

DE BEERS
CANADA
GAHCHO KUÉ PROJECT

September 26, 2012

Chuck Hubert
Senior Environmental Assessment Officer
Mackenzie Valley Environmental Impact Review Board
Suite 200, 5102 – 50th Avenue
P.O. Box 938
Yellowknife NT X1A 2N7

Dear Mr. Hubert:

2012 Environmental Impact Study (EIS) Supplement
- Gahcho Kue Project Environmental Impact Review - Errata – Table 8.II-3

Two errors were identified in Table 8.II-3 (pp. 8.II-13 and 14), Appendix 8.II (Water Quality Model Report) of the 2012 Environmental Impact Study (EIS) Supplement (De Beers 2012). This table provides a list of background water chemistry data for Kennady Lake and the downstream waters, which are used as input baseline data to the GoldSim[®] water quality model.

The first error was noted for parameter concentrations in the 'Kennady Lake' column under the 'Total Metals' grouping; the listed concentrations were particulate metal concentrations not total metal concentrations. The second error was noted for the dissolved cadmium concentration in the Kennady Lake column under the 'Dissolved Metals' grouping; the particulate cadmium concentration was entered instead of the dissolved concentration. The background total metals concentrations, and dissolved cadmium concentration, for the Kennady Lake column have been revised. The corrected (revised) table is provided herein.

The errors are specific to this table; the modelled water chemistry used in the water quality assessment in the 2012 EIS Supplement accounted for the correct dissolved and total metals concentrations in Kennady Lake as listed in the revised table.

Sincerely,



Veronica Chisholm
Permitting Manager

c: Francis Jackson, Environmental Scientist, Water Resources Division, AANDC
Robert Jenkins, Manager, Water Resources Division, AANDC



Table 8.II-3 Baseline Input Water Quality (revised)

Parameters	Units	Kennady Lake	Downstream Lakes
Conventional			
Total Dissolved Solids	mg/L	13	16
Total Suspended Solids		1.6	1.3
Major Ions			
Calcium	mg/L	1.2	1.1
Chloride	mg/L	0.55	0.49
Fluoride	mg/L	0.034	0.033
Magnesium	mg/L	0.52	0.43
Potassium	mg/L	0.48	0.39
Sodium	mg/L	0.71	0.78
Sulphate	mg/L	0.83	0.88
Nutrients			
Ammonia	mg/L	0.032	0.019
Nitrate	mg/L	0.032	0.019
Total Nitrogen	mg/L	0.347	0.12
Phosphorus, dissolved	mg/L	0.0033	0.0030
Phosphorus, total	mg/L	0.0057	0.0048
Dissolved Metals			
Aluminum	mg/L	0.0055	0.017
Antimony	mg/L	0.000081	0.000053
Arsenic	mg/L	0.00012	0.0001
Barium	mg/L	0.0027	0.002
Beryllium	mg/L	0.000038	0.000064
Boron	mg/L	0.002	0.0017
Cadmium	mg/L	0.000022	0.000019
Chromium	mg/L	0.00016	0.00016
Cobalt	mg/L	0.00014	0.00019
Copper	mg/L	0.00069	0.00099
Iron	mg/L	0.021	0.045
Lead	mg/L	0.00003	0.000027
Manganese	mg/L	0.012	0.004
Mercury	mg/L	0.0000077	0.0000051
Molybdenum	mg/L	0.000058	0.000014
Nickel	mg/L	0.00032	0.00039
Selenium	mg/L	0.000043	0.000032
Silver	mg/L	0.000051	0.0000025
Strontium	mg/L	0.0082	0.0069
Thallium	mg/L	0.000017	0.0000012
Uranium	mg/L	0.000019	0.000011
Vanadium	mg/L	0.000134	0.000039
Zinc	mg/L	0.0023	0.0024
Total Metals			
Aluminum	mg/L	0.0098	0.019
Antimony	mg/L	0.000096	0.000062
Arsenic	mg/L	0.00014	0.00012
Barium	mg/L	0.0027	0.0027
Beryllium	mg/L	0.0000411	0.000064
Boron	mg/L	0.0031	0.0017
Cadmium	mg/L	0.000023	0.000019

Parameters	Units	Kennady Lake	Downstream Lakes
Chromium	mg/L	0.0002	0.00016
Cobalt	mg/L	0.00014	0.00019
Copper	mg/L	0.00121	0.0013
Iron	mg/L	0.065	0.059
Lead	mg/L	0.000049	0.000061
Manganese	mg/L	0.012	0.0057
Mercury	mg/L	0.00001	0.0000051
Molybdenum	mg/L	0.000074	0.00003
Nickel	mg/L	0.00032	0.00047
Selenium	mg/L	0.00019	0.000032
Silver	mg/L	0.00008	0.0000081
Strontium	mg/L	0.0082	0.0069
Thallium	mg/L	0.000021	0.000014
Uranium	mg/L	0.000026	0.000016
Vanadium	mg/L	0.000238	0.000094
Zinc	mg/L	0.0028	0.0024

Note: Highlighted data indicates input concentration data that has been updated from the input data presented in the 2011 EIS Update
mg/L = milligrams per litre