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Tahera Diamond Corporation-Δ
Toronto, Ontario

ΔΔΔΔ 2004

EXECUTIVE SUMMARY (English, Inuktitut, and Inuinaktun)

This document is being submitted to the Nunavut Water Board (NWB) by Tahera Diamond Corporation (the Company) for the purposes of water use at the Jericho Diamond Mine. Tahera Diamond Corporation intends to develop the Jericho Mine for the purposes of extracting commercially saleable diamonds to global markets. The Jericho Project is located at the north end of Contwoyto Lake, which is approximately 200 kilometres south east of Kugluktuk and 200 kilometres southwest of Bathurst Inlet.

The Company is proposing to construct a project that will have an eight-year life and will utilize modern mining methods to extract the kimberlite ore, by engineering an open pit. According to current mine reserves the mine will produce approximately three million carats of diamonds. Processing of the kimberlite will occur on site and the diamonds will be sold to global markets. The project will be self-sufficient and will have a footprint of approximately 220 hectares.

The site will be accessible by air and by utilizing the winter road that runs north from Yellowknife annually. The Jericho site will utilize this winter road access by continuation of the winter road from the Lupin mine site on Contwoyto Lake (approximately 30km). The site currently has a 1 kilometre long airstrip, which may be expanded to when the mine is built to accommodate larger aircraft; however, primarily supply will occur via the annual winter road.

The Company is currently scheduling mobilization of materials and supplies on the 2005 winter road over the January to March period. The project will take approximately one year to construct with full scale diamond production commencing in early 2006. Once operating the mine is expected to operate for eight years. The Company intends to continue its exploration efforts in the Jericho Region in an attempt to find other economic kimberlites, which could potentially extend the life of the project.

The project will require approximately 100 employees during construction and operation with a wide variety of skills and educational requirements needed to fill these positions. The Company has completed an Inuit Impact Benefit Agreement (IIBA) with the Kitikmeot Inuit Association, which focuses on employment, training, and community wellness. A signing ceremony for the IIBA will be held in Cambridge Bay in September.

The Jericho Project has completed the Environmental Review Process and the Nunavut Impact Review Board recommended (February 2004) to the Minister for Indian and Northern Affairs Canada (INAC) that the Project should precede to the regulatory phase. In July 2004 the Minister for INAC approved the NIRB report and a project certificate was issued by the NIRB. The NWB watering permitting process is one of the final requirements to met prior to construction efforts beginning. The Company will also be working with the Kitikmeot Inuit Association and INAC to secure land leases and with the Department of Fisheries and Oceans to obtain the required authorizations. In addition, the Company will be working with Natural Resources Canada for the purpose of obtaining the required explosives permit.

The application for this water permit is based on Guidelines provided by the Nunavut Water Board that were developed in conjunction with other reviewers. The application outlines specific

details and plans regarding the water related components of the Jericho site. The Company has endeavoured to address all the guidelines provided by the NWB in this document.

The Company looks forward to working with the Board and staff of the Nunavut Water Board as we proceed through this process.

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AULAPKAIYINI NAITTUQ

Una uktuut tuniyauliqtuq tapkununga Nunavut Imarmut Katimayit (NWB) tapkunanga Tahera Diamond Corporation (Havakvik) talvunga tukhiqtauhimayumun Jericho Diamond Mine. Tahera Diamond Corporation pivalialiurumayaa Jericho Mine piyumaplutik niuviqvingni niuvrutigiyauttaqtuni taiman hilaryauni niuviqviitni. Tamna Jericho Havaktauyug nunaqaqtuq hivuani Tahiryuap, 200 kilometres-kiaq kivataani kitaani Kugluktum 200 kilometres-kiaqlu kivataani kangiani Qingaum.

Tamna Havakvik tukhiqtuq havarumaplutik havakvighamik 8-nik ukiunik havakviqangniaqtuq atuqniaqtunlu ublumiutarnik uyaraghiurutjutinik piyaarutitik tapkuninga kimberlite uyarait iluaniitaqtun taimanik. Maliklugit tatja uyarhiungnini tutquumayait uyarhiuqvik tiliniaqtun pingahunik million-nik kiaratnik taimanik. Havakningitni kimberlite uyaraitnik havaktauniaqtun tahamani. Tamna havaktauyughaq inmigun-aulapkaitjutiaqniaqtuq tumiqarniaqtuqlu 220-ni hectares-nik.

Tahamna nuna tikittauttaqtuq timitikkun aturniaqtaanlu ukiumi apqutliuqtauhimayug tunuviamun Yellowknife-min ukiunguraangat. Tamna Jericho nunanga aturniaqtaa ukiumi apqutliuqtauhimayug aulahimaningani ukiungmi apqutaani Lupin uyaraghiuqvianin Tahiryuami (imaakiaq 30km). Nunagiyaat tatja 1 kilometre takitilaqaqtumik milviqaqtun, tikitilaanguqtauttaqtuq uyaraghiuqvik havaktauppan mittaangitni angitqiyan tingmitit; kihimi; tamayait agyaqtauniaqtun ukiumi apqutaagut.

Tamna Havakvik tatja ihuarhaiyut agyaqtauyughani tamayani talvuuna 2005 ukium apqutaani Januallimin Maasimun. Havaktauyughaq atauhiqmikiaq ukiungmi havaktauniaqtuq taimanik tililirlutik 2006-ngulihaaliqqan. Aulahimaliqqan uyaragtarvik aulahimaniaqtuq 8-ni ukiuqni. Tamna Havakvik aulahimaniarhimayain qinirhianirmingnik talvani Jericho-m haniyani nalvaarniarhimalutik atlanik kiinauyaliuqtaqtunik kimberlites-nik, tapkuat takitilaqaqtaata itningani havaktauyugham.

Havaktauyughaq piyumaniaqtuq 100-nik kiaq havaktighanik havakningani aulapkainingani quyaginnanik ayurhimayunik ilinniarhimayainnilu pihimayughani piyumayuyut havaktighangitni hapkunani havaaghani. Tamna Havakvik inirhimaliqtuq uminga Inuit Hulaqutini Ikayuutiit Angirut (IIBA) tapkunani Kitikmeot Inuit Katimayitni, turaagayun havaaghani, ayuirhainini, nunalaanilu inuuhiriqningni. Tamna IIBA havakhimayunlu imakkun akiliqtaunikkun piyunnautighanik Inuinnarnun naunaiyaqtauhimayug Article 20-mi umani Nunavut Nunatakikkun Angirutmi. Atiliurviknikkun katimaniaqtun IIBA-kun Iqaluktuuttiaqmi Saptapami.

Tamna Jericho Havaktauyughaq qangiqhimayug Avatinin Ihivruiqniqmin tamnalu Nunavut Avatilirinirmut Katimayit pitquiyut (Fipyuali 2004) Ministamun Inuliriyituqakutni Kanadami (INAC) tamna Havaktauyughaq aullaqtughaq maligaliuqtaunirmun. Juun 2004-mi tamna Minista INAC-mun angiqhimayaa NIRB unnuitjutta uvvalu havaktauyughangnikkun titiraq tuniyauhimayug NIRB-min. Tamna NWB imaqturikkun laisighaqqikkun kingulliuyug pitquyauhimatjut pihimayuyughaq hanaliqtinnagin. Tamna Havakvik havaqatiginiqtaunlu

Kitikmeot Inuit Katimayit INAC-kunlu piyaamingni nunanik akiliqattaqtaghamingnik tapkuatlu Imarmiutaliriyikku piyumaplugit pitquyauyun angirutin. Uvvalu, tamna Havakvik havaqatiginiaqtain Nunamiutait Atuturhat Kanada piyumaplutik piyumayauyun qaraqtautin laisiit.

Tamna uktuut umunga imakkun laisimi tunngayuq tapkunani Atquyauyuni tuniyauhimayut Nunavut Imarmut Katimayitnin tapkuat pivallialiuqtauyun katimaplutik atlanlu ihivriutinin. Tamna uktuut naunaiyaghimayuq nanaiyaqpiarhimayunik nauniatkutinin upalungaiyautiniklu mighaagun imakkun pitqutiqaqtun havagutin talvani Jericho nunaani. Tamna Havakvik uktuqhimayuq kiuniarhimaplugit tamaita atquyauyut tuniyauhimayut NWB-kunnin umani titiraqmi. Una tunihiniq uqaqhimayuq angitqianik ilitturipkaitjutinik mighaagun imakkun atqningani talvani nunaani, tunihiyuqlu aulapkainikkun hivullurutighainni havaktauyughami. Talvallaq, tamna tunihiniq ilaqaqtuq aulapkainikkun ingatangittaanganilu upalungaiyautiit aulatjutanun havaktauyugham, ilitturipkaitjutiit qimmakuni hulaqutiitni, amigaittunlu ilitturipkaitjutin mighaagun munaginnikkun umiktinnikkunlu upalungaiyautiit. Tunihipluni hapkuninga ilitturipkaitjutinik tamna Havakvik uppiriyuq pihimayuq ilitturipkaitjutinik, piyumayauyuq, paariangitni piyumayain NWB-kun atlanlu ihivriutinin iniriangitni laisighakkun havaqutainni.

Tahera Diamond Corporation niriuqtuq havakatigiami Katimayit havaktiitlu Nunavut Katimayitni hivumuutilluta umani havaaghami.

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Appendix X: SRK Technical Memo W – Site Water Management Plan
Appendix Y: Jericho Catchment Area
Appendix Z: AMEC Toxicity Protocol
Appendix AA: Final Environmental Impact Statement for the Jericho Diamond Project
Appendix BB: Supplemental Information to the Final EIS October 2003
Appendix CC: SRK Technical Memo S – Site Photos
Appendix DD: Tahera Letters to Department of Fisheries and Oceans
Appendix EE: Causeway Matrix
Appendix FF: Water Management Matrix
Appendix GG: Trade Off Matrix
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		3. Section 2.2	
4.1(a)(ii)1.c	Appendix Q: Memorandum B (Mainstream 2004)	All	DFO guidelines for water intakes
4.1(a)(ii)2.a	Appendix X: SRK Tech Memo W - Site Water Management and Appendix S – SRK Drawings	Drawings W2 & W3, Section 2.3.1	Diversion design
4.1(a)(ii)2.b	Appendix X: SRK Tech Memo W - Site Water Management	Section 2.2	Diversion design flood is 200 year event; not PMF
4.1(a)(ii)2.c	1. Appendix X: SRK Tech Memo W - Site Water Management and Appendix S – SRK Drawings. 2. Appendix R: NNLP (Mainstream 2004)	1. Drawings W2 & W3 2. Sections 2.5, 2.6, 3.4	Diversion plan for DFO
4.1(a)(ii)3	Appendix X: SRK Tech Memo W - Site Water Management	Section 2.2	Water use volumes
4.1(b)(i)	1. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area 2. Appendix S: SRK Drawings	2. Drawings P1, P3 through P8	Dam plans
4.1(b)(ii)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	Section 9.3	Dam materials
4.1(b)(iii)	1. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area and Appendix S – SRK Drawings 2. Appendix X: SRK Tech Memo W - Site Water Management	From 1: Entire report & Drawings P1 through P11 From 2: Section 3 and Drawing W1	dam and appurtenant structures design, foundations, geology, construction materials, topography, construction plan, monitoring systems; failure mode analysis; and closure
4.1(b)(iv)1.a.	1. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area 2. Appendix S: SRK 2004 Drawings	From 1: Sections 2.2, 2.6 & 5.3 and From 2: Drawings P2 through P6 From 2: Drawings G5 through G7	PKCA dam permafrost/bedrock
4.1(c)(i)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	Sections 3, 5.1 & 5.2	PKCA design plan
4.1(c)(ii)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	Section 5.2	PKCA area and storage
4.1(c)(iii)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area and Appendix S: SRK Drawings	Section 2.5, 5.3.1 & 5.3.6, Figure 5.1, and Drawings P2 through P6	PKCA plan & cross sections
4.1(c)(iv)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area and Appendix S: SRK Drawings	Section 5.3 and Drawings P3 through P6	PKCA foundation conditions
4.1(c)(v)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	All	Guidelines for Tailings Impoundment Design in the NWT
4.1(c)(vi)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	All	PKCA additional information based on the MAC Guidelines
4.1(c)(vii) 1.a	1. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area and Appendix S: SRK Drawings. 2. Appendix BB: SRK Tech Memo E - Supplemental Information on the PKCA and	From 1: Sections 6.1 & 6.2 and Drawing P7 From 2: Geotech	PKCA liner and alternatives

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	Settling Pond	Folder, Section 7.2 and Figure E.7.1	
4.1(c)(vii) 1.b	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area and Appendix S: SRK Drawings	Sections 5.2 & 10.2 and Drawing P1	PKCA centre divider dike
4.1(c)(vii) 1.c	1. Appendix X: SRK Tech Memo W - Site Water Management 2. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	From 1: Section 3.2 From 2: Sections 8, 10.2 & 10.3	PKCA water management
4.1(c)(vii) 1.d	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	Section 10.1	PKCA sediment deposition
4.1(c)(vii) 2.	1. Appendix X: SRK Tech Memo W - Site Water Management 2. Appendix K: AMEC Spray Irrigation	From 1: Sections 2.7 & 3.4 From 2: All	PKCA other effluent options
4.1(d)(i)	Appendix X: SRK Tech Memo W - Site Water Management and Appendix S: SRK Drawings	Section 2.7 & Drawing W2	Plan and sections of water crossings (for C1 Crossing mainly)
4.1(d)(ii)	Appendix X: SRK Tech Memo W - Site Water Management and Appendix S: SRK Drawings	Drawing W2	Crossings existing conditions (for C1 Crossing)
4.1(d)(iii)	Appendix BB: SRK Tech Memo C - Supplemental Climate and Hydrology Data	Air Quality Folder, Section 3 and Figure C.17 & C.18	Crossings flow data (for Stream C1)
4.1(e)(i)	1. Appendix I: AMEC Summary Monitoring Report 2. Appendix X: SRK Tech Memo W - Site Water Management	From 1: 4 From 2: Section 4	Monitoring and mitigation wrt surface drainage
4.1(e)(ii)	Appendix X: SRK Tech Memo W - Site Water Management	All	Additional NWB water crossings information
4.1(e)(iii) 1.a	Appendix M: AMEC Winter Road Water Withdrawal	All	Winter road water use
4.1(e)(iii) 2.	Appendix J: AMEC Spill and Emergency Response Plan, RTL Trucking Spill Plan	Appendix 5.1	Winter road spill contingency
4.1(e)(iii) 3	Appendix J: AMEC Spill and Emergency Response Plan, RTL Trucking Spill Plan	Appendix 5.1	Winter road materials handling
4.1(f)(i)	1. Appendix F: AMEC Hazardous Materials Management Plan 2. Appendix C: AMEC Ammonium Nitrate and Explosives Management Plan 3. Appendix G: AMEC Landfarm Management Plan 4. Appendix H: AMEC Landfill Management Plan 5. Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan	From 1 to 4: All From 5: Sections 3.2 and 3.3	Wastes and chemicals description
4.1(f)(ii)	Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan	Sections 2.5 and 3.1	Revision of waste volumes

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4.1(f)(iii) 1.a.	Appendix X: SRK Tech Memo W - Site Water Management	Tables W2 & W3	Open pit water volume
4.1(f)(iii) 1.b.	1. Appendix AA: FEIS (P&E 2002); 2. Appendix O: Technical Memorandum: Blast zone effects (SRK 2004)	1. Appendix B, B.2.1, Attachment 4.1, Section 3.2; 2. All	Blast zone effects on fish
4.1(f)(iii) 2.a.	1. Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan 2. Appendix S: SRK 2004 Drawings	From 1: Sections 2.3, 2.3 & 4.2 and Drawings M1 & M2 From 2: Drawings G5 through G7	Geotech/geothermal conditions of ponds, ditches, foundations
4.1(f)(iii) 2.b.	Appendix X: SRK Tech Memo W - Site Water Management	Tables W2 & W3	Surface runoff volumes and concentrations
4.1(f)(iii) 2.c.	Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan	Section 5.3.1	Dewater and disposal of site runoff (for coarse PK stockpile area)
4.1(f)(iii) 3.	Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan	Section 3.3	Waste rock characterization
4.1(f)(iii) 4.	Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area	Section 3.1.2	Tailings characterization
4.1(f)(iii) 5.	1. Appendix AA: Tahera Project Description 2. Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area	From 1: Appendix 2, A.1, Section 6.0 From 2: Section 3.1.1	Mill [sic] operations characteristics
4.1(f)(iii) 6.a.	Appendix D: AMEC Borrow Management Plan	3.1	Borrow water management
4.1(f)(iii) 6.b.	Appendix D: AMEC Borrow Management Plan	2.3	Granular requirements
4.1(g)(i)	1. Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan 2. Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area 3. Appendix S: SRK 2004 Drawings	From 1: Sections 2.5, 3.1, 4.1 & 4.2 and Drawings M1 & M2 From 2: Sections 3.1.1, 5.1, 5.2, 5.3 and Drawings P2 through P6 From 3: Drawings G5 through G7	Deposit of waste
4.1(g)(ii)	1. Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan 2. Appendix W: SRK Technical Memorandum P - Design of the Processed	From 1: Section 3.3 From 2: Section 3.1.2	Waste constituents

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	Kimberlite Containment Area		
4.1(g)(iii)	1. Appendix X: SRK Tech Memo W - Site Water Management 2. Appendix K: AMEC Spray Irrigation	From 1: Sections 2.7 & 3.4 From 2: All	Waste storage and treatment
4.1(g)(iv)	Appendix U: SRK Technical Memorandum N	All	Receiving water effects
4.1(g)(v)1.a	Appendix H: AMEC Landfill Management Plan	5.2	Domestic waste disposal
4.1(g)(v)1.b	Appendix G: AMEC Landfarm Management Plan Appendix H: AMEC Landfill Management Plan	2.0 3.0	Construction
4.1(g)(v)1.c	Appendix H: AMEC Landfill Management Plan	4.1	Types and quantities of wastes
4.1(g)(v)1.d	Appendix G: AMEC Landfarm Management Plan Appendix H: AMEC Landfill Management Plan	2.0 3.0	Location
4.1(g)(v)1.e	Appendix G: AMEC Landfarm Management Plan	4.0	Remediation
4.1(g)(v)2.a	Appendix L: AMEC Waste Water Treatment Plant Operations Plan	All	STP plan
4.1(g)(v)2.b	Appendix L: AMEC Waste Water Treatment Plant Operations Plan	2.0	STP efficiency
4.1(g)(v)2.c	Appendix L: AMEC Waste Water Treatment Plant Operations Plan	1.0	STP design
4.1(g)(v)2.d	Not applicable to the methods proposed – see Appendix L: Waste Water Treatment Plan	All	Chlorine concentration
4.1(g)(v)2.e	Appendix L: AMEC Waste Water Treatment Plant Operations Plan	2.0	BOD, TSS
4.1(h)(i)	Appendix F: AMEC Hazardous Materials Management Plan	All	Hazardous materials management plan
4.1(h)(ii)	Appendix F: AMEC Hazardous Materials Management Plan	All	Consider GN guidelines for hazardous wastes
4.1(h)(iii)	Appendix J: AMEC Spill Prevention and Emergency Response Plan	All	Spill clean up
4.1(h)(iv)	Appendix J: AMEC Spill Prevention and Emergency Response Plan AMEC Landfarm Management Plan	4.2 4.3	Reporting protocol
4.1(h)(v)	Appendix J: AMEC Spill Prevention and Emergency Response Plan	n/a	CCME guidelines considered to be irrelevant to spills
4.1(h)(vi)	Appendix F: AMEC Hazardous Materials Management Plan	Attachment 2.1	Detailed plans for fuel storage
4.1(h)(vii)1.	1. Appendix F: AMEC Hazardous Materials Management Plan 2. Appendix C: AMEC Ammonium Nitrate and Explosives Management Plan	1. Table 2-1 2. Table 4-1	Hazardous materials list
4.1(h)(vii)2.	Appendix J: AMEC Spill Prevention and Emergency Response Plan	All	Specific spill contingency plans
4.1(h)(vii)3.	Appendix J: AMEC Spill Prevention and Emergency Response Plan	All	Distribute spill plan—will occur once accepted by NWB
4.1(i)(i)	Appendix A: AMEC Abandonment and Restoration Plan	All	Conform to NWB guidelines
4.1(i)(ii)	Appendix A: AMEC Abandonment and Restoration Plan Appendix DD: Letter submitted to Fisheries	1. All 2. All	Conform to INAC/DFO guidelines

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	and Oceans Canada, June 2004		
4.1(i)(iii)	1. Appendix A: AMEC Abandonment and Restoration Plan 2. Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area	From 1: All From 2: Section 13.2	Closure stability
4.1(i)(iv)1.a.	Appendix A: AMEC Abandonment and Restoration Plan	Appendix B	Pit pond closure water quality
4.1(i)(iv)2.	Appendix A: AMEC Abandonment and Restoration Plan	Appendix A	Diversion channel contingency reclamation measures
4.1(i)(iv)3.	Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area	Section 13.6	PKCA freeze back
4.1(i)(iv)4.	1. Appendix A: AMEC Abandonment and Restoration Plan 2. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	From 1: 5.3.3 From 2: Section 13	PKCA closure details
4.1(i)(iv)5.	1. Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area 2. Appendix U: SRK Technical Memorandum N	1: Section 3.1.2 2: 2.1.2	PK final tailings geochemistry
4.1(i)(iv)6.a.	Appendix A: AMEC Abandonment and Restoration Plan	4.0	Revegetation details
4.1(i)(iv)7.	1. Appendix A: AMEC Abandonment and Restoration Plan 2. Appendix T: SRK Technical Memorandum M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan	From 1: Section 5.4.2 From 2: Section 6	Waste dump contouring
4.1(i)(iv)8.	Appendix A: AMEC Abandonment and Restoration Plan	Section 5.4	Progressive reclamation
4.1(j)(i)	Appendix A: AMEC Abandonment and Restoration Plan	Appendix C	Financial security
4.1(j)(ii)	Appendix A: AMEC Abandonment and Restoration Plan	Appendix C	Other security
4.1(j)(iii)	Summary Report	Section 7.5	Other environmental insurance
4.1(j)(iv)	Appendix A: AMEC Abandonment and Restoration Plan	Appendix C	Development, operation and closure costs
4.1(j)(v)	Summary Report	Section 10.1	Capital costs
4.1(j)(vi)	Appendix A: AMEC Abandonment and Restoration Plan	Appendix D	3 rd party estimate
4.2(a)(i)1.	Appendix AA: Baseline Summary Report	Appendix B, B.1.1, Section 6.0	Baseline water quality
4.2(a)(i)2.	Appendix BB: SRK Technical Memorandum B –Supplemental Permafrost Data	Geotech Folder, All	Baseline permafrost data
4.2(a)(ii) 1.	Appendix BB: Pilot AEMP (RL&L 2001) AEMP (Mainstream and AMEC 2004)	Aquatics Studies Folder, All	Pre-impact aquatic monitoring
4.2(a)(ii) 2.	Appendix I: AMEC Operational Monitoring Summary Appendix N: AEMP (Mainstream and AMEC 2004);	5.1 Section 3.7	Winter oxygen/benthic macroinvertebrate monitoring
4.2(a)(ii) 3.	Appendix R: NNLP (Mainstream 2004)	Section 5.0	Effectiveness of baseline data for no net loss

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4.2(a)(ii) 4.	Appendix I: AMEC Operational Monitoring Summary	3.0	Operational hydrology monitoring
4.2(b)(i)	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	Section 12	North dam failure
4.2(b)(ii)	Appendix X: SRK Tech Memo W - Site Water Management	Section 2.2	Stream C1 diversion failure
4.2(b)(iii)	Appendix W: SRK Technical Memorandum P - Design of the Processed Kimberlite Containment Area	Section 3.1.2	PK components potentially harmful to wildlife
4.2(c)(i)	Appendix R: NNLP (Mainstream 2004b)	Section 5.0	Aquatic effects of fish out of Long Lake
4.2(c)(ii)	1. Appendix AA: FEIS (P&E 2002); 2. Appendix O: Technical Memorandum: Blast zone effects. (SRK 2004b)	1: Appendix B, B.2.3, Attachment 4.1, Section 3.2; 2: All	Explosives use guidelines
4.2(d)(i) 1.	Appendix N: AEMP (Mainstream and AMEC 2004) Appendix V: SRK Tech Memo O – Proposed Discharge Limits	Section 2.0 All	Water quality monitoring and Proposed Discharge Limits
4.2(d)(i) 2.	Appendix U: SRK Tech Memo N Est. of Receiving Water Quality Appendix V: SRK Tech O – Proposed Discharge Limits	Appendix N5 All	Receiving Water TDS concentration, proposed limits
4.3(a)(i) 1.	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	All	Mitigation of PK discharge
4.3(b)(i) 1.	Appendix X: SRK Tech Memo W - Site Water Management	Section 2 & Drawings W1 through W6	Water management design
4.3(b)(i) 2.	Appendix X: SRK Tech Memo W - Site Water Management	Section 3	Water balance analysis
4.3(b)(i)3.	Appendix X: SRK Tech Memo W - Site Water Management	Section 3	Dilution modelling
4.3(b)(i)4.	1. Appendix X: SRK Tech Memo W - Site Water Management and Appendix S: SRK Drawings 2. Appendix R: NNLP, (Mainstream 2004b)	From 1: Section 2.3.1 & Drawings W2 & W3 From 2: Sections 2.5, 2.6, 3.4	Fish enhancement of C1 diversion
4.3(b)(i)5.	Appendix X: SRK Tech Memo W - Site Water Management	Section 3	Refine water balance
4.3(b)(i)6.(a)	1. Appendix X: SRK Tech Memo W - Site Water Management 2. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area 3. Appendix K: AMEC Spray Irrigation	From 1: Sections 2.7 & 3.4 From 2: Section 10.2 From 3: Appendix K	Treatment optimization
4.3(b)(i)6.(b)	Appendix FF: Trade-off Matrix	All	Scenario matrix for water management
4.3(b)(i)6.(c)	Summary Report	Section 3.1.5	Metals removal treatment
4.3(b)(i)6.(d)	Appendix GG: Trade-off Matrix	All	Environmental cost/benefits of treatment options
4.3(b)(i)7.	Appendix BB: Geotechnical Folder, SRK Tech Memo I: Estimates of Source Concentrations	5.3, pg.18	Ice as contaminant source

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4.3(b)(i) 8.	Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	Section 6	Long term permafrost degradation mitigation
4.3(b)(i) 9.	1. Appendix BB: Geotechnical Folder, SRK Tech Memo K - Supplemental Information on Closure Plan 2. Appendix A: AMEC Abandonment and Restoration Plan	1. Section 4 2. Section 5.2.2	Open pit wall stability mitigation
4.3(b)(i) 10.	Appendix I: AMEC Operational Monitoring Summary	5.2.3	Long-term effects of sedimentation mitigation
4.3(b)(i) 11.	Appendix X: SRK Tech Memo W - Site Water Management	Section 3., Table W2 & Figure W12	PKCA water balance
4.3(b)(i) 12	Appendix X: SRK Tech Memo W - Site Water Management	Section 4	PKCA source monitoring
4.3(b)(i) 13.	Appendix X: SRK Tech Memo W - Site Water Management	All	Causeway mitigation
4.3(b)(i) 14.	Appendix X: SRK Tech Memo W - Site Water Management	All	Stream diversion mitigation
4.3(c)	Appendix J: AMEC Spill Prevention and Emergency Response Plan	All	Spill contingency plan
4.3(d)(i)	Appendix N: AEMP (Mainstream and AMEC 2004)	2.1.5, 2.1.7, 2.2.5, 2.2.7, 3.9, 4.5	QA/QC
4.3(d)(ii)	Appendix N: AEMP (Mainstream and AMEC 2004)	2.1.1	Water quality sampling analyses
4.3(e)(i)	Appendix H: AMEC Landfill Management Plan	2.0	GN waste management policies and regulations
4.3(e)(ii)	See 4.1(g), above		Deposit of waste
4.3(e)(iii)	1. Appendix G: AMEC Landfill Management Plan 2. Appendix H: AMEC Landfarm Management Plan	1: 5.0 2: 4.0	Control impacts from wastes
4.3(e)(iv)	N/A		Not accurately predictable
4.3(e)(v)	Appendix H: AMEC Landfill Management Plan	5.2	Ash dust control
4.3(e)(vi)	Appendix H: AMEC Landfill Management Plan	4.1	Disposal methods for non-combustibles
4.4(a)(i)	Summary Report	Section 9.1	Compensation for use of water and deposit of waste
4.4(a)(ii)1.	Appendix R: NNLP (Mainstream 2004b)	Section 3.0, Tables 3.2, 3.4, 3.8, 3.13, Appendices C1 to C4	HADD area
4.4(a)(ii)2.	Appendix R: NNLP (Mainstream 2004b)	Section 3.0, Appendices B1 to B4	HADD area quality
4.4(a)(ii)3.	Appendix R: NNLP (Mainstream 2004b)	Section 3.0, Tables 3.2 and 3.13 Section 4.0, Tables 4.2 and 4.3, Appendices D1 and D2.	HADD mitigation
4.4(a)(ii)4.	Appendix R: NNLP (Mainstream 2004b)	Section 5.0	DFO monitoring
4.4(a)(iii)	Summary Report	Section 9.1	Article 20 water compensation

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4.4(a)(iv)	Summary Report	Section 9.1	Water use and disposal of waste into water
4.5(a)(i)(1)a.	Appendix I: AMEC Operational Monitoring Summary	3.0	Additional stream flow gauging stations
4.5(a)(i)(1)b.	Appendix I: AMEC Operational Monitoring Summary	3.0	Additional stream flow gauging station at outlet from Carat Lake
4.5(a)(i)(1)c.	1. Appendix X: SRK Tech Memo W - Site Water Management 2. Appendix BB: SRK Tech Memo C - Supplemental Climate and Hydrology Data 3. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area	From 1: Section 3.3.1 From 2: Geotech Folder, Section 3 From 3: 10.2.2	Stream C3 flow regimes
4.5(a)(i)(2)	Appendix N: AEMP (Mainstream and AMEC 2004)	All	AEM Program
4.5(a)(i)(3)	Appendix N: AEMP (Mainstream and AMEC 2004)	Table 2.2, 3.4, 4.1	Operational control lakes and streams
4.5(a)(i)(4)	Appendix Z: AMEC Toxicity Protocols	All	Non-chronic toxicity testing at last point of effluent control
4.5(a)(i)(5)	1. Appendix U: SRK Technical Memorandum N 2. Appendix Z: AMEC Toxicity Protocols	1: All 2: All	Mixing zones Acute and chronic toxicity assessment
4.5(a)(i)(6)	Appendix N: AEMP (Mainstream and AMEC 2004)	All	AEMP plan expert advice
4.5(b)(i)1(a)	1. Appendix T: SRK Tech Memo M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan 2. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area 3. Appendix X: SRK Tech Memo W - Site Water Management	From 1: Sections 4.4, 8.4 & 8.5 From 2: Sections 6.5, 6.6 & 10.4 From 3: Sections 2.3.1, 3.3.1 & 4	Inspection and stability monitoring
4.5(b)(i)2(a)	1. Appendix T: SRK Tech Memo M - Waste Rock, Overburden, Low Grade Ore, and Coarse Processed Kimberlite Management Plan 2. Appendix W: SRK Tech Memo P - Design of the Processed Kimberlite Containment Area 3. Appendix X: SRK Tech Memo W - Site Water Management	From 1: Sections 4.4, 8.4 & 8.5 From 2: Sections 6.5, 6.6 & 10.4 From 3: Sections 2.3.1, 3.3.1 & 4	Stability monitoring program
4.5(b)(i)3	Appendix X: SRK Tech Memo W - Site Water Management	Sections 2.2 through 2.4 & Drawing W1	Runoff management
4.5(c)(i)	Considered as part of preparation of reports		Guide to Management of Tailings Facilities re: water quality
4.5(c)(ii)1.(a)	Appendix U: SRK Technical Memorandum N	All	Dilution modelling
4.5(c)(ii)1.(b)	Appendix U: SRK Technical Memorandum N	All	Dilution modelling
4.5(c)(ii)1.(c)	1. Appendix U: SRK Technical Memorandum N 2. Appendix N: AEMP (Mainstream and AMEC 2004)	All All	Dilution modelling Receiving environment monitoring
4.5(c)(ii) 1.(d)	Appendix U: SRK Technical Memorandum N	Appendix N1	Effects of TDS
4.5(c)(ii) 2.(a)	Appendix N: AEMP (Mainstream and AMEC 2004)	Tables 2.2 and 4.1	SNP table

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Table 3.1 (from Appendix W): Annual Water Monthly Percentages Release Rates

	Monthly % of Annual Flow			
	Regional Analysis	Water Balance Model	Releases at	
			Point Where PKCA Discharges to Stream C3 (Downstream toe of West Dam)	Mouth of Stream C3
May	3%	4%	0%	1%
June	65%	56%	62%	61%
July	11%	15%	15%	15%
August	8%	17%	15%	16%
Sept	13%	8%	8%	7%

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Parameter	Aquatic Threshold	Derivation
Major Ions		
TDS	400 mg/L	Proposed Site Specific Objective (see Attachment N5 of Technical Memorandum N).
chloride	150 mg/L	B.C. chronic aquatic life guideline (BCMWWLAP, 2003)
Nutrients		
ammonia	0.59 mg/L	CCME (1999)**, assumes total ammonia. (Concentrations in N equivalents)
nitrite	0.25 mg/L (at chloride concentrations of >20 mg/L)	Proposed Site Specific Objective – see Attachment O1. The proposed objective is linked to chloride concentrations. Chloride concentrations of 24 to 48 mg/L are predicted for the edge of the mixing zone, assuming 10 to 20 times dilution. (Concentrations in N equivalents)
nitrate	3 mg/L*	CCME (1999), (Concentrations in N equivalents)
Total Metals		
aluminum	0.16 mg/L	Proposed Site Specific Objective – see Attachment O1.
arsenic	0.005 mg/L	CCME (1999)
cadmium	0.00017 (at a hardness of 100 mg/L)	Proposed Site Specific Objective – see Attachment O1. The proposed objective is linked to hardness. A hardness of 100 mg CaCO3 eq/L is predicted for the edge of the mixing zone.
chromium	0.0089 mg/L	CCME (1999)
copper	0.004 mg/L	Proposed Site Specific Objective – see Attachment O1.
lead	0.001 mg/L	CCME (1999)
molybdenum	0.073 mg/L	CCME (1999)
nickel	0.025 mg/L	CCME (1999)
uranium***	0.02 mg/L	CCME (1999)

Table 6-1: Monitoring Summary (From Appendix I Operational Monitoring Summary)

Category	Parameters	Location	Frequency	Mining Phase
Climate ¹	wind speed @ 10 m	airstrip	continuous	construction and operation
	wind direction @ 10 m	airstrip	continuous	
	sigma theta ²	calculated	continuous	
	temperature @ 3 m &10 m	airstrip	continuous	
	relative humidity @ 3 m	airstrip	continuous	
	net radiation @ 3 m	airstrip	continuous	
	precipitation (tipping bucket; summer)	airstrip	summer continuous	
Air Quality	particulate matter (PM-10, PM-2.5) ³	between open pit and plant At exploration camp	continuous	operation
	lichen metal concentration ⁴	eight stations nearfield and farfield	pre-start up and every 3 years after until closure	construction, operation
	vegetation transects ⁵	at airstrip and near open pit	pre-start up and every 3 years after until closure	construction, operation
PKCA Discharge Volume	Rate and total volume	PKCA sed pond dam	continuous while discharging	operation
Carat Lake Outlet Discharge	height of outlet stream	outlet to Carat Lake	continuous during open water	operation, closure
Stream C1 Discharge	stream height calibrated to discharge	energy dissipation pool 2	continuous during open water	construction, operation, closure
Site Monitoring	water quality and quantity	ditches and ponds downslope for waste and ore handling facilities	monthly during open water	operation, closure
		pit sump		
		process plant supernatant		
		treated sewage effluent		
		PKCA pond water		
		PKCA discharge		
	solids geochemistry	waste rock: granite/granodiorite, pegmatite, diabase, waste kimberlite	each blast; every other blast for the last 3 years of mining	operation
		coarse and fine PK	once every two weeks for 1 st year; monthly thereafter	operation
	ground ice chemistry	open pit	as encountered	operation
	thermal monitoring	waste rock dump, coarse PK, dams	continuous	operation
visual inspection	dams, ponds, ditches, waste dumps, stockpiles	daily as required	operation	
Receiving Water Chemistry	low level metals, nutrients, pH (field/lab), temperature (field), TOC ⁶	upstream control, downstream control, nearfield, farfield; Jericho and Lynne Lake drainages ⁷	construction and operation: monthly, except summer for streams. Closure: periodically ⁸	construction, operation, closure
Receiving Sediment Chemistry	low level metals, nutrients, TOC, particle size ⁹	Control, C3, Carat, Jericho, d/s Jericho Lakes ⁷	pre-construction and once every 3 years until closure	pre-construction, operation
Aquatic Effects	periphyton: biomass (Chla), abundance, species diversity	upstream, downstream controls; nearfield, farfield ¹⁰	summer/annual	pre-construction, operation
	benthic invertebrates: abundance; species diversity		spring/annual	

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Water Quality Parameter	Detection Limits (mg/L or parameter units)	Water Quality Parameter	Detection Limits (mg/L or parameter units)
Physical Tests		Total & Dissolved Metals	
Conductivity (umhos/cm)	2	Cobalt (Co)	0.0001
Hardness CaCO ₃	0.05	Copper (Cu)	0.0001
pH	0.01	Iron (Fe)	0.03
Total Suspended Solids	3	Lead (Pb)	0.00005
Total Dissolved Solids	3	Lithium (Li)	0.001
Dissolved Anions		Magnesium (Mg)	0.05
Alkalinity-Total CaCO ₃	1	Manganese (Mn)	0.00005
Chloride Cl	0.5	Mercury (Hg)	0.00005
Sulphate SO ₄	1	Molybdenum (Mo)	0.00005
Nutrients		Nickel (Ni)	0.0001
Nitrate (NO ₃)	0.005	Phosphorus (P)	0.3
Nitrite (NO ₂)	0.002	Potassium (K)	2
Ammonia (NH ₃)	0.005	Selenium (Se)	0.001
Total Dissolved Phosphorus	0.001	Silicon (Si)	0.05
Total Phosphorus	0.001	Silver (Ag)	0.00001
Total & Dissolved Metals		Sodium (Na)	2
Aluminum (Al)	0.001	Strontium (Sr)	0.0001
Antimony (Sb)	0.00005	Thallium (Tl)	0.00005
Arsenic (As)	0.0001	Tin (Sn)	0.0001
Barium (Ba)	0.00005	Titanium (Ti)	0.01
Beryllium (Be)	0.0005	Uranium (U)	0.001
Bismuth (Bi)	0.0005	Vanadium (Va)	0.001
Boron (B)	0.001	Zinc (Zn)	0.001
Cadmium (Cd)	0.00005	Organic Parameters	
Calcium (Ca)	0.05	Total Organic Carbon (TOC)	0.01
Chromium (Cr)	0.0005		

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