

P.O. Box 119
GJOA HAVEN, NU X0E 1J0
TEL: (867) 360-6338
Fax: (867) 360-6369
KATIMAYINGI

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN

WATER LICENCE APPLICATION FORM

Application for: (check one)

XX New ☐ Amendment ☐ Renewal ☐ Assignment

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE Hope Bay Joint Venture (Miramar Hope Bay Ltd./Hope Bay Gold Corp.) 311 West First Street North Vancouver, BC V7M 1B5 Phone: 604-985-2572 Fax: 604-980-0731 Cell: 780-975-2550 e-mail: hwilson@miramarmining.com hugh_r.Wilson@hotmail.com		2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) SAME AS # 1 Phone: _____ Fax: _____ e-mail: _____							
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking) Doris Lake, Hope Bay belt Latitude: 68 degrees 09 Minutes North Longitude: 106 degrees 40 Minutes West NTS Map No. <u>77A/3</u> Scale									
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) To develop and operate a small gold mine that will mine and process approximately 475,000 tonnes of ore and produce approximately 270,000 ounces of gold over a 30 month period.									
5. TYPE OF UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in A bold@) <table><tr><td><input type="checkbox"/> Industrial</td><td><input type="checkbox"/> Remote/Tourism Camps</td></tr><tr><td>XX Mine Development</td><td><input type="checkbox"/> Municipal</td></tr><tr><td><input type="checkbox"/> Advanced Exploration</td><td><input type="checkbox"/> Power</td></tr><tr><td><input type="checkbox"/> Exploratory Drilling</td><td><input type="checkbox"/> Other (describe): _____</td></tr></table>		<input type="checkbox"/> Industrial	<input type="checkbox"/> Remote/Tourism Camps	XX Mine Development	<input type="checkbox"/> Municipal	<input type="checkbox"/> Advanced Exploration	<input type="checkbox"/> Power	<input type="checkbox"/> Exploratory Drilling	<input type="checkbox"/> Other (describe): _____
<input type="checkbox"/> Industrial	<input type="checkbox"/> Remote/Tourism Camps								
XX Mine Development	<input type="checkbox"/> Municipal								
<input type="checkbox"/> Advanced Exploration	<input type="checkbox"/> Power								
<input type="checkbox"/> Exploratory Drilling	<input type="checkbox"/> Other (describe): _____								

6. **WATER USE**

XX To obtain water

☐ To modify the bed or bank of a watercourse

☐ To alter the flow of, or store, water

XX To cross a watercourse

☐ To divert a watercourse

☐ Flood control

XX Other (describe): To manage the water in a tailings containment area

7. **QUANTITY OF WATER INVOLVED** (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

Subject to final engineering and design:

- Potable water needs will be approximately 17,500 cubic meters / year
- Net process water demand will be approximately 400,000 cubic meters / year

8. **WASTE** (for each type of waste describe: composition, quantity, methods of treatment and disposal, etc.)

XX Sewage

XX Solid Waste

☐ Hazardous

XX Bulky Items/Scrap Metal

XX Waste oil

XX Greywater

XX Sludges

☐ Other (describe): _____

**SEE QUESTIONNAIRE AND PRELIMINARY
PROJECT DESCRIPTION FOR DETAILS**

9. **PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING** (give name, mailing address and location; attach if necessary)

The Doris Hinge Project activities are located entirely on Inuit Owned Surface and Sub-surface Land (IOL block BB60.)

DIAND ☐ Yes ☐ No If no, date expected _____

Regional Inuit Association ☐ Yes ☐ No If no, date expected _____

Commissioner ☐ Yes ☐ No If no, date expected _____

10. **PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** (direct, indirect, cumulative impacts, etc.)

Please see Preliminary Project Description provided.

11 **INUIT WATER RIGHTS**

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

The Project is located on Inuit Owned Lands and so the use of water will be subject to Article 20 of the NLCA (Inuit Water Rights). Please see Preliminary Project Description provided.

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

This will be provided with a final Project Description

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

Please see Appendix 3 in Preliminary Project Description provided.

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ___ No If no, date expected

Inuktitut/English Summary of Project ☒ Yes ___ No If no, date expected Please see Preliminary Project Description provided.

Application fee \$30.00 (c/o of Receiver General for Canada) ☒ Yes ___ No If no, date expected

15. PROPOSED TIME SCHEDULE

___ Annual (or) ☒ Multi Year

Start Date: September 1, 2003

Completion Date: September 30, 2007

Hugh R. Wilson

Manager, Environmental Affairs

Name (Print)

Title (Print)


Signature

March 20, 2002

Date



P.O. Box 119
GJOA HAVEN, NT X0E 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

**Water Licence Application
Supplementary Questionnaire
for Mine Development**

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SECTION 1 :

GENERAL

1. Applicant

Hope Bay Joint Venture
(Miramar Hope Bay Ltd./Hope Bay Gold Corp.)
311 West First Street
North Vancouver, BC V7M 1B5

Phone: 604-985-2572 Fax: 604-980-0731
e-mail: hwilson@miramarmining.com
hugh r Wilson@hotmail.com

Corporate Address (if different from above):

(Corporate Office address)

(Telephone number)

(Fax)

(E-Mail)

Project Name **DORIS HINGE PROJECT**

Location

Closest Community **Umingmaktok**

Latitude/Longitude **68 deg. 09 min N 106 deg 40 min W**

Show the location of the project on a general location map (eg: 1:1,000,000)

2. Environmental Manager **Hugh R. Wilson** **604 985 2572**
(Name) (Telephone No.)

or Project Manager _____
(Title)

3. Indicate the status of the mine or mill on the date of application. (Check the appropriate space.) Indicate schedule or time table of project activities.

Design _____

Under construction	_____
In operation	_____
Suspended	_____
Care and Maintenance	_____
Abandoned	_____

4. If a change in the status of the mine or mill is expected, indicate the nature and anticipated date of such change.

Doris Hinge Project is in the feasibility study stage.

5. Indicate the proposed schedule for the Mine/Mill operating schedule.

Hours per week	<u>168</u>
Days per week	<u>7</u>
Weeks per year	<u>52</u>
Number of employees	<u>70-80</u>
Number of Inuit employees	<u>as many as possible who are trained and capable of performing the necessary duties</u>

6. How will the project effect the traditional uses on Inuit Owned Lands?

No effect

7. Have the Elders been consulted on effects to the traditional use on Inuit Owned Land? If so, list them. If not, why not?

Consultation with Bathurst Inlet, Umingmaktok and Cambridge Bay has been undertaken in 2000 and 2001 and will continue as the project proceeds to production.

8. Has the proponent consulted Inuit Organization in the Area? If so, list them.

The Doris Hinge Project is located on Inuit Owned Lands. Consultation has been ongoing with KIA, NTI, NWB, NIRB, NPC, CLARC'S and KHTA.

9. Has the proponent consulted surrounding communities on traditional water use areas? If so, list them. If not, why not?

This has been part of ongoing consultations, visits to Bathurst Inlet and Umingmaktok are carried out annually. Project updates with KIA Board at their annual Board meetings.

10. Attach a detailed location map (1:50,000) drawn to scale showing all on site and off site facilities and activities. Show the relative locations of the (proposed) locations of the

mine, mill, water treatment facilities, sewage and solid waste facilities, and tailings containment areas. The plan should include the water intake and pumphouse, fuel and chemical storage facilities, any existing or proposed concentrate, ore and waste rock storage piles, any existing and proposed drainage controls, piping distribution systems, gas, electric and water utility route locations, and transportation access routes around the site. The map also should include elevation contours, water bodies and an indication of drainage patterns for the area.

Please see Preliminary Project Description provided.

11. If applicable, provide a brief history of property development which took place before the present company gained control of the site. Include shafts, adits, mills (give rated capacity, etc.) waste dumps, chemical storage areas, tailings disposal areas and effluent discharge locations. Make references to the detailed map.

Please see Preliminary Project Description provided.

12. Give a short description of the proposed or current freshwater intake facility, the type and operating capacity of the pumps used, and the intake screen size.

Final design and engineering will be done after the feasibility study has been completed, however; it is expected that the pumphouse and intakes would be consistent with other installations in the belt or at other similar operations in the West Kitikmeot region.

13. At the rate of intended water usage for the exploration activity, explain water balance inputs and outputs in terms of estimated maximum draw down and recharge capability of the water source from fresh water will be drawn.

Please see Figure 8 in Preliminary Project Description for water balance.

14. Will any work be done that penetrates regions of permafrost ?
Yes X No

15. If "YES" above, is the permafrost continuous or discontinuous ?

continuous

16. Were (or will) any old workings or water bodies (be) dewatered in order to conduct the exploration activity ?
Yes _____ No X

17. If "YES" above, indicate the name of the water body, the total volume of water to be discharged and the chemical characteristics of the water. Also included should be the receiving water body and expected schedule of the dewatering.

18. Was (or will) the above discharge (be) treated chemically ?
Yes _____ No NOT APPLICABLE AS #16 WAS "NO"

19. If "YES" above, describe the applied treatment.

NOT APPLICABLE AS #16 WAS "NO"

SECTION 2 :

GEOLOGY AND MINERALOGY

20. Physiography; Provide an analysis and interpretation of the geologic and hydrologic environment in the immediate vicinity of the mine or plant. The investigation should extend from ground surface downward to the base of the glacial drift. Include large scale topographic map(s) covering the area where the mine, mill and waste disposal basin are (or were to be)located. The map(s) should provide information on groundwater patterns and permafrost variations in the area.

Please refer to the Preliminary Project Description provided.

21. Briefly describe the physical nature of the orebody, including known dimensions and approximate shape.

This is somewhat explained in the Preliminary Project Description and will be updated at the conclusion of feasibility study.

22. Briefly describe the host rock in the general vicinity of the orebody (from the surface to the mineralized zone.)

Please see Preliminary Project Description provided.

23. Provide a geological description of the ore minerals of the deposit.(If possible, include the percentage of metals.)

Please see Preliminary Project Description provided.

24. Describe the geochemical tests which have been (or will be) performed on the ore, host rock, and waste rock to determine their relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (ie. Static, Kinetic tests.)

Please see Preliminary Project Description provided.

SECTION 3:

THE MINE

25. Indicate the type of mining method to be used on the property:

Open Pit _____ **X**
Underground _____ **X**
Strip mining
Other mining activity
Explain:

Please see Preliminary Project Description provided.

26. Outline any possible operational changes and when that might occur. (Eg. Open pit to underground)

Please see Preliminary Project Description provided.

27. Describe the type(s) of explosives to be used in mining operations.

Premixed ANFO that will arrive on an annual sealift.

28. Indicate the number of shafts or other openings that are presently on the property. Signify whether or not the openings are presently in use. (Submit measurement in metres)
Indicate if used seasonally.

n/a

29. Are any entrances to shafts, adits, etc. below ground water level.

n/a

30. Are permafrost conditions expected?

Yes

31. Indicate the expected life of the mine.

30 months as described in the Preliminary Project Description

32. Indicate the present average rate of production from all ore sources on the property.

NO PRODUCTION AT THE SITE AT THIS TIME.

33. Indicate the expected maximum rate of production from all ore sources on the property.

Production is expected to be 600 tonnes per day as described in the attached Preliminary Project Description

34. Outline all water usage in the mine. Indicating the source and volume of water for each use.

Please see Preliminary Project Description provided.

35. Indicate the volume of natural ground water presently gaining access to the mine workings.

n/a m³/day

36. Outline methods used (planned) underground to decrease minewater flow. (For example: recycling)

No mine water flow is expected.

37. Indicate the average daily volume of water to be discharged from the mine during normal operations.

No discharge from the mine is expected, however, should it occur, water would be pumped to surface and either used in the process (if metallurgically acceptable), or pumped to the tailings containment area.

38. If a mill will be operating on the property in conjunction with mining, will all minewater (underground, open pit, etc.) be directed to the mill for reuse?

See # 37 above

39. If not, indicate the proposed point and volume of discharge for the minewater.

n/a

40. What are the chemical and physical characteristics of the preceding minewater?
n/a
41. Are there any treatment plans for minewater and will any chemicals be used in such treatment? Explain.
n/a

SECTION 4:

THE MILL (PROCESSING PLANT)

42. Attach a copy of the (proposed) mill flow sheet., Indicate the points of addition of all the various reagents (chemicals) that are (or will be) used.
43. If milling is in progress on the property at the present time, indicate the rate of milling.
X not applicable (check) OR _____ tonnes/day
44. What is the present (or proposed) maximum capacity of the mill?
600 tonnes per day
45. List the types and quantities of all reagent used in the mill process (in kg/tonne ore milled.)
To be provided on conclusion of feasibility study in Project EIS.
46. Is the (proposed) milling circuit based on autogenous grinding?
Yes _____ No **X** Partially
47. Indicate the amount(s) of concentrate(s) produced in the mill.
n/a
48. Will fresh water undergo treatment prior to use in the mill process? Explain.
n/a
49. Indicate all uses of water in the mill. Include the quantity and source of the water for each use

Please see Figure 8 in Preliminary Project Description provided.

Use	Source	Volume m ³ /day

50. Indicate the total volume of water discharged from the mill.

900-1000 cubic meters per day.

51. Of the preceding volume, what quantity is (will be) recycled to other areas on the property (mine, mill, etc.)? Indicate location of use and quantity.

All make-up water will be pumped from Tail Lake which is the tailings containment area.

52. Based on yearly production, indicate the average quantity of tailings (Dry weight) discharged from the mill.

approximately 240 000 tonnes

53. What is the average liquid-solid ratio of tailings leaving the mill?

By weight: 1:2 By volume: 2:1
Liquid: Solid Liquid: Solid

54. If applicable, identify any chemical treatment applied to the liquid phase before being discharged to the tailings area. (Attach flow sheet if available.)

All tailings containing cyanide will be processed through the cyanide destruction circuit.

55. Based on present production or bench test results, describe the chemical and physical characteristics of liquid mill wastes directed to the tailings area.

will be provided on conclusion of Feasibility Study and Project EIS

56. Provide a geochemical description of the solid fraction of the tailings.

will be provided on conclusion of Feasibility Study and Project EIS

57. Identify the current source of power production.

n/a; (3.2 mw diesel electric plant to be installed for operations)

58. At present, is the mill handling custom lots of ore from other properties (or will the mill be handling any in the future)?

n/a

59. If so, specify ore characteristics and describe any mill processes which will change as a result.

n/a

60. If tailings are being recovered in the mill or elsewhere for use as backfill etc.), indicate the quantity of solid tails (tonnes/day) recovered from the mill process.

n/a

61. Will exits be bermed to prevent spills from escaping the mill?

Please see Preliminary Project Description provided.

62. Will all sumps for process tanks have the required 110% holding capacity of the largest tank?

Yes

SECTION 5:

THE CONTAINMENT AREAS

63. Is the tailings containment area (being) designed for total containment?

Total containment of solids with reclaim water being pumped back to the mill process. It is expected that there will be an annual discharge of tailings pond water to the receiving environment.

64. Attach detailed scale plan drawings of the proposed (or present) tailings area. The drawings must include the following:

Please refer to the attached Preliminary Project Description.

- a. details of pond size and elevation;
- b. precise details of all retaining structures (length, width, height, materials of construction, etc.);

- c. details of the drainage basin, and existing and proposed drainage modification;
- d. details of all decant, siphon mechanisms etc., including water treatment plant facilities;
- e. the plan for tailings deposition and final tailings configuration;
- f. details with regard to the direction and route followed by the flow of wastes and/or waters from the ore; and
- g. indication of the distance to nearby major watercourses.

Note: Individual detailed large scale drawings of any facility (dam, decant system, ditch, dike, water treatment plant, etc.) (to be) constructed must be attached. Specific details with regard to the methods of construction, materials (to be) used, etc., are required.

65. Explain your choice of location for the tailings pond design by rationalizing rejection of other options. Consider the following criteria in your comparisons; subsurface strata, permeability, abandonment of tailings, recycling/reclaiming waters, and assessment of runoff into basins. Attach a brief summation.

Tail Lake is a small isolated lake with a correspondingly small watershed and is located close to the proposed processing facility. The watershed area of the proposed tailing containment area is 440 ha. The average depth of Tail Lake is +/- 3 metres.

66. The total area for the existing tailings basin in hectares and for any proposed tailings area is n/a; see #65 Hectares.
67. The average depth of the tailings basin is n/a; see # 65 metres.
68. Indicate the total capacity for the existing tailings area by using water balance and stage volume calculation and curves. (Attach a description of inputs and outputs along with volume calculations.)

Final engineering will be done on conclusion of Feasibility Study and will be included in Project EIS.

69. Indicate the total capacity for the proposed tailings area using water balance and stage volume calculation and curves. (Attach a description of inputs and outputs along with volume calculations.)

Final engineering will be done on conclusion of Feasibility Study and will be included in Project EIS.

70. Will the present tailings area contain the entire production from the mine-mill complex for the life of the project?

Yes

71. If "NO" above, or if production output increases tailings volumes. Indicate what plans have been made for future tailings disposal on the property.

72. Has any land in the immediate area been identified as native or crown land or withdrawn pending native claim settlement?

All lands required for the Project are Inuit Owned Lands (Block BB60)

73. Do the tailings area and all related treatment facilities lie on company held claims?

Yes

74. If not, indicate mine claim boundaries (and owners) on tailings area plan map. Also, attach a copy of all pertinent agreements signed with the owners of the claims not held by the company.

n/a

75. Will the proposed tailings area engulf or otherwise disturb any existing watercourse?

No

76. If "YES", attach all pertinent details (name of watercourse, present average flow, direction of flow, proposed diversions, etc.).

77. If any natural watercourse will gain access to the proposed tailings area, What methods will be used to decrease the amount of runoff water entering the containment area? Indicate the volume of water which will enter the tailings area from the source(s) in question and attach all pertinent details of proposed diversions.

Please see Preliminary Project Description provided.

78. Indicate on the tailings area plan drawing all sources of seepage presently encountered in the vicinity of the tailing area, the volume of each seepage flow (m3/day), and the direction of each flow.

Water balance of Tail Lake watershed to be provided in Project EIS.

79. Are the seepage flows from the property presently being treated chemically? _____ If so, describe how.

n/a

80. If NOT, explain.

n/a

81. Please attach a conceptual abandonment and restoration plan for all tailings areas being developed. Describe the measures that have been (or will be) taken to contain and stabilize the tailings area(s) against leaching and seepage after operations on the property cease.

Please see Preliminary Project Description provided.

82. Describe the proposed or present operation, maintenance and monitoring of the tailings area.

Please see Preliminary Project Description provided.

SECTION 6:

WATER TREATMENT

83. Describe the methods of chemical treatment that are presently being used and/or will be used to control the quality of the tailings effluent. Attach engineering drawings where applicable and a process flow chart. If a pilot test has been conducted please attach description of methodology and results.

Please see Preliminary Project Description provided.

84. List the names of chemicals to be used in the water treatment process.

This is subject to final engineering and will be provided in Project EIS.

85. What is the proposed or present average rate of effluent treatment of the plant (if applicable)?

This is subject to final engineering and will be provided in Project EIS.

86. What is the proposed or present maximum effluent treatment capacity of the plant (if applicable)?

This is subject to final engineering and will be provided in Project EIS.

87. Will treated effluent be discharged directly to a natural water body or will polishing or settling ponds be employed? Describe location control structures and process of water retention and transfer. Attach any relevant design drawings.

This is subject to final engineering and will be provided in Project EIS.

88. Name the first major watercourse the discharge flow enters after it leaves the area of company operations.

Doris Creek; Please see Preliminary Project Description provided.

89. In terms of rate of effluent release and volume and flushing rate of the receiving watercourse, estimate the extent of the mixing zone within the receiving waters and where background levels of constituents for that watercourse will be attained.

This is subject to final engineering and will be provided in Project EIS.

90. Describe the present (proposed from pilot tests) chemical and physical characteristics of the tailings effluent (Decant).

This is subject to final engineering and will be provided in Project EIS.

SECTION 7:

ENVIRONMENTAL MONITORING PROGRAM

91. Have elders been consulted in the establishment of the monitoring program?

This will be part of ongoing Project consultations program.

92. Has Traditional Knowledge of the area been considered?

Will be included in Project EIS.

93. Has any baseline data been collected for the main water bodies in the area prior to development?

Yes; these data will be reviewed in Project EIS.

94. If "YES" include all data gathered on the physical, biotic and chemical characteristics at each sampling location. Identify sampling location on a map.

Please see Appendix 2 in Preliminary Project Description provided.

95. Provide an inventory of hazardous materials on the property and storage locations. (Attach separate Map)

This is subject to final engineering and will be provided in Project EIS.

96. Attach the present or proposed contingency plan which describes course of action, mitigative measures and equipment available for use in the event of system failures and spills or hazardous materials.

Contingency plans will be provided with Project EIS, however; the NWB do have contingency plans on file as they relate to the current activities in the belt.

97. Provide a conceptual abandonment and restoration plan for the site, detailing the costs to carry out the plan, and a proposal for a financial assurance which covers the costs to carry out the plan.

Please see Preliminary Project Description provided.

98. Provide a detailed emergency response plan for the project.

Will be developed with Project contingency Plans and submitted in support of Project EIS.

99. Provide a description of the pollution control systems and environmental management procedures.

Will be developed with Project contingency Plans and submitted in support of Project EIS.

SECTION 8:

ENVIRONMENTAL ASSESSMENT AND SCREENING

100. Has this project ever undergone an initial environmental review, including previous owners.

No

101. Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project (e.g. wildlife, soils, air quality), i.e. in addition to water related information requested in this questionnaire?

Please see Preliminary Project Description provided. Project EIS will be developed to comply with EIS guidelines expected from NIRB.

102. Describe any cumulative impacts the project may create?

**Please see Preliminary Project Description provided;
Also to be included in Project EIS**

103. Has any meteorological data been collected at or near the site? (E.g. precipitation, evaporation, snow, wind).

- a) If so, please include the data and attach copies of reports or site titles, authors and dates.

Please see Figures 9 and 10 in Preliminary Project Description provided.

104. If no, are such studies being planned? Briefly describe the proposals.

Please see Preliminary Project Description Appendix 2 for studies completed to date that will be reviewed in preparation of Project EIS.

105. Has authorization been obtained or sought from the department of fisheries and oceans for dewatering or using any water bodies for containment of waste?

Application to DFO submitted; copy attached.

106. Please attach an outline briefly describing any options or alternatives considered or reflected for the various mine components outlined in this questionnaire (e.g. mill site, water supply sources, location for ore and waste piles).

107. Has a socio-economic impact assessment or evaluation of this project been undertaken? (This would include a review of any public concerns, and water and cultural uses of the area, implication of land claims, compensation, local employment opportunities, etc.)

Please see Preliminary Project Description provided.

108. If yes, please describe the proposal briefly.

It is expected that these issues will be negotiated in an Inuit Impact and Benefit Agreement, and it is the intention of the proponent to initiate these discussions with KIA in due course.

109. If no, is such a study being planned? Yes _____ (When) OR No

110. Does the project alter the quantity or quality or flow of waters through Inuit Owned Lands?

No

111. If yes, has the applicant entered into an agreement with the Designated Inuit Organization to pay compensation for any loss or damage that may be caused by the alteration.

112. If no compensation arrangement has been made, how will compensation be determined?



Miramar Hope Bay Ltd.

300 – 889 Harbourside Drive, North Vancouver, BC V7P 3S1
604-985-2572 fax 604-980-0731

February 8, 2005

Phillippe di Pizzo
Chief Executive Officer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, Nunavut
X0B 1J0

Dear Mr. di Pizzo:

Re: Doris North Project

In March of 2002 Miramar Hope Bay Ltd. ("Miramar") made an application (the "Application") to the Nunavut Water Board ("NWB") for a water licence for the Doris North Project in Nunavut (the "Project"). The NWB subsequently referred the Project to the Nunavut Impact Review Board (NIRB) for environmental assessment pursuant to Article 12 of the Nunavut Land Claim Agreement ("NLCA"). NIRB conducted this environmental assessment in 2003 - 2004, culminating in a series of public hearings held in the communities in July, 2004.

In its final report, NIRB indicated that Miramar had failed to provide sufficient information for the Board to complete their assessment process. NIRB indicated that there were five key deficiencies and that if these deficiencies were adequately addressed then it would be proper for Miramar to reapply to NIRB to have the environmental assessment of the Doris North Project reconsidered. Over the past months Miramar has initiated work to address each of the deficient areas identified by NIRB and is ready to re-enter the environmental assessment process. To this end Miramar has completed an updated Preliminary Project Description for its Doris North Project. The Project as described is essentially the same Project that was being reviewed by NIRB in the summer of 2004, however the proposed project schedule has been altered from that initially proposed to reflect the events of the past year and to recognize the time needed for completion of the upcoming assessment and permitting process. Other items such as the type of tailings dam construction proposed have been changed to reflect the concerns raised by NIRB in their earlier review.

As the March 2002 Water License application to the NWB remains open and in order to have NIRB proceed with a new environmental assessment, Miramar would ask that the Nunavut Water Board please formally refer the Doris North Project to NIRB for screening in accordance with Article 12 of the NLCA.

The updated Preliminary Project Description for the Doris North Project was submitted to the NIRB on February 1st. A copy will also be made available to the NWB through an FTP link to accompany this letter. If there is anything that you need from Miramar to refer the Project to NIRB or to address any other concerns respecting the Project, please do not hesitate to contact me at 1-800-663-8780.

Yours truly,

Miramar Hope Bay Ltd.

(original signed) A. David Long

Per: A. David Long

Vice President Legal

Miramar Mining Corporation

cc. Ms. Stephanie Briscoe, Executive Director, NIRB

**Water Licence Application
Supplementary Questionnaire
for Mine Development**

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SECTION 1:

GENERAL

1. Applicant

Miramar Hope Bay Limited
300 – 895 Harbourside Drive
North Vancouver, BC
Canada V7P 3S1

Phone: 604-985-2572
Fax: 604-980-0731
Email: dlong@miramarmining.com

Corporate Address (if different from above):

(Corporate Office address)

(Telephone number) (Fax)

(Email)

Project Name: **DORIS NORTH PROJECT**

Location:

Closest Community: **Umingmaktok**

Latitude/Longitude: 68 deg. 09 min N 106 deg. 40 min W

Show the location of the project on a general location map (eg: 1:1,000,000)

2. Environmental Manager: **David Long** **604-985-2572**
(Name) (Telephone No.)
- or Project Manager **Vice President Legal, Miramar Mining Corp.**
(Title)
3. Indicate the status of the mine or mill on the date of application. (Check the appropriate space.) Indicate schedule or time table of project activities.

Design ✓

Under construction	_____
In operation	_____
Suspended	_____
Care and Maintenance	_____
Abandoned	_____

4. If a change in the status of the mine or mill is expected, indicate the nature and anticipated date of such change.

Doris North Project is in the feasibility and design engineering stage

5. Indicate the proposed schedule for the Mine/Mill operating schedule:

Hours per week	<u>168</u>
Days per week	<u>7</u>
Weeks per year	<u>52</u>
Number of employees	<u>150</u>
Number of Inuit employees	<u>as many as possible who are trained and capable of performing the necessary duties</u>

6. How will the project affect the traditional uses on Inuit Owned Lands:

No effects identified to date.

7. Have the Elders been consulted on effects to the traditional use on Inuit Owned Land? If so, list them. If not, why not?

Consultation with Bathurst Inlet, Umingmaktok and Cambridge Bay was undertaken in 2000, 2001, 2002 and 2003, and will continue as the project proceeds to production.

Elders were consulted at a 3-day TK knowledge workshop held in Cambridge Bay on September of 2003 at which time the Doris North Project was the subject of discussion.

8. Has the proponent consulted Inuit Organization in the Area? If so, list them.

The Doris Hinge Project is located on Inuit Owned Lands. Consultation has been ongoing with KIA, NTI, NWB, NIRB, NPC, CLARC'S and KHTA.

9. Has the proponent consulted surrounding communities on traditional water use areas? If so, list them. If not, why not?

This has been part of ongoing consultations, visits to Bathurst Inlet and Umingmaktok are carried out annually. Project updates with KIA Board at their annual Board meetings.

A Memorandum of Agreement covering compensation for Inuit water rights was negotiated between Miramar and the KIA for the Doris North Project.

10. Attach a detailed location map (1:50,000) drawn to scale showing all on site and off site facilities and activities. Show the relative locations of the (proposed) locations of the mine, mill, water treatment facilities, sewage and solid waste facilities, and tailings containment areas. The plan should include the water intake and pumphouse, fuel and chemical storage facilities, any existing or proposed concentrate, ore and waste rock storage piles, any existing and proposed drainage controls, piping distribution systems, gas, electric and water utility route locations, and transportation access routes around the site. The map also should include elevation contours, water bodies and an indication of drainage patterns for the area.

Please see preliminary Project Description provided.

11. If applicable, provide a brief history of property development which took place before the present company gained control of the site. Include shafts, adits, mills (give rated capacity, etc.) waste dumps, chemical storage areas, tailings disposal areas and effluent discharge locations. Make references to the detailed map.

Please see Preliminary Project Description provided.

12. Give a short description of the proposed or current freshwater intake facility, the type and operating capacity of the pumps used, and the intake screen size.

Final design and engineering will be done after the feasibility study has been completed, however; it is expected that the pumphouse and intakes would be consistent with similar operations in the West Kitikmeot region.

13. At the rate of intended water usage for the exploration activity, explain water balance inputs and outputs in terms of estimated maximum drawdown and recharge capability of the water source from fresh water will be drawn.

Please see Supporting Document F4 to the November 2003 Final Environmental Impact Statement for the Doris North Project submitted to NIRB in November 2003, entitled "Doris Lake Water Level Impact Analysis".

14. Will any work be done that penetrates regions of permafrost?

Yes X No

15. If "YES" above, is the permafrost continuous or discontinuous?

continuous

16. Were (or will) any old workings or water bodies (be) dewatered in order to conduct the exploration activity?

Yes No X

17. If "YES" above, indicate the name of the water body, the total volume of water to be discharged and the chemical characteristics of the water. Also included should be the receiving water body and expected schedule of the dewatering.

18. Was (or will) the above discharge (be) treated chemically?

Yes No NOT APPLICABLE

19. If "YES" above, describe the applied treatment.

NOT APPLICABLE

SECTION 2:

GEOLOGY AND MINERALOGY

20. Physiography: Provide an analysis and interpretation of the geologic and hydrologic environment in the immediate vicinity of the mine or plant. The investigation should extend from ground surface downward to the base of the glacial drift. Include large scale topographic map(s) covering the area where the mine, mill and waste disposal basin are (or were to be) located. The map(s) should provide information on groundwater patterns and permafrost variations in the area.

Please refer to the Preliminary Project Description provided.

21. Briefly describe the physical nature of the orebody, including known dimensions and approximate shape.

Please see the Preliminary Project Description provided.

22. Briefly describe the host rock in the general vicinity of the orebody (from the surface to the mineralized zone).

Please see Preliminary Project Description provided.

23. Provide a geological description of the ore minerals of the deposit. (If possible, include the percentage of metals).

Please see Preliminary Project Description provided.

24. Describe the geochemical tests which have been (or will be) performed on the ore, host rock, and waste rock to determine their relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (i.e. Static, Kinetic tests).

Please see Preliminary Project Description provided.

SECTION 3

25. Indicate the type of mining method to be used on the property.

Open pit	_____
Underground	_____X_____
Strip Mining	_____
Other mining activity	_____
Explain:	

Please see Preliminary Project Description provided.

26. Outline any possible operational changes and when that might occur (e.g. open pit to underground).

Please see Preliminary Project Description provided.

27. Describe the type(s) of explosives to be used in mining operations.

Premixed ANFO that will arrive on an annual sealift.

28. Indicate the number of shafts or other openings that are presently on the property. Signify whether or not the openings are presently in use. (Submit measurement in metres). Indicate if used seasonally.

n/a

29. Are any entrances to shafts, adits, etc. below ground water level?

n/a

30. Are permafrost conditions expected?

Yes

31. Indicate the expected life of the mine.

24 months as described in the Preliminary Project Description.

32. Indicate the present average rate of production from all ore sources on the property.

NO PRODUCTION AT THE SITE AT THIS TIME.

33. Indicate the expected maximum rate of production from all ore sources on the property.

Production is expected to be 800 tonnes per day as described in the attached Preliminary Project Description.

34. Outline all water usage in the mine indicating the source and volume of water for each use.

Please see Preliminary Project Description provided.

35. Indicate the volume of natural ground water presently gaining access to the mine workings.

 n/a m³/day

36. Outline methods used (planned) underground to decrease minewater flow. (For example: recycling).

No mine water flow is expected.

37. Indicate the average daily volume of water to be discharged from the mine during normal operations.

No discharge from the mine is expected; however, should it occur, water would be pumped to surface and either used in the process (if metallurgically acceptable), or pumped to the tailings containment area.

38. If a mill will be operating on the property in conjunction with mining, will all minewater (underground, open pit, etc.) be directed to the mill for reuse?

See #37 above.

39. If not, indicate the proposed point and volume of discharge for the minewater.

n/a

40. What are the chemical and physical characteristics of the preceding minewater?

n/a

41. Are there any treatment plans for minewater and will any chemicals be used in such treatment? Explain.

n/a

SECTION 4:

THE MILL (PROCESSING PLANT)

42. Attach a copy of the (proposed) mill flow sheet. Indicate the points of addition of all the various reagents (chemicals) that are (or will be) used.

See attached Project Description.

43. If milling is in progress on the property at the present time, indicate the rate of milling.

 X not applicable (check) OR tonnes/day

44. What is the present (or proposed) maximum capacity of the mill?

800 tonnes per day

45. List the types and quantities of all reagent used in the mill process (in kg/tonne ore milled).

List of reagents provided in updated Project Description. Quantities being refined but available upon request.

46. Is the (proposed) milling circuit based on autogenous grinding?

Yes _____ No. _____ Partially X

SAG mill

47. Indicate the amount(s) of concentrate(s) produced in the mill.

80 TPD

48. Will fresh water undergo treatment prior to use in the mill process? Explain.

No

49. Indicate all uses of water in the mill. Include the quantity and source of the water for each use.

See Figure 2.6 in the attached updated Project Description.

Please see Figure 8 in the Preliminary Project Description provided.

Use	Source	Volume m ³ /day

50. Indicate the total volume of water discharged from the mill.

2040 cubic metres per day.

51. Of the preceding volume, what quantity is (will be) recycled to other areas on the property (mine, mill, etc.)? Indicate location of use and quantity.

Minimum of 33%. All to the mill for use in the process. Miramar hopes to increase this recycle rate.

52. Based on yearly production, indicate the average quantity of tailings (dry weight) discharged from the mill.

Approximately 240,000 tonnes

53. What is the average liquid-solid ratio of tailings leaving the mill?

By weight: $\frac{1.2}{\text{Liquid: Solid}}$ By volume: $\frac{2.1}{\text{Liquid: Solid}}$

54. If applicable, identify any chemical treatment applied to the liquid phase before being discharged to the tailings area. (Attach flow sheet if available).

All tailings containing cyanide will be processed through the cyanide destruction circuit. See Figure 2.6 in the updated Project Description.

55. Based on present production or bench test results, describe the chemical and physical characteristics of liquid mill wastes directed to the tailings area.

See updated Project Description.

56. Provide a geochemical description of the solid fraction of the tailings.

See updated Project Description.

57. Identify the current source of power production.

n/a; (4.0 mw diesel electric plant to be installed for operations)

58. At present, is the mill handling custom lots of ore from other properties (or will the mill be handling any in the future)?

n/a

59. If so, specify ore characteristics and describe any mill processes which will change as a result.

n/a

60. If tailings are being recovered in the mill or elsewhere for use as backfill, etc.) indicate the quantity of solid tails (tonnes/day) recovered from the mill process.

n/a

61. Will exits be bermed to prevent spills from escaping the mill?

Please see Preliminary Project Description provided.

62. Will all sumps for process tanks have the required 110% holding capacity of the largest tank?

Yes

SECTION 5:

THE CONTAINMENT AREAS:

63. Is the tailings containment area (being) designed for total containment?

Total containment of solids with reclaim water being pumped back to the mill process. It is expected that there will be an annual discharge of tailings pond water to the receiving environment.

64. Attach detailed scale plan drawings of the proposed (or present) tailings area. The drawings must include the following:

Please refer to the attached Preliminary Project Description.

- a. details of pond size and elevation;
 - b. precise details of all retaining structures (length, width, height, materials of construction, etc.);
 - c. details of the drainage basin, and existing and proposed drainage modification;
 - d. details of all decant, siphon mechanisms etc., including water treatment plant facilities;
 - e. the plan for tailings deposition and final tailings configuration;
 - f. details with regard to the direction and route followed by the flow of wastes and/or waters from the ore; and
 - g. indication of the distance to nearby major watercourses.
65. Explain your choice of location for the tailings pond design by rationalizing rejection of other options. Consider the following criteria in the comparisons; subsurface strata, permeability, abandonment of tailings, recycling/reclaiming waters, and assessment of runoff into basins. Attach a brief summation.

Tail Lake is a small isolated lake with a correspondingly small watershed and is located close to the proposed processing facility. The watershed area of the proposed tailing containment area is 440 ha. The average depth of Tail Lake is +/-3 metres.

66. The total area for the existing tailings basin in hectares and for any proposed tailings area is n/a; see #65 hectares.
67. The average depth of the tailings basin is n/a; see #65 metres.
68. Indicate the total capacity for the existing tailings area by using water balance and stage volume calculation and curves. (Attach a description of inputs and outputs along with volume calculations).

Final engineering will be done on conclusion of Feasibility Study and will be included in Project EIS.

69. Indicate the total capacity for the proposed tailings area using water balance and stage volume calculation and curves. (Attach a description of inputs and outputs along with volume calculations).
70. Will the present tailings area contain the entire production from the mine-mill complex for the life of the project?

Yes

71. If "NO" above, or if production output increases tailings volumes. Indicate what plans have been made for future tailings disposal on the property.
72. Has any land in the immediate area been identified as native or crown land or withdrawn pending native claim settlement?

All lands required for the Project are Inuit Owned Lands (Block BB60)

73. Do the tailings area and all related treatment facilities lie on company held claims?

Yes

74. If not, indicate mine claim boundaries (and owners) on tailings area plan map. Also, attach a copy of all pertinent agreements signed with the owners of the claims not held by the company.

n/a

75. Will the proposed tailings area engulf or otherwise disturb any existing watercourse?

No

76. If "YES", attach all pertinent details (name of watercourse, present average flow, direction of flow, proposed diversions, etc.).
77. If any natural watercourse will gain access to the proposed tailings area, what methods will be used to decrease the amount of runoff water entering the containment area? Indicate the volume of water which will enter the tailings area from the source(s) in question and attach all pertinent details of proposed diversions.

Please see Preliminary Project Description provided.

78. Indicate on the tailings area plan drawing all sources of seepage presently encountered in the vicinity of the tailing area, the volume of each seepage flow (m^3/day), and the direction of each flow.

Water balance of Tail Lake watershed to be provided in Project EIS.

79. Are the seepage flows from the property presently being treated chemically? _____ If so, describe how.

n/a

80. If NOT, explain.

n/a

81. Please attach a conceptual abandonment and restoration plan for all tailings areas being developed. Describe the measures that have been (or will be) taken to contain and stabilize the tailings area(s) against leaching and seepage after operations on the property cease.

Please see Preliminary Project Description provided.

82. Describe the proposed or present operation, maintenance and monitoring of the tailings area.

Please see Preliminary Project Description provided.

SECTION 6:

83. Describe the methods of chemical treatment that are presently being used and/or will be used to control the quality of the tailings effluent. Attach an engineering drawings where applicable and a process flow chart. If a pilot test has been conducted please attach description of methodology and results.

Please see Preliminary Project Description provided.

84. List the names of chemicals to be used in the water treatment process.

**Sulphuric Acid
Hydrogen Peroxide
Copper Sulphate**

85. What is the proposed or present average rate of effluent treatment of the plant (if applicable)?

Treatment of all cyanide-bearing mill tailings slurry, which is expected to be 12.6m³/hr.

86. What is the proposed or present maximum effluent treatment capacity of the plant (if applicable)?

This is subject to final engineering and will be provided in Project EIS.

87. Will treated effluent be discharged directly to a natural water body or will polishing or settling ponds be employed? Describe location control structures and process of water retention and transfer. Attach any relevant design drawings.

Treatment will take place in the mill. The tailings pond will act as a secondary treatment stage through settling of precipitants.

88. Name the first major watercourse the discharge flow enters after it leaves the area of company operations.

Doris Creek; Please see Preliminary Project Description provided.

89. In terms of rate of effluent release and volume and flushing rate of the receiving watercourse, estimate the extent of the mixing zone within the receiving waters and where background levels of constituents for that watercourse will be attained.

Mixing zone is estimated to be within 400 m which is defined by a waterfall in Doris Creek. Background levels should be attained below the waterfall.

90. Describe the present (proposed from pilot tests) chemical and physical characteristics of the tailings effluent (Decant).

See Section 2.6.1.2. of the updated Project Description.

SECTION 7:

ENVIRONMENTAL MONITORING PROGRAM

91. Have elders been consulted in the establishment of the monitoring program?

92. Has Traditional Knowledge of the area been considered?

Yes

93. Has any baseline data been collected for the main water bodies in the area prior to development?

Yes, these data will be reviewed in Project EIS. See attached Project Description.

94. If "YES" include all data gathered on the physical, biotic and chemical characteristics at each sampling location. Identify sampling location on a map.

Please see Preliminary Project Description provided by a short summary.

95. Provide an inventory of hazardous materials on the property and storage locations. (Attach separate Map).

No such materials currently stored on site.

96. Attach the present or proposed contingency plan which describes course of action, mitigative measures and equipment available for use in the event of system failures and spills or hazardous materials.

Contingency plans will be provided with Project EIS, however; the NWB do have contingency plans on file as they relate to the current activities in the belt.

97. Provide a conceptual abandonment and restoration plan for the site, detailing the costs to carry out the plan, and a proposal for a financial assurance which covers the costs to carry out the plan.

Please see Preliminary Project Description provided.

98. Provide a detailed emergency response plan for the project.

Will be developed with Project contingency plans and submitted in support of Project EIS.

99. Provide a description of the pollution control systems and environmental management procedures.

Will be developed with Project contingency plans and submitted in support of Project EIS.

SECTION 8:

ENVIRONMENTAL ASSESSMENT AND SCREENING

100. Has this project ever undergone an initial environmental review, including previous owners.

Yes

101. Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project (e.g. wildlife, soils, air quality), i.e. in addition to water related information requested in this questionnaire?

Please see Preliminary Project Description provided. Project EIS will be developed to comply with EIS guidelines expected from NIRB.

102. Describe any cumulative impacts the project may create.

Please see Preliminary Project Description provided; also to be included in Project EIS.

103. Has any meteorological data been collected at or near the site? (e.g. precipitation, evaporation, snow, wind).

Yes

a) If so, please include the data and attach copies of reports or site titles, authors and dates.

Please see the Final EIS submitted to NIRB in November 2003 for best summary of available meteorological data.

104. If no, are such studies being planned? Briefly describe the proposals.

A new site weather station was established in 2004 and will continue to operate.

105. Has authorization been obtained or sought from the Department of Fisheries and Oceans for dewatering or using any water bodies for containment of waste?

Application to DFO submitted.

106. Please attach an outline briefly describing any options or alternatives considered or reflected for the various mine components outlined in this questionnaire (e.g. mill site, water supply sources, location for ore and waste piles).

107. Has a socio-economic impact assessment or evaluation of this project been undertaken? (This would include a review of any public concerns, and water and cultural uses of the area, implication of land claims, compensation, local employment opportunities, etc.).

Yes, an SEIA was completed as part of the November 2003 EIS. A new SEIA study was undertaken in 2004 and will be submitted to NIRB in early 2005.

108. If yes, please describe the proposal briefly.

A Memorandum of Understanding covering an Inuit Impact Benefits Agreement for the Doris North Project was negotiated in 2004 between Miramar Mining and the KIA. The IIBA address socio-economic benefits to Inuit residents of the West Kitikmeot.

109. If no, is such a study being planned? Yes _____ (When) OR No

110. Does the project alter the quantity of quality of flow of waters through Inuit Owned Lands?

No

111. If yes, has the applicant entered into an agreement with the Designated Inuit Organization to pay compensation for any loss or damage that may be caused by the alteration.

A Memorandum of Agreement has been negotiated in 2004 between Miramar and the KIA covering Inuit water rights compensation issues.

112. If no compensation arrangement has been made, how will compensation be determined?



P.O. Box 119
GJOA HAVEN, NU X0B 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

February 28, 2005

One Page via Email

Mr. David Long
Vice-President, Legal
Miramar Mining Corporation
300 – 889 Harbourside Drive
North Vancouver, BC V7P 3S1

Subject: Doris North Project - Application for a Water Licence
NWB File # NWB1DOR

Dear Mr. Long:

I acknowledge receipt of your February 8, 2005 letter and updated Preliminary Project Description ("PPD") for the *Doris North Project* ("Project") in Nunavut. Your submission has been placed in the Nunavut Water Board's ("NWB") Public Registry and is available to the public upon request or from the NWB FTP site.

On March 20, 2002, the *Hope Bay Joint Venture* ("HBJV"), a joint venture between *Miramar Hope Bay Limited* and *Hope Bay Gold Corporation*, filed an application for a water licence for the construction, operation and decommissioning of the *Doris Hinge Project* ("Application"). The NWB referred the Application to the Nunavut Impact Review Board ("NIRB") for environmental assessment pursuant to Article 12 of the Nunavut Land Claim Agreement ("NLCA"). In its final report, NIRB indicated that *Miramar* had not provided sufficient information for the Board to complete their assessment process. NIRB indicated that there were five key deficiencies and that if these deficiencies were adequately addressed then *Miramar* could reapply to NIRB to have the environmental assessment of that project reconsidered.

The NWB Public Registry indicates that the Application is pending and has not been withdrawn. In light of your February 8, 2005 submission, we have reviewed the updated PPD versus the Application. We conclude that the Project as described is fundamentally the same undertaking submitted in March 2002 and subsequently reviewed by NIRB, aside from adjustments to the proposed schedule and other items such as the preliminary details of the construction of the tailings dam, which in themselves do not change the scope and nature of the Application already on file. We note however that the name of the applicant on the Application is the Hope Bay Joint Venture ("HBJV"). We also note that the name of the project on both the Application and the March 2002 PPD is referred to as the *Doris Hinge Project*, whereas your most recent submission refers to the *Doris North Project*. For greater clarity, please let the NWB know whether the name of the applicant and the name of the project as officially recorded in the Application should be changed.

Meanwhile, **by copy of this letter to the NIRB**, we are asking our sister-board to resume its environmental assessment of the Application pursuant to Article 12 of the NLCA.

Please contact me if you have any question.

Sincerely,

Original signed by:

Philippe di Pizzo
Executive Director

c.c. Stephanie Briscoe, NIRB
 Distribution List