Notes on analytical methods used for measurement of arsenic in water samples.

|  |  |  |  |
| --- | --- | --- | --- |
| **Document ID** | **Full Document Description** | **Notes** | |
| 1950 01 05 | 1950 01 05 Dr Charron to Dr Cameron Arsenic Contamination Con Giant Negus | Environmental concentrations reported as both elemental arsenic and arsenic trioxide |
| 1950 01 09 | 1950 01 09 Mr Monkman to Dr Kay Arsenic Testing Yellowknife | Molybdenum blue method found more reliable than Gutzeit method | | |  | | |  |
| 1950 05 19 | 1950 05 19 Mr Monkman Gutzeiit Method for Arsenic Testing | Gutzeit method outlined | | |  | | | | |  |  |  |
| 1950 04 06 | 1950 04 06 Mr Monkman to Dr Kay Methods for Testing Water Samples Arsenic Yellowknife | Ottawa drinking water measured as a comparison (result = 0.001 mg As/L) | | | |  |
| 1950 04 06 | 1950 04 06 Mr Monkman to Dr Kay Methods for Testing Water Samples Arsenic Yellowknife | Water samples of 300 mL were concentrated by evaporation before analysis | | | |  |
| 1950 04 04 | 1950 04 04 Mr Monkman to Mr Rogers Water Sample Arsenic Testing Comparison Methods | Discussion of two methods: molybdenum blue vs Gutzeit method; Mo Blue method deemed more reliable, though less sensitive |
| 1950 05 22 | 1950 05 22 Mr Monkman to Mr Raht Water Sample Testing Arsenic Yellowknife | Discussion of two methods: molybdenum blue vs Gutzeit method | | |  | | |  |
| 1950 06 14b | 1950 06 14 Mr Muir to Mr Gibson Water Samples Arsenic Giant | Water concentrations from Giant Mine lab reported as arsenic trioxide (converted to elemental As with a factor 0f 0.76) |
| 1950 07 21 | 1950 07 21 Mr Monkman to Mr Pitcher Water and Vegetation Samples Arsenic Giant | Request for fast shipping of samples because of potential change in As concentration over time in container (e.g. adsorption) |
| 1955 04 05 | 1955 04 05 Mr Windish to Mr Homulos Report Arsenic sample Giant | Giant Mine reports lab results as arsenic trioxide not elemental As | | |
| 1956 05 24 | Mr Tait to Mr Windish Arsenic analysis Giant | Giant Mine reports lab results as arsenic trioxide not elemental As |

List of documents cited in the manuscript and used to compile the historical dataset of water arsenic. The document titles were given by Library and Archives Canada.

|  |  |
| --- | --- |
| **Document ID** | **Full Document Title by Library and Archives Canada** |
| 1949 12 01 | 1949 12 01 Mr Chrisite Mr Trail Dr Kay Report Arsenic Problem Giant Con Negus Yellowknife |
| 1949 12 06 | 1949 12 06 Dr Kay to Dr Charron Arsenic Contamination Report Giant Con Negus Yellowknife |
| 1949 12 10 | 1949 12 10 Mr Rogers to Dr Kay Arsenic Water Sample Results Giant Yellowknife Baker Creek |
| 1950 01 05 | 1950 01 05 Dr Charron to Dr Cameron Arsenic Contamination Con Giant Negus |
| 1950 02 16 | 1950 02 16 Dr Stanton to Dr Charron notes Dr Kay Urine and Water Samples Arsenic Yellowknife |
| 1950 03 21 | 1950 03 21 Mr Raht to Dr Kay Water Snow Samples Arsenic Con Mine Yellowknife |
| 1950 04 06 | 1950 04 06 Mr Monkman to Dr Kay Methods of Testing Water Samples Arsenic Yellowknife |
| 1950 05 19 | 1950 05 19 Mr Monkman Gutzeiit Method for Arsenic Testing |
| 1950 05 26 | 1950 05 26 Mr Raht to Dr Kay Water and Snow Sample Arsenic Results Con Mine Yellowknife |
| 1950 06 14a | 1950 06 14 Dr Stanton to Mr Gibson Report on Arsenic Poisoning Yellowknife |
| 1950 06 14b | 1950 06 14 Mr Muir to Mr Gibson Water Samples Arsenic Giant |
| 1950 06 17 | 1950 06 17 Mr Muir to Mr Gibson Water Samples Arsenic Giant and Con |
| 1950 06 28 | 1950 06 28 Mr Gibson to Dr Charron Water Sample Results Arsenic Con Yellowknife |
| 1950 07 05 | 1950 07 05 Dr Kay Report on Visit to Yellowknife Mines |
| 1950 07 14 | 1950 07 14 Mr Raht to Dr Kay Water Samples Arsenic Con |
| 1950 07 26 | 1950 07 26 Mr Monkman to Mr Pitcher Water Samples Arsenic Giant |
| 1950 08 15 | 1950 08 15 Mr Rhat to Dr Kay Water Sample Results Con Yellowknife |
| 1950 09 07 | 1950 09 07 Mr Monkman to Mr Pitcher Arsenic Water sample Giant |
| 1950 09 28 | 1950 09 28 Mr Raht to Dr Kay Arsenic Water Sample Con |
| 1950 10 05 | 1950 10 05 Mr Monkman to Mr Pitcher Arenic Water Sample Giant |
| 1950 10 10 | 1950 10 10 Mr Monkman to Mr Pitcher Arsenic Water Sample Giant |
| 1950 10 16 | 1950 10 16 Mr Monkman to Mr Pitcher Arsenic Water Sample Giant |
| 1950 11 07 | 1950 11 07 Mr Raht to Dr Kay Con and Yellowknife water sample results |
| 1951 03 07 | 1951 03 07 Mr Raht to Dr Kay Arsenic Water Con Yellowknife |
| 1951 05 15 | 1951 05 15 to Mr Sinclair Arsenic Poisoning Water Testing Yellowknife |
| 1951 06 01 | 1951 06 01 Mr Raht to Dr Kay Arsenic Water Con Yellowknife |
| 1951 06 04 | 1951 06 04 Mr Monkman to Dr Kay Arsenic Water Yellowknife |
| 1951 06 11 | 1951 06 11 Mr Raht to Dr Kay Arsenic Water Con |
| 1951 07 31 | 1951 07 31 Mr Pitcher to Dr Kay Arsenic Water Vegetation Samples Giant |
| 1951 09 13 | 1951 09 13 Mr Raht to Dr Kay Arsenic Water Samples Con Yellowknife |
| 1951 10 16 | 1951 10 16 Mr Raht to Dr Kay Report Arsenic water Con |
| 1955 09 01 | 1955 09 01 Report Arsenic Problem Yellowknife 1950 to 1955 Environmental Medical Investigations |
| 1956 06 06 | 1956 06 06 Mr Windish to Dr Watkinson Report Arsenic Yellowknife |