



Taseko Prosperity Gold-Copper Project

Appendix 9-2-A



**TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT
ACCIDENTS AND MALFUNCTIONS REPORT
(REF. NO. VA101-00266/01-6)**

DRAFT

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CONSULTING

**TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS REPORT
(REF. NO. VA101-00266/01-6)**

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**TASKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS REPORT
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SECTION 1.0 - INTRODUCTION AND BACKGROUND

This report identifies and addresses the management of potential accidents and malfunctions which may occur during the Pre-construction, Construction, Operation, Closure and Post closure phases of the Project.

Accidents and malfunctions are defined for this report, as follows:

- Accident** – An accident is:
- (i) An unplanned occurrence that causes injury or death to humans, or to protected animals, or
 - (ii) Damage, monetary, or material loss to property or income associated with mine operations.
- Malfunction** – A malfunction is the non-performance of man-made equipment, structures or utilities that are part of the Project.

This assessment is required to meet the intent and direction of the Information Guidelines for the Project, which states:

The EA report will identify the probability of potential accidents and malfunctions related to the Project, including an explanation of how these events were identified, potential consequences (including the potential environmental effects), the worst case scenarios, and impacts. The EA will explain the potential magnitude of an accident and/or malfunction, including the quantity, mechanism, rate, form and characteristics of the contaminants and other materials likely to be released into the environment during the malfunction and accident events.

The EA will identify the capabilities, resources and equipment available to safely respond to any accidents and malfunctions. If the Project is approved following the Panel review process, a complete inventory of equipment available on and off site, including descriptions, quantities, locations, capabilities and intended uses, will be needed at the permitting stage, as part of a finalized spill contingency and emergency response plan. The EA will describe the planned response such as communication with stakeholders and local communities, alerting and warning personnel working on the mine site and communications from the project to off-site agencies and between responders. The EA will describe the contingency, clean-up or restoration work that would be required during and following the event. Potential accidents and malfunctions may include those associated with the following activities:

- a) *the transport of dangerous goods which are potentially harmful to the environment to and from the Project;*
- b) *waste management and disposal (liquid and solid);*
- c) *handling and use of chemicals on-site and*
- d) *any other Project components or systems that have the potential, through accident or malfunction, to adversely affect the **natural environment**.*

The approach taken has been to define those malfunctions and accidents that are associated with the normal routine development, operation and closure of the Project. The potential for effects associated with natural events such as earthquakes, fires, extreme events and climate change, will be discussed separately in another report.

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SECTION 2.0 - FRAMEWORK

A risk assessment approach was taken to meet the requirements of the Panel Information Guidelines.

The process began with a comprehensive preliminary Overall Scoping Assessment that was designed to identify and list all potential Project accidents or malfunctions. These events were then screened, to identify those that required further assessment and then assigned to four specific components of the Project. The four Project components have been identified as:

1. Access Road;
2. Power-line Corridor;
3. Upgraded Load-out Facility and
4. Minesite.

The next step in the process involved a second comprehensive assessment that subjected the list of potential accidents or malfunctions to a Failure Mode and Effects Analysis (FMEA). This assessment considers the relevance and risk level of each event, to each of 5 Project phases, which have been identified as:

1. Pre-Construction;
2. Construction;
3. Operations;
4. Closure and
5. Post-Closure.

A separate, full risk assessment for the open pit, waste dumps and tailings storage facility (TSF) will be undertaken as part of the Project Feasibility Study.

2.1 PRELIMINARY OVERALL SCOPING ASSESSMENT

Potential accidents or malfunctions that could occur during any phase of the Project were identified. These were screened during a preliminary Overall Scoping Assessment covering the entire range of Project site activities. The events that were identified are summarized in Table 1, where they are assigned to one or more appropriate Project components. This initial identification and scoping assessment was undertaken by a team of engineers and scientists, led by Norm Ringstad and including members of Knight Piesold Ltd.

Table 1 also sorts potential accident or malfunction events according to general Project work areas for ease of reference. These areas include the Open Pit, Electrical works, Tailings Storage Facility, Transportation, Mill and Miscellaneous. Categories identified as Environmental, Health and Safety and Economic, as they are applicable to each identified event, are also indicated on Table 1.

The potential effects of "Environmental Changes" on the Project were not included as part of this overall assessment. They will be dealt with separately in the EA.

2.2 FAILURE MODE AND EFFECTS ANALYSIS

A Risk Register – Accidents and Malfunctions, was established for the four specific identified components of the Project:

- Access Road (Table 6);
- Power Corridor (Table 7);
- Minesite (Table 8); and
- Load-out Facility (Table 9).

A brief description of each Hazard, as previously identified in Table 1 as being relevant to a particular component or components of the Project, was entered into Tables 6 to 9. For tracking purposes, each Potential Accident or Malfunction is individually numbered to reflect the Project component.

The phase or phases of the Project, to which each Hazard may relate, is indicated in each Table for each component of the Project. Design and Operating Considerations that may be used to mitigate the likelihood of occurrence of each identified Accident or Malfunction are also indicated on each Table.

A team of experienced Engineers and Scientists, familiar with the Project and its components reviewed the listing of Hazards on each Risk Register. Using a Delphic approach, the likelihood of the occurrence of each identified Risk or Malfunction was estimated. These were categorized as Very Unlikely, Unlikely, Likely or Highly Likely, as defined on Table 2.

Once an identified accident or malfunction is assigned a “Likelihood” Classification, a second “Consequence” Classification was derived for each item as it pertains to the Environment, Health/Safety, and Economics. For clarity, the Consequence Classification has been separated into two classes:

1. Non-Economic Classification (e.g. Negative Company Reputation) and
2. Economic Classification (e.g. Project Delays).

The two Consequence Classification classes are summarised in Tables 3 and 4, respectively.

Each accident and malfunction was assessed and labelled with available Consequence Ratings of Very Low, Low, Moderate, High or Very High. Separate Consequence Ratings were established for each of the three categories (Environmental, Health/Safety and Economic), where this was applicable.

Using the Likelihood Rating and the highest Consequence Rating, a Risk Level was established from Table 5 for each event. This table, which plots “likelihood” against “most serious consequence” allows a *Risk Level* ranging from 1 (the least serious) to 7 (the most serious) to be established. Risk Levels are generated as follows:

- Risk Levels of 1 & 2 = ***non-actionable***
- Risk Levels of 3 & 4 = ***low***
- Risk Level 5 = ***moderate***
- Risk Levels of 6 & 7 = ***high***.

For each category (non-actionable, low, moderate, or high), appropriate review, mandatory reporting, safety equipment, and mitigation plans are assumed to be in place through the overall plant design and safe operating practices. In the probable event of unforeseen accidents or malfunctions, it is assumed future safeguards will be implemented to predict, prevent, and mitigate the seriousness and frequency of such incidents.

The Risk Determination Matrix is an effective method for determining the likelihood and seriousness of a given accident or malfunction. There are occasions where assigned risk levels appear illogical. This risk level misdirection usually involves a likelihood rating of Highly Likely or a High consequence level. A good example of this scenario is a "Slip or Fall" incident being considered Highly Likely, but has no economic consequence or impact on the environment. The risk determination matrix for a "Slip or Fall" is understandable as a Health / Safety risk; however the Environmental risk level is automatically assigned an **actionable** (low) rating even with a Very Low consequence rating. Accident or malfunction items, where this discrepancy occurs, are assigned a "not-applicable" (n/a) risk level to imply a **non-actionable** event.

Based on the identified likelihood and risk of accidents and malfunctions, EA discipline specialists will undertake an assessment of the consequences, work with engineering and science specialists to develop proposed mitigation plans, identify the significance of residual effects after management and the potential for the residual effects to contribute to cumulative effects.

It is noted that some potential accidents or malfunctions are applicable to many areas and/or phases of the Project, with risks and/or consequences that may vary widely over the life of the Project (e.g. culvert failure or wildfires). Other events, such as a run-away ore truck, are confined both in time and space.

This assessment of the candidate events identified during the preliminary screening follows the general approach and framework for an FMEA. This FMEA worksheet is designed to represent a risk management template for identifying accidents and malfunctions (particularly: Very Likely and/or High consequence events) that require additional preventative and mitigation measures.

SECTION 3.0 - POTENTIAL MODERATE AND HIGH RISK EVENTS

A total of 163 potential Accident or Malfunction events were identified for the Project and registered for the four Project Components during at least one of the five Operating Phases. Potential events common to more than one Project Component or Phase have been registered under each.

Throughout the five Operating Phases, 38 events were identified with Risk levels of 5, 6 or 7 (considered Moderate or High Risk Events).

- One event was identified as being of Risk Level 7 (Highly Likely with High Consequence).
- Seven occurrences of Level 6 Risk were noted (Likely with High Consequence, or Highly Likely with Moderate Consequence).
- Thirty occurrences of Level 5 Risks (Unlikely with High Consequence, Likely with Moderate Consequence and Highly Likely with Low Consequence) were also identified.

Awareness training, safety equipment, inspections and standard procedures, including lockouts, personnel monitoring and Contingency Plans will be in place to minimize exposure to hazards as well as to ensure prompt and appropriate response to Accidents or Malfunctions.

The Environmental Impact Assessment Report will be focusing on those accidents and malfunctions that have an environmental interaction. Hence, a summary of those events that have a Risk Level of 5, 6 or 7 have been identified below:

Risk Level 7:

No environmental accidents and malfunctions were designated a Risk Level 7.

Risk Level 6:

- 6.10 - Fuel Spills on the Access Road were judged to be Highly Likely, with Moderate potential consequences. Mitigation would include operator training, radio contact and spill containment kits on board vehicles.
- 8.74 - Failure or major leakage from tailings or reclaim pipeline was regarded as an Unlikely occurrence, but with potentially High impact on down-stream aquatic environment and water quality degradation. As appropriate, pipelines will be maintained within catchments that drain into the tailings facility or else include provision for secondary containment of leakage or spillage. Regular inspection for pipe wear or damage will allow timely replacement.

Risk Level 5:

- 6.02 - Concentrate Haul Spill is regarded as Likely, with Moderate potential consequences.
- 6.03 - Road Culvert Failure is regarded as Likely, with Moderate potential consequences.
- 8.12 - Excessive Water in TSF is Unlikely, but with High potential consequences. Emergency discharge and water treatment protocols would be invoked.
- 8.39 - Loss of Power to TSF Seepage Recovery System is Likely, with Moderate potential consequences.

SECTION 4.0 - CERTIFICATION

This report was prepared and approved by the undersigned.

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**TABLE 1
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
OVERALL SCOPING ASSESSMENT**

Revised: Sep/12/07

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M:\1101\00266\01\AI\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 1 - Overall SA

Accident or Malfunction	Tables 6 - 9 Cross Reference				Category
	Access Road	Power Corridor	Minesite	Load-Out Facility	
Effects of Environment on Project					
Avalanche / Landslides	-	-	-	-	Env/Econ/H&S
Electrical Storms	-	-	-	-	Env/Econ/H&S
Extreme floods	-	-	-	-	Env/Econ/H&S
Seismic Events	-	-	-	-	Env/Econ/H&S
Wildfire (Natural)	-	-	-	-	Env/Econ/H&S
Open Pit					
Blasting Flyrock	-	-	8.01	-	H&S
Blasting malfunction / Early Detonation	-	-	8.02	-	H&S
Blasting malfunction / Failure to Detonate	-	-	8.03	-	H&S
Blasting Noise (excessive)	-	-	8.04	-	H&S
Blasting Powder and Hazardous Material Explosions / Fires	-	-	8.05	-	H&S
Inability to Fill Open Pit with Water	-	-	8.30	-	Env/Econ
Open Pit Depressurization Well and Perimeter Well Failure	-	-	8.52	-	H&S
Open Pit Dewatering System Failure	-	-	8.53	-	Econ
Open Pit Ramp Failure	-	-	8.54	-	Econ/H&S
Open Pit Rockfall	-	-	8.55	-	H&S
Open Pit Wall Failure	-	-	8.56	-	H&S
Electrical					
Electrocution	-	7.01	8.10	9.03	H&S
Loss of Power - Load-Out Facility	-	-	-	9.15	Econ
Loss of Power - Mill	-	-	8.35	-	Econ
Loss of Power - Offices & Accommodations	-	-	8.36	-	Econ/H&S
Loss of Power - Open Pit	-	-	8.37	-	Econ/H&S
Loss of Power - Reclaim System	-	-	8.38	-	Econ
Loss of Power - Seepage Control System	-	-	8.39	-	Env
Loss of Power - Tailings System	-	-	8.40	-	Econ
Powerline Break / Pole Failure	-	7.14	8.59	-	Econ/H&S

**TABLE 1
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PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
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M:\1101\00266\01\AI\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 1 - Overall SA

Accident or Malfunction	Tables 6 - 9 Cross Reference				Category
	Access Road	Power Corridor	Minesite	Load-Out Facility	
Tailings Storage Facility					
Design tailings dry density cannot be achieved	-	-	8.09	-	Env/Econ
Embankment Pore Pressure Increase	-	-	8.11	-	Econ
Embankment Slope Failure (non-spill)	-	-	8.41 / 8.86	-	Econ
Embankment Slope Failure (spill)	-	-	8.42 / 8.87	-	Env/Econ/H&S
Excess water in TSF	-	-	8.12	-	Env/Econ
Expected Reactive/Non-Reactive waste rock distribution changes dramatically	-	-	8.15	-	Env/Econ
Greater than expected seepage through natural basin causes groundwater degradation	-	-	8.22	-	Env/Econ
Higher than expected TSF Seepage Volume to Collection System	-	-	8.26	-	Env/Econ
Insufficient materials available in Open Pit for embankment raising	-	-	8.32	-	Env/Econ
Insufficient Tailings/Water to Facilitate Reclamation Plans	-	-	8.33	-	Env/Econ
Poor beach development resulting in increased seepage / reduced embankment stability	-	-	8.58	-	Env/Econ
Reactive waste rock generates acidic drainage prior to TSF flooding	-	-	8.62	-	Env/Econ
Reactive waste rock misdirected to Non-Reactive stockpile	-	-	8.63	-	Env
Reclaim Pipeline / Pump Failure	-	-	8.64	-	Econ
Seepage Collection System Failures	-	-	8.68	-	Env
Seepage recovery pipeline / pump station malfunction	-	-	8.69	-	Env
Stored Water Shortage in TSF (including Start-up)	-	-	8.72	-	Env/Econ
Tailings or reclaim pipeline failure resulting in uncontrolled discharge to environment	-	-	8.74	-	Env/Econ
Unacceptable embankment compaction	-	-	8.78	-	Env/Econ
Unexpected foundation conditions (deeper loose layers) exist	-	-	8.79	-	Econ
Water Quality at Post-Closure does not meet discharge requirements	-	-	8.85	-	Env/Econ
Transportation					
Bridge Failures	6.01	-	-	-	Env/Econ
Concentrate Haul Spill	6.02	-	-	-	Env/Econ
Culvert Failures	6.03	-	8.08	-	Env/Econ/H&S
Fuel Spills	6.10	7.06	8.19	9.07	Env
Hazardous Material Spills	6.12	-	8.23	-	Env
Motor Vehicle Accident (Human H&S)	6.16	7.10	8.49	9.16	H&S
Motor Vehicle Accident (Wildlife & Cattle)	6.17	7.11	8.50	9.17	H&S
Motorized OTR Equipment Accident	6.18	7.12	8.51	9.18	H&S
Road Surface Erosion	6.23	-	8.65	-	Env
Runaway Ore Trucks	-	-	8.67	-	H&S
Mill					
Battery, Antifreeze, Used Oil Disposal	-	-	8.27	-	Env
Computer / Instrumentation Failure	-	-	8.06	-	Econ/H&S
Frozen Pumps / Pipelines / Pipe Breakage	-	-	8.18	-	Env
Gas Leaks / Explosions (Compressed Air, Propane)	-	-	8.20	-	H&S
Mill / Plant - Fire	-	-	8.43	-	Env/Econ/H&S
Mine / Mill Equipment Failure (Ball Mill, Conveyor etc.)	-	-	8.44	-	Econ/H&S

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M:\1101\00266\01\1\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 1 - Overall SA

Accident or Malfunction	Tables 6 - 9 Cross Reference				Category
	Access Road	Power Corridor	Minesite	Load-Out Facility	
Miscellaneous					
Concentrate Spill	-	-	-	9.01	Env/Econ
Construction Failure	6.21	7.05	8.46	9.11	Env/Econ
Crush Injuries	-	-	8.07	9.02	H&S
Design Failure	6.22	7.13	8.47	9.12	Env/Econ
Equipment Fire	6.04	7.02	-	9.04	Env/H&S
Equipment Fire Causing Forest Fire	6.05	7.03	-	-	Env/H&S
Erosion and Sediment Systems Failure	6.06	7.17	8.48	9.20	Env
Excessive Concentrate Dust	6.07	-	8.13	-	Env/H&S
Excessive Fugitive Dust	6.08	-	8.14	9.05	Env/H&S
Fall from Equipment or Heights	6.09	7.04	8.16	9.06	H&S
Fisheries Compensation System Failure	-	-	8.17	-	Env
Geotechnical Site Conditions (Undetected)	6.11	-	8.21	-	Env/Econ
Headwater Channel Failure	-	-	8.24	-	Env/Econ
Helicopter Support Accident	-	7.07	8.25	-	H&S
Inability to Capture Fish Stocks From Fish Lake	-	-	8.28	-	Env
Inability to Drain Fish Lake (Equipment Failure)	-	-	8.29	-	Env/H&S
Inexperienced Contractors / Supervisors / Foreman / Operators	6.13	7.08	8.31	9.08	Env/Econ/H&S
Injury During Maintenance	-	-	-	9.09	H&S
Insufficient suitable borrow materials available locally (access road)	6.14	-	-	-	Env/Econ
Labour Disruptions	6.15	7.09	8.34	9.10	Econ
Load-out Equipment Failure	-	-	-	9.13	H&S/Econ
Load-out Facility Fire	-	-	-	9.14	H&S
Mine Equipment Fire	-	-	8.45	-	Econ
Overburden / Waste rock Stockpile Erosion	-	-	8.57	-	Env
Premature Mine Closure	6.19	7.15	8.60	-	Env/Econ
Protesters / Road Blockades / Terrorism	6.20	7.16	8.61	9.19	Econ/H&S
Rock Fall From Equipment / Conveyor / Ore Trucks	-	-	8.66	-	H&S
Shortage of Soil / Overburden to Facilitate Revegetation Plans	-	-	8.70	-	Env/Econ
Slip & Fall	-	-	8.71	9.21	H&S
Survey Errors	6.24	7.18	8.73	-	Econ
Tree / Rock Fall	6.25	7.19	8.75	-	H&S
Tree Felling and Log Recovery	6.26	7.20	8.76	-	Env/H&S
Unacceptable (off-spec) material used for construction	6.27	-	8.77	9.22	Env/Econ/H&S
Unacceptable Road Surface Compaction	6.28	-	-	-	Env/Econ
Unexpected Lack of TSF Overflow to Facilitate Fish Compensation Plans	-	-	8.80	-	Env
Unexpected Minesite Groundwater and Soil Contamination	-	-	8.81	-	Env/Econ/H&S
Unexpected Stripping (Overburden) or Blasting Requirements (Bedrock)	6.29	-	8.82	-	Env/Econ
Vandalism / Equipment and Material Theft	-	-	8.83	9.23	Econ
Waste Characterization Prediction Failure	-	-	8.84	-	Env/Econ
Wildlife Encounter - Attack	6.30	7.21	8.88	9.24	H&S

Notes: Env = Environmental Consequence
Econ = Economic Consequence
H&S = Health & Safety Consequence

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**TABLE 1
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
OVERALL SCOPING ASSESSMENT**

M:\1101\00266\01\AI\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 1 - Overall SA

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Accident or Malfunction	Tables 6 - 9 Cross Reference				Category
	Access Road	Power Corridor	Minesite	Load-Out Facility	
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**TABLE 2
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
LIKELIHOOD CLASSIFICATION**

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	Likelihood			
	Very Unlikely	Unlikely	Likely	Highly Likely
Descriptive	Not expected to occur during life of project	Low probability to occur during project life.	Could happen during life of project.	Could happen several times during life of project.
Frequency of multiple events	< 1 in 100 years	1 in 100 years to 1 per 10 years	1 per 10 years to 1 per year	> 1 per year
Probability of single events	< 0.01%	0.01% to 0.1%	0.1% to 1%	> 1%

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**TABLE 3
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PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
NON-ECONOMIC CONSEQUENCE CLASSIFICATION**

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	Consequence Rating			
	Very Low	Low	Moderate	High
Environmental Impact	Localized/extended <1 week, reversible and mitigable	Localized/extended 1 to 4 weeks, reversible and mitigable	Localized/extended 1 to 3 months, reversible and mitigable	Localized/extended > 3 months. May require extensive mitigation, or compensation which could affect economic consequence classification
Community Impact	Negligible	Slight	Moderate	Severe
Personnel Safety	No Injuries	Minor Injuries	Serious Injuries	Fatalities
Company Reputation	Negligible	Slight	Moderate	Severe

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**TABLE 4
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT

ACCIDENTS AND MALFUNCTIONS
ECONOMIC CONSEQUENCE CLASSIFICATION**

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	Consequences			
Annualised Opex or Capex or Revenue	Very Low	Low	Moderate	High
Project Delay (Critical Path)	< 1 month	1 to 3 months	3 to 6 months	> 6 months
Project Delay (NPV)	< \$10 M	\$10 M - \$20 M	\$20 M - \$50 M	> \$50 M
Operations Disruption (Critical Path)	< 1 month	1 to 3 months	3 to 6 months	> 6 months
Operations Disruption (EBITDA)	< \$10 M	\$10 M - \$20 M	\$20 M - \$50 M	> \$50 M

Notes:

NPV = Net Present Value

EBITDA = Earnings Before Interest, Taxes, Depreciation and Amortization (Company's operating cash flow)

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**TABLE 5
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK DETERMINATION MATRIX**

Revised: Jun/20/07

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Likelihood	Most Serious Consequence			
	Very Low	Low	Moderate	High
Very Unlikely	Level 1	Level 2	Level 3	Level 4
Unlikely	Level 2	Level 3	Level 4	Level 5
Likely	Level 3	Level 4	Level 5	Level 6
Highly Likely	Level 4	Level 5	Level 6	Level 7

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**TABLE 6
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - ACCESS ROAD**

Revised: Sep/19/07
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M:\110100266\01A\Report6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 6-Access Road

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plan
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
6.01	Bridge Failure	✓	✓	✓	✓	✓	Bridges designed to maximum loading and to accommodate more frequent extreme events	Unlikely	Env	Erosion and sedimentation, downstream water quality, aquatic habitat degradation	Low	3	Emergency Stream Loading and Sediment Control Contingency Plans Emergency First Aid and Medical Evacuation Plan Budget Allocation for Emergency Replacement Structure
		H&S	Possible fatalities	High	5								
		Econ	Minor cost for bridge repair	Moderate	4								
6.02	Concentrate Haul Spill			✓			Sealed trailers, driver training, speed limits, warning signage, and radio communication	Likely	Env	Downstream water quality, aquatic habitat degradation	Moderate	5	Spill Containment and Neutralization Contingency Plan. Environmental Contacts
		H&S		Very Low	3								
		Econ		Very Low	3								
6.03	Culvert Failure	✓	✓	✓	✓	✓	Culverts designed and built to accommodate more frequent extreme events	Likely	Env	Erosion and sedimentation, downstream water quality, aquatic habitat degradation	Moderate	5	Emergency Stream Loading and Sediment Control Contingency Plans
		H&S		Very Low	3								
		Econ		Very Low	3								
6.04	Equipment Fire		✓	✓			Equipment maintenance, fuel handling and training	Unlikely	Env	Short term air quality alteration	Very Low	2	Implement Emergency Fire Response Strategy
		H&S	Possible minor injuries	Low	3								
		Econ		Very Low	2								
6.05	Equipment Fire Resulting in Forest Fire		✓	✓			Equipment maintenance, fuel handling and training. Emergency fire suppression training	Unlikely	Env	Long term air quality alteration. Loss of wildlife	Moderate	4	Implement Emergency Fire Response Strategy
		H&S	Possible Serious injuries	Moderate	4								
		Econ	Moderate work delay and compensation cost	Moderate	4								
6.06	Erosion and Sediment Control Systems Failure	✓	✓	✓	✓		All systems designed and built to accommodate extreme events and maintained regularly Regular inspections and maintenance	Unlikely	Env	Downstream water quality, aquatic habitat degradation, local terrestrial habitat alteration	Low	3	Emergency Stream Loading and Sediment Control Contingency Plans
		H&S		Very Low	2								
		Econ		Very Low	2								
6.07	Excessive Concentrate Dust (Along haul road)			✓			Sealed trailer units Standard Health and Safety Operating Procedures and Air Quality Monitoring	Unlikely	Env	Accumulation of metals in vegetation, water quality degradation	Low	3	Concentrate Hauling Contingency Plan
		H&S		Very Low	2								
		Econ		Very Low	2								
6.08	Excessive Fugitive Dust	✓	✓	✓	✓		Dust control measures applied regularly and monitored Standard Health and Safety Operating Procedures and Air Quality Monitoring.	Highly Likely	Env	Local wildlife avoidance, air quality alteration, vegetation stress	Very Low	4	Implement Supplementary Dust Control Strategy (Calcite)
		H&S	Reduced visibility, minor injuries	Low	5								
		Econ		Very Low	4								

**TABLE 6
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - ACCESS ROAD**

Revised: Sep/19/07
Printed: Sep/19/07

M:\1101100266\01\A\Report6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 6-Access Road

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plan	
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating			
6.09	Fall from equipment	✓	✓	✓	✓		Standard Health and Safety Operating Procedures and Training	Likely	Env	No consequence identified	Very Low	n/a	Implement Emergency First Aid Response Strategy	
									H&S	Possible serious injury	Moderate	5		
									Econ		Very Low	3		
6.10	Fuel Spills	✓	✓	✓	✓	✓	Operator training, supervision, clean-up kits	Highly Likely	Env	Downstream water quality, aquatic habitat degradation	Moderate	6	Emergency Spill Containment and Neutralization Contingency Plan	
									H&S		Very Low	n/a		
									Econ	Minor cost for clean-up	Very Low	3		
6.11	Geotechnical Site Conditions (Undetected)	✓	✓	✓	✓		Appropriate type and level of field investigations, design, monitoring and supervision	Very Unlikely	Env	Downstream water quality, aquatic habitat degradation	Low	n/a		
									H&S		Low	2		
									Econ		Very Low	1		
6.12	Hazardous Material Spills	✓	✓	✓	✓		Operator training, supervision	Unlikely	Env	Downstream water quality, aquatic habitat degradation	Moderate	4	Emergency Spill Containment and Neutralization Contingency Plan	
									H&S		Low	3		Emergency First Aid and Eye Wash Stations
									Econ		Very Low	2		
6.13	Inexperienced Contractors / Supervisors / Foreman / Operators	✓	✓	✓	✓		Enhanced Human Resource Training and Communication Seminars	Likely	Env	No consequence identified if consequences are contained locally	Very Low	3	Emergency First Aid and Medical Evacuation Plan	
									H&S	Possible Serious Injury	Moderate	5		Enhanced Human Resource Training and Communication Seminars
									Econ	Moderate Work Delay and Cost	Moderate	5		
6.14	Insufficient suitable borrow materials available locally	✓	✓				Adequate level of planning and assessment at design stage	Very Unlikely	Env	Disruption of terrestrial habitat associated with additional borrow pit development	Very Low	1	Contingency Till Stockpiles	
									H&S		Very Low	1		
									Econ	Minor cost and work delay	Low	2		
6.15	Labour Disruptions	✓	✓	✓	✓		Adequate health benefits, training, and safety policy.	Unlikely	Env	No consequence identified	Very Low	n/a		
									H&S		Low	3		
									Econ		Moderate	4		
6.16	Motor Vehicle Accident (Human H&S)	✓	✓	✓	✓		Driver training, public education, speed limits, dust control Emergency First Aid and Medical Evacuation Training	Likely	Env	Downstream water quality, aquatic habitat degradation if near water body	Low	3	Implement Emergency First Aid Response Strategy	
									H&S	Possible human fatalities	High	6		
									Econ		Very Low	3		

**TABLE 6
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - ACCESS ROAD**

Revised: Sep/19/07
Printed: Sep/19/07

M:\110100266\01A\Report6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 6-Access Road

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plan
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
6.17	Motor Vehicle Accident (Wildlife & Cattle)	✓	✓	✓	✓		Driver training, public education, speed limits, dust control, signage, containment fencing	Likely	Env	Loss of wildlife, cattle or horses	Low	4	Incident Reporting Implement Emergency First Aid Response Strategy
									H&S	Possible serious injury	Moderate	5	
									Econ		Very Low	3	
6.18	Motorized OTR Equipment Accident	✓	✓	✓	✓		Operator training, supervision	Unlikely	Env	Downstream water quality, aquatic habitat degradation from fuel spills	Low	3	Emergency Spill Containment and Neutralization Contingency Plan
							Emergency First Aid and Medical Evacuation Training		H&S	Possible minor injuries	Low	3	
									Econ		Very Low	2	
6.19	Premature Mine Closure					✓	✓	Unlikely	Env	No consequence identified	Very Low	n/a	Early Shut-down Contingency Plan
							H&S			Very Low	n/a		
							Econ		Minor damage to company reputation	Low	3		
6.20	Protesters / Road Blockades / Terrorism	✓	✓	✓			On-going Community Forums	Unlikely	Env	No consequence identified	Very Low	n/a	Implement Dispute Resolution Contingency Plan
									H&S		Low	3	
									Econ	Work Delays, Negative Company Reputation	Low	3	
6.21	Road Construction Failure		✓	✓			Construction supervision, environmental supervision	Unlikely	Env	Erosion and sedimentation, downstream water quality, aquatic habitat degradation	Low	3	Emergency Stream Loading and Sediment Control Contingency Plans
							Standard operating procedures and inspections		H&S		Very Low	2	
									Econ	Minor cost for road repair	Very Low	2	
6.22	Road Design Failure	✓	✓	✓			Construction supervision, environmental supervision	Very Unlikely	Env	Erosion and sedimentation, downstream water quality, aquatic habitat degradation	Low	2	Emergency Stream Loading and Sediment Control Contingency Plans
									H&S		Very Low	n/a	
									Econ	Minor cost for road repair	Low	2	
6.23	Road Surface Erosion	✓	✓	✓	✓		Road surface and culvert maintenance	Likely	Env	Downstream water quality, aquatic habitat degradation	Low	4	Emergency Sediment Control Contingency Plans and Silt Fencing
									H&S		Very Low	n/a	
									Econ	Minor cost for road repair	Very Low	3	
6.24	Survey Errors	✓	✓				Adequate level of field investigation, training, supervision	Unlikely	Env	Loss of terrestrial habitat if location changes	Very Low	2	
							Standard operating procedures and inspections		H&S		Very Low	2	
									Econ	Minor cost for road relocation	Low	3	

TABLE 6
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT

ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - ACCESS ROAD

Revised: Sep/19/07
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M:\1101100266\01\A\Report6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 6-Access Road

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plan
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
6.25	Tree / Rock Fall	✓	✓				Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env	No consequence identified	Very Low	1	Implement Emergency First Aid Response Strategy
									H&S	Possible serious injury	Moderate	3	
									Econ		Very Low	1	
6.26	Tree Felling and Log Recovery Accident	✓	✓				Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env	No consequence identified	Very Low	1	Implement Emergency First Aid Response Strategy
									H&S	Possible serious injury	Moderate	3	
									Econ		Very Low	1	
6.27	Unacceptable (off-spec) material used for construction	✓	✓					Very Unlikely	Env	Downstream water quality, aquatic habitat degradation	Low	2	Emergency Sediment Control Contingency Plans and Silt Fencing
									H&S		Very Low	n/a	
									Econ		Low	2	
6.28	Unacceptable road surface compaction	✓	✓	✓			Operator training, supervision	Unlikely	Env	Downstream water quality, aquatic habitat degradation	Low	3	Emergency Sediment Control Contingency Plans and Silt Fencing
									H&S		Very Low	2	
									Econ	Minor cost for road repair	Very Low	2	
6.29	Unexpected Stripping (Overburden) or Blasting Requirements (Bedrock)	✓	✓					Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	2	Budget Allocation for Emergency Stripping and Grubbing
									H&S		Very Low	2	
									Econ		Moderate	4	
6.30	Wildlife Encounter - Attack	✓	✓	✓	✓	✓	Wildlife Awareness Training	Unlikely	Env	Loss of wildlife	Low	3	Reporting, review and upgrade of waste handling protocol
									H&S	Possible Fatalities	High	5	
									Econ		Very Low	2	

Notes:

- 1) Risk Matrix 1 and 2 denotes non-actionable risk activity.
- 2) Risk Matrix 3 and 4 denotes low risk activity.
- 3) Risk Matrix 5 denotes moderate risk activity.
- 4) Risk Matrix 6 and 7 denotes high risk activity.
- 5) P-CON = Pre-Construction
- 6) CON = Construction
- 7) OP = Operations
- 8) CLO = Closure
- 9) P-CLO = Post-Closure



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**TABLE 7
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - POWER CORRIDOR**

Revised: Sep/19/07
Printed: Sep/19/07

M:\1101\00266\01A\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 7-Power Corridor

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plans
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
7.01	Electrocution	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env	No consequence identified	Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	4	
									Econ		Very Low	1	
7.02	Equipment Fire		✓	✓		Equipment maintenance, fuel handling and training	Unlikely	Env	Short term air quality alteration	Very Low	2	Implement Emergency Fire Response Strategy	
								H&S	Possible Minor Injuries	Low	3		
								Econ		Very Low	2		
7.03	Equipment Fire Resulting in Forest Fire		✓	✓		Equipment maintenance, fuel handling and training. Emergency fire suppression training	Unlikely	Env	Long term air quality alteration. Loss of wildlife	Moderate	4	Implement Emergency Fire Response Strategy	
								H&S	Possible Serious injuries	Moderate	4		
								Econ	Moderate work delay and compensation cost	Moderate	4		
7.04	Fall from Equipment or Tower	✓	✓	✓	✓	Mandatory Safety Harness	Unlikely	Env		Very Low	n/a	Emergency First Aid and Medical Evacuation Plan	
								H&S	Possible Fatalities	High	5		
								Econ		Very Low	2		
7.05	Footing / Tower Construction Failure	✓	✓	✓		Standard Operating Procedures and Inspections	Unlikely	Env	No consequence identified	Very Low	2	Emergency First Aid and Medical Evacuation Plan	
								H&S	Possible serious injury	Moderate	4		
								Econ	Minor tower repair / replacement cost	Low	3		
7.06	Fuel Spills	✓	✓	✓	✓	Operator training	Highly Likely	Env	Downstream water quality, fish habitat degradation, local terrestrial habitat alteration	Low	4	Implement Emergency Spill Containment and Neutralization Contingency Plan	
								H&S		Very Low	n/a		
								Econ		Very Low	3		
7.07	Helicopter Support Accident	✓	✓	✓	✓	Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env	No consequence identified	Very Low	n/a	Emergency First Aid and Medical Evacuation Plan	
								H&S	Possible Fatalities	High	4		
								Econ		Low	2		
7.08	Inexperienced Contractors / Supervisors / Foreman / Operators	✓	✓	✓	✓	Training, supervision, monitoring, accountability	Likely	Env	No consequence identified if consequences are contained locally	Very Low	3	Emergency First Aid and Medical Evacuation Plan	
								Possible Serious Injury	Moderate	5			
						Enhanced Human Resource Training and Communication Seminars		Econ	Moderate Work Delay and Cost	Moderate	5		

**TABLE 7
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - POWER CORRIDOR**

Revised: Sep/19/07
Printed: Sep/19/07

M:\1101\00266\01A\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 7-Power Corridor

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plans
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
7.09	Labour Disruptions	✓	✓	✓	✓		Adequate health benefits, training, and safety policy.	Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Low	3	
									Econ		Moderate	4	
7.10	Motor Vehicle Accident (Human H&S)	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Likely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	6	
									Econ		Very Low	3	
7.11	Motor Vehicle Accident (Wildlife)	✓	✓	✓	✓		Driver Awareness Training and Containment Fencing	Very Unlikely	Env	Loss of wildlife	Low	3	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible Serious Injury	Moderate	4	
									Econ		Very Low	2	
7.12	Motorized OTR Equipment Accident	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Unlikely	Env	No consequence identified	Very Low	2	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Minor Injury	Low	3	
									Econ		Very Low	2	
7.13	Power Corridor Design Failure	✓	✓	✓			Standard Operating Procedures and Inspections	Very Unlikely	Env	No consequence identified	Very Low	1	Alternate Power Contingency Plan
									H&S		Very Low	1	
									Econ	Minor work delays and repair cost	Low	2	
7.14	Powerline Break / Pole Failure	✓	✓	✓	✓		Back-up Power Switchover Training	Very Unlikely	Env	No consequence identified	Very Low	1	Implement Emergency Shutdown Procedures and Training, Emergency BC Hydro Contacts
									H&S	Possible serious injury	Moderate	3	
									Econ		Low	2	
7.15	Premature Mine Closure				✓	✓		Unlikely	Env	No consequence identified	Very Low	n/a	Early Shut-down Contingency Plan
									H&S		Very Low	n/a	
									Econ	Minor impact on company reputation	Low	3	
7.16	Protesters / Road Blockades / Terrorism	✓	✓	✓			On-going Community and First Nations Forums	Unlikely	Env	No consequence identified	Very Low	n/a	On-going Community Forums
									H&S	Possible Minor Injury	Low	3	
									Econ		Low	3	

**TABLE 7
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PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - POWER CORRIDOR**

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M:\110100266\01A\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 7-Power Corridor

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plans
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
7.17	Right of Way Erosion and Sediment Control Systems Failure	✓	✓	✓	✓		All systems designed and built to accommodate extreme events and maintained regularly Regular inspections and maintenance	Unlikely	Env	Downstream water quality, fish habitat degradation, local terrestrial habitat alteration	Low	3	Emergency Stream Loading and Sediment Control Contingency Plans
									H&S		Very Low	2	
									Econ		Very Low	2	
7.18	Survey Errors	✓	✓				Adequate level of field investigation, training, supervision Standard operating procedures and inspections	Unlikely	Env	Loss of terrestrial habitat if location changes	Very Low	2	
									H&S		Very Low	2	
									Econ	Moderate cost for powerline relocation and negative company reputation	Moderate	4	
7.19	Tree / Rock Fall	✓	✓				Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env		Very Low	n/a	
									H&S	Possible Serious Injury	Moderate	3	Emergency First Aid and Medical Evacuation Plan
									Econ		Very Low	1	
7.20	Tree Felling and Log Recovery	✓	✓				Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env		Very Low	n/a	
									H&S	Possible Serious Injury	Moderate	3	Emergency First Aid and Medical Evacuation Plan
									Econ		Very Low	1	
7.21	Wildlife Encounter - Attack	✓	✓	✓	✓	✓	Awareness training, waste management handling plans Emergency First Aid and Medical Evacuation Training, Wildlife Awareness Training	Unlikely	Env	Loss of wildlife	Low	3	Reporting, review, and upgrade waste handling practices
									H&S	Possible Fatalities	High	5	Emergency First Aid and Medical Evacuation Plan
									Econ		Very Low	2	

Notes:

- 1) Risk Matrix 1 and 2 denotes non-actionable risk activity.
- 2) Risk Matrix 3 and 4 denotes low risk activity.
- 3) Risk Matrix 5 denotes moderate risk activity.
- 4) Risk Matrix 6 and 7 denotes high risk activity.
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- 6) CON = Construction
- 7) OP = Operations
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**TABLE 8
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - MINESITE**

Revised: Sep/19/07
Printed: Sep/19/07

M:\110100266\01\AR\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 8-Minesite

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plans
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
8.01	Blasting Flyrock		✓	✓			Emergency First Aid and Medical Evacuation Training, Standard Operating Procedures	Likely	Env	No consequence identified if consequences are within mine foot print area	Very Low	n/a	Implement Emergency First Aid Response Strategy
									H&S	Possible serious injury	Moderate	5	
									Econ		Very Low	n/a	
8.02	Blasting malfunction / Early Detonation		✓	✓			Emergency First Aid and Medical Evacuation Training, Safe Handling and Storage Guidelines	Very Unlikely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	4	
									Econ		Very Low	1	
8.03	Blasting malfunction / Failure to Detonate		✓	✓			Emergency First Aid and Medical Evacuation Training, Safe Handling and Storage Guidelines	Unlikely	Env	No consequence identified	Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	5	
									Econ		Very Low	2	
8.04	Blasting Noise / Concussion (excessive)		✓	✓				Unlikely	Env	Local wildlife fright, vibration effects on local fish	Moderate	4	Alternative Blasting Pattern / Wildlife Window Contingency Plan
									H&S		Very Low	2	
									Econ		Very Low	2	
8.05	Blasting Powder and Hazardous Material Explosions / Fires	✓	✓	✓	✓		Spill Contingency Plan and Safe Handling Procedures	Very Unlikely	Env	Short term air quality alteration	Very Low	1	Implement Spill Contingency Plan and Safe Handling Procedures
									H&S	Possible serious injury	Moderate	3	
									Econ		Very Low	1	
8.06	Computer / Instrumentation Failure			✓			Manual Back-up and Override Procedures and Training	Unlikely	Env	No consequence identified	Very Low	n/a	Implement Manual Back-up and Override Procedures
									H&S		Very Low	n/a	
									Econ		Very Low	2	
8.07	Crush Injuries	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Unlikely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible fatalities	High	5	
									Econ		Very Low	2	
8.08	Culvert Failures	✓	✓	✓	✓	✓	Regular Inspection and Maintenance	Unlikely	Env	Headwater channel loading only. No consequence downstream to pit area	Moderate	4	Emergency Stream Loading and Sediment Control Contingency Plans
									H&S		Very Low	2	
									Econ	Minor cost for replacement	Very Low	2	

**TABLE 8
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - MINESITE**

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M:\110100266\01\AR\Report\6-Accidents and Malfunctions\Rev B\All Tables (A&M) Rev B.xls\Table 8-Minesite

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plans
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
8.09	Design tailings dry density cannot be achieved			✓	✓		On-going Density Testing	Very Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Very Low	n/a	
									Econ		Very Low	1	
8.10	Electrocution	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S	Possible Fatalities	High	4	Implement Emergency Response / Mine Rescue Strategy
									Econ		Very Low	1	
8.11	Embankment Pore Pressure Increase		✓	✓	✓		Emergency Mill Shut-down / Reduced Throughput Training	Very Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Very Low	n/a	
									Econ		Low	2	Implement Emergency Response and Repair Contingency Plan.
8.12	Excess water in TSF			✓	✓		Well designed water management plan with diversion of excess fresh water, TSF dam construction kept ahead of tailings and water accumulation in TSF, water treatment plant contingency plan	Unlikely	Env	Downstream aquatic habitat and water quality alteration if excess water off-spec, and requires discharge to environment	High	5	Implement Emergency Water Discharge Protocol and Water Treatment Contingency Plan
									H&S		Very Low	2	
									Econ	Possible work delay	Low	3	On-going Water Balance Monitoring and Reduced Mill Throughput Contingency Plan
8.13	Excessive Concentrate Dust			✓			Standard Operating Procedures and Inspections	Unlikely	Env	Headwater channel loading only. No consequences downstream to pit area	Very Low	2	Emergency Spill Containment and Neutralization Contingency Plan
									H&S		Very Low	2	
									Econ		Very Low	2	
8.14	Excessive fugitive dust	✓	✓	✓	✓		Standard Health and Safety Operating Procedures and Air Quality Monitoring.	Highly Likely	Env	Short term air quality degradation	Very Low	4	
									H&S	Short term air quality degradation	Low	5	Implement Supplementary Dust Control Strategy (Calcite)
									Econ	Minor cost for dust management	Very Low	4	
8.15	Expected Reactive/Non-Reactive waste rock distribution changes dramatically		✓	✓	✓	✓		Unlikely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	2	
									H&S		Very Low	2	
									Econ		Low	3	Contingency Stockpile Locations for Reactive Rock in TSF
8.16	Fall from equipment or heights	✓	✓	✓	✓		Standard Health and Safety Operating Procedures and Training.	Highly Likely	Env		Very Low	n/a	
									H&S	Possible Fatalities	High	7	Implement Emergency Response / Mine Rescue Strategy
									Econ	Minor cost for safety improvements	Very Low	1	

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Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plans	
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating			
8.17	Fisheries Compensation System Failure	✓	✓	✓	✓	✓	Risk assessment of success and design failure accounted for in planning	Unlikely	Env	Loss of fish, fish habitat	Moderate	4	Implement fish and fish habitat adaptive management and contingency plans	
									H&S		Very Low	n/a		
									Econ		Low	3		
8.18	Frozen Pumps / Pipelines / Pipe Breakage	✓	✓	✓	✓			Likely	Env	Headwater channel loading only. No consequences downstream to pit area	Very Low	3	Emergency Sediment Control Contingency Plans	
									H&S		Very Low	n/a		
									Econ		Very Low	3		
8.19	Fuel Spills (Equipment Refuelling)	✓	✓	✓	✓	✓	Emergency First Aid and Medical Evacuation Training	Highly Likely	Env	Headwater channel loading only. No consequences downstream to pit area	Very Low	3	Emergency Spill Containment and Neutralization Contingency Plan	
									H&S		Very Low	3		
									Econ	Minor cost for clean-up	Very Low	3		
8.20	Gas Leaks / Explosions (Compressed Air, Propane)	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Unlikely	Env		Very Low	2		
									H&S	Short term air quality alteration. Possible serious injury	Moderate	4		Implement Emergency Response / Mine Rescue Strategy
									Econ		Very Low	2		
8.21	Geotechnical Site Conditions (Undetected)	✓	✓	✓	✓			Unlikely	Env	No consequence identified if consequences reported downstream to pit area	Very Low	2		
									H&S		Very Low	2		
									Econ		Very Low	2		
8.22	Greater than expected seepage through natural basin causes groundwater degradation		✓	✓	✓	✓	On-going piezometer monitoring	Unlikely	Env	Groundwater and downstream surface water quality alteration	Moderate	4	Emergency Seepage Containment Contingency Plan. Emergency Environmental Contacts.	
									H&S		Very Low	2		
									Econ		Low	3		
8.23	Hazardous Material Spills	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Likely	Env	Headwater channel loading only. No consequences downstream to pit area	Very Low	2	Emergency Spill Containment and Neutralization Contingency Plan	
									H&S		Low	3		Emergency First Aid and Eye Wash Stations
									Econ	Minor cost for clean-up	Very Low	2		
8.24	Headwater Channel Failure	✓	✓	✓	✓	✓	Appropriate level of detail in design and planning for seasonal and extreme flows.	Very Unlikely	Env	Short term loss of inlet spawning habitat related to fish compensation works	Moderate	3	Implement adaptive management plan	
							Stream Channel Construction Guidelines and Inspection.		H&S		Very Low	1		
									Econ		Very Low	1		

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
8.25	Helicopter Support Accident	✓	✓	✓	✓	✓		Very Unlikely	Env		Very Low	n/a	
									H&S	Possible Fatalities	High	4	Emergency First Aid and Medical Evacuation Plan
									Econ		Low	2	
8.26	Higher than expected TSF Seepage Volume to Collection System		✓	✓	✓	✓	On-going Water Quality Monitoring	Unlikely	Env	Downstream aquatic habitat and water quality alteration if seepage water off-spec, and reports to environment	Low	3	Possible Upgrade to Seepage Collection System and Budget Allocation
									H&S		Very Low	2	
									Econ		Very Low	2	
8.27	Improper Battery, Antifreeze, and Used Oil Disposal	✓	✓	✓	✓		Health and Safety Operating Procedures and Inspections	Likely	Env	Headwater channel loading only. No consequences downstream to pit area	Very Low	3	Emergency Spill Containment and Neutralization Contingency Plan
									H&S	Possible minor injuries	Very Low	3	
									Econ	Minor cost for containment management	Very Low	3	
8.28	Inability to Capture Fish Stocks From Fish Lake	✓				Detailed plans for capture based on proven techniques and adaptive management planning	Very Unlikely	Env	Loss of fish stocks for replacement to other systems	Low	2	Alternate Fish Capture Methods as defined in adaptive management plan	
								H&S		Very Low	n/a		
								Econ		Very Low	1		
8.29	Inability to Drain Fish Lake	✓					Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	2		
								H&S		Very Low	n/a		
								Econ		Very Low	2	Alternate Make-up Water Contingency Plan	
8.30	Inability to Fill Open Pit with Water				✓	On-going Water Balance Monitoring and Make-up Water Contingency Plan	Very Unlikely	Env	Potential for ground and downstream surface water quality alteration	Moderate	3	Alternate Minesite Closure Contingency Plan	
								H&S		Very Low	1		
								Econ		Low	2		
8.31	Inexperienced Contractors / Supervisors / Foreman / Operators	✓	✓	✓	✓		Likely	Env	No consequence identified if consequences report downstream to pit area	Very Low	3		
								H&S	Possible Serious Injury	Moderate	5	Emergency First Aid and Medical Evacuation Plan	
								Econ	Moderate Work Delay and Cost	Moderate	5	Enhanced Human Resource Training and Communication Seminars	
8.32	Insufficient materials available in Open Pit for embankment raising		✓	✓	✓	Identify alternate material supply areas from within mine footprint	Unlikely	Env	No consequence identified as failure consequences report downstream to pit area	Very Low	2		
								H&S		Very Low	n/a		
								Econ	Possible short work delay	Low	3	Contingency Material Stockpiles	

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
8.33	Insufficient Tailings/ Supernatant Water to Facilitate Reclamation Plans					✓	Emergency Mill Shut-down and Reduced Throughput Training	Very Unlikely	Env	Loss of TSF as a long term fish compensation works	Moderate	3	Minesite Closure / Reclamation / Fishery Compensation Contingency Plans
									H&S		Very Low	1	
									Econ		Very Low	1	
8.34	Labour Disruptions	✓	✓	✓	✓		Adequate Health Benefits, Training, and Safety Policy.	Unlikely	Env	No consequence identified	Very Low	n/a	Replacement Worker Contingency Plan
									H&S		Low	3	
									Econ	Moderate Work Delay and Cost	Moderate	4	
8.35	Loss of Power - Mill		✓	✓	✓		Back-up Power Switchover Training	Likely	Env		Very Low	n/a	Mill Start-up Safety Procedures
									H&S	Minor risk of injury during start-up	Very Low	3	
									Econ	Minor work delay during short power outage	Low	4	
8.36	Loss of Power - Offices & Accommodations		✓	✓	✓		Back-up Power Switchover Training	Very Unlikely	Env		Very Low	n/a	
									H&S		Very Low	n/a	
									Econ	Minor work delay during short power outage	Very Low	2	
8.37	Loss of Power - Open Pit		✓	✓	✓		Back-up Power Switchover Training	Likely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	n/a	Implement Temporary Make-up Water Contingency Plan
									H&S		Very Low	n/a	
									Econ	Minor work delay during short power outage	Very Low	2	
8.38	Loss of Power - Reclaim System		✓	✓	✓		Back-up Power Switchover Training	Likely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	n/a	Implement Temporary Make-up Water Contingency Plan
									H&S		Very Low	n/a	
									Econ	Minor work delay during short power outage	Low	4	
8.39	Loss of Power - Seepage Control System		✓	✓	✓	✓	Back-up Power Switchover Training	Likely	Env	Downstream water quality and aquatic habitat alteration if water discharged to environment	Moderate	5	Implement Spill Contingency and Containment Plan
									H&S		Very Low	n/a	
									Econ	Minor work delay during short power outage	Very Low	3	
8.40	Loss of Power - Tailings System		✓	✓			Back-up Power Switchover Training	Likely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	n/a	Emergency Mill Shutdown or Reduced Throughput Procedures, Pipe Flushing Protocol
									H&S		Very Low	n/a	
									Econ	Minor work delay during short power outage	Low	4	

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
8.41	Main Embankment Slope Failure (non-spill)	✓	✓	✓	✓	Emergency Mill Shut-down / Reduced Throughput Training	Very Unlikely	Env	No consequence identified as failure consequence report downstream to pit area	Low	2	Emergency Stream Loading and Sediment Control Contingency Plans	
								H&S		Low	2		
								Econ		Low	2		
8.42	Main Embankment Slope Failure (spill)	✓	✓	✓	✓	Emergency Mill Shut-down / Reduced Throughput Training	Very Unlikely	Env	No consequence identified as failure consequence report downstream to pit area	Low	2	Implement Emergency Response and Repair Contingency Plan. Implement Emergency Seepage Containment Contingency Plan. Emergency Environmental Contacts.	
								H&S	Possible fatalities in pit	High	4		
								Econ	Moderate work delay and cost	Moderate	3		
8.43	Mill / Plant / Fire	✓	✓			Emergency Response and Fire Suppression Training	Unlikely	Env		Very Low	2	Emergency Fire Department Contacts	
								H&S	Short term air quality alteration	Low	3		
								Econ	Minor work delay	Low	3		
8.44	Mine / Mill Equipment Failure (Ball Mill, Conveyor etc.)			✓		Standard Perimeter Gates and Rock Guards Regular Inspection and Maintenance	Likely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy Contingency Replacement Equipment and Parts	
								H&S		Low	4		
								Econ	Minor work delay and repair cost	Low	4		
8.45	Mine Equipment Fire	✓	✓			Fire Suppression Training	Unlikely	Env	Short term air quality alteration	Very Low	2	Emergency Fire Contacts	
								H&S		Very Low	2		
								Econ		Low	3		
8.46	Minesite Construction Failure	✓				Standard Operating Procedures and Inspections	Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	2		
								H&S		Very Low	2		
								Econ		Very Low	2		
8.47	Minesite Design Failure	✓	✓	✓		Regular Inspection and Maintenance	Very Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	1		
								H&S		Very Low	1		
								Econ	Minor cost for repair	Low	2		
8.48	Minesite Erosion and Sediment Control Systems Failure	✓	✓	✓	✓		Unlikely	Env	Headwater channel loading only. No consequence downstream to pit area	Low	3	Emergency Sediment Control Contingency Plans and System Inspections	
								H&S		Very Low	n/a		
								Econ	Minor cost for repair	Very Low	2		

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
8.49	Motor Vehicle Accident (Human H&S)	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Likely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	6	
									Econ		Very Low	n/a	
8.50	Motor Vehicle Accident (Wildlife)	✓	✓	✓	✓		Driver Awareness Training, Signage and Containment Fencing	Very Unlikely	Env	Loss of wildlife	Low	2	
									H&S	Possible Serious Injury	Moderate	3	
									Econ		Very Low	1	
8.51	Motorized OTR Equipment Accident	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Unlikely	Env	Headwater channel loading only. No consequence downstream to pit area	Very Low	2	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Minor Injury	Low	3	
									Econ		Very Low	2	
8.52	Open Pit Depressurization Well and Perimeter Well Failure			✓			Regular inspections and maintenance	Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Very Low	2	
									Econ	Minor cost for re-drilling	Very Low	2	
8.53	Open Pit Dewatering System Failure			✓			Regular inspections and maintenance	Unlikely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	n/a	Implement Temporary Make-up Water Plan and Flood Response Strategy
									H&S		Very Low	2	
									Econ	Minor cost for repair	Low	3	
8.54	Open Pit Ramp Failure			✓			Regular inspections and maintenance	Unlikely	Env	No consequence identified	Very Low	2	Implement Emergency Response / Mine Rescue Strategy
									H&S	Truck overturning leading to serious injuries	Low	3	
									Econ		Very Low	2	
8.55	Open Pit Rockfall		✓	✓			Emergency First Aid and Medical Evacuation Training. Kickboards or Fencing Along Pit Perimeter	Likely	Env	No consequence identified	Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible serious injury	Moderate	5	
									Econ		Very Low	3	
8.56	Open Pit Wall Failure		✓	✓			Emergency Evacuation Training and Stabilisation Protocol	Unlikely	Env	No consequence identified	Very Low	n/a	Rock Stabilisation (Rock Bolts) Contingency Plan
									H&S		Low	3	
									Econ		Low	3	

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating			
8.57	Overburden / Waste rock Stockpile Erosion	✓	✓	✓	✓		Standard Operating Procedures and Inspections	Likely	Env	No consequence identified if consequences report downstream to pit area	Very Low	3	Emergency Sediment Control Contingency Plans	
									H&S		Very Low	n/a		
									Econ		Very Low	3		
8.58	Poor beach development resulting in increased seepage reduced embankment stability		✓	✓	✓	✓	Emergency Mill Shut-down and Reduced Throughput Training	Very Unlikely	Env	No consequence identified as failure consequence report downstream to pit area	Low	2	Emergency Seepage Containment and Repair Contingency Plan	
									H&S		Very Low	1		
									Econ		Low	2		Embankment Repair Contingency Plan and Budget Allocation
8.59	Powerline Break / Pole Failure	✓	✓	✓	✓		Back-up Power Switchover Training	Very Unlikely	Env	No consequence identified	Very Low	1	Implement Emergency Shutdown Procedures and Training, Emergency BC Hydro Contacts	
									H&S	Possible serious injury	Moderate	3		
									Econ		Low	2		
8.60	Premature Mine Closure				✓	✓		Unlikely	Env		Very Low	2	Alternate Reclamation Contingency Plan	
									H&S		Very Low	n/a		
									Econ		Low	3		
8.61	Protesters / Road Blockades / Terrorism	✓	✓	✓				Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	n/a	On-going Community Forums	
									H&S		Low	3		
									Econ		Low	3		
8.62	Reactive waste rock generates acidic drainage prior to TSF flooding		✓	✓	✓	✓	Emergency Mill Shut-down and Reduced Throughput Training	Unlikely	Env		Very Low	2	Pump off-spec water to pit on closure	
									H&S		Very Low	2		
									Econ	Additional cost to improve TSF water quality at closure to accommodate fish compensation works	Low	3		Improved Waste Disposal Management Plan
8.63	Reactive waste rock misdirected to Non-Reactive stockpile		✓	✓	✓		Emergency Mill Shut-down and Reduced Throughput Training	Unlikely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	2	Seepage Containment Procedures Around Misdirected Reactive Waste rock	
									H&S		Very Low	2		
									Econ		Very Low	2		
8.64	Reclaim Pipeline / Pump Failure		✓	✓	✓		Emergency Mill Shut-down and Reduced Throughput Training	Likely	Env	No consequence identified as failure consequence report downstream to pit area	Very Low	2	Emergency Response and Repair Contingency Plan.	
									H&S		Very Low	2		
									Econ	Minor cost for repair	Very Low	2		

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8.65	Road Surface Erosion	✓	✓	✓	✓		Regular Inspection and Maintenance	Likely	Env	Headwater channel loading only. No consequences downstream to pit area	Low	4	Emergency Sediment Control Contingency Plans and Silt Fencing
									H&S		Very Low	n/a	
									Econ	Minor cost for silt management	Very Low	3	
8.66	Rock Fall From Equipment / Conveyor / Ore Trucks		✓	✓			Standard Health and Safety Operating Procedures and Training.	Likely	Env		Very Low	n/a	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible minor injuries	Low	4	
									Econ		Very Low	3	
8.67	Runaway Ore Trucks			✓			Emergency Situation Driver Training	Unlikely	Env		Very Low	2	Emergency Run-off Areas
									H&S	Possible Serious Injury	Moderate	4	
									Econ		Very Low	2	
8.68	Seepage Collection System Failures	✓	✓	✓	✓	✓	Emergency Mill Shut-down and Reduced Throughput Training	Unlikely	Env	Downstream aquatic habitat and water quality alteration if seepage water off-spec, and drains to environment	Moderate	4	Emergency Seepage Containment and Repair Contingency Plan
									H&S		Very Low	2	
									Econ	Minor cost for repair	Very Low	2	
8.69	Seepage recovery pipeline / pump station malfunction		✓	✓	✓		Redundancy Pumps and Switch-over Training.	Unlikely	Env	Downstream aquatic habitat and water quality alteration if excess water off-spec, and requires discharge to environment	Moderate	4	Emergency Seepage Containment Contingency Plan.
									H&S		Very Low	2	
									Econ		Very Low	2	
8.70	Shortage of Soil / Overburden to Facilitate Revegetation Plans				✓	✓		Unlikely	Env	Loss / Reduction in terrestrial habitat for re-establishment of terrestrial resources	Moderate	4	Contingency Overburden Stockpiles
									H&S		Very Low	2	
									Econ		Very Low	2	
8.71	Slips and falls	✓	✓	✓	✓	✓	Standard Health and Safety Operating Procedures and Training.	Highly Likely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Minor Injuries	Low	5	
									Econ		Very Low	n/a	
8.72	Stored Water Shortage in TSF (including Start-up)	✓	✓	✓	✓			Unlikely	Env	Loss of headwater channel water for short or long term fisheries compensation works	Low	3	Contingency plan for managing with less water
									H&S		Very Low	2	
									Econ		Low	3	

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8.73	Survey Errors	✓	✓				Standard Operating Procedures and Inspections	Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	2	
									H&S		Very Low	2	
									Econ	Minor cost if repaired immediately	Low	3	
8.74	Tailings or reclaim pipeline failure resulting in uncontrolled discharge to environment			✓			Tailings line moving training and supervision. Emergency Mill Shut-down Training	Unlikely	Env	Downstream aquatic habitat and water quality degradation	High	6	Emergency Response and Repair Contingency Plan.
							Emergency First Aid and Medical Evacuation Training		H&S		Low	3	
									Econ	Moderate work delay and cost	Moderate	4	Spill Mitigation Policy and Emergency Fund Allocation
8.75	Tree / Rock Fall	✓	✓				Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env		Very Low	n/a	
									H&S	Possible Serious Injury	Moderate	3	Emergency First Aid and Medical Evacuation Plan
									Econ		Very Low	1	
8.76	Tree Felling and Log Recovery	✓	✓				Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env		Very Low	n/a	
									H&S	Possible Serious Injury	Moderate	3	Emergency First Aid and Medical Evacuation Plan
									Econ		Very Low	1	
8.77	Unacceptable (off-spec) material used for construction	✓	✓				Regular Inspections and Supervision	Very Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	1	
									H&S		Very Low	1	
									Econ		Low	2	Contingency Till Stockpiles
8.78	Unacceptable embankment compaction	✓	✓	✓			Regular Inspection and Density Testing	Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	2	
									H&S		Very Low	2	
									Econ	Short work delay and low cost if repaired immediately	Low	3	Embankment Repair Contingency Plan (Liners) and Budget Allocation
8.79	Unexpected foundation conditions (deeper loose layers exist)	✓	✓					Unlikely	Env	No consequence identified if consequences report downstream to pit area	Very Low	2	
									H&S		Very Low	2	
									Econ	Moderate work delay and cost if repaired immediately	Moderate	4	Embankment Repair Contingency Plan and Budget Allocation
8.80	Unexpected Lack of TSF Overflow to Facilitate Fish Compensation Plans				✓	✓		Unlikely	Env	loss of fish habitat and value of planned compensation works	Moderate	4	Alternate Reclamation and Fisheries Compensation Contingency Plan
									H&S		Very Low	n/a	
									Econ		Low	3	

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8.81	Unexpected Minesite Groundwater and Soil Contamination			✓	✓	✓	Regular Inspection and Monitoring	Unlikely	Env	Downstream surface and groundwater quality degradation, aquatic habitat alteration	Low	3	Emergency Groundwater Control Contingency Plans and Water Quality Monitoring	
									H&S		Very Low	2		
									Econ	Minor cost for soil disposal and replacement	Low	3		Contingency Environmental Soil Assessment and Disposal Plan
8.82	Unexpected Stripping (Overburden) or Blasting Requirements (Bedrock)	✓	✓					Unlikely	Env	No consequence identified if consequences reported downstream to pit area	Very Low	2		
									H&S		Very Low	2		
									Econ		Moderate	4		Budget Allocation for Emergency Stripping and Grubbing
8.83	Vandalism / Equipment and Material Theft	✓	✓	✓	✓	✓	Standard Security Parameters and Training	Likely	Env	No consequence identified	Very Low	n/a		
									H&S		Very Low	2		
									Econ	Minor cost for replacement	Low	3		Emergency Contacts
8.84	Waste Characterization Prediction Failure			✓	✓	✓		Unlikely	Env	No consequence identified if consequences reported downstream to pit area	Very Low	2		
									H&S		Very Low	n/a		
									Econ		Very Low	2		
8.85	Water Quality at Post-Closure does not meet discharge requirements					✓	On-going Water Quality Monitoring	Unlikely	Env	Downstream aquatic habitat and water quality alteration if water off-spec, and requires treatment	Very Low	2	Implement Water Treatment Plant Contingency Plan	
									H&S		Very Low	2		
									Econ	Moderate cost and reclamation delay associated with water treatment	Moderate	4		
8.86	West Embankment Slope Failure (non-spill)		✓	✓	✓	✓	Emergency Mill Shut-down / Reduced Throughput Training	Very Unlikely	Env	Downstream aquatic habitat and water quality alteration	Low	2	Emergency Stream Loading and Sediment Control Contingency Plans	
									H&S		Low	2		
									Econ		Low	2		Emergency Response and Repair Contingency Plan.
8.87	West Embankment Slope Failure (spill)		✓	✓	✓	✓	Emergency Mill Shut-down / Reduced Throughput Training	Very Unlikely	Env	Downstream aquatic habitat and water quality alteration	High	4	Fish and Wildlife Emergency Contacts, Spill Containment Contingency Plan	
									H&S	Possible fatalities downslope	High	4		Emergency Spill Containment and Repair Contingency Plan
									Econ	Extended work delay and cost	High	4		Emergency Response and Repair Contingency Plan
8.88	Wildlife Encounter - Attack	✓	✓	✓	✓	✓	Awareness training, waste management handling plans.	Unlikely	Env	Loss of wildlife	Low	3	Reporting, review and upgrade of waste handling protocol	
							Emergency First Aid and Medical Evacuation Training, Wildlife Awareness Training		H&S	Possible Fatalities	High	5		Emergency First Aid and Medical Evacuation Plan
									Econ		Very Low	2		

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**TABLE 9
TASEKO MINES LIMITED
PROSPERITY GOLD-COPPER PROJECT**

**ACCIDENTS AND MALFUNCTIONS
RISK REGISTER - LOAD-OUT FACILITY**

Revised: Sep/19/07
Printed: Sep/19/07

M:\1101\00266\01\AI\Report\6-Accidents and Malfunctions\Rev B[All Tables (A&M) Rev B.xls]Table 9-Load-Out Facility

Ref No	Description	Project Phase					Design/Operating Considerations	Likelihood Rating Qualification	Potential Consequence			Risk Level	Emergency Response and Spill Contingency Plan
		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
9.01	Concentrate Spill			✓			Concentrate handling facilities away from water bodies	Likely	Env	No consequence identified if consequences are contained locally	Low	3	Implement Spill Containment and Neutralization Contingency Plan. Environmental Contacts
									H&S		Very Low	2	
									Econ		Very Low	2	
9.02	Crush Injury (Train Car)		✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Unlikely	Env	No consequence identified	Very Low	n/a	Emergency First Aid and Medical Evacuation Plan
									H&S		High	5	
									Econ		Very Low	2	
9.03	Electrocution	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Very Unlikely	Env		Very Low	n/a	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible Fatalities	High	4	
									Econ		Very Low	1	
9.04	Equipment Fire (Loader)		✓	✓			Emergency Fire Contacts and Fire Suppression Training	Unlikely	Env	Short term air quality alteration	Very Low	2	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible minor injuries	Low	3	
									Econ	Minor replacement cost	Low	3	
9.05	Excessive Fugitive Dust	✓	✓	✓	✓		Standard Health and Safety Operating Procedures and Air Quality Monitoring.	Highly Likely	Env	Minor siltation of local streams	Very Low	4	Implement Supplementary Dust Control Strategy (Calcite)
									H&S	Short term air quality degradation	Low	5	
									Econ		Very Low	4	
9.06	Fall from equipment or heights	✓	✓	✓	✓		Standard Health and Safety Operating Procedures and Training.	Likely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	6	
									Econ		Very Low	3	
9.07	Fuel Spills	✓	✓	✓	✓	✓	Operator training, supervision	Highly Likely	Env	No consequence identified if consequences are contained locally	Very Low	3	Implement Emergency Spill Containment and Neutralization Contingency Plan
									H&S		Very Low	n/a	
									Econ		Very Low	3	
9.08	Inexperienced Contractors / Supervisors / Foreman / Operators	✓	✓	✓	✓		Operator training, supervision	Likely	Env	No consequence identified if consequences are contained locally	Very Low	3	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible Serious Injury	Moderate	5	
									Econ	Moderate Work Delay and Cost	Moderate	5	

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
9.09	Injury During Maintenance			✓			Emergency First Aid and Medical Evacuation Training	Unlikely	Env	No consequence identified	Very Low	n/a	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible Serious Injury	Moderate	4	
									Econ		Very Low	2	
9.10	Labour Disruptions	✓	✓	✓	✓		Adequate Health Benefits, Training, and Safety Policy.	Unlikely	Env	No consequence identified	Very Low	n/a	Replacement Worker Contingency Plan
									H&S		Low	3	
									Econ	Moderate Work Delay and Cost	Moderate	4	
9.11	Load-Out Construction Failure	✓	✓	✓			Standard Operating Procedures and Inspections	Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Very Low	2	
									Econ	Minor work delays	Very Low	2	
9.12	Load-Out Design Failure	✓	✓	✓				Very Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Very Low	1	
									Econ	Minor work delays and repair cost	Low	2	
9.13	Load-Out Equipment Failure		✓	✓			Standard Operating Procedures and Inspections	Unlikely	Env	No consequence identified	Very Low	n/a	
									H&S		Very Low	2	
									Econ	Minor work delays and repair cost	Very Low	2	
9.14	Load-Out Facility Fire		✓	✓			Fire Suppression Training	Unlikely	Env	Short term air quality alteration	Very Low	2	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible minor injuries	Low	3	
									Econ	Minor work delays and repair cost	Low	3	
9.15	Loss of Power		✓	✓				Likely	Env	No consequence identified	Very Low	n/a	Implement Back-up Power Switchover Protocol. Temporary Load-Out Contingency Plan
									H&S	Possible minor injuries	Very Low	3	
									Econ	Minor work delay on short power outage	Very Low	3	
9.16	Motor Vehicle Accident (Human H&S)	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Likely	Env		Very Low	n/a	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Fatalities	High	6	
									Econ		Very Low	3	

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		P-CON	CON	OP	CLO	P-CLO			Category	Description	Rating		
9.17	Motor Vehicle Accident (Wildlife)	✓	✓	✓	✓		Signage, Driver Awareness Training and Containment Fencing	Unlikely	Env	Loss of wildlife	Low	3	Emergency First Aid and Medical Evacuation Plan
									H&S	Possible Serious Injury	Moderate	4	
									Econ		Very Low	2	
9.18	Motorized OTR Equipment Accident	✓	✓	✓	✓		Emergency First Aid and Medical Evacuation Training	Unlikely	Env	No consequence identified	Very Low	2	Implement Emergency Response / Mine Rescue Strategy
									H&S	Possible Minor Injury	Low	3	
									Econ		Very Low	2	
9.19	Protesters / Road Blockades / Terrorism	✓	✓	✓		On-going Community Forums	Unlikely	Env	No consequence identified	Very Low	n/a	On-going Community Forums	
								H&S	Possible Minor Injury	Low	3		
								Econ		Low	3		
9.20	Road Erosion and Sediment Control Systems Failure	✓	✓	✓	✓	Emergency Sediment Control Contingency Plans and System Inspections	Unlikely	Env	No consequence identified if consequences are contained locally	Low	3	Implement Emergency Sediment Control Contingency Plans and Silt Fencing	
								H&S		Very Low	2		
								Econ		Very Low	2		
9.21	Slips and falls	✓	✓	✓	✓	Standard Health and Safety Operating Procedures and Training.	Highly Likely	Env	No consequence identified	Very Low	n/a	Emergency First Aid and Medical Evacuation Plan	
								H&S	Possible minor injuries	Low	5		
								Econ		Very Low	4		
9.22	Unacceptable (off-spec) material used for construction	✓	✓			Identify Contingency Material Areas	Very Unlikely	Env	No consequence identified if consequences are contained locally	Very Low	1	Contingency Till Stockpiles	
								H&S		Very Low	1		
								Econ		Low	2		
9.23	Vandalism / Equipment and Material Theft	✓	✓	✓	✓	Standard Security Parameters and Training	Likely	Env	No consequence identified	Very Low	n/a		
								H&S		Very Low	2		
								Econ	Minor cost for equipment repair / replacement	Low	3		
9.24	Wildlife Encounter - Attack	✓	✓	✓	✓	Awareness training, waste management handling plans,	Unlikely	Env	Loss of wildlife	Low	3	Reporting, review and upgrade of waste handling protocol	
						Emergency First Aid and Medical Evacuation Training, Wildlife Awareness Training		H&S	Possible Fatalities	High	5		Emergency First Aid and Medical Evacuation Plan
								Econ		Very Low	2		

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