

Security Estimate Tool - Whati Fibre Line

Instructions:
 This sheet is organized according to the Mackenzie Valley Land and Water Board Land Use Permit Application Form. An estimate of security costs will be calculated from the answers to the questions below. The precision of the information in the application will reflect directly on the security estimate.

Enter the requested input into the yellow squares in column "G". The other worksheets do not need to be filled out; the Security Estimate sheet shows the breakout of costs by reclamation activity and the Project Specific Rates sheet is only required for specific scenarios (most projects should not need this). The Quantity Calcs and Unit Rate Calcs show how the answers to the Costing Questions are used to calculate security.

Please read the User Manual to help with answering the questions.

TOTAL SECURITY ESTIMATE
 \$ 10,292.05

You have answered
 18 out of 19
 questions.



Question No.	Application Section	Input Description	Where are the costs calculated from this input?	INPUT	Units	Applicant's Rationale for Input
		Project Name		Whati Fibre Line		
		Applicant's Name		Laura Duncan		
		Contact Telephone		867 392 6381		
		Contact Email		lauraduncan@tlicho.com		
		Date		2021-02-25		
4. LOCATION OF ACTIVITIES						
1		<p>QUANTITY: → Distance of site from closest hub city (i.e. city with airbase and land access for waste disposal transport), assume straight line distance in km.</p> <p><i>Yellowknife has been selected as the default hub city for costing purposes in the Tool, but other road access communities are assumed to be equivalent cost-wise based on the detail level of the cost estimate.</i></p>	→ ICM - Site Inspection Unit Rate → Air Mobilization Unit Rate → Mobilization and Demobilization Unit Rates	100.	km	
2		<p>YES or NO: → Is the Project fixed-wing aircraft access only?</p> <p><i>Helicopter-access only costing was not considered in the Tool due to the complexity of staging and equipment transport logistics.</i></p>	→ Trigger for Demobilization of Abandoned Equipment Unit Rate - Land vs. Air unit rate	no	yes or no	
7. PERMIT TYPE AND CRITERIA						
3		<p>YES or NO: → Will there be construction of a building with a footprint of more than 100 m² and a height of more than 5 m? → Is the Section 7, Type B - 5(a)(vi) box checked in the Application Form?</p> <p><i>From Application Form: → Refer to Sections 4 and 5 of MV Land Use Regulations; → 5(a)(vi)</i></p>	→ Trigger for Heavy Equipment for the Reclamation Work	no	yes or no	
8. PROJECT DESCRIPTION						
4		<p>YES or NO: → Does land restoration require the use of heavy equipment?</p> <p><i>Heavy equipment may not be required for operations with smaller footprints.</i></p>	→ Trigger for Heavy Equipment for the Reclamation Work	no	yes or no	All work is within existing RoW.
5		<p>QUANTITY: → Total area of <u>disturbed</u> land, in hectares → This number is important and must be precise as it will greatly impact the security estimate</p> <p><i>From Application Form: → Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.</i></p>	→ Restoration of Disturbed Areas → Placement of Topsoil → Application of Fertilizer → Seeding/ Planting → Consolidation of Scrap/ Garbage	0.	ha	All work is within existing RoW.

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9. CAMP						
6		<p>QUANTITY: → Total footprint area of all buildings that will be constructed/ installed, in m² → Enter "0" (zero) for no camp (no buildings)</p> <p><i>From 2019 MVLWB Guide to Land Use Permitting Process - DRAFT:</i> → 3.2 - 9. If the project includes a camp, describe the camp, including the following information: • camp layout, including number, type, and dimensions (m2) of structures;</p>	→ Demolish/ Dismantle Camp/ Buildings/ Infrastructure	0.	sq.m	project is using existing TASR camp.
7		<p>QUANTITY: → Total camp (all buildings) weight that will be constructed/ installed, in tonnes → Enter 0 for no camp</p> <p><i>Calculate total tonnage of camp buildings. Weight will be known by proponent for their mobilization plan.</i></p>	→ Waste transport to South Disposal Facility → Waste disposal tipping fee	0.	tonnes	
10. ROAD AND ACCESSES						
8		<p>YES or NO: → Is winter road construction required for mobilization of the operation?</p>	→ Trigger for Construction of Winter Road Costs	no	yes or no	
9		<p>YES or NO: → Is the winter road construction over land-only?</p>	→ Trigger for Winter Road Construction over land-only vs. over land and water construction unit rate		yes or no	
10		<p>QUANTITY: → Enter length of the winter road construction, required for mobilization of the operation, in kilometers to the nearest decimal point (rounded up) → Enter "0" (zero) for no winter road construction</p> <p><i>From 2019 MVLWB Guide to Land Use Permitting Process - DRAFT:</i> → 3.2 - 10. Indicate whether a road or access is to be pioneered (i.e. built for the first time) and whether it has been laid out or ground-truthed. Describe the route, construction, and maintenance of any new or existing road.</p>	→ Construction of Winter Road Costs	0.	km	
12. EQUIPMENT						
11		<p>QUANTITY: → Total number of heavy machinery/ equipment that will be mobilized to site and used in the operation → Enter "0" (zero) for no equipment</p> <p><i>From 2019 MVLWB Guide to Land Use Permitting Process - DRAFT:</i> → 3.2 - 12. Use the table provided to list the type, number, weight (in tonnes), and proposed uses of all equipment proposed to be used.</p> <p><i>The cost of removing this equipment must be reflected in the closure cost estimate (see item 18 below) and will be considered by the Board in development of any security requirements.</i></p>	→ Prepare Equipment for Demobilization	0.	pieces of equipment	Although it is a separate project from the TASR, the fibre project will be conducted using the same workforce, size/type of equipment (exception of a cable plow attachment for a bulldozer), camp facilities and environmental protections afforded through the existing Land Use Permit #W2016E0004. As a Tłı̨chǫ Government infrastructure project along the new highway, with the same mob/demob and construction timing as the TASR, and being constructed in the TASR RoW, there is no possibility of heavy equipment for the fibre line being abandoned.
12		<p>QUANTITY: → Total weight of heavy machinery/ equipment that will be mobilized to site and used in the operation, in tonnes → Enter "0" (zero) for no equipment</p>	→ Waste transport to South Disposal Facility → Waste disposal tipping fee	0.	tonnes	
13. FUEL						

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13		<p>QUANTITY: → Total number of fuel barrels that will be mobilized to the site → Enter "0" (zero) for no barrels</p> <p><i>From 2019 MVLWB Guide to Land Use Permitting Process - DRAFT:</i> → 3.2 - 13. Identify all petroleum-based fuel types (e.g., diesel, gasoline, aviation fuel, propane, etc.) that will be used, and for each fuel type, provide the following information:</p> <ul style="list-style-type: none"> • Number of containers; • Capacity of containers (e.g., litres, pounds); • Type of container (e.g., barrel, tank, tidy-tank, jerry-cans etc.); and • Proposed storage or staging location(s). 	→ Transport of Solid Hazardous wastes → Tipping fees - empty barrels and containers	0.	barrels	
14		<p>QUANTITY: → Total weight of non-barrel fuel storage containers that will be mobilized to the site (e.g. fuel tanks), in tonnes → Enter "0" (zero) for no containers</p>	→ Transport of Solid Hazardous wastes → Tipping fees - empty barrels and containers	0.	tonnes	
15		<p>QUANTITY: → Total volume of fuel that will be mobilized to the site, in litres → Enter "0" (zero) for no fuel</p>	→ Preparation of fuel containers for removal → Trigger for hazmat abatement cost → Soil Remediation → Transport of Solid Hazardous wastes to South → Transport of Liquid Hazardous wastes to South → Tipping fees - contaminated soil → Tipping fees - liquid hazmat	0.	litres	
17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS						
16		<p>YES or NO: → Is there a potential impact of the proposed project on groundwater and surface water?</p> <p><i>From 2019 MVLWB Guide to Land Use Permitting Process - DRAFT:</i> → 3.2 - 17. Describe potential impacts of the proposed project on:</p> <ul style="list-style-type: none"> • Groundwater and surface water – include changes to flow, quantity and quality. 	→ Trigger for ICM - Groundwater and Surface Water Monitoring	no	yes or no	
17		<p>YES or NO: → Is there a potential for instability of reclaimed areas?</p> <p><i>From 2019 MVLWB Guide to Land Use Permitting Process - DRAFT:</i> → 3.2 - 17. Describe potential impacts of the proposed project on:</p> <ul style="list-style-type: none"> • Land, including geological structure change, soil contamination, compaction/settling/erosion, alteration of the permafrost regime and riparian zone loss. 	→ Trigger for ICM - Geotechnical Monitoring	no	yes or no	All work is within existing RoW.
18. CLOSURE AND RECLAMATION						
18		<p>YES or NO: → Will a detailed Closure and Reclamation Plan be required?</p> <p><i>A Detailed Reclamation and Closure Plan would likely be required only if detailed engineering is required.</i></p> <p><i>From Application Form:</i> → Describe your plans for closure and reclamation, including any temporary closure(s) and seasonal shutdowns. Include your Closure and Reclamation Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed activities.</p>	→ Trigger for Closure and Reclamation Plan → Trigger for Engagement Costs → Trigger for Regulatory Compliance Costs	no	yes or no	

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19		<u>YES or NO:</u> → Is Post-Closure Monitoring and Inspection required?	→ Trigger for Post-Closure Monitoring Costs	no	yes or no	
Existing Securities						
		Enter total amount of overlapping security, and list existing associated permits in Rationale Input	→ The Existing Securities is subtracted from the Total Security Estimate		cost	
End						