gas Fuel cost - diesel	FCG	litre	1.05	1.40		
	Fuel cost - diesei Fuel mobilization	FCD FCM	litre litre	0.99 0.22	1.39 0.42		High: winter road usage
	Electricity	FCE	kW-h	0.22	0.42	0.49	Low and High:Yellowknife; Specified:diesel generator
Geo-S	Synthetics	TOL	KVV-II	0.17	0.13	0.43	Low and riight. reliowkhile, opecified diesel generator
	geotextile	GST	m2	3.44			Supply and install
	geogrid	GSG	m2	5.75			117
	liner, HDPE	GSHDPE		7.95	16.00		Supply and install; large quantity
	liner, ES3	GSES3	m2	20.20			FOB Yellowknife
	geosynthetic installation	GSI	m2	3.16	14.00		Low:geotextile; High:ES3 or HDPE
_	bentonite soil ammendment	GSBA	tonne	308.30	348.50		FOB Edmonton, add shipping & mixing
	ting (/m3 of rock grouted)	grout	m3	236.55	286.75		High: cement, FOB Yellowknife
Labo	ur & Equipment Rates						
	Site manager	sman	\$/hr	125.00	152.00		
	Supervisor	super	\$/hr	52.00	91.84		
	Registered engineer	eng	\$/hr	95.00	220.00		
	Environmental coordinator	envco	\$/hr	74.16	130.00		
	Evironmental technologist	envtech	\$/hr	36.00			

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Unit Cost Table (for refining unit costs see "Estimator" worksheet)

		Filter by	y unit				
	5		0.11	74.00	05.00		
	Electrician Journeyman - various	elec journey	\$/hr \$/hr	74.00 44.00	95.00 71.79		
	Labour - skilled	lab-s	\$/hr	41.00	49.60		
	Labour - unskilled	lab-us	\$/hr	31.00	43.98		
	Equipment operator	oper	\$/hr	41.00	65.00		
	Heavy duty mechanic	mech	\$/hr	49.00	72.85		
	Water treatment plant operator	oper-wt		41.00	59.86		
	Security / first aid	safety	\$/hr	36.00	66.97		
	Administative staff	admin	\$/hr	38.00	57.89		
	Equipment rates include operator a	and fuel					
	Loader - 4 cu.yd (3.06m3)	load-s	\$/hr	175.00			
	Loader - 7 cu.yd (5.35m3)	load-l	\$/hr	315.00			
	Excavator - 26.76-30.84 tonnes	exc-s	\$/hr	190.00			
	Excavator - 68.95+tonnes	exc-l	\$/hr	420.00			
	Grader	grad	\$/hr	190.00			
	Dump truck off hwy 30-50 tonnes Dump truck off hwy 55-75 tonnes	truck-s truck-l	\$/hr \$/hr	225.00 300.00			
	dozer, small	dozers	\$/hr	205.00	260.00		
	dozer, large	dozerl	\$/hr	490.00			
	smooth drum compactor	comp	\$/hr	155.00			
	scooptram, 6 yd3 bucket	scoop	\$/hr	170.00			
	flat bed truck with hiab	hiab	\$/hr	155.00			
	fuel truck	ftruck	\$/hr	150.00	450.00		
Mobili	water truck ze Heavy Equipment	wtruck	\$/hr	58.00	150.00		
HODIII	Road access	MHER	kmtonne	3.40	10.25		
	Air access	MHEA	kmtonne	12.00	10.20		cargo rate>500lb
Mobili	ze Camp						5
	Road access	MCR	each	50000.00			refurbish existing camp
Mobili	ze Workers						
Oil Re	flight	MW	each	4500.00	9100.00		Low:e.g. 8 passenger; High: Dash 7
Oli Ke	oil removal	OR	litre	0.43	1.20		Low:waste oil heater; High: ship offsite
PCB F	Removal	OIC	iiiie	0.43	1.20		Low.waste on fleater, riight. ship offsite
	Remove from site	PCBR	litre	40.20	46.90		Low: shipping, handling & disposal from Yellowknife
Pipes,	, small (<6in dia.)						
	remove/dispose on site	PSR	m	1.00	24.00		Low: remove/dispose on site; High: remove/re-use
	supply	PSS	m	6.10	11.10		Low:supply; High:supply and ship
Pines	install , large (>6in dia.)	PSI	m	25.00			
i ipes,	remove/dispose on site	PLR	m	22.00	72.00		Low: remove/dispose on site; High: remove/re-use
	supply	PLS	m	129.00	143.00		Low:supply; High:supply and ship
	install	PLI	m	50.00			
Power	r Lines						
D	remove/dispose on site	POWR	m	25.50			
Proce	ss Chemicals Remove from site	PCR	ka	0.45	2.50		Low: shipping, handling & disposal from Yellowknife
Pump:		FUR	kg	0.43	2.30		Low. Shipping, flanding & disposal from Tellowkille
	Pump capital cost	PC	each	195000.00			
	Pump shipping	PS	each	2500.00			
	Pump operating cost	POC	m3	0.12			pump operating costs should be calculated based on pump capacity, fuel costs, etc.
Dum	Pump maintenance	PM	allow	25000.00			
Fullip	sand BackFill	PBF	m3	85.00	300.00		
Scarif	y - road/mine site			00.00	550.00		
		SCFY	ha	4300	6030	2150	
Shaft,	Raise & Portal Closures						
	Shaft & Raises	SR	m2	645.00	2132.00		Low:pre-cast concrete slabs, little site prep. Area=shaft+>1m all around
Cita In	Portals	POR	m3	18.80	250.00	1200.00	Low:unit cost code SCS;High:excavate & backfill collapsed portal;Spec: installed pressure plug
Site in	spection Report	RPT	each	10000.00	20000.00		
SpillW	/ay - Clear	131 1	Caon	10000.00	20000.00		
-		SW	each	3000.00	7000.00		
Surve	y/Instrumentation						
		SI	each	1800.00	3600.00		2 person crew
Treatn	nent Plant - Construct						
	Small (< 1000 m3/d) Large (> 1000 m3/d)	TPS	lump sum	9000000	15000000		
	Constructed Wetland	TPL CWTS	lump sum ha	15000000 200000	46000000 300000		
Treatn	nent Plant - Operate	5,415	na -	200000	550000		
	·	TPO	m3	0.35	2.00		
Treatn	nent Chemicals						
	ferric sulphate	ferric	kg	1.19			
	ferrous sulphate lime	ferrous lime	kg ka	1.32 0.56			
	mile	mne	kg	0.50			

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Unit Cost Table (for refining unit costs see "Estimator" worksheet)

	, ,				,	
		Filter by	unit			
	hydrogen peroxide, 35%	hperox	kg	1.50		
	Sodium Metabisulfate	Nametab	kg	1.18		
	Caustic soda, 50%	caustic	kg	0.74		
	Sulfuric acid, 93%	sulfuric	kg	0.31		
	flocculant	flocc	kg	6.00		
	copper sulphate	copper	kg			
	shipping	shipping	kg	0.20		
Vegetation						
	Hydroseed, Flat	VHF	ha	4000.00		
	Hydroseed, Sloped	VHS	ha	4500.00		
	Veg. blanket/erosion mat	VB	ha	13000.00		
	Tree planting	VT	ha	2600.00	6000.00	
	Wetland species	VW	ha			47.72
Water Sampling/Analysis/Reporting						
		WS	each	7000.00	10000.00	
Winter	r Road					
	Construction Usage	WRC WRU	km kmtonne	2000.00 0.29	11500.00	

22 Specified= /m3, Wetland Growth Media Substrate mixed and installed (sand, biochar and fertilizer, woodchips)



APPENDIX B – GENERAL TERMS AND CONDITIONS



USE OF REPORT

This report has been prepared for the specific site, design objective, development and purpose described to ARKTIS Solutions Inc. (ARKTIS) by the Client. The factual data, interpretations and recommendations pertain to a specific site, a specific development, and a specific scope of work. It is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation of site conditions, purpose, and development plans, or if the project is not initialed within three months of the date of the report may alter the validity of the report. ARKTIS cannot be responsible for use of this report, or portions thereof, unless ARKTIS is requested to review, and if necessary, revise the report.

This report and the assessments and recommendations contained in it are intended for the sole benefit of ARKTIS' Client. No other party may use or rely on this report or any portion thereof without ARKTIS' expressed written consent. If the report was prepared to be included for a specific permit application process, then upon reasonable request of the client, ARKTIS may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to ARKTIS.

The report, all plans, data, drawings, and other documents as well as all electronic media prepared by ARKTIS are considered its professional work product and shall remain the copyright property of ARKTIS, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonable and necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any party without the express written consent of ARKTIS. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration, and incompatibility and therefore the Client cannot rely upon the electronic media versions of ARKTIS' report or other work products. ARKTIS does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than ARKTIS' Client or Authorized User unless otherwise authorized in writing by ARKTIS.

LIMITATIONS OF REPORT

The report is of a summary nature and is not intended to stand alone without the reference to the instructions given to ARKTIS by the Client, communications between ARKTIS and the Client, and to any other reports prepared by ARKTIS for the Client relative to the specific site described in the report. In order to properly understand suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. ARKTIS cannot be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, and safety and equipment capabilities.

Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil and rock or geologic types or units may be transitional rather than abrupt. Accordingly, ARKTIS does not warrant or guarantee the exactness of the descriptions.



LIMITATIONS OF LIABILITY

The client, and any other parties using this report with the express written consent of the clients and ARKTIS, acknowledge that conditions affecting the financial liability of the site can vary with time and that the conclusions and recommendations set out in this report are time sensitive.

During the performance of the work and the preparation of this report, ARKTIS may have relied on the information provided by persons other than the client. While ARKTIS endeavors to verify the accuracy of such information when instructed to do so by the client, ARKTIS accepts no responsibility for the accuracy or the reliability of such information which may affect the report.

The client, and any other party using this report with the express written consent of the client and ARKTIS, also acknowledge that the conclusions and recommendations set out in this report are based on limited observations and testing on the subject site and that conditions may vary across the site which, in turn, could affect the conclusions and recommendations made.

The client acknowledges that ARKTIS is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the client.

STANDARD OF CARE

Services performed by ARKTIS for this report have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and financial and physical constraints applicable to the services. Engineering judgment has been applied in developing the conclusions and/or recommendations provided in this report. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of this report.

ALTERNATE REPORT FORMAT

Where ARKTIS submits both electronic file and hard copy versions of reports, drawings and other project related documents and deliverables (collectively termed instruments of professional service), the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding.

The hard copy versions submitted by ARKTIS shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancies, the hard copy versions shall govern over the electronic versions. Furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed version archived by ARKTIS shall be deemed to be the overall original for the Project.

The Client agrees that both electronic file and hard copy versions of instruments of professional services shall not, under any circumstances, no matter who owns or uses them, be altered by any party except ARKTIS. The Client warrants that instruments of professional services will be used only and exactly as submitted by ARKTIS.



Spill Contingency Plan EREX International Ltd. MV2022C021, MV2022L8-0008, MV2022L8-0009

Project Yellowknife Lithium Project

Location Bighill – Hidden - Tanco Lakes area, NWT

Date of Submission March, 2023

Version # 1.1

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APPENDICES

Appendix A: Site Maps

Map 1 – Regional location of EREX's leases.

Map 2 – Property Location detail: Fi-Hi-Ki leases.

Map 3 – Property Location detail: BIG and NITE leases.

Map 4 – Property Location detail: Thor Lease.

Appendix B: Reportable Quantities for NWT Spills

Appendix C: NWT Spill Report Form

Appendix D: Material and Safety Data Sheets (MSDS)

Versions and Revisions

The Spill Contingency Plan (SCP or the Plan) is a living document that will be reviewed annually, at a minimum, and prior to the start of any site activities, with additional reviews as warranted. Updates should be made to reflect changes in spill contingency planning and practices, and new personnel and associated contact information. Table 1 presents a summary of the versions of this Plan and any revisions made; it is updated each time a revision is made to the Plan. This ensures stakeholders have the most current copy of the Plan.

Table 1: Version and Revision History

Version #	Date	Sections/Pages revised	Summary of Changes/Comments
1.0	Sept. 15, 2022	n/a	First submission
1.1	Feb. 10, 2023	p.4, 5, 6, 8, 9, 14, 15, 16, Appendix D	Contacts, Fuel volumes, spills on snow, ice, & water, SDS added additional project info, maps

Table 2: Conformity Table

Revision	Section	Board Direction	Date
1.1	Section 8, page 12	Update to include details about the number of spill kits and where they will be located, and the details of the small spill kits with sorbent pads to be used for transporting fuel (74)	March 2023
1.1	Section 7,	Remove the irrelevant sentence about biological response from Section 7.	March 2023
1.1	Table 7, Page 9	Update the contact information according to the comment by ECCC	March 2023

1.1	Section	Clearly indicate that food and domestic waste, as well as greases,	
	2, page 6	gasoline and glycol-based anti-freeze will be stored in an animal	
		proof containers/containment	
1.1	Table 7,	Add the contact information for Crown Indigenous Relations and	
	Page 9	Northern Affairs Canada (CIRNAC) Resources and Lands –	
		Yellowknife (867) 669-2442 and (867) 445-7935	

1. INTRODUCTION

EREX International Ltd. ("EREX" or the "Company") has developed this *Spill Contingency Plan* (the "Plan") for its Yellowknife Lithium Project (the "Project"). The Plan is effective from the date of issuance of the Land Use Permit that EREX has for its Project. The *Spill Contingency Plan* has been prepared for internal Company use and distributed to the Mackenzie Valley Land and Water Board for approval as part of EREX's Land Use Permit application. Copies and updates of this Plan can be obtained by contacting:

Carl Verley Francis MacDonald Vice-President, EREX CEO & Director, EREX Phone: 604-616-8299 778-322-8705

Email: carl@li-ft.com Francis@li-ft.com

The purpose of EREX's *Spill Contingency Plan* is to provide a plan of action for any spill event during the Company's exploration programs on its leases in the project area situated in the Northwest Territories, as well as on Federal land where its main campsite is proposed to be located. The Plan provides protocols for responding to spills (or potential spills) that will minimize health and safety hazards, environmental damage, and clean-up costs, as well as defining responsibilities of response personnel. The Plan includes details for the sites that operations will be conducted upon, and describes the response organization, action plans, reporting procedures and training exercises in place.

1.1 Recipients

Table 3 identifies who the most recent version of the Plan has been distributed to:

Name **Position** Yellowknives Dene First Nation Ryan Miller, Johanna Black, Adrian Boyd, Kieron Testart (YKDFN) **Settlement Administrative Officer** Lutselke First Nation (LKFN) Minnie Whimp Deninu Kue First Nation (DKFN) Brett Wheler, Violet Camsell-Tlicho Government Blondin. Jessica Pacunayen, Longinus Ekwe, Grace MacKenzie Jessica Hurtubise, Noah Johnson North Slave Metis Alliance Jessica Poole Akaitcho Screening Board Tim Morton **CIRNAC** Clint Ambrose **GNWT**

Table 3: Recipients of this Version of the Spill Contingency Plan

2. PROJECT INFORMATION

The leases making up EREX's Project are situated in Akaitcho Territory and bounded by latitudes: 62.179129° North to 62.854255° North, and longitudes: 112.135661° West to 114.186622° West. The main campsite is tentatively located at the following coordinates: 62.570713° North and 113.501765° West. The campsite is situated on the abandoned Hidden Lake gold mine, land that has been reclaimed

by the Contaminants and Remediation Directorate of CIRNAC Crown Indigenous Relations and Northern Affairs Canada) The land is still under control of CIRNAC; EREX has an access agreement with CIRNAC to set up a campsite on that land. Capacity for the camp will be to a maximum of 49 people with the average being around 46 for most of the drilling program. Project location maps are found in Appendix A. Table 3 presents a tentative list of structures to be erected at the campsite.

Item, Purpose Dimensions (m) Area (m2) Quantity Tent, Sleepers 18 4.3 x 4.9 379.26 Tent, First Aid 21.07 1 4.3 x 4.9 Tent, Kitchen 2 4.3 x 9.8 84.28 Tent, Men's Dry 1 4.3 x 9.8 42.14 Tent, Women's Dry 2 4.3 x 6.1 52.46 Tent, Offices 2 4.3 x 4.9 42.14 Tent, Core logging 3 4.3 x 9.8 126.42 3 63.21 Tent, Core cutting 4.3 x 4.9 Tent, Toilets 3 4.3 x 4.9 63.21 3 3.7 x 4.9 54.39 Generator, Shed

Table 4. Camp Accommodations

Diesel and jet (helicopter) fuel will be stored on Federal land near the campsite in bulk fuel systems with a capacity of up to 75,000 litres, consisting of double-walled steel tanks. Double-walled steel tanks will be placed in earthen berms that act as third-order containment (since double wall is two orders) and to protect the tank from vehicles, in accordance with industry best-practise (PDAC, 2009). Storage Tank Permits will be obtained prior to be deployed and used at the Project for all tanks with capacity >4,000 litres, as required by the *Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations* (Canada, 2008).

Fuel will be transferred from the bulk systems into smaller containers (e.g. 205 litre steel drums or tidy tanks) for local transport to drill sites, the generator shack or the helicopter pad, or directly into vehicles. Drums will be stored horizontally with their caps in the "3 and 9 o'clock" positions to minimize bung pressure and potential leakage.

All caches, including bulk fuel systems, fill lines and distribution lines will be marked with flags, posts, or similar devices to maximize their visibility.

Fuel will be dispensed using purpose-built manual or electric pumps. Liquid-tight containers or sumps will be placed below each tap, valve and nozzle used to dispense fuel. Spill kits, absorbent matting and copies of the Spill Contingency Plan will be present at all bulk fuel, small cache, and refuelling sites.

A limited amount of fuel in 205 litre drums will also be brought in and stored beside the main fuel cache, which will be situated on Federal land by the campsite and by the Thompson-Lundmark winter road, in a secondary containment area. Greases, gasoline, and glycol-based antifreeze will be stored either in animal proof containers or in animal proof structures at the main camp. The amount and variety of fuels that can

be on site at any one time are listed in Table 5. It is anticipated that over the term of the permit fuel will be required for drilling and camp support at the Echo lease (formerly known as THOR) as well as the BIG lease, also as listed in Table 5.

Table 5. Fuel Types to be used in the Project

Hidden Lake Camp – Federal Land Diesel 3 25,000 ltr Tanks Federal Land Diesel: 60 205 ltr Barrel Federal Land			
Diesel: 60 205 ltr Barrel Federal Land			
Gasoline: 10 205 ltr Barrel Federal Land			
Aviation Fuel: 60 205 ltr Barrel Federal Land			
Propane: 40 45 kg 100# cylinders Federal Land, 0	Camp		
Other: various lubricants, including drilling fluids 100 1 ltr to 22 ltr pails Tubes, cans, and pails Federal Land, or	Camp		
BIG Lease (NT-3197)			
Diesel 75 205 ltr Barrel Territorial Land Camp site on I	•		
Aviation Fuel 25 205 ltr Barrel Territorial Land Camp site on I	-		
Gasoline 2 205 ltr Barrel Territorial Land Camp site on I	•		
Propane 5 45 kg 100# cylinders Territorial Land Camp site on I	•		
Other: various lubricants, including drilling fluids 100 1 ltr to 22 ltr pails Tubes, cans, and pails Territorial Land pails Camp site on leading to the control of the	•		
Echo Lease (NT-3192)(formerly known as THOR)			
Diesel 50 205 ltr Barrel Territorial Land Camp site on I			
Aviation Fuel 50 205 ltr Barrel Territorial Land Camp site on I			

Table 4. continued

Type of Fuel	Number of containers	Capacity of containers (e.g., litres, pounds)	Type of container (e.g., barrel, tank, tidy-tank)	Proposed storage or staging location(s)
ECHO Lease (NT-31	L 92)			
Gasoline	2	205 ltr	Barrel	Territorial Land, Camp site on lease
Propane	5	45 kg	100# cylinders	Territorial Land, Camp site on lease
Other: various lubricants, including drilling fluids	100	1 ltr to 22 ltr	Tubes, cans, and pails	Territorial Land, Camp site on lease

3. SPILL RESPONSE

The Camp Attendant will be responsible for checking fuel drum conditions and evidence of leakage on a daily basis, assuring drip trays are in place and not overflowing, keeping spill kits and absorbent mats in good repair and accessible. If a spill or the likelihood of a spill occurs, the Attendant will immediately report to the Project Manager. Drillers and other operators of machinery are to report spills or potential spills to the Project Manager.

In the event of a spill, the Project Manager will follow the Reporting Procedure and initiate cleanup. The Project Manager will request additional aid from external sources if deemed necessary.

If one or more of these key personnel are absent from the site, an alternative person will be named as either Camp Attendant or Project Manager in the interim. Names of key personnel to be responsible for activating the Spill Contingency Plan will be made available once crew members have been hired.

4. SPILL REPORTING PROCEDURE

Spill reporting procedures are listed in Table 6. Additional information and contacts for reporting spills are found in Table 6. Communication in the way of two-way radios will be set-up, such that in the event a spill occurs outside of camp (e.g., at a drill site), it can be immediately reported to the Project Manager. Spill kits located at drill sites, fuel caches, at the helicopter landing pad, and the camp office and will have contact information for the NWT Spill Report Line prominently displayed. A listing of the NWT 24-Hour Spill Report Line as well as other government contacts and company officials will be displayed adjacent to the satellite phone in camp. A guide to reportable spill volumes is found in Appendix B.

Table 6. Spill reporting procedure.

Step	Procedure
1	Fill out "SPILL REPORT" form as completely as possible before making the report. The form is in Appendix C.
	CALL: Yellowknife using the 24-hour Spill Report Line: (867) 920-8130, or
2	CALL: RCMP (867) 669-1111 if other means are not available. Calls can be made collect by informing the Operator that you wish to report a spill.

Table 7. Additional information or assistance regarding spills.

Contact	Phone Number	
Regulatory Bodies		
Government of Northwest Territories	(867) 767-9188	
Department of Lands – North Slave Region, Yellowknife	(867) 446-0769	
Crown Indigenous Relations and Northern Affairs Canada	(867) 669-2442 or	
(CIRNAC) Lands and Resources - Yellowknife	(867)445-7935	
ECCC Environmental Enforcement	(867) 669-4730	
National Environmental Emergencies Center (NEEC) Toll-Free	(866) 283-2333	
RCMP Detachment, Yellowknife	(867) 669-1111	
Contractors		
Discovery Mining Services, Yellowknife	(867) 920-4600	
Equity Exploration Consultants Ltd	(604) 688-9806	
Company		
EREX International Ltd – Carl Verley	(604) 616-8299	
Equity Exploration Consultants Ltd – Chris Hughes	(604) 688-9806	

5. INITIAL ACTION

The procedures for any individual to follow when a spill is detected are listed in Table 8 on the following page.

Table 8. Initial action procedure.

Step	Action
1	Stay alert and consider safety first.
2	Identify: a. The source of leak or spill b. The type of product
3	Assess the hazards to persons in the vicinity of the spill.
4	Isolate or remove any potential ignition source.
5	If possible, control danger to human life.
6	Assess whether the spill can be readily stopped or brought under control.
7	If safe and if possible, try to stop the flow.
8	Report the spill to the Project Manager, who will follow the <i>Spill Reporting Procedure</i> .
9	When safe, begin clean-up.

6. ACTION PLANS

The following responses are recommended for fuel spills in differing environments. Depending on the location and size of the exploration program, some of the equipment mentioned in the responses listed below will obviously not be located on site; however, they could be transported to the spill if deemed necessary. The most likely sources of fuel spills in this type of exploration program include:

- (a) leaking drums and/or tanks,
- (b) hydraulic-line malfunction, and
- (c) re-fueling operations.

Spills on Land

For spills on land (gravel, rock, soil, and vegetated surface areas) follow the procedures listed below.

Table 9. Procedure for land spills.

Step	Action Item
1	Trench or ditch to intercept or contain flow of fuel or petroleum products on land where feasible (loose sand, gravel and surface layers of organic materials are amenable to ditching/trenching; ditching/trenching in rocky substrates is typically impractical and
	impossible).
2	Construct a soil berm downslope of the spill. Use of synthetic, impervious sheeting can
	also be used to act as a barrier.
3	Where available, recover spills through manual or mechanical means including shovels,
J	heavy equipment, and pumps.
4	Absorb petroleum residue with synthetic sorbent pad materials.
5	Recover spilled and contaminated material, including soil and vegetation.
	Transport contaminated material to approved disposal or recovery site. Equipment
6	used will depend on the magnitude and location of the spill. Note that land-based
	disposal is only authorized with the approval of government authorities.

Spills on Snow

For spills on snow follow the procedures listed below in Table 9.

Table 10. Procedures for spills on snow.

Step	Action Item
	Trench or ditch to intercept or contain flow of fuel or petroleum products on snow,
1	where feasible (ice, snow, loose sand, gravel and surface layers of organic materials
_	as amenable to trenching/ditching; trenching in solid, frozen ground or rocky
	substrates is typically impractical and impossible).
2	Compact snow around the outside perimeter of the spill area.
3	Construct a dike or dam out of snow, either manually with shovels or with heavy
3	equipment such a graders and dozers where available
4	If feasible, use synthetic liners to provide an impervious barrier at the spill site.
5	Locate the low point of the spill area and clear channels in the snow, directed away
5	from waterways, to allow non-absorbed material to flow into the low point.
	Once collected in the low area, options include shoveling spilled material into
6	containers, picking up with mobile heavy-equipment, pumping liquid into tanker
	trucks or using vacuum truck to pick up material.
7	Transport contaminated material to approved disposal site. Equipment used will
,	depend on the magnitude and location of the spill.

Spills on Ice

For spills on ice follow the procedures listed below, Table 10.

Table 11. Procedures of Spills on Ice

Step	Action Item
1	Contain material spilled using methods described above for snow, if feasible and/or use
	mechanical recovery with heavy equipment.
2	Prevent fuel/petroleum products from penetrating ice and entering watercourses.
	Remove contaminated material, including snow/ice as soon as possible.
	Containment of fuel/petroleum products under ice surface is difficult given the ice
3	thickness and winter conditions. However, if the materials get under ice, determine area
	where the fuel/petroleum product is located
4	Drill holes through ice using ice-auger to locate fuel/petroleum product.
	Once detected, cut slots in the ice using chain-saws and remove ice blocks.
_	Fuel/petroleum products collected in ice slots or holes can be picked up via suction hoses
)	connected to portable pump, vacuum truck or standby tanker. Care should be taken to
	prevent the end of the suction hose clogging up by snow, ice or debris.

Spills on Water

For spills on water follow the procedures listed in Table 11, below

Table 12. Procedure for spills on water.

Step	Item
1	Contain spills on open water immediately to restrict the size and extent of the spill
2	Fuel/petroleum products which float on water may be contained through the use of booms, absorbent materials, skimming and the erection of culverts
3	Deploy containment booms to minimize spill area, although effectiveness of booms may be limited by wind, waves and other factors.
4	Use sorbent booms to slowly encircle and absorb spilled material. These absorbents are hydrophobic (repel water).
5	Once booms are secured, use skimmers to draw in hydrocarbons and minimal amounts of water. Skimmed material can be pumped through hoses to empty fuel tanks/drums
6	Culverts permit water flow while capturing and collecting fuel along the surface with absorbent materials.

7. SAFETY DATA SHEETS

Safety Data Sheets (SDS) for all hazardous materials involved in this project are listed in Appendix D. The MSDS sheets are for diesel, propane, Jet A, Jet B, gasoline, engine oils, as well as down hole drilling muds and chemicals.

8. RESOURCE INVENTORY – SPILL KITS

Spill kits containing the items tabulated below (Table 12) will be made available on-site to ensure the action plans may be executed in the event of a spill. Spill kits must be restocked as soon as possible after use. A total of 12 spill kits will be distributed through the project area as follows: one at each drill (7), 1 at the bulk fuel storage site, 1 at the company office, Hidden Lake camp, one in each of the generator sheds (3), and one in the kitchen mess facility. In addition, small spill kits with sorbent pads will be in each vehicle that is used for transporting fuel from the bulk storage facility to the main camp, or drill sites on the Fi, Ki, and Hi leases, or to drill sites on the BIG and NITE leases. These vehicles will also carry a shovel, garbage/disposal bags, a field notebook and pencil, as part of their small spill kit.

Table 13. Spill Kit Contents

Items	Quantity and Notes
Chemical master gloves	1 box
Garbage/disposal bags	10, large
Oil-only mats	25 (16"x20")
Sorbent pads	10
Booms for oil on water	6
Impervious sheeting (tarps)	2
Duct tape	1 roll
Utility knife	1
Field notebook and pencil	1

Table 12. continued

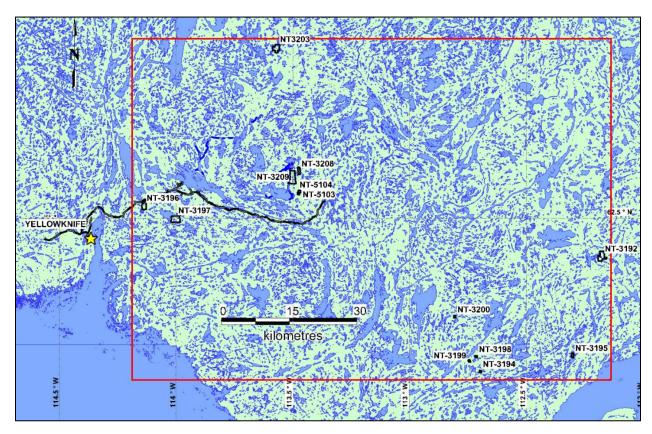
Items	Quantity and Notes
Rake	1
Pick axe	1
Shovel	3
Instruction binder	1
buckets	3
Empty drum	1

Additional resources may be obtained from EBA Engineering Consultants (867-873-2287) or Discovery Mining Services (867-920-4600), including larger pumps, Bobcats, and excavators.

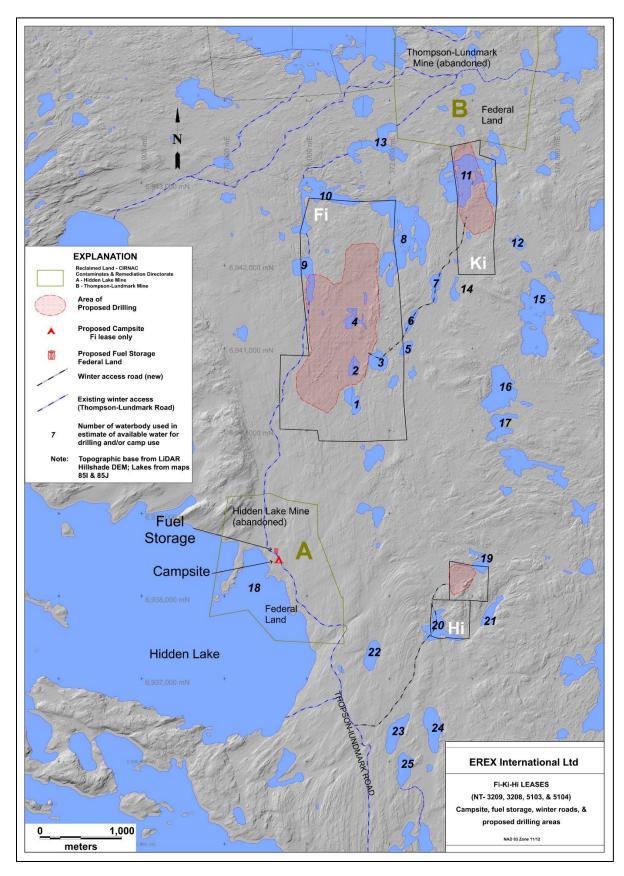
9. TRAINING EXERCISES

All personnel on site must be briefed and given a copy of the *Spill Contingency Plan* before field operations begin. Training consisting of mock spill-response exercises must be conducted early in the program to ensure that personnel are familiar with spill response equipment, and procedures and methods for using the equipment in spill events; in addition to fully understanding communication and reporting requirements for spill events.

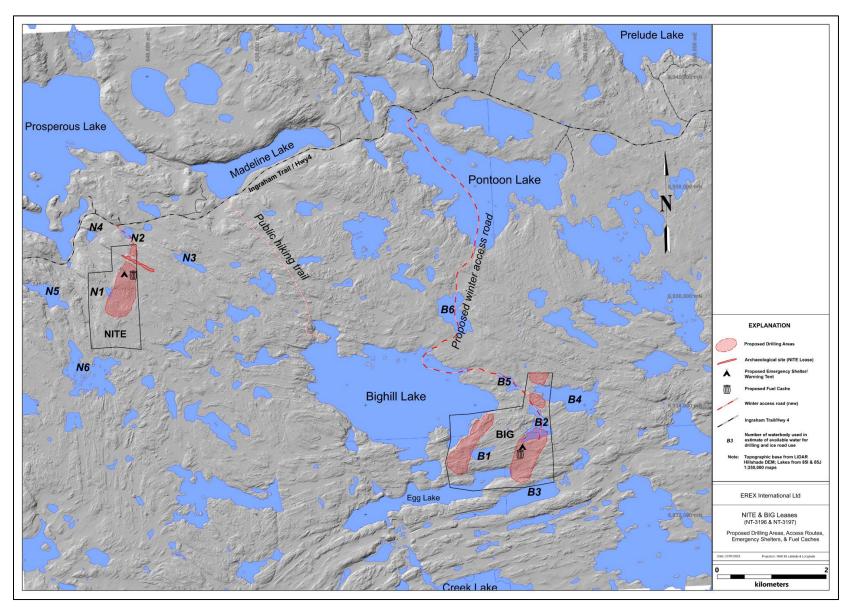
Appendix A – Site Maps



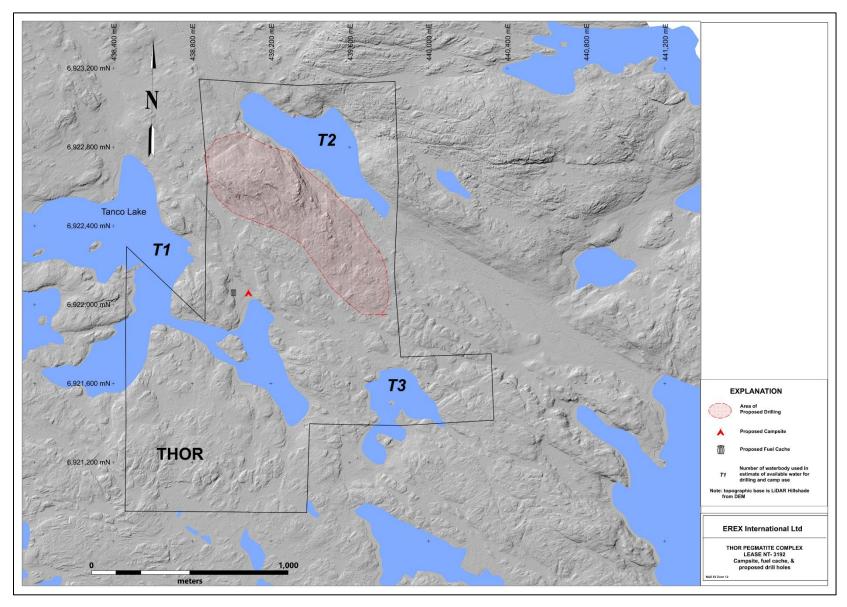
Map 1. Regional location of EREX's leases.



Map 2. Property Location detail: Fi-Hi-Ki leases.



Map 3. Property Location detail: NITE and BIG leases



Map 4. Property Location detail: THOR lease

Appendix B: Reportable Quantities for NWT Spills

Note: L = litre; kg = kilogram; PCB = Polychlorinated Biphenyls; ppm = parts per million

Substance	Reportable Quantity	
Explosives		
Compressed gas (toxic/corrosive)		
Infectious substances	Any amount	
Sewage and Wastewater (unless otherwise authorized) Radioactive materials		
Unknown substance		
Compressed gas (Flammable)	Any amount of gas from	
	containers with a capacity	
Compressed gas (Non-corrosive, non-flammable)	greater than 100L	
Flammable liquid	≥100 L	
Flammable solid		
Substances liable to spontaneous combustion	≥ 25 kg	
Water reactant substances		
Oxidizing substances	≥ 50 L or 50 kg	
Organic peroxides	≥1 L or 1 kg	
Environmentally hazardous substances intended for disposal		
Toxic substances	≥ 5 L or 5 kg	
Corrosive substances	≥ 5 L or 5 kg	
Miscellaneous products, substances or organisms		
PCB mixtures of 5 or more ppm	≥ 0.5 L or 0.5 kg	
Other contaminantsfor example, crude oil, drilling fluid, produced water,		
Waste or spent chemicals, used or waste oil, vehicle fluids,	≥ 100 L or 100 kg	
wastewater.		
Sour natural gas (i.e., contains H2S)	Uncontrolled release or	
Sweet natural gas	sustained flow of 10 minutes	
	or more	
Flammable liquid	≥ 20 L	
V 1 1 1 1 1 1 1 1	When released on a frozen water body that is being used	
Vehicle fluid	as a working surface	
Reported releases or potential releases of any size that:		
1. are near or in an open water body;	Any amount	
2. are near or in a designated sensitive environment or habitat;		
3. Pose an imminent threat to human health or safety; or		
 Pose an imminent threat to a listed species at risk or its critical habitat 		

Appendix C: NWT Spill Report Form

Appendix D: – Safety Data Sheets (SDS)