INFORMATION REQUEST RESPONSE

EA No: 0809-001   **Information Request No: YKDFN #15**

Date Received:

February 28 2011

Linkage to Other IRs:

Date of this Draft:

May 31 2011

Request

Preamble:

YKDFN are unaware if this information has been published. During the scoping sessions, only rough and incomplete data was available and YKDFN were forced to guess at the levels of arsenic that had been released.

Question:

INAC should publish this data as soon as possible.

Reference to DAR (relevant DAR Sections):

S.8.9.3.2 (Risk Assessment Modeling)

Summary

The requested information is available in Supporting Document N1 of the Giant Mine Remediation Plan (provided in Appendix B of the DAR).

 Response

The estimated arsenic loads to Baker Creek used in the assessment of historic and future inputs to Baker Creek and Yellowknife Bay are presented and discussed in the Tier 2 Risk Assessment, which was included as Supporting Document N1 of the Giant Mine Remediation Plan prepared by SRK Consulting and SENES Consultants Limited in 2007 (the document is provided in Appendix B of the DAR).

Table 4-1-1 from the Tier 2 Risk Assessment is reproduced below as Table 1 for convenient reference. It is noted that there was considerable uncertainty in some of the estimates; hence, probability distributions were assigned to the loads as summarized. The mean values given in Table 1 are the best guess estimates of the arsenic loads in the respective periods. For an explanation of how the distributions were used in the assessment, please refer to Supporting Document N1.

Table 1 - Summary of Probability Distributions Used for Load Inputs to Baker Creek

Time Frame		Load Entry Point	Estimated Load (kg/y)			
			Mean	Standard Deviation	Minimum	Maximum
1950	1971	Baker Creek	25000	2625	17125	32875
1972	1982	Baker Creek	14000	1970	8090	19910
1983	1993	Baker Creek	1700	180	1160	2240
1994	2007	Baker Creek	800	80	560	1040
1994	2007	Back Bay	110	10	80	140
2008+	Remediation Case	Baker Creek	480	50	330	630
2008+	Remediation Case	Back Bay	210	20	150	270