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# Results of Elemental Analyses of Water And Waterborne Sediment Samples from Areas of Alaska Proposed for the Chukchi Imuruk National Reserve, Selawik National Wildlife Refuge, and Cape Krusenstern National Monument

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# Results of Elemental Analyses of Water and Waterborne Sediment Samples from Areas of Alaska Proposed for the Chukchi Imuruk National Reserve, Selawik National Wildlife Refuge, and Cape Krusenstern National Monument

Robert R. Sharp, Jr.

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# RESULTS OF ELEMENTAL ANALYSES OF WATER AND WATERBORNE SEDIMENT SAMPLES FROM AREAS OF ALASKA PROPOSED FOR THE CHUKCHI IMURUK NATIONAL RESERVE, SELAWIK NATIONAL WILDLIFE REFUGE, AND CAPE KRUSENSTERN NATIONAL MONUMENT

by

Robert R. Sharp, Jr.

## ABSTRACT

During July-August 1976, waters and sediments were collected for the Los Alamos Scientific Laboratory from streams and lakes over an area of 100 000 $km^2$ around Kotzebue, Alaska. The sampling was by helicopter, as part of the National Uranium Resource Evaluation Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) of the US Department of Energy (DOE). It was done according to rigorous, but simple, written procedures, at a nominal density of one location per 23 km and included the ~10 900-$km^2$ area proposed for the Chukchi Imuruk National Reserve, the ~5640-$km^2$ area proposed for the Selawik National Wildlife Refuge, and the 1400- to 1900-$km^2$ area proposed for the Cape Krusenstern National Monument. In 1977, the US Department of Interior, Bureau of Mines, Anchorage, provided funds for multielement analyses of the HSSR sediments from the proposed Cape Krusenstern Monument, and the results were published. By July 5, 1978, both the waters and sediments from the entire 100 000-$km^2$ area had been analyzed for uranium only, and the data were presented in DOE HSSR reports on the Seward Peninsula-Kotzebue-Baird Mountains areas and vicinity. The present work, again done with funds from the US Bureau of Mines, Anchorage, with concurrence of the DOE, provides multielement results for 949 waters and 886 sediments from 979 locations. Of these, 492 waters and 452 sediments are from 517 locations in the proposed Chukchi Imuruk Reserve; 447 waters and 423 sediments are from 451 locations in the proposed Selawik Wildlife Refuge; and 10 waters and 11 sediments are from 11 locations (for which multielement results were not previously reported) in the proposed Cape Krusenstern Monument. The field data, with concentrations of 13 elements in the waters and 43 in the sediments, are presented in appendixes, and the sample locations are shown at 1:250 000-scale on accompanying plates. The waters were analyzed for uranium by fluorometry or delayed-neutron counting and calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, titanium, and zinc by plasma-source emission spectrography. The sediment samples were analyzed for uranium by delayed-neutron counting, beryllium and lithium by arc-source emission spectrography, bismuth, cadmium, copper, lead, nickel, niobium, silver, tin, and tungsten by x-ray fluorescence, and aluminum, antimony, barium, calcium, cerium, cesium, chlorine, chromium, cobalt, dysprosium, europium, gold, hafnium, iron, lanthanum, lutetium, magnesium, manganese, potassium, rubidium, samarium, scandium, sodium, strontium, tantalum, terbium, thorium, titanium, vanadium, ytterbium, and zinc by neutron activation. Uranium to thorium ratios, calculated from the concentrations in each sediment, are also provided. Descriptions of all methods used, analytical precisions, and detection limits are included.

## I. INTRODUCTION

As part of the National Uranium Resource Evaluation (NURE) program sponsored by the US Department of Energy (DOE), the Los Alamos Scientific Laboratory (LASL) of the University of California has the responsibility for carrying out a Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) for uranium throughout the states of New Mexico, Colorado, Wyoming, Montana, and Alaska. Other laboratories operated for the DOE are responsible for the HSSR in the remaining states.[1] The LASL approach to this reconnaissance has been described in some detail.[2-4]

Although the principal aims of the NURE HSSR are to provide additional data on which to better evaluate the nation's uranium reserves and aid the private sector in delineating areas of interest for actual uranium exploration, it was recognized by the LASL from the outset that the water and sediment samples being collected were valuable in relation to many additional elements and purposes. And though initially the samples were being analyzed for uranium only, a point was made of collecting enough material to provide for archival storage, with the hope of obtaining funds for multielement analyses. Consequently, when samples were collected at a nominal density of one location per 23 $km^2$ (9 $mi^2$) over an area of about 100 000 $km^2$ on the Seward Peninsula and around Kotzebue Sound in Alaska during July and August of 1976, they were available for additional use.

In 1977, the US Department of Interior, Bureau of Mines, Anchorage, Alaska, made available funds for the multielement analyses of the sediment samples that were taken within the approximate 1400- to 1900-$km^2$ area of the proposed Cape Krusenstern National Monument in Alaska (Fig. 1). As a result, in addition to the routine HSSR field data and uranium determinations for waters and/or sediments from 89 locations sampled over the proposed Cape Krusenstern National Monument, the results of analyses of 44 additional elements in 77 of the sediments from there were open filed late in 1977.[5]

Early in 1978, the Anchorage office of the US Bureau of Mines again provided funds for multielement analyses of other sets of Alaskan HSSR samples, this time primarily from the areas of the proposed Chukchi Imuruk National Reserve and the proposed Selawik National Wildlife Refuge (Fig. 1). They also asked that multielement analyses be provided for samples from a few specific locations in the area of the proposed Cape Krusenstern National Monument for which such analyses were inadvertently neither run nor reported in the first report.[5] With these 1978 funds, then, the multielement analyses of the 949 waters and 886 sediments from a total of 979 locations reported here were made and are being open filed separately, along with the normal LASL HSSR field data and uranium analyses for water and sediment from the same locations. Thus, in keeping with the policy set forth by the US DOE Grand Junction Office, and with the concurrence of them and the US Department of the Interior, Bureau of Mines, Anchorage, all these data accruing from the HSSR samples are being made available to both the public and government agencies outside the US DOE precisely at the same time.

It should be noted that the normal LASL HSSR field data (including dissolved oxygen measurements made at many of the sites) and the uranium analyses for the samples reported herein, along with uranium concentration overlays at 1:250 000-scale for the waters and sediments, have already been published in previous uranium HSSR reports. In the case of the area of the proposed Chukchi Imuruk National Reserve, these previously published data are to be found in the reports on the Seward Peninsula and vicinity by Sharp and Hill[6] and by

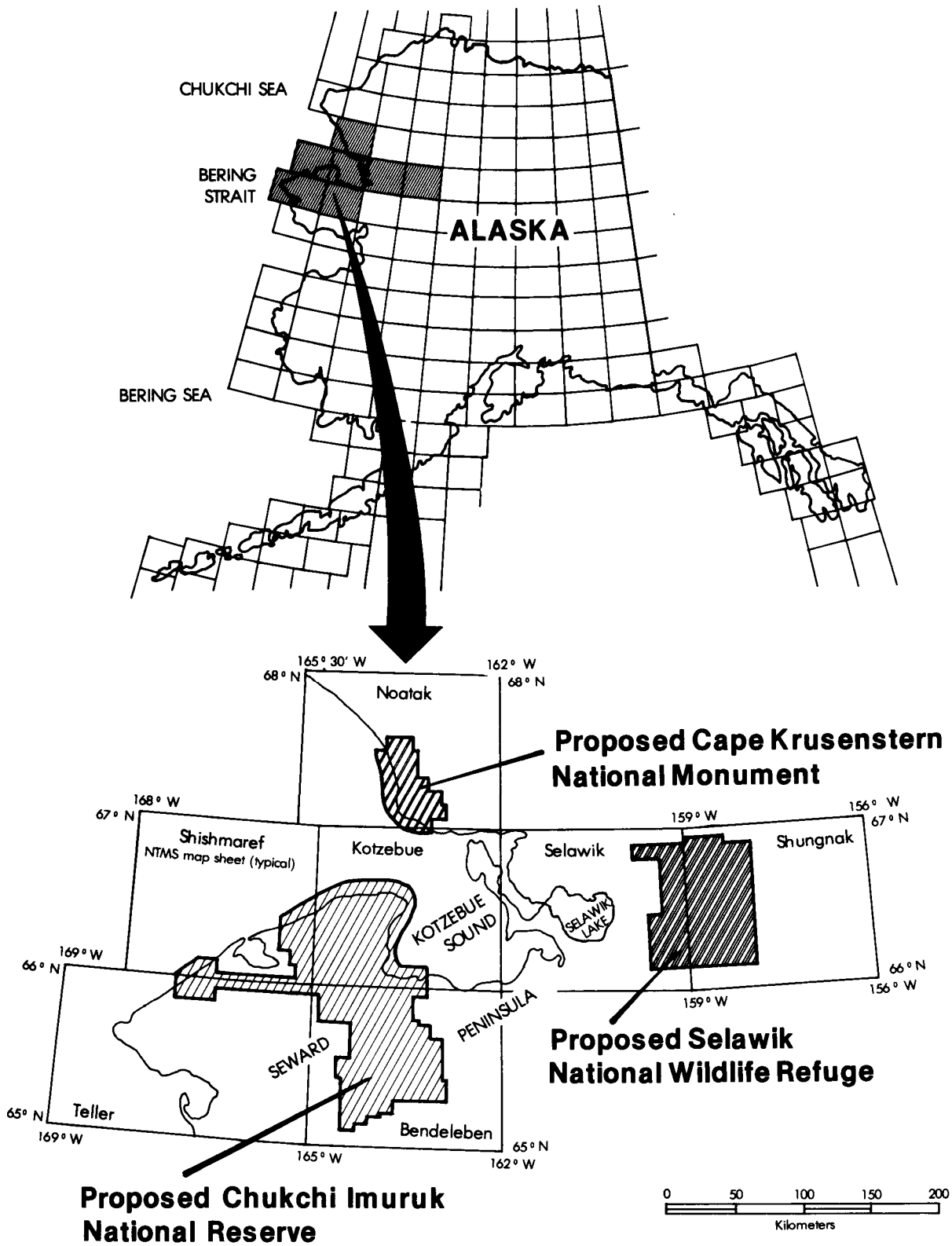


Fig. 1. Index map of areas of Alaska proposed for the Chukchi Imuruk National Reserve, Selawik National Wildlife Refuge, and Cape Krusenstern National Monument, showing NTMS 1:250 000-scale map sheets on which they are located.

Warren, Hill, and Sharp.[7] Such data from the area of the proposed Selawik National Wildlife Refuge are included in the last-mentioned report,[7] alone, while those for the area of the proposed Cape Krusenstern National Monument are to be found in the HSSR work of Aamodt, Hill, and Sharp.[8] These three HSSR reports, open filed on July 5, 1978, include descriptions of the general geography, climate, hydrology, geology, structure, and known uranium occurrences, and provide fairly extensive lists of references on these and other features of the areas with which they deal. They also present the uranium data for water and sediment samples from broad areas surrounding, as well as within, the areas for which new analytical data are presented here. Also, the sample location numbers used herein are identical to those for the same sites in the appropriate previously published reports, so the dissolved oxygen values (which are not included herein) and any discussion relating to these sites can be correlated to the multielement data provided in this report.

The LASL, with DOE support, now plans to include the entire multielement data suites for waters and sediments as presented herein for all samples reported in future HSSR reports, as well as ultimately to provide them for areas such as the Seward Peninsula for which uranium-only data have already been reported. Consequently, truly immense volumes of valuable trace-element data will become available in the near future for Alaska and the other areas for which the LASL is responsible in the NURE HSSR.

## II. LOCATIONS OF AREAS FOR WHICH DATA ARE PRESENTED

The majority of the data presented herein are for water and sediment samples taken from streams and lakes or ponds in the areas of Alaska proposed for the Chukchi Imuruk National Reserve and the Selawik National Wildlife Refuge. A small portion of them are for such samples taken from the area of the proposed Cape Krusenstern National Monument and supplement similar (but not wholly identical) data previously reported for the area.[5] These three areas are located in west-central Alaska: around Kotzebue Sound, along and near the Arctic Circle, mostly north of Bering Strait and immediately east of the Chukchi Sea. Both the proposed Chukchi Imuruk National Reserve and the proposed Cape Krusenstern National Monument are bounded in part by Kotzebue Sound and the Chukchi Sea, the former along the north and west and the latter along the southwest. The area of the proposed Selawik National Wildlife Refuge is centered about 150 km inland, due east of Kotzebue Sound and Selawik Lake, south of the Kobuk River.

### The Proposed Chukchi Imuruk National Reserve

The area proposed for the Chukchi Imuruk National Reserve covers approximately 10 900 $km^2$ and is spread across the north-central Seward Peninsula in a manner much as the classical gerrymander. Being highly irregular in shape, the proposed reserve lies between latitudes N65°05' to the south and N66°40' to the north and longitudes W167°30' on the west and W162°30' on the east.[9] It is along and immediately south of the Arctic Circle and is covered by portions of the Bendeleben, Teller, Shishmaref, and Kotzebue National Topographic Map Series (NTMS) quadrangle map sheets (1:250 000-scale), as shown in Fig. 1. The land boundaries of the proposed Chukchi Imuruk National Reserve are better shown on Plate I, a 1:250 000-scale overlay showing the 517 locations from which about 52% of the samples (492 waters and 452 sediments) reported herein were taken.

The Proposed Selawik National Wildlife Refuge

Approximately 5640 $km^2$ are included within the proposed Selawik National Wildlife Refuge. Located nearly 100 km inland and due east of Kotzebue Sound and Selawik Lake, the proposed refuge lies between latitudes N66°07' to the south and N66°58' to the north and longitudes W159°55' on the west and W157°50' on the east.[9] It is also irregular in shape and lies astraddle the Arctic Circle, but along the common boundary between the Selawik and Shungnak NTMS quadrangles, such that its area is roughly divided between the two (Fig. 1). The proposed boundaries of the refuge are shown in greater detail on Plate II, a 1:250 000-scale overlay indicating the 451 locations from which approximately 47% of the samples (447 waters and 423 sediments) reported herein were taken.

The Proposed Cape Krusenstern National Monument

The land area of the proposed Cape Krusenstern National Monument is located essentially north and east of the cape from which it takes its name and lies between N67°00' and N67°45' latitudes and W164°00' and W162°45' longitudes, as shown in Fig. 1. This is north of the Arctic Circle, adjacent to the Chukchi Sea, on the northwest corner of Kotzebue Sound.[9] Depending upon the precise boundaries utilized (alternatives have been suggested), the proposed monument includes between 1400 and 1900 $km^2$ of land within the area covered by the Noatak NTMS quadrangle map sheet (1:250 000-scale). The land boundaries of the proposed monument are better shown on Plate III, a 1:250 000-scale overlay showing the 11 locations from which only slightly more than 1% of the samples (10 waters and 11 sediments) reported herein were taken. Note that similar multielement analyses, as well as uranium data, have been published for sediment samples from 77 additional locations within the proposed Cape Krusenstern National Monument.[5] Additionally, the uranium results, along with field data and concentration overlays, have been published for both water and sediment samples collected mostly at the same nominal reconnaissance-sampling density (i.e., one location per 23 $km^2$) over broad areas surrounding the proposed monument.[6-8]

## III. DESCRIPTION OF DATA AND PROCEDURES UTILIZED

All of the samples for which data are reported here were taken with helicopter support during the 48-day period, July 13-August 29, 1976. The weather conditions recorded at the sites at the time of sampling are provided by area in the field data of the appendixes. Temperatures were essentially normal during the sampling period. Only a few days were lost to truly bad weather (dense, low clouds or high winds). Comparison of the average monthly precipitation at Kotzebue for July and August with that recorded in 1976 shows the precipitation in the area during July 1976 was only about 75% of normal, whereas for the entire month of August 1976 it was only about 21% of normal.[5,10,11] Similar comparisons for Galena, Kobuk, Nome, and Wales, collectively, show that precipitation over the entire area was considerably below normal during both the months of July and August, being only slightly more than one-half of that generally occurring during these months.[6,10,11] Consequently, there is no reason to suspect that the water samples suffer from excess seasonal dilution.

All of the field data and elemental concentrations for the 949 water and 886 sediment samples from the 979 locations are presented by area in the

listings of Appendixes I, II, and III (for the proposed Chukchi Imuruk National Reserve, the proposed Selawik National Wildlife Refuge, and the proposed Cape Krusenstern National Monument, respectively). In each case, the data for waters are given first, followed by those for the sediments. A brief account of the standard procedures followed in taking and analyzing the samples, as well as the codes used in the data listings and in specifying each of the sample types and the treatment given them, are provided in Appendix IV. A more detailed account of the field procedures followed is given in a work by Sharp and Aamodt.[12]

As already mentioned, the sample locations are shown on Plates I, II, and III, where their LASL sample numbers as used in the data listings are given with 400 000 subtracted (or with their first two digits omitted). The locations are computer-plotted from their latitudes and longitudes as taken from the field maps used, then checked by overlaying the computer-produced plots on the same maps. The computer program for the Universal Transverse Mercator map projection as used at the LASL is described in a 1977 work,[13] while the HSSR data management and verification procedures followed are described in another done in 1978.[14]

Note that in both parts A (waters) and B (sediments) of Appendixes I, II, and III, the samples are numerically ordered by area on their LASL sample location numbers. In the case of the results for the waters, the data for a single, numerically ordered group of samples from within a respective area are given on two consecutive pages, in sequence, after which follow the data for the next group from within the same area on the next two pages, and so on. All of the results of the 13 different elemental concentrations in the waters are given in parts per billion (ppb) throughout Appendixes I-A, II-A, and III-A. In the case of the results for the sediments, presented immediately after those for the waters from the same area in each instance (i.e., in Appendixes I-B, II-B, and III-B), the data for a single, numerically ordered group of samples are given on four separate pages, in sequence, after which follow the data for the next group on the next four pages. All of the results of the 43 different elemental concentrations in the sediments are given in parts per million (ppm) throughout the appendixes.

Both a water sample and a sediment sample were generally taken from each location and made available for analysis, but this was not always the case. All of the samples come from streams or lakes, but a few of the streams sampled were dry. The dry stream sediments are evident from the listings, but when either a water or sediment sample is missing from a location that could have provided both, the listing for the one that is missing is simply missing altogether.

For the most part the water samples were evaporatively concentrated and analyzed for uranium by a basic fluorometric method modified at the LASL.[15] In some few cases, however, where the uranium in water was above 10 ppb or the fluorometrically determined value was questionable, the sample was rerun by delayed-neutron counting (DNC) and the value obtained by this method is given with an asterisk beside it in the appropriate listings. Water samples having a wide range of uranium concentrations are periodically run by both methods at the LASL to insure that values obtained by either procedure are comparable.[16] In addition to the analysis for uranium, a cut of each available water sample was analyzed by plasma-source emission spectrography for calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, titanium, and zinc. Early investigations of the inductively coupled plasma used as the source for the waters run by emission spectrography are reported by Apel and others.[17]

The uranium in sediment was determined by DNC, using the Omega West Reactor at Los Alamos and special LASL-designed and -fabricated detectors.[18] The sediment samples were also analyzed for bismuth, cadmium, copper, lead, nickel, niobium, silver, tin, and tungsten, using a computer-controlled, energy-dispersive x-ray fluorescence system.[19] They were further analyzed by arc-source emission spectrography for beryllium and lithium and by neutron activation analysis (NAA) for aluminum, antimony, barium, calcium, cerium, cesium, chlorine, chromium, cobalt, dysprosium, europium, gold, hafnium, iron, lanthanum, lutetium, magnesium, manganese, potassium, rubidium, samarium, scandium, sodium, strontium, tantalum, terbium, thorium, titanium, vanadium, ytterbium, and zinc. In the last column of the data listings for each group of sediment samples the uranium to thorium (U/Th) ratio, as calculated from the concentrations determined for each sample, is presented. These U/Th ratios can often be useful, especially in evaluation of the uranium data.[20]

Before utilizing any of the field or elemental-concentration data presented, the procedures followed in their acquisition or determination, with their precisions and normal detection limits (as set forth in Appendix IV-A), should be reviewed; the codes used in the data listings (described in Appendix IV-B) should be understood; and particular attention should be given the innate and often immensely important differences in significance of the data coming from different sample types (specified in Appendix IV-C).

The field data and elemental analyses are provided here without further comment as a matter of expediency for the public benefit. The significance and relationships of the uranium data to the areal geology and uranium geochemistry have been discussed in previous reports,[6-8] and while much of the new data presented here are no doubt pertinent in this regard as well as to numerous other applications, it is beyond the scope of the NURE HSSR work for which the LASL has been engaged to deal further with these matters.

## ACKNOWLEDGMENTS

Acknowledgment is due the US Department of Interior, Bureau of Mines, in Anchorage, Alaska, and particularly Uldis Jansons of that office. Without their interest and their support in providing funds for the elemental analyses apart from uranium, the resulting data that are reported would not be available at this time. The fluorometric analyses of uranium in the water samples, the analyses of the 12 additional elements in the waters by plasma-source emission spectography, the energy-dispersive x-ray determinations of 9 elements in the sediment samples, and the analyses of beryllium and lithium in the sediments by arc-source emission spectrography were all done by the LASL Analytical Chemistry Group, CMB-1, of the Chemistry and Materials-Science Division, under the supervision of Glenn R. Waterbury. The uranium in water analyses by fluorometry were the responsibility of William H. Ashley, Arthur L. Henicksman, and Donna E. Hedrick. David V. Duchane was responsible for the plasma-source emission spectrography. William E. Zelezny, James M. Hansel, and Calvin J. Martell did the x-ray work on the sediment samples and the spectrographic analyses of them were directed by David W. Steinhaus. The determinations of uranium in some few of the waters and in sediments by DNC, as well as the analyses of the sediments for thirty-one additional elements by NAA, were done by the Research Reactor Group, P-2, of the LASL Physics Division, under the supervision of Merle E. Bunker. Here, the DNC for uranium was the responsibility of Michael M. Minor and he, James S. Bergauer, Steven L. Stein, and

Walter K. Hensley handled the NAA work. These organizations and individuals are gratefully acknowledged. The efforts of Jesse Cheadle III and Carlotta McInteer of the Statistics Group, S-1, of the Systems, Analysis, and Assessment Division, in management of the data and production of the sample location maps, are also greatly appreciated. Acknowledgment is likewise made of John A. Paskiewicz, Mary Ann Olson, and John E. Tubb, and Patricia R. O'Rourke, all of the Geochemical Applications Group, G-5, of the LASL Geosciences Division, for illustrating and typing this report. Paul L. Aamodt, also of Group G-5, was of great help in cleaning the data base and editing the report.

Lastly, a number of individuals of the US Department of Interior and various Alaskan Regional Native Corporations were particularly helpful in the process of obtaining permits to sample the lands within and around the area for which data are reported. Among these were: Jules V. Tileston and Richard H. LeDosquet, of the Anchorage State and Fairbanks District Offices of the Bureau of Land Management, respectively; Albert G. Henson, of the Alaskan State Task Force of the National Park Service, in Anchorage; James B. Haynes, of Doyan, Limited, in Fairbanks; Richard K. Atuk, of the Bering Straits Native Corporation, in Nome; and John W. Schaeffer, of the Nana Regional Corporation, Inc., in Kotzebue. Their advice and support proved invaluable on numerous occasions.

# APPENDIX I

## RESULTS OF ELEMENTAL ANALYSES OF SAMPLES FROM THE AREA OF ALASKA PROPOSED FOR THE CHUKCHI IMURUK NATIONAL RESERVE

## APPENDIX I-A

Chukchi Imuruk Field Data and Elemental Concentrations for Acidified Waters Analyzed for Uranium by Fluorometry or Delayed-Neutron Counting and for Twelve Additional Elements by Plasma-Source Emission Spectrography

## APPENDIX I-B

Chukchi Imuruk Field Data and Elemental Concentrations for Sediments Analyzed for Uranium by Delayed-Neutron Counting and for Forty-Two Additional Elements by X-Ray Fluorescence, Arc-Source Emission Spectrography, and Neutron Activation

APPENDIX I-A

CHUKCHI IMURUK

FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR ACIDIFIED WATERS ANALYZED FOR URANIUM BY FLUOROMETRY OR DELAYED-NEUTRON COUNTING AND FOR TWELVE ADDITIONAL ELEMENTS BY PLASMA-SOURCE EMISSION SPECTROGRAPHY

(Pages 12 through 31)

Note that two pages, numbered 1 and 2 in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

1 - Lists field data and uranium concentrations determined by fluorometry or delayed-neutron counting.
2 - Lists concentrations of 12 additional elements determined by plasma-source emission spectrography.

(See Appendix IV for Procedures and Codes to Listings)

# APPENDIX I-A. Elemental Concentrations for Water Samples-Chukchi Imuruk

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02- | 65.4500- | 164.5667- | 2- | 27- | | 0-402086- | 07/13/76- | 7- | 16- | 12.5- | - | - | 7.2- | 150- | | 6- | 1- | 7- | 4- | 4- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.17 |
| 02- | 65.8903- | 166.9611- | 2- | 29- | | 0-402420- | 07/21/76- | 12- | 18- | 15.3- | - | S- | 7.9- | 45- | | - | 2- | 7- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.19 |
| 02- | 65.9000- | 166.8556- | 2- | 29- | | 0-402421- | 07/21/76- | 12- | 18- | 16.3- | - | S- | 7.9- | 141- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9456- | 166.8869- | 2- | 29- | | 0-402422- | 07/21/76- | 18- | 15- | 14.9- | C- | S- | 8.3- | 25- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.25 |
| 02- | 65.9722- | 166.9333- | 2- | 29- | | 0-402423- | 07/21/76- | 18- | 15- | 15.8- | - | S- | 7.4- | 39- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 65.9667- | 166.8667- | 2- | 29- | | 0-402424- | 07/21/76- | 18- | 16- | 14.9- | - | S- | 7.2- | 25- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.17 |
| 02- | 65.9544- | 166.8458- | 2- | 29- | | 0-402425- | 07/21/76- | 18- | 16- | 15.1- | - | S- | 7.1- | 35- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 65.8889- | 166.7264- | 2- | 29- | | 0-402433- | 07/21/76- | 19- | 19- | 15.8- | - | S- | 8.2- | 106- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 65.9308- | 166.7222- | 2- | 29- | | 0-402434- | 07/21/76- | 19- | 18- | 14.9- | - | S- | 8.3- | 29- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 65.9722- | 166.7083- | 2- | 29- | | 0-402435- | 07/21/76- | 19- | 15- | 15.2- | - | S- | 8.0- | 33- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 65.9736- | 166.6194- | 2- | 29- | | 0-402436- | 07/21/76- | 19- | | 14.5- | - | S- | 7.6- | 24- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.65 |
| 02- | 65.9889- | 166.5028- | 2- | 29- | | 0-402437- | 07/21/76- | 19- | 18- | 16.0- | - | S- | 7.4- | 91- | | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.06 |
| 02- | 65.9833- | 166.4347- | 2- | 27- | | 0-402438- | 07/21/76- | 19- | 15- | 16.0- | - | - | 7.6- | 80- | | 9- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 65.9889- | 166.3014- | 2- | 27- | | 0-402439- | 07/21/76- | 19- | 15- | 14.8- | C- | - | 7.2- | 175- | | 9- | 7- | 2- | - | - | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.50* |
| 02- | 65.9778- | 166.2222- | 2- | 27- | | 0-402440- | 07/21/76- | 19- | 15- | 14.0- | - | - | 7.8- | 240- | | 0- | 7- | 2- | 5- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.12 |
| 02- | 65.9278- | 166.5708- | 2- | 29- | | 0-402443- | 07/22/76- | 8- | 14- | 11.5- | C- | - | 6.6- | 120- | | | 2- | 7- | - | - | - | - | 1- | - | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9472- | 166.6306- | 2- | 27- | | 0-402444- | 07/22/76- | 8- | 14- | 12.2- | C- | - | 7.1- | 140- | | 3- | 2- | 7- | - | - | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 65.8861- | 166.6042- | 2- | 27- | | 0-402445- | 07/22/76- | 9- | 17- | 10.7- | - | - | 7.0- | 480- | | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.73 |
| 02- | 65.9653- | 166.0111- | 2- | 27- | | 0-402494- | 07/22/76- | 14- | 16- | 11.9- | - | - | 8.0- | 550- | | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.38 |
| 02- | 65.9833- | 166.0542- | 2- | 27- | | 0-402495- | 07/22/76- | 14- | 17- | 11.2- | - | - | 7.9- | 600- | | 13- | 2- | 3- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.34 |
| 02- | 65.9778- | 165.8708- | 2- | 27- | | 0-402496- | 07/22/76- | 14- | 17- | 16.0- | - | - | 7.0- | 132- | | 0- | 2- | 7- | 6- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.23 |
| 02- | 65.9611- | 165.7667- | 2- | 27- | | 0-402521- | 07/22/76- | 16- | 19- | 10.6- | - | - | 7.6- | 470- | | 19- | 2- | 3- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.49 |
| 02- | 65.9742- | 165.6847- | 2- | 27- | | 0-402522- | 07/22/76- | 17- | 15- | 12.9- | - | - | 7.8- | 95- | | | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9847- | 165.5806- | 2- | 27- | | 0-402523- | 07/22/76- | 17- | 19- | 14.6- | - | - | 6.8- | 125- | | 23- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9694- | 165.4583- | 2- | 29- | | 0-402524- | 07/22/76- | 18- | 15- | 16.2- | - | - | 8.1- | 180- | | | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.8153- | 164.8139- | 2- | 27- | | 0-402572- | 07/26/76- | 17- | 19- | 11.3- | - | - | 7.6- | 180- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.27 |
| 02- | 65.8292- | 164.7956- | 2- | 27- | | 0-402573- | 07/26/76- | 17- | 19- | 10.0- | - | - | 7.8- | 200- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.49 |
| 02- | 65.9703- | 165.2800- | 2- | 27- | | 0-402586- | 07/26/76- | 19- | 18- | 11.1- | - | - | 6.8- | 560- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.30 |
| 02- | 65.9756- | 165.3108- | 2- | 29- | | 0-402587- | 07/26/76- | 19- | 19- | 17.6- | - | - | 8.5- | 179- | | | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 66.1400- | 165.2817- | 2- | 29- | | 0-402599- | 07/26/76- | 20- | 17- | 13.0- | - | - | 7.4- | - | | 6- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.84 |
| 02- | 66.1117- | 165.2333- | 2- | 29- | | 0-402600- | 07/26/76- | 20- | 17- | 17.7- | - | S- | 8.6- | 44- | | | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.05 |
| 02- | 66.0692- | 165.1831- | 2- | 29- | | 0-402601- | 07/26/76- | 20- | 18- | 14.3- | - | - | 7.2- | 220- | | 13- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.11 |
| 02- | 66.0792- | 165.1700- | 2- | 27- | | 0-402602- | 07/26/76- | 20- | 17- | 11.0- | - | - | 7.0- | 310- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.23 |
| 02- | 66.0264- | 165.0625- | 2- | 29- | | 0-402603- | 07/26/76- | 20- | 17- | 17.3- | - | S- | 8.2- | 27- | | | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.48 |
| 02- | 65.9817- | 164.9028- | 2- | 27- | | 0-402604- | 07/26/76- | 20- | 18- | 11.2- | - | - | 7.1- | 850- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.53 |
| 02- | 65.9347- | 164.8500- | 2- | 27- | | 0-402605- | 07/26/76- | 20- | 17- | 12.1- | - | - | 7.4- | 130- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.53 |
| 02- | 66.0233- | 165.3683- | 2- | 29- | | 0-402616- | 07/26/76- | 20- | 12- | 17.3- | - | S- | 7.7- | 45- | | | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.11 |
| 02- | 66.0733- | 166.5717- | 2- | 27- | | 0-402632- | 07/26/76- | 23- | 11- | 8.0- | - | - | 7.6- | 10- | | | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.65 |
| 02- | 66.0500- | 166.6667- | 2- | 27- | | 0-402633- | 07/26/76- | 24- | 10- | 7.6- | - | - | 7.6- | 195- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.17 |
| 02- | 66.0283- | 166.6486- | 2- | 27- | | 0-402634- | 07/26/76- | 24- | 10- | 8.0- | - | - | 7.8- | 10- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.82 |
| 02- | 66.0361- | 166.7189- | 2- | 29- | | 0-402635- | 07/26/76- | 24- | 10- | 9.2- | - | - | 10.2- | - | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 66.0267- | 166.7278- | 2- | 27- | | 0-402636- | 07/26/76- | 24- | 10- | 8.2- | - | - | 7.8- | - | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.15 |
| 02- | 66.0100- | 166.6044- | 2- | 27- | | 0-402637- | 07/26/76- | 24- | 10- | 8.6- | - | - | 8.2- | 3100- | | 13- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.0067- | 166.5450- | 2- | 29- | | 0-402638- | 07/26/76- | 24- | 10- | 8.2- | - | - | 10.2- | 310- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0267- | 166.5333- | 2- | 29- | | 0-402639- | 07/26/76- | 24- | 10- | 11.7- | - | S- | 7.2- | 60- | | | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.14 |
| 02- | 66.0400- | 166.5333- | 2- | 27- | | 0-402640- | 07/26/76- | 24- | 10- | 8.2- | - | - | 7.8- | 340- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.25 |
| 02- | 66.0400- | 166.3900- | 2- | 29- | | 0-402643- | 07/26/76- | 24- | 10- | 6.4- | - | - | 7.8- | 95- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 66.0283- | 166.3250- | 2- | 29- | | 0-402644- | 07/26/76- | 24- | 10- | 6.8- | - | - | 7.6- | 200- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.30 |
| 02- | 66.0403- | 166.2300- | 2- | 27- | | 0-402647- | 07/26/76- | 1- | 9- | 6.4- | - | - | 7.8- | 420- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.20 |
| 02- | 66.0319- | 166.1783- | 2- | 27- | | 0-402648- | 07/26/76- | 1- | 9- | 6.8- | - | - | 8.2- | 409- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.40 |
| 02- | 66.0350- | 166.0706- | 2- | 27- | | 0-402649- | 07/26/76- | 1- | 9- | 7.0- | - | - | 7.6- | 500- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.73 |

## APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 65.4500- | 164.5667- | 2- | 27- | | 0-402086 | 27698 | -55 | -25 | 5 | 97 | 6421 | 12 | -25 | -25 | 3 | 434 | 134 |
| 02- | 65.8903- | 166.9011- | 2- | 29- | | 0-402420 | 2467 | -55 | -25 | -4 | 1443 | 1673 | 61 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9000- | 166.8556- | 2- | 29- | | 0-402421 | 18224 | -55 | -25 | -4 | 609 | 3482 | 15 | -25 | -25 | 3 | 199 | 112 |
| 02- | 65.9456- | 166.8889- | 2- | 29- | | 0-402422 | 827 | -55 | -25 | -4 | 1125 | 693 | 14 | -25 | -25 | 3 | 199 | 199 |
| 02- | 65.9722- | 166.9333- | 2- | 29- | | 0-402423 | 2217 | -55 | -25 | 9 | 671 | 1618 | 7 | -25 | -25 | 13 | 637 | 55 |
| 02- | 65.9667- | 166.8667- | 2- | 29- | | 0-402424 | 1019 | -55 | -25 | -4 | 946 | 749 | 14 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9544- | 166.8456- | 2- | 29- | | 0-402425 | 1169 | -55 | -25 | -4 | 735 | 968 | 13 | -25 | -25 | 3 | 199 | 201 |
| 02- | 65.8889- | 166.7264- | 2- | 29- | | 0-402433 | 18080 | -55 | -25 | -4 | 2210 | 7193 | 44 | -25 | -25 | 5 | 234 | 167 |
| 02- | 65.9306- | 166.7222- | 2- | 29- | | 0-402434 | 3010 | -55 | -25 | -4 | 714 | 772 | 20 | -25 | -25 | 3 | 199 | 137 |
| 02- | 65.9722- | 166.7083- | 2- | 29- | | 0-402435 | 1630 | -55 | -25 | 6 | 713 | 1210 | 14 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9736- | 166.6194- | 2- | 29- | | 0-402436 | 1353 | -55 | -25 | -4 | 398 | 826 | 16 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9889- | 166.5028- | 2- | 29- | | 0-402437 | 12665 | -55 | -25 | 7 | 2661 | 6895 | 54 | -25 | -25 | 19 | 199 | 169 |
| 02- | 65.9833- | 166.4347- | 2- | 27- | | 0-402438 | 7625 | -55 | -25 | -4 | 1777 | 2599 | 40 | -25 | -25 | 3 | 199 | 83 |
| 02- | 65.9889- | 166.3014- | 2- | 27- | | 0-402439 | 29648 | -55 | -25 | -4 | 549 | 2993 | 35 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9776- | 166.2222- | 2- | 27- | | 0-402440 | 50983 | 108 | -25 | -4 | 48 | 4846 | -3 | -25 | 131 | 6 | 635 | -50 |
| 02- | 65.9276- | 166.5708- | 2- | 29- | | 0-402443 | 5866 | 63 | -25 | -4 | 721 | 4561 | 4 | 80 | 35 | 3 | 199 | -50 |
| 02- | 65.9472- | 166.6306- | 2- | 27- | | 0-402444 | 9318 | 117 | 40 | -4 | 316 | 6954 | 15 | 92 | 185 | 18 | 199 | -50 |
| 02- | 65.8861- | 166.6042- | 2- | 27- | | 0-402445 | 64070 | -55 | -25 | 6 | 211 | 5752 | 18 | -25 | -25 | 10 | 1116 | -50 |
| 02- | 65.9653- | 166.0111- | 2- | 27- | | 0-402494 | 125000 | 152 | 50 | 17 | 1652 | 21770 | 55 | -25 | 143 | 42 | 1417 | 315 |
| 02- | 65.9833- | 166.0542- | 2- | 27- | | 0-402495 | 146000 | 225 | 51 | 19 | 851 | 33812 | 65 | -25 | 181 | 28 | 1297 | 275 |
| 02- | 65.9776- | 165.8708- | 2- | 27- | | 0-402496 | 100000 | 217 | 65 | 29 | 2680 | 17976 | 46 | -25 | 151 | 66 | 2574 | 300 |
| 02- | 65.9611- | 165.7667- | 2- | 27- | | 0-402521 | 60273 | 98 | 59 | 15 | 302 | 9272 | 25 | -25 | 147 | 24 | 1742 | 184 |
| 02- | 65.9742- | 165.6047- | 2- | 27- | | 0-402522 | 10298 | 106 | 39 | 18 | 5098 | 4351 | 58 | -25 | 103 | 22 | 565 | 150 |
| 02- | 65.9847- | 165.5806- | 2- | 27- | | 0-402523 | 22503 | 83 | 49 | 20 | 3245 | 5574 | 37 | 27 | 120 | 32 | 830 | -50 |
| 02- | 65.9694- | 165.4583- | 2- | 29- | | 0-402524 | 15763 | -55 | 59 | 16 | 2433 | 7765 | 113 | 32 | 120 | 22 | 876 | -50 |
| 02- | 65.8153- | 164.8139- | 2- | 27- | | 0-402572 | 31517 | 102 | 45 | 14 | 295 | 6724 | 20 | -25 | 85 | 19 | 993 | -50 |
| 02- | 65.8292- | 164.7956- | 2- | 27- | | 0-402573 | 12264 | 182 | 189 | 116 | 236 | 3498 | 120 | 134 | 526 | 29 | 1497 | 188 |
| 02- | 65.9703- | 165.2800- | 2- | 27- | | 0-402586 | 11235 | -55 | -25 | 8 | 1211 | 11586 | 32 | -25 | 56 | 16 | 452 | -50 |
| 02- | 65.9756- | 165.3108- | 2- | 29- | | 0-402587 | 38953 | 101 | -25 | 11 | 3669 | 15792 | 68 | -25 | -25 | 7 | 577 | 60 |
| 02- | 66.1400- | 165.2817- | 2- | 29- | | 0-402599 | 66742 | 145 | 38 | 20 | 2221 | 153000 | 108 | -25 | 159 | 37 | 3071 | 101 |
| 02- | 66.1117- | 165.2333- | 2- | 29- | | 0-402600 | 6527 | 59 | 34 | 28 | 2360 | 2604 | 118 | -25 | 107 | 18 | 372 | 92 |
| 02- | 66.0692- | 165.1831- | 2- | 29- | | 0-402601 | 8558 | 65 | -25 | 11 | 5456 | 3960 | 861 | -25 | 104 | 10 | 265 | -50 |
| 02- | 66.0792- | 165.1700- | 2- | 27- | | 0-402602 | 22443 | -55 | -25 | 15 | 711 | 4208 | 40 | -25 | 78 | 14 | 441 | 68 |
| 02- | 66.0264- | 165.0625- | 2- | 29- | | 0-402603 | 3496 | 78 | -25 | 9 | 2117 | 1612 | 49 | -25 | 44 | 9 | 199 | 266 |
| 02- | 65.9817- | 164.9028- | 2- | 27- | | 0-402604 | 21567 | -55 | 26 | 9 | 269 | 2513 | 10 | -25 | 72 | 21 | 554 | 102 |
| 02- | 65.9347- | 164.8500- | 2- | 27- | | 0-402605 | 26246 | 65 | -25 | 8 | 155 | 4418 | 10 | -25 | 59 | 10 | 324 | 167 |
| 02- | 66.0233- | 165.3683- | 2- | 29- | | 0-402616 | 8592 | -55 | -25 | 11 | 2196 | 4707 | 62 | -25 | 78 | 20 | 303 | 269 |
| 02- | 66.0733- | 166.5717- | 2- | 27- | | 0-402632 | 97617 | 210 | 50 | 20 | 1405 | 242000 | 72 | -25 | 136 | 23 | 4094 | 191 |
| 02- | 66.0500- | 166.6667- | 2- | 27- | | 0-402633 | 173000 | 165 | 64 | 35 | 5827 | 65574 | 221 | -25 | 160 | 40 | 1647 | 191 |
| 02- | 66.0283- | 166.6406- | 2- | 27- | | 0-402634 | 92332 | 123 | 121 | 32 | 2194 | 33781 | 101 | -25 | 469 | 49 | 2003 | 83 |
| 02- | 66.0361- | 166.7189- | 2- | 29- | | 0-402635 | 125000 | 280 | 54 | 26 | 734 | 224000 | 75 | -25 | 120 | 31 | 6291 | -50 |
| 02- | 66.0267- | 166.7276- | 2- | 27- | | 0-402636 | 98898 | 199 | 46 | 23 | 1291 | 177000 | 92 | -25 | 96 | 25 | 4671 | -50 |
| 02- | 66.0100- | 166.6044- | 2- | 27- | | 0-402637 | 74086 | 84 | -25 | 15 | 1624 | 35682 | 68 | -25 | -25 | 45 | 1446 | -50 |
| 02- | 66.0067- | 166.5450- | 2- | 29- | | 0-402638 | 2181 | -55 | 30 | -4 | 44 | 1556 | -3 | 80 | 246 | 13 | 199 | -50 |
| 02- | 66.0267- | 166.5333- | 2- | 29- | | 0-402639 | 4041 | -55 | -25 | 5 | 824 | 2624 | 18 | -25 | 27 | 9 | 199 | -50 |
| 02- | 66.0400- | 166.5333- | 2- | 27- | | 0-402640 | 56728 | 68 | -25 | 8 | 1462 | 7047 | 30 | -25 | -25 | 14 | 781 | -50 |
| 02- | 66.0400- | 166.3900- | 2- | 29- | | 0-402643 | 6079 | -55 | -25 | 9 | 1540 | 3538 | 50 | 30 | 34 | 11 | 223 | -50 |
| 02- | 66.0283- | 166.3250- | 2- | 29- | | 0-402644 | 44087 | -55 | -25 | 9 | 1534 | 6557 | 63 | -25 | 61 | 16 | 631 | -50 |
| 02- | 66.0403- | 166.2306- | 2- | 27- | | 0-402647 | 137000 | 134 | 36 | 18 | 1719 | 24518 | 120 | -25 | 53 | 17 | 1494 | -50 |
| 02- | 66.0319- | 166.1783- | 2- | 27- | | 0-402648 | 115000 | 119 | 30 | 15 | 4632 | 21257 | 328 | -25 | 29 | 56 | 1436 | 69 |
| 02- | 66.0350- | 166.0706- | 2- | 27- | | 0-402649 | 81144 | 74 | -25 | 8 | 685 | 13436 | 33 | -25 | 47 | 14 | 1107 | -50 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb |
| 02- | 65.9694- | 165.0333- | 2- | 27- | 0- | 402651- | 07/27/76- | 16- | 19- | 13.1- | - | - | 7.6- | 60- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 65.9792- | 165.1278- | 2- | 29- | 0- | 402653- | 07/27/76- | 16- | 22- | 17.8- | - | - | 8.4- | 58- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0306- | 165.1461- | 2- | 29- | 0- | 402654- | 07/27/76- | 16- | 22- | 17.8- | - | S- | 8.3- | 28- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.02 |
| 02- | 66.0139- | 165.1950- | 2- | 29- | 0- | 402655- | 07/27/76- | 16- | 21- | 17.1- | - | S- | 7.9- | 68- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.08 |
| 02- | 66.0283- | 165.4467- | 2- | 29- | 0- | 402656- | 07/27/76- | 16- | 23- | 17.3- | - | S- | 7.9- | 71- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0375- | 165.5639- | 2- | 29- | 0- | 402657- | 07/27/76- | 16- | 21- | 17.4- | - | S- | 7.5- | 145- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.09 |
| 02- | 66.0333- | 165.6278- | 2- | 29- | 0- | 402658- | 07/27/76- | 16- | 22- | 17.4- | - | S- | 8.0- | 85- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.06 |
| 02- | 66.0292- | 165.7722- | 2- | 29- | 0- | 402659- | 07/27/76- | 16- | 21- | 17.2- | - | S- | 7.9- | 69- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0261- | 165.8567- | 2- | 29- | 0- | 402660- | 07/27/76- | 16- | 23- | 17.1- | - | S- | 7.9- | 79- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.05 |
| 02- | 66.0283- | 165.9517- | 2- | 29- | 0- | 402661- | 07/27/76- | 16- | 22- | 18.0- | - | S- | 7.9- | 64- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2389- | 165.5417- | 2- | 29- | 0- | 402670- | 07/27/76- | 17- | 23- | 16.8- | - | S- | 8.7- | 23- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.02 |
| 02- | 66.2767- | 165.5361- | 2- | 29- | 0- | 402671- | 07/27/76- | 17- | 21- | 16.6- | - | S- | 8.2- | 26- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 66.3667- | 165.5367- | 2- | 29- | 0- | 402677- | 07/27/76- | 18- | 20- | 16.2- | - | S- | 7.5- | 27- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.3208- | 165.5533- | 2- | 29- | 0- | 402678- | 07/27/76- | 18- | 21- | 16.6- | - | S- | 7.4- | 45- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.06 |
| 02- | 66.3667- | 165.4567- | 2- | 29- | 0- | 402679- | 07/27/76- | 18- | 19- | 16.6- | - | S- | 7.2- | 61- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.3375- | 165.4461- | 2- | 29- | 0- | 402680- | 07/27/76- | 18- | 21- | 16.6- | - | S- | 7.4- | 52- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2750- | 165.4467- | 2- | 29- | 0- | 402681- | 07/27/76- | 18- | 18- | 16.2- | - | S- | 7.7- | 46- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.17 |
| 02- | 66.2500- | 165.4244- | 2- | 29- | 0- | 402682- | 07/27/76- | 18- | 18- | 16.9- | - | S- | 7.5- | 84- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.07 |
| 02- | 66.2117- | 165.2997- | 2- | 29- | 0- | 402684- | 07/27/76- | 18- | 19- | 18.1- | - | S- | 7.7- | 45- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.1650- | 165.2606- | 2- | 29- | 0- | 402685- | 07/27/76- | 18- | 20- | 17.5- | - | S- | 7.4- | 145- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.1133- | 165.1372- | 2- | 29- | 0- | 402686- | 07/27/76- | 18- | 20- | 17.5- | - | S- | 8.1- | 58- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.17 |
| 02- | 66.0483- | 165.0464- | 2- | 29- | 0- | 402687- | 07/27/76- | 18- | 20- | 17.9- | - | S- | 7.8- | 54- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.34 |
| 02- | 66.0125- | 164.9375- | 2- | 29- | 0- | 402688- | 07/27/76- | 18- | 19- | 17.8- | - | S- | 7.7- | 108- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.21 |
| 02- | 66.0028- | 164.8083- | 2- | 29- | 0- | 402689- | 07/27/76- | 18- | 21- | 17.8- | - | S- | 8.2- | 33- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.14 |
| 02- | 65.9306- | 164.6667- | 2- | 27- | 0- | 402691- | 07/27/76- | 19- | 18- | 11.3- | - | - | 7.4- | 140- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9153- | 164.7083- | 2- | 27- | 0- | 402692- | 07/27/76- | 19- | 19- | 12.1- | - | - | 7.2- | 180- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.50 |
| 02- | 65.6583- | 164.3361- | 2- | 27- | 0- | 402705- | 07/28/76- | 14- | 10- | 11.8- | - | - | 7.4- | 410- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 1.59 |
| 02- | 65.6422- | 164.3472- | 2- | 27- | 0- | 402706- | 07/28/76- | 14- | 11- | 11.8- | - | - | 7.4- | 390- | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.30 |
| 02- | 65.5972- | 164.2792- | 2- | 27- | 0- | 402707- | 07/28/76- | 14- | 12- | 14.1- | - | - | 7.4- | 450- | 6- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 1.13 |
| 02- | 65.6611- | 164.2222- | 2- | 27- | 0- | 402708- | 07/28/76- | 14- | 12- | 14.8- | - | - | 7.6- | 520- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.66 |
| 02- | 65.6319- | 164.1833- | 2- | 27- | 0- | 402709- | 07/28/76- | 15- | 11- | 14.5- | - | - | 7.4- | 410- | 9- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.93 |
| 02- | 65.6639- | 164.1281- | 2- | 27- | 0- | 402710- | 07/28/76- | 15- | 11- | 15.0- | - | - | 7.8- | 410- | 3- | 7- | 2- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.24 |
| 02- | 65.6389- | 164.0917- | 2- | 29- | 0- | 402711- | 07/28/76- | 15- | 10- | 16.3- | - | - | 8.4- | 84- | -2- | 7- | 5- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.11 |
| 02- | 65.6431- | 164.0278- | 2- | 27- | 0- | 402712- | 07/28/76- | 15- | 10- | 13.6- | - | - | 8.0- | 44- | 9- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | 1- | - | - | - | 0.01 |
| 02- | 65.6819- | 163.9847- | 2- | 27- | 0- | 402714- | 07/28/76- | 15- | 14- | 14.6- | - | - | 8.0- | 210- | 16- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.12 |
| 02- | 65.6806- | 163.7903- | 2- | 27- | 0- | 402715- | 07/28/76- | 15- | 12- | 14.9- | - | - | 7.8- | 80- | 3- | 2- | 7- | 6- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | 1- | - | - | - | 0.02 |
| 02- | 65.6861- | 163.6833- | 2- | 27- | 0- | 402716- | 07/28/76- | 15- | 13- | 14.9- | - | - | 8.2- | 50- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.01 |
| 02- | 65.6931- | 163.6417- | 2- | 29- | 0- | 402717- | 07/28/76- | 15- | 11- | 15.4- | - | - | 8.5- | 14- | -2- | 7- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.01 |
| 02- | 65.7069- | 163.6125- | 2- | 29- | 0- | 402718- | 07/28/76- | 15- | 10- | 16.3- | - | - | 7.6- | 15- | -7- | 2- | 4- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.15 |
| 02- | 65.7167- | 163.7014- | 2- | 27- | 0- | 402719- | 07/28/76- | 16- | 10- | 14.9- | - | - | 8.0- | 60- | 9- | 2- | 7- | 5- | 6- | - | - | -2- | 4- | 3- | 3- | 3- | -2- | - | - | - | - | 0.01 |
| 02- | 65.7153- | 163.7861- | 2- | 29- | 0- | 402720- | 07/28/76- | 16- | 11- | 16.3- | - | - | 7.1- | 55- | -7- | 2- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.01 |
| 02- | 65.7417- | 163.7444- | 2- | 27- | 0- | 402721- | 07/28/76- | 16- | 10- | 14.2- | - | - | 7.6- | 85- | 9- | 7- | 2- | 6- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 3- | -2- | - | - | - | - | 0.01 |
| 02- | 65.7450- | 163.8264- | 2- | 27- | 0- | 402722- | 07/28/76- | 16- | 11- | 15.4- | - | - | 8.2- | 195- | 13- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.01 |
| 02- | 65.7417- | 163.8931- | 2- | 27- | 0- | 402723- | 07/28/76- | 16- | 11- | 12.8- | - | - | 8.0- | 495- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.19 |
| 02- | 65.7278- | 164.0972- | 2- | 29- | 0- | 402725- | 07/28/76- | 14- | 10- | 16.9- | - | - | 7.7- | 200- | -2- | 7- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.31 |
| 02- | 65.7167- | 164.0472- | 2- | 29- | 0- | 402726- | 07/28/76- | 16- | 13- | 16.2- | - | - | 8.0- | 54- | -7- | 2- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.7444- | 164.1139- | 2- | 27- | 0- | 402727- | 07/28/76- | 16- | 12- | 13.8- | - | - | 7.2- | 500- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 1.00 |
| 02- | 65.7472- | 164.0097- | 2- | 27- | 0- | 402728- | 07/28/76- | 16- | 12- | 13.8- | - | - | 8.0- | 41- | 23- | 7- | 2- | 6- | 6- | 1- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 0.01 |
| 02- | 65.7278- | 164.1708- | 2- | 27- | 0- | 402729- | 07/28/76- | 16- | 12- | 11.8- | - | - | 7.6- | 465- | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 1.57 |
| 02- | 65.7875- | 164.4333- | 2- | 27- | 0- | 402735- | 07/28/76- | 17- | 11- | 10.6- | - | - | 7.2- | 150- | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.09 |
| 02- | 65.7944- | 164.5264- | 2- | 27- | 0- | 402737- | 07/28/76- | 17- | 11- | 11.0- | - | - | 7.2- | 230- | 16- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 1.39 |

## APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 65.9694- | 165.0333- | 2- | 27- | | 0-402651 | 11421 | -55 | -25 | 8 | 2373 | 4146 | 31 | -25 | -25 | 11 | 199 | -50 |
| 02- | 65.9792- | 165.1278- | 2- | 29- | | 0-402653 | 5965 | -55 | -25 | 8 | 2931 | 4113 | 39 | 28 | 66 | 17 | 234 | -50 |
| 02- | 66.0306- | 165.1461- | 2- | 29- | | 0-402654 | 7485 | 71 | 29 | 16 | 5596 | 3923 | 126 | 29 | 100 | 45 | 337 | 84 |
| 02- | 66.0139- | 165.1950- | 2- | 29- | | 0-402655 | 15990 | 86 | -25 | 14 | 2519 | 7274 | 46 | -25 | -25 | 19 | 199 | 110 |
| 02- | 66.0283- | 165.4467- | 2- | 29- | | 0-402656 | 14603 | -55 | -25 | -4 | 3428 | 5472 | 52 | -25 | -25 | 20 | 199 | -50 |
| 02- | 66.0375- | 165.5639- | 2- | 29- | | 0-402657 | 25923 | 60 | -25 | -4 | 1810 | 9458 | 150 | -25 | -25 | 3 | 199 | 94 |
| 02- | 66.0333- | 165.6278- | 2- | 29- | | 0-402658 | 6294 | -55 | -25 | -4 | 1942 | 4307 | 31 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.0292- | 165.7722- | 2- | 29- | | 0-402659 | 8287 | -55 | -25 | -4 | 1505 | 4717 | 21 | -25 | -25 | 6 | 199 | -50 |
| 02- | 66.0261- | 165.8567- | 2- | 29- | | 0-402660 | 14993 | -55 | -25 | 6 | 1920 | 7165 | 37 | -25 | -25 | 6 | 199 | -50 |
| 02- | 66.0283- | 165.9517- | 2- | 29- | | 0-402661 | 10956 | -55 | -25 | 12 | 3589 | 7063 | 51 | -25 | -25 | 19 | 199 | -50 |
| 02- | 66.2389- | 165.5417- | 2- | 29- | | 0-402670 | 3384 | -55 | -25 | -4 | 1447 | 2404 | 21 | -25 | -25 | 13 | 199 | -50 |
| 02- | 66.2767- | 165.5361- | 2- | 29- | | 0-402671 | 2719 | -55 | -25 | 5 | 1944 | 1995 | 15 | -25 | -25 | 12 | 199 | -50 |
| 02- | 66.3667- | 165.5367- | 2- | 29- | | 0-402677 | 3067 | -55 | -25 | -4 | 592 | 1765 | 9 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.3206- | 165.5533- | 2- | 29- | | 0-402678 | 3311 | -55 | -25 | -4 | 1506 | 2517 | 22 | -25 | -25 | 7 | 199 | -50 |
| 02- | 66.3667- | 165.4567- | 2- | 29- | | 0-402679 | 8114 | -55 | -25 | -4 | 1827 | 4496 | 16 | -25 | -25 | 35 | 199 | -50 |
| 02- | 66.3375- | 165.4461- | 2- | 29- | | 0-402680 | 8476 | -55 | -25 | -4 | 343 | 4023 | 20 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.2750- | 165.4467- | 2- | 29- | | 0-402681 | 5927 | -55 | -25 | -4 | 1312 | 5318 | 25 | -25 | -25 | 8 | 199 | -50 |
| 02- | 66.2500- | 165.4244- | 2- | 29- | | 0-402682 | 12651 | 70 | -25 | -4 | 375 | 7291 | 32 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.2117- | 165.2997- | 2- | 29- | | 0-402684 | 6658 | -55 | -25 | 9 | 1604 | 3779 | 40 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.1650- | 165.2606- | 2- | 29- | | 0-402685 | 9355 | 62 | -25 | 8 | 542 | 3602 | 30 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.1133- | 165.1372- | 2- | 29- | | 0-402686 | 25794 | 70 | -25 | 7 | 1806 | 10676 | 39 | -25 | -25 | 13 | 199 | -50 |
| 02- | 66.0483- | 165.0464- | 2- | 29- | | 0-402687 | 7916 | -55 | -25 | 5 | 1724 | 3314 | 31 | -25 | -25 | 5 | 199 | -50 |
| 02- | 66.0125- | 164.9375- | 2- | 29- | | 0-402688 | 34391 | 71 | -25 | 11 | 1566 | 13849 | 41 | -25 | -25 | 18 | 315 | -50 |
| 02- | 66.0028- | 164.8063- | 2- | 29- | | 0-402689 | 4593 | 63 | -25 | -4 | 1935 | 2384 | 32 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9306- | 164.6667- | 2- | 27- | | 0-402691 | 23752 | 86 | -25 | -4 | 65 | 4097 | 4 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.9153- | 164.7083- | 2- | 27- | | 0-402692 | 30770 | -55 | -25 | -4 | 74 | 6009 | 9 | -25 | -25 | 3 | 234 | -50 |
| 02- | 65.6563- | 164.3361- | 2- | 27- | | 0-402705 | 88261 | 169 | -25 | -4 | 158 | 18007 | 8 | -25 | -25 | 3 | 579 | 62 |
| 02- | 65.6422- | 164.3472- | 2- | 27- | | 0-402706 | 91940 | 106 | 28 | 18 | 5503 | 23272 | 113 | -25 | 92 | 59 | 1291 | -50 |
| 02- | 65.5972- | 164.2792- | 2- | 27- | | 0-402707 | 92763 | 111 | -25 | 7 | 451 | 20939 | 13 | -25 | -25 | 7 | 936 | -50 |
| 02- | 65.6611- | 164.2222- | 2- | 27- | | 0-402708 | 136000 | 142 | -25 | 10 | 435 | 14527 | 159 | -25 | -25 | 13 | 1003 | -50 |
| 02- | 65.6319- | 164.1833- | 2- | 27- | | 0-402709 | 101000 | 132 | -25 | 11 | 592 | 25286 | 34 | -25 | 34 | 10 | 1107 | -50 |
| 02- | 65.6639- | 164.1281- | 2- | 27- | | 0-402710 | 159000 | 210 | 28 | 18 | 1221 | 32057 | 95 | -25 | 45 | 33 | 1916 | -50 |
| 02- | 65.6369- | 164.0917- | 2- | 29- | | 0-402711 | 24510 | -55 | -25 | 15 | 3814 | 6413 | 110 | -25 | 29 | 22 | 199 | -50 |
| 02- | 65.6431- | 164.0276- | 2- | 27- | | 0-402712 | 6592 | -55 | -25 | 13 | 6009 | 2891 | 278 | -25 | -25 | 31 | 199 | -50 |
| 02- | 65.6819- | 163.9847- | 2- | 27- | | 0-402714 | 77249 | 98 | -25 | 10 | 2928 | 3430 | 747 | -25 | 29 | 34 | 742 | -50 |
| 02- | 65.6806- | 163.7903- | 2- | 27- | | 0-402715 | 4220 | 57 | -25 | 5 | 20845 | 3170 | 508 | -25 | -25 | 11 | 199 | -50 |
| 02- | 65.6861- | 163.6833- | 2- | 27- | | 0-402716 | 4737 | 67 | -25 | 8 | 5349 | 3954 | 499 | -25 | -25 | 3 | 199 | 74 |
| 02- | 65.6931- | 163.6417- | 2- | 29- | | 0-402717 | 1919 | 62 | -25 | 17 | 2080 | 1120 | 31 | -25 | -25 | 6 | 199 | -50 |
| 02- | 65.7069- | 163.6125- | 2- | 29- | | 0-402718 | 3879 | -55 | -25 | 17 | 4648 | 2144 | 127 | -25 | -25 | 49 | 199 | -50 |
| 02- | 65.7167- | 163.7014- | 2- | 27- | | 0-402719 | 3484 | 63 | -25 | 6 | 30288 | 2741 | 54 | -25 | 38 | 15 | 199 | 80 |
| 02- | 65.7153- | 163.7861- | 2- | 29- | | 0-402720 | 12489 | 68 | -25 | 5 | 1846 | 5633 | 45 | -25 | -25 | 6 | 199 | -50 |
| 02- | 65.7417- | 163.7444- | 2- | 27- | | 0-402721 | 10131 | -55 | -25 | 6 | 6616 | 3361 | 131 | -25 | -25 | 9 | 199 | -50 |
| 02- | 65.7450- | 163.8264- | 2- | 27- | | 0-402722 | 66801 | 83 | -25 | 9 | 2751 | 4445 | 237 | -25 | -25 | 11 | 523 | -50 |
| 02- | 65.7417- | 163.8931- | 2- | 27- | | 0-402723 | 177000 | 189 | 32 | 18 | 4471 | 10549 | 976 | -25 | 83 | 53 | 1379 | 71 |
| 02- | 65.7278- | 164.0972- | 2- | 29- | | 0-402725 | 90794 | 103 | -25 | 11 | 1580 | 15837 | 116 | -25 | 29 | 22 | 907 | -50 |
| 02- | 65.7167- | 164.0472- | 2- | 29- | | 0-402726 | 28217 | -55 | -25 | 13 | 2140 | 2890 | 65 | -25 | 34 | 28 | 361 | -50 |
| 02- | 65.7444- | 164.1139- | 2- | 27- | | 0-402727 | 121000 | 193 | -25 | 12 | 4996 | 33986 | 243 | -25 | -25 | 52 | 945 | 83 |
| 02- | 65.7472- | 164.0097- | 2- | 27- | | 0-402728 | 4199 | -55 | -25 | -4 | 3319 | 1690 | 71 | -25 | -25 | 7 | 199 | -50 |
| 02- | 65.7278- | 164.1706- | 2- | 27- | | 0-402729 | 99304 | 169 | -25 | 9 | 443 | 39159 | 26 | -25 | -25 | 9 | 1033 | -50 |
| 02- | 65.7875- | 164.4333- | 2- | 27- | | 0-402735 | 27336 | 76 | -25 | 10 | 315 | 13424 | 15 | -25 | 75 | 13 | 535 | -50 |
| 02- | 65.7944- | 164.5264- | 2- | 27- | | 0-402737 | 50123 | 70 | -25 | 6 | 1601 | 10260 | 14 | -25 | -25 | 9 | 521 | -50 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb |
| 02- | 65.5389- | 164.3583- | 2- | 27- | | 0-402741- | 07/28/76- | 19- | 16- | 10.3- | - | - | 7.0- | 440- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 0.41 |
| 02- | 65.5625- | 164.4167- | 2- | 27- | | 0-402742- | 07/28/76- | 19- | 17- | 11.1- | - | - | 7.3- | 460- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 0.49 |
| 02- | 65.5292- | 164.1847- | 2- | 27- | | 0-402743- | 07/28/76- | 19- | 17- | 12.1- | - | - | 6.7- | 400- | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 0.21 |
| 02- | 65.5328- | 164.1250- | 2- | 29- | | 0-402744- | 07/28/76- | 19- | 18- | 14.2- | - | - | 7.1- | 90- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 0.01 |
| 02- | 65.5706- | 164.1689- | 2- | 27- | | 0-402745- | 07/28/76- | 19- | 17- | 10.2- | - | - | 7.1- | 500- | 16- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 0.03 |
| 02- | 65.5611- | 164.0444- | 2- | 29- | | 0-402746- | 07/28/76- | 20- | 16- | 12.7- | - | - | 6.6- | 105- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 1.86 |
| 02- | 65.5744- | 164.0931- | 2- | 29- | | 0-402747- | 07/28/76- | 20- | 17- | 11.8- | - | - | 6.8- | 29- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -2- | - | - | - | - | 0.62 |
| 02- | 65.5819- | 163.9528- | 2- | 29- | | 0-402748- | 07/28/76- | 20- | 17- | 12.7- | - | - | 6.9- | 60- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.02 |
| 02- | 65.5778- | 163.9722- | 2- | 29- | | 0-402749- | 07/28/76- | 20- | 18- | 11.3- | - | - | 7.4- | 90- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.07 |
| 02- | 65.6228- | 163.8861- | 2- | 27- | | 0-402751- | 07/28/76- | 20- | 17- | 11.1- | - | - | 7.5- | 40- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.5947- | 163.8000- | 2- | 29- | | 0-402752- | 07/28/76- | 20- | 18- | 15.9- | - | - | 8.3- | 52- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6031- | 163.7222- | 2- | 29- | | 0-402753- | 07/28/76- | 20- | 18- | 16.0- | - | - | 8.0- | 31- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.17 |
| 02- | 65.6181- | 163.6611- | 2- | 29- | | 0-402754- | 07/28/76- | 20- | 18- | 14.8- | - | - | 7.6- | 45- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6278- | 163.6222- | 2- | 29- | | 0-402755- | 07/28/76- | 20- | 16- | 12.7- | - | - | 7.6- | 85- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6569- | 163.5819- | 2- | 27- | | 0-402756- | 07/28/76- | 20- | 17- | 13.3- | - | - | 7.8- | 50- | 0- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.56 |
| 02- | 65.6575- | 163.5000- | 2- | 27- | | 0-402757- | 07/28/76- | 20- | 18- | 12.9- | - | - | 7.5- | 60- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.02 |
| 02- | 65.7028- | 163.5000- | 2- | 29- | | 0-402758- | 07/28/76- | 20- | 17- | 15.2- | - | - | 8.0- | 23- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.18 |
| 02- | 65.6911- | 163.4194- | 2- | 27- | | 0-402759- | 07/28/76- | 21- | 16- | 13.4- | - | - | 7.9- | 50- | 16- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.02 |
| 02- | 65.7069- | 163.4167- | 2- | 27- | | 0-402760- | 07/28/76- | 21- | 16- | 13.0- | - | - | 8.2- | 30- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.04 |
| 02- | 65.7278- | 163.2500- | 2- | 29- | | 0-402761- | 07/28/76- | 21- | 16- | 13.4- | - | - | 8.0- | 11- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.86 |
| 02- | 65.7333- | 163.2222- | 2- | 29- | | 0-402762- | 07/28/76- | 21- | 16- | 13.1- | - | - | 7.4- | 53- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.23 |
| 02- | 65.7472- | 163.2986- | 2- | 27- | | 0-402763- | 07/28/76- | 21- | 16- | 12.1- | - | - | 7.6- | 410- | 19- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.54 |
| 02- | 65.7625- | 163.3514- | 2- | 27- | | 0-402764- | 07/28/76- | 21- | 16- | 13.0- | - | - | 6.9- | 450- | 13- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.21 |
| 02- | 65.6861- | 163.3014- | 2- | 29- | | 0-402765- | 07/28/76- | 21- | 17- | 13.2- | - | - | 8.0- | 25- | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.06 |
| 02- | 65.6519- | 163.3250- | 2- | 29- | | 0-402766- | 07/28/76- | 21- | 16- | 13.0- | - | - | 7.4- | 17- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 0.10 |
| 02- | 65.6361- | 163.4250- | 2- | 27- | | 0-402767- | 07/28/76- | 21- | 16- | 14.1- | - | - | 7.7- | 50- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.23 |
| 02- | 65.6222- | 163.5250- | 2- | 27- | | 0-402768- | 07/28/76- | 21- | 15- | 11.7- | - | - | 7.3- | 31- | 9- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6042- | 163.5222- | 2- | 27- | | 0-402769- | 07/28/76- | 21- | 16- | 11.0- | - | - | 7.8- | 90- | 0- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.81 |
| 02- | 65.5769- | 163.6208- | 2- | 27- | | 0-402770- | 07/28/76- | 21- | 17- | 14.3- | - | - | 8.1- | 31- | 3- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.5919- | 163.6628- | 2- | 27- | | 0-402771- | 07/28/76- | 21- | 17- | 13.2- | - | - | 7.8- | 46- | 3- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.5614- | 163.6583- | 2- | 29- | | 0-402772- | 07/28/76- | 22- | 16- | 13.8- | - | - | 8.0- | 46- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.47 |
| 02- | 65.5514- | 163.7917- | 2- | 29- | | 0-402773- | 07/28/76- | 22- | 17- | 12.3- | - | - | 7.8- | 25- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.5167- | 163.8028- | 2- | 29- | | 0-402774- | 07/28/76- | 22- | 16- | 14.3- | - | - | 8.3- | 50- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.10 |
| 02- | 65.5319- | 163.8931- | 2- | 27- | | 0-402775- | 07/28/76- | 22- | 15- | 12.1- | - | - | 8.0- | 70- | 13- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 4- | | -1- | - | - | - | - | 0.43 |
| 02- | 65.5153- | 163.9458- | 2- | 29- | | 0-402776- | 07/28/76- | 22- | 15- | 14.7- | - | - | 8.4- | 120- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 4- | | -1- | - | - | - | - | 0.04 |
| 02- | 65.5042- | 163.9889- | 2- | 29- | | 0-402777- | 07/28/76- | 22- | 15- | 15.6- | - | - | 7.2- | 38- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 4- | | -1- | - | - | - | - | 0.03 |
| 02- | 65.5042- | 164.1333- | 2- | 29- | | 0-402778- | 07/28/76- | 22- | 15- | 14.4- | - | - | 7.1- | 34- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 4- | | -1- | - | - | - | - | 0.30 |
| 02- | 65.8639- | 164.6500- | 2- | 27- | | 0-402779- | 07/29/76- | 12- | 15- | 10.6- | - | - | 8.0- | 55- | 26- | 3- | 7- | 4- | 6- | 3- | 2- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.8333- | 164.6361- | 2- | 27- | | 0-402780- | 07/29/76- | 12- | 15- | | - | - | 7.4- | 2200- | 19- | 3- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.48 |
| 02- | 65.8861- | 164.7333- | 2- | 27- | | 0-402781- | 07/29/76- | 13- | 11- | 10.8- | - | - | 7.2- | 85- | 13- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.32 |
| 02- | 65.8875- | 164.7778- | 2- | 27- | | 0-402782- | 07/29/76- | 13- | 11- | 10.8- | - | - | 7.2- | 60- | 9- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.10 |
| 02- | 65.9706- | 164.6944- | 2- | 27- | | 0-402783- | 07/29/76- | 13- | 10- | 10.6- | - | - | 7.4- | 85- | 23- | 2- | 7- | 5- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.23 |
| 02- | 65.9806- | 164.6486- | 2- | 27- | | 0-402784- | 07/29/76- | 13- | 9- | 9.8- | - | - | 7.2- | 55- | 19- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.0139- | 164.7361- | 2- | 29- | | 0-402785- | 07/29/76- | 13- | 8- | 14.1- | | -S- | 8.1- | 3- | -2- | 7- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.39 |
| 02- | 66.0556- | 164.7375- | 2- | 27- | | 0-402786- | 07/29/76- | 13- | 8- | 11.0- | - | - | 7.4- | 45- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.74 |
| 02- | 66.0472- | 164.7778- | 2- | 27- | | 0-402787- | 07/29/76- | 13- | 10- | 11.2- | - | - | 8.0- | 50- | 6- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.05 |
| 02- | 66.0972- | 164.8875- | 2- | 29- | | 0-402788- | 07/29/76- | 14- | 8- | 14.9- | | -S- | 7.3- | 54- | -2- | 7- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.51 |
| 02- | 66.1264- | 165.0083- | 2- | 29- | | 0-402789- | 07/29/76- | 14- | 9- | 14.7- | | -S- | 7.1- | 152- | -2- | 7- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.1444- | 165.0736- | 2- | 27- | | 0-402790- | 07/29/76- | 14- | 9- | 10.8- | - | - | 7.0- | 65- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.26 |
| 02- | 66.1458- | 165.0458- | 2- | 29- | | 0-402791- | 07/29/76- | 14- | 10- | 10.9- | - | - | 8.2- | 45- | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.1944- | 165.1556- | 2- | 29- | | 0-402792- | 07/29/76- | 14- | 9- | 14.8- | | -S- | 7.8- | 3- | -2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.02 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Concentrations reported in weight parts per billion (ppb) | | | | | | | | | | | |
| | | | | | | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 65.5389- | 164.3583- | 2- | 27- | 0- | 402741 | 105000 | 106 | -25 | 9 | 281 | 14792 | 12 | -25 | 56 | 11 | 976 | -50 |
| 02- | 65.5625- | 164.4167- | 2- | 27- | 0- | 402742 | 121000 | 134 | -25 | 11 | 1427 | 13810 | 34 | -25 | -25 | 11 | 893 | -50 |
| 02- | 65.5292- | 164.1847- | 2- | 27- | 0- | 402743 | 30641 | 76 | -25 | 9 | 793 | 13536 | 30 | -25 | -25 | 8 | 357 | -50 |
| 02- | 65.5328- | 164.1250- | 2- | 29- | 0- | 402744 | 16227 | 87 | 30 | 23 | 2407 | 4869 | 147 | -25 | 96 | 19 | 557 | -50 |
| 02- | 65.5708- | 164.1889- | 2- | 27- | 0- | 402745 | 13426 | 75 | -25 | 12 | 1010 | 9994 | 31 | -25 | -25 | 14 | 199 | -50 |
| 02- | 65.5611- | 164.0444- | 2- | 29- | 0- | 402746 | 136000 | 186 | 40 | 24 | 17132 | 30947 | 598 | -25 | 53 | 203 | 1221 | 185 |
| 02- | 65.5744- | 164.0931- | 2- | 29- | 0- | 402747 | 3612 | -55 | -25 | 9 | 1627 | 1866 | 66 | -25 | -25 | 17 | 199 | -50 |
| 02- | 65.5819- | 163.9528- | 2- | 29- | 0- | 402748 | 12364 | 70 | -25 | 12 | 4403 | 2949 | 131 | -25 | 45 | 21 | 199 | -50 |
| 02- | 65.5778- | 163.9722- | 2- | 29- | 0- | 402749 | 22806 | 76 | -25 | 16 | 2600 | 11314 | 116 | -25 | -25 | 22 | 216 | -50 |
| 02- | 65.6228- | 163.8861- | 2- | 27- | 0- | 402751 | 4194 | -55 | -25 | 7 | 1462 | 3702 | 25 | -25 | -25 | 18 | 199 | -50 |
| 02- | 65.5947- | 163.8000- | 2- | 29- | 0- | 402752 | 11050 | 59 | -25 | -4 | 36 | 4391 | -3 | 41 | 35 | 3 | 199 | -50 |
| 02- | 65.6031- | 163.7222- | 2- | 29- | 0- | 402753 | 6209 | 71 | -25 | -4 | 2669 | 2815 | 76 | -25 | -25 | 6 | 199 | -50 |
| 02- | 65.6181- | 163.6611- | 2- | 29- | 0- | 402754 | 4188 | 65 | -25 | 6 | 2505 | 3471 | 140 | 33 | 34 | 17 | 199 | -50 |
| 02- | 65.6278- | 163.6222- | 2- | 29- | 0- | 402755 | 8377 | 94 | -25 | -4 | 382 | 11691 | 16 | -25 | -25 | 3 | 199 | 114 |
| 02- | 65.6589- | 163.5819- | 2- | 27- | 0- | 402756 | 5242 | 76 | -25 | 5 | 1683 | 4175 | 93 | 27 | 68 | 18 | 199 | -50 |
| 02- | 65.6575- | 163.5000- | 2- | 27- | 0- | 402757 | 6443 | 81 | -25 | 5 | 1638 | 6352 | 65 | -25 | -25 | 15 | 199 | -50 |
| 02- | 65.7028- | 163.5000- | 2- | 29- | 0- | 402758 | 4661 | 65 | -25 | 9 | 3454 | 2055 | 48 | 36 | 60 | 27 | 199 | -50 |
| 02- | 65.6911- | 163.4194- | 2- | 27- | 0- | 402759 | | | | | | | | | | | | |
| 02- | 65.7069- | 163.4167- | 2- | 27- | 0- | 402760 | 6293 | -55 | -25 | 12 | 11488 | 5103 | 174 | 41 | 87 | 30 | 199 | -50 |
| 02- | 65.7278- | 163.2500- | 2- | 29- | 0- | 402761 | 1582 | 74 | -25 | 9 | 4123 | 1393 | 37 | -25 | 43 | 30 | 199 | 52 |
| 02- | 65.7333- | 163.2222- | 2- | 29- | 0- | 402762 | 12985 | -55 | -25 | 8 | 2007 | 5386 | 42 | 31 | 92 | 27 | 383 | -50 |
| 02- | 65.7472- | 163.2986- | 2- | 27- | 0- | 402763 | 139000 | 177 | 28 | 13 | 837 | 16400 | 23 | -25 | 68 | 33 | 1367 | 99 |
| 02- | 65.7625- | 163.3514- | 2- | 27- | 0- | 402764 | 150000 | 202 | -25 | 10 | 202 | 18703 | 9 | -25 | -25 | 11 | 917 | 137 |
| 02- | 65.6861- | 163.3014- | 2- | 29- | 0- | 402765 | 3236 | 92 | -25 | 8 | 6165 | 4643 | 33 | -25 | -25 | 3 | 199 | 108 |
| 02- | 65.6519- | 163.3250- | 2- | 29- | 0- | 402766 | 3832 | -55 | -25 | 13 | 5523 | 2933 | 60 | 41 | 45 | 83 | 199 | -50 |
| 02- | 65.6361- | 163.4250- | 2- | 27- | 0- | 402767 | 4867 | 79 | -25 | -4 | 906 | 5538 | 43 | -25 | -25 | 6 | 199 | 80 |
| 02- | 65.6222- | 163.5250- | 2- | 27- | 0- | 402768 | 2955 | 76 | -25 | 7 | 4402 | 2565 | 51 | -25 | -25 | 10 | 199 | -50 |
| 02- | 65.6042- | 163.5222- | 2- | 27- | 0- | 402769 | 7508 | 73 | -25 | -4 | 431 | 12261 | 8 | -25 | -25 | 6 | 199 | -50 |
| 02- | 65.5769- | 163.6206- | 2- | 27- | 0- | 402770 | 5896 | 189 | 44 | 24 | 166000 | 3709 | 96 | 79 | 375 | 52 | 199 | -50 |
| 02- | 65.5919- | 163.6628- | 2- | 27- | 0- | 402771 | 3139 | 59 | -25 | 10 | 5929 | 2843 | 41 | -25 | -25 | 11 | 199 | -50 |
| 02- | 65.5614- | 163.6503- | 2- | 29- | 0- | 402772 | 2823 | -55 | -25 | 18 | 5263 | 2066 | 45 | 32 | -25 | 47 | 199 | -50 |
| 02- | 65.5514- | 163.7917- | 2- | 29- | 0- | 402773 | 3664 | 65 | -25 | 5 | 4724 | 3009 | 28 | 27 | 32 | 14 | 199 | -50 |
| 02- | 65.5167- | 163.8028- | 2- | 29- | 0- | 402774 | 13250 | 95 | -25 | 19 | 24652 | 6360 | 224 | -25 | 34 | 45 | 199 | -50 |
| 02- | 65.5319- | 163.8931- | 2- | 27- | 0- | 402775 | 6657 | 57 | -25 | 5 | 373 | 8677 | 6 | -25 | -25 | 7 | 199 | -50 |
| 02- | 65.5153- | 163.9458- | 2- | 29- | 0- | 402776 | 14113 | -55 | -25 | 6 | 3656 | 9153 | 40 | -25 | -25 | 39 | 199 | -50 |
| 02- | 65.5042- | 163.9889- | 2- | 29- | 0- | 402777 | 6660 | 68 | -25 | 9 | 6585 | 3600 | 75 | -25 | -25 | 22 | 530 | -50 |
| 02- | 65.5042- | 164.1333- | 2- | 29- | 0- | 402778 | 6501 | -55 | -25 | 8 | 2686 | 3398 | 38 | -25 | -25 | 40 | 199 | -50 |
| 02- | 65.8639- | 164.6500- | 2- | 27- | 0- | 402779 | 7959 | 60 | -25 | -4 | 32 | 4317 | -3 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.8333- | 164.6361- | 2- | 27- | 0- | 402780 | 3678 | -55 | -25 | -4 | 6803 | 2601 | -3 | 45 | 44 | 3 | 199 | -50 |
| 02- | 65.8861- | 164.7333- | 2- | 27- | 0- | 402781 | 4076 | -55 | -25 | -4 | 121 | 1213 | -3 | 35 | 46 | 3 | 199 | -50 |
| 02- | 65.8875- | 164.7778- | 2- | 27- | 0- | 402782 | 80609 | 137 | -25 | 5 | 51 | 4143 | 4 | -25 | -25 | 3 | 725 | -50 |
| 02- | 65.9706- | 164.6944- | 2- | 27- | 0- | 402783 | 13192 | 86 | -25 | 9 | 12497 | 8311 | 15 | 28 | 107 | 5 | 306 | -50 |
| 02- | 65.9806- | 164.6486- | 2- | 27- | 0- | 402784 | 3816 | -55 | -25 | 5 | 587 | 2284 | 7 | 65 | 108 | 3 | 219 | 114 |
| 02- | 66.0139- | 164.7361- | 2- | 29- | 0- | 402785 | 5783 | 76 | 29 | 9 | 1516 | 3627 | 8 | 73 | 144 | 17 | 438 | -50 |
| 02- | 66.0556- | 164.7375- | 2- | 27- | 0- | 402786 | 4147 | 110 | -25 | 7 | 1547 | 2660 | 9 | 66 | 128 | 9 | 199 | -50 |
| 02- | 66.0472- | 164.7778- | 2- | 27- | 0- | 402787 | 7101 | -55 | -25 | 7 | 221 | 3614 | 5 | 50 | 154 | 7 | 337 | 118 |
| 02- | 66.0972- | 164.8875- | 2- | 29- | 0- | 402788 | 9504 | 100 | 29 | 6 | 47 | 3614 | 5 | 72 | 173 | 11 | 456 | -50 |
| 02- | 66.1264- | 165.0063- | 2- | 29- | 0- | 402789 | 25389 | 82 | 35 | 7 | 55 | 11394 | -3 | 34 | 220 | 12 | 710 | -50 |
| 02- | 66.1444- | 165.0736- | 2- | 27- | 0- | 402790 | 7079 | 97 | 26 | -4 | 359 | 3935 | 4 | 68 | 181 | 3 | 295 | 88 |
| 02- | 66.1458- | 165.0458- | 2- | 29- | 0- | 402791 | 3421 | 89 | 29 | 7 | 865 | 2373 | 7 | 93 | 189 | 12 | 402 | 130 |
| 02- | 66.1944- | 165.1556- | 2- | 29- | 0- | 402792 | 25701 | 122 | -25 | 6 | 74 | 17173 | 5 | -25 | 209 | 10 | 748 | 67 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb |
| 02- | 66.2056- | 165.2542-2-29- | | | | 0-402793- | 07/29/76-14- | | 10-14.5- | | | -S- | 8.2- | 22- | | -2- | 7- | 4- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.2419- | 165.3111-2-29- | | | | 0-402794- | 07/29/76-14- | | 10-14.4- | | | -S- | 7.4- | 35- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.54 |
| 02- | 66.2875- | 165.3278-2-29- | | | | 0-402795- | 07/29/76-14- | | 10-14.2- | | | -S- | 7.4- | 55- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3167- | 165.3694-2-27- | | | | 0-402796- | 07/29/76-14- | | 9-11.0- | | | - | - | 7.6- | 60- | 13- | 7- | 2- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3486- | 165.3417-2-27- | | | | 0-402797- | 07/29/76-14- | | 10-10.8- | | | - | - | 7.2- | 60- | 6- | 7- | 2- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.35 |
| 02- | 66.4028- | 165.2833-2-29- | | | | 0-402798- | 07/29/76-14- | | 10-14.3- | | | -S- | 7.4- | 80- | | -7- | 2- | 6- | 6- | | -3- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 1.24 |
| 02- | 66.3889- | 165.1806-2-29- | | | | 0-402799- | 07/29/76-14- | | 10-14.5- | | | -S- | 7.6- | 47- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.88 |
| 02- | 66.3764- | 165.1972-2-29- | | | | 0-402800- | 07/29/76-14- | | 10-14.6- | | | -S- | 7.5- | 32- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3944- | 165.0819-2-27- | | | | 0-402801- | 07/29/76-14- | | 10-12.8- | | | - | - | 8.0- | 50- | 9- | 7- | 2- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.52 |
| 02- | 66.3639- | 165.0972-2-27- | | | | 0-402802- | 07/29/76-14- | | 10-11.8- | | | - | - | 7.8- | 90- | 6- | 7- | 2- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3208- | 165.1778-2-29- | | | | 0-402803- | 07/29/76-15- | | 10-14.8- | | | - | - | 7.6- | 50- | 6- | 7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 3- | | -1- | - | - | - | - | 0.03 |
| 02- | 66.3264- | 165.1667-2-29- | | | | 0-402804- | 07/29/76-15- | | 10-17.0- | | | - | - | 7.6- | 70- | 0- | 7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 3- | | -1- | - | - | - | - | 1.60 |
| 02- | 66.2753- | 165.1792-2-27- | | | | 0-402805- | 07/29/76-15- | | 10-13.0- | | | - | - | 7.6- | 50- | 6- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 1.17 |
| 02- | 66.2917- | 165.1528-2-27- | | | | 0-402806- | 07/29/76-15- | | 10-11.9- | | | - | - | 7.6- | 70- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 1.31 |
| 02- | 66.2403- | 165.1292-2-29- | | | | 0-402807- | 07/29/76-15- | | 10-14.9- | | C- | - | - | 8.2- | 70- | 6- | 7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.2333- | 165.1833-2-27- | | | | 0-402808- | 07/29/76-15- | | 9-12.6- | | | - | - | 7.8- | 70- | 13- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.2375- | 164.9292-2-27- | | | | 0-402809- | 07/29/76-15- | | 9-14.0- | | | - | - | 7.6- | 100- | 6- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.2494- | 164.9806-2-27- | | | | 0-402810- | 07/29/76-15- | | 9-10.6- | | | - | - | 7.8- | 90- | 0- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.23 |
| 02- | 66.2069- | 164.8708-2-29- | | | | 0-402811- | 07/29/76-15- | | 10-14.8- | | | -S- | 7.5- | 45- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -3- | 3- | | - | - | -1- | - | - | - | - | 0.32 |
| 02- | 66.1800- | 164.8278-2-29- | | | | 0-402812- | 07/29/76-15- | | 10-14.3- | | | - | - | 7.4- | 3- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.1375- | 164.7722-2-29- | | | | 0-402813- | 07/29/76-15- | | 10-14.5- | | | -S- | 7.1- | 20- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.14 |
| 02- | 66.1375- | 164.6431-2-27- | | | | 0-402814- | 07/29/76-15- | | 9-11.0- | | | - | - | 8.2- | 70- | 6- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.44 |
| 02- | 66.1222- | 164.6736-2-27- | | | | 0-402815- | 07/29/76-15- | | 10-12.6- | | | - | - | 8.0- | 150- | 19- | 2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | | -1- | - | - | - | - | 0.15 |
| 02- | 66.0958- | 164.5958-2-27- | | | | 0-402816- | 07/29/76-16- | | 10-11.0- | | | - | - | 7.6- | 200- | 6- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | | -1- | - | - | - | - | 0.25 |
| 02- | 66.0750- | 164.6444-2-27- | | | | 0-402817- | 07/29/76-16- | | 10-12.8- | | | - | - | 7.2- | 60- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.1056- | 164.5444-2-29- | | | | 0-402818- | 07/29/76-16- | | 10-14.3- | | | -S- | 7.7- | 42- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 4- | | -1- | - | - | - | - | 0.23 |
| 02- | 66.0586- | 164.4694-2-27- | | | | 0-402819- | 07/29/76-16- | | 10-10.6- | | | - | - | 7.2- | 37- | 6- | 2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | | -1- | - | - | - | - | 0.06 |
| 02- | 66.0722- | 164.4306-2-27- | | | | 0-402820- | 07/29/76-16- | | 10-11.0- | | | - | - | 7.6- | 45- | 0- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | | -1- | - | - | - | - | 0.11 |
| 02- | 65.9833- | 164.5278-2-27- | | | | 0-402821- | 07/29/76-16- | | 10-11.8- | | | - | - | 7.2- | 42- | 26- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.42 |
| 02- | 66.0389- | 164.4750-2-27- | | | | 0-402822- | 07/29/76-16- | | 10-12.0- | | | - | - | 7.2- | 42- | 26- | 2- | 7- | 5- | 6- | 2- | 3- | 2- | 1- | 4- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.19 |
| 02- | 66.0281- | 164.4278-2-29- | | | | 0-402823- | 07/29/76-16- | | 10-14.8- | | | -S- | 7.6- | 20- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 3- | | -1- | - | - | - | - | 0.01 |
| 02- | 65.9347- | 164.5125-2-27- | | | | 0-402824- | 07/29/76-16- | | 11-11.2- | | | - | - | 7.4- | 150- | 23- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.15 |
| 02- | 65.9006- | 164.5444-2-27- | | | | 0-402825- | 07/29/76-16- | | 11-14.0- | | | - | - | 7.4- | 140- | 16- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | | -1- | - | - | - | - | 0.29 |
| 02- | 66.0653- | 164.8861-2-29- | | | | 0-402827- | 07/30/76-13- | | 13-14.3- | | | -S- | 8.6- | 44- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.42 |
| 02- | 66.0958- | 164.8042-2-29- | | | | 0-402828- | 07/30/76-13- | | 14-14.1- | | | -S- | 7.5- | 121- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.1542- | 164.8528-2-29- | | | | 0-402829- | 07/30/76-13- | | 15-14.5- | | | -S- | 7.9- | 36- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.43 |
| 02- | 66.2278- | 164.8194-2-29- | | | | 0-402830- | 07/30/76-13- | | 16-14.4- | | | -S- | 7.9- | 38- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.51 |
| 02- | 66.2944- | 164.8417-2-27- | | | | 0-402831- | 07/30/76-13- | | 15-11.7- | | | - | - | 7.3- | 70- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.26 |
| 02- | 66.2861- | 164.8750-2-27- | | | | 0-402832- | 07/30/76-13- | | 15-12.3- | | | - | - | - | 70- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.08 |
| 02- | 66.3111- | 164.8250-2-27- | | | | 0-402833- | 07/30/76-13- | | 16-13.2- | | | - | - | 7.1- | 70- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3167- | 164.8639-2-27- | | | | 0-402834- | 07/30/76-13- | | 16-14.0- | | | - | - | 7.0- | 70- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3653- | 164.8361-2-29- | | | | 0-402835- | 07/30/76-13- | | 15-13.7- | | | -S- | 7.8- | 68- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.3686- | 164.8667-2-29- | | | | 0-402836- | 07/30/76-14- | | 15-13.7- | | | -S- | 7.8- | 59- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.4000- | 164.7833-2-29- | | | | 0-402837- | 07/30/76-14- | | 15-14.2- | | | -S- | 7.4- | 67- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.4111- | 164.8667-2-29- | | | | 0-402838- | 07/30/76-14- | | 16-13.8- | | | -S- | 7.6- | 60- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.45 |
| 02- | 66.4353- | 164.8931-2-29- | | | | 0-402839- | 07/30/76-14- | | 15-13.9- | | | -S- | 7.6- | 48- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.37 |
| 02- | 66.4597- | 164.7972-2-29- | | | | 0-402840- | 07/30/76-14- | | 16-14.1- | | | -S- | 7.5- | 338- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.03 |
| 02- | 66.4861- | 164.7667-2-29- | | | | 0-402841- | 07/30/76-14- | | 16-13.2- | | | -S- | 8.4- | 83- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.4917- | 164.6833-2-29- | | | | 0-402842- | 07/30/76-14- | | 16-13.6- | | | -S- | 8.1- | 50- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.18 |
| 02- | 66.5278- | 164.6528-2-29- | | | | 0-402843- | 07/30/76-14- | | 15-13.7- | | | -S- | 7.8- | 97- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.01 |
| 02- | 66.5347- | 164.5889-2-29- | | | | 0-402844- | 07/30/76-14- | | 16-14.1- | | | -S- | 7.9- | 83- | | -2- | 7- | 4- | 6- | | - | - | - | | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 0.18 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02-66.2056-165.2542-2-29- | 0-402793 | 1510 | -55 | -25 | 6 | 302 | 1205 | 6 | 65 | 142 | 9 | 288 | -50 |
| 02-66.2419-165.3111-2-29- | 0-402794 | 2634 | 100 | -25 | 7 | 109 | 3375 | 5 | 79 | 191 | 3 | 325 | -50 |
| 02-66.2875-165.3278-2-29- | 0-402795 | 6332 | 66 | 30 | 6 | 76 | 5797 | 5 | 78 | 178 | 8 | 484 | -50 |
| 02-66.3167-165.3694-2-27- | 0-402796 | 10964 | 85 | 30 | 8 | 1194 | 7339 | 6 | 78 | 210 | 10 | 527 | -50 |
| 02-66.3486-165.3417-2-27- | 0-402797 | 5934 | -55 | 35 | 6 | 252 | 3866 | 4 | 91 | 202 | 9 | 476 | -50 |
| 02-66.4028-165.2833-2-29- | 0-402798 | 10796 | 76 | 28 | 7 | 45 | 5925 | 4 | 64 | 226 | 9 | 488 | -50 |
| 02-66.3889-165.1806-2-29- | 0-402799 | 3525 | 119 | -25 | -4 | 218 | 3029 | 8 | 68 | 151 | 9 | 251 | -50 |
| 02-66.3764-165.1972-2-29- | 0-402800 | 3222 | -55 | 36 | 6 | 49 | 2980 | -3 | 86 | 220 | 9 | 494 | -50 |
| 02-66.3944-165.0819-2-27- | 0-402801 | 4824 | 65 | 27 | 7 | 431 | 3541 | 4 | 73 | 180 | 11 | 439 | -50 |
| 02-66.3639-165.0972-2-27- | 0-402802 | 8246 | 85 | -25 | 6 | 2365 | 6206 | 12 | 60 | 168 | 7 | 309 | -50 |
| 02-66.3208-165.1778-2-29- | 0-402803 | 4119 | 68 | -25 | 10 | 123 | 2667 | 10 | 69 | 112 | 3 | 256 | -50 |
| 02-66.3264-165.1667-2-29- | 0-402804 | 7434 | 92 | -25 | 5 | 45 | 4637 | 4 | 60 | 120 | 3 | 227 | -50 |
| 02-66.2753-165.1792-2-27- | 0-402805 | 6820 | 58 | 33 | 7 | 2865 | 4513 | 9 | 93 | 177 | 9 | 538 | -50 |
| 02-66.2917-165.1528-2-27- | 0-402806 | 6470 | 63 | 30 | 8 | 1880 | 4123 | 5 | 103 | 204 | 12 | 490 | -50 |
| 02-66.2403-165.1292-2-29- | 0-402807 | 2892 | 82 | -25 | -4 | 909 | 2743 | 5 | 41 | 88 | 3 | 199 | -50 |
| 02-66.2333-165.1833-2-27- | 0-402808 | 6448 | -55 | -25 | 6 | 1197 | 4051 | 6 | 75 | 155 | 3 | 300 | -50 |
| 02-66.2375-164.9292-2-27- | 0-402809 | 7857 | -55 | 32 | -4 | 32792 | 4052 | 18 | 37 | 201 | 15 | 199 | 163 |
| 02-66.2494-164.9806-2-27- | 0-402810 | 7908 | -55 | -25 | -4 | 614 | 5050 | 7 | 30 | 99 | 11 | 199 | 91 |
| 02-66.2069-164.8708-2-29- | 0-402811 | 4587 | -55 | -25 | -4 | 101 | 2758 | -3 | 28 | 64 | 6 | 199 | 72 |
| 02-66.1800-164.8278-2-29- | 0-402812 | 3999 | -55 | -25 | -4 | 64 | 1927 | 4 | 35 | 59 | 7 | 199 | 84 |
| 02-66.1375-164.7722-2-29- | 0-402813 | 7495 | -55 | -25 | -4 | 40 | 2776 | 7 | 27 | 65 | 5 | 199 | 85 |
| 02-66.1375-164.6431-2-27- | 0-402814 | 7483 | -55 | -25 | -4 | 1384 | 4719 | 6 | 35 | 99 | 14 | 199 | 133 |
| 02-66.1222-164.6736-2-27- | 0-402815 | 17075 | -55 | -25 | -4 | 13738 | 10446 | 24 | -25 | 72 | 8 | 199 | 107 |
| 02-66.0958-164.5958-2-27- | 0-402816 | 16201 | -55 | -25 | -4 | 44205 | 13569 | 10 | 28 | 204 | 9 | 199 | 117 |
| 02-66.0750-164.6444-2-27- | 0-402817 | 4115 | 60 | -25 | -4 | 2755 | 2960 | 11 | -25 | 30 | 3 | 199 | 69 |
| 02-66.1056-164.5444-2-29- | 0-402818 | 4025 | -55 | -25 | -4 | 960 | 3046 | 7 | -25 | -25 | 14 | 199 | 65 |
| 02-66.0586-164.4694-2-27- | 0-402819 | 2976 | -55 | -25 | -4 | 520 | 1757 | -3 | -25 | 36 | 3 | 199 | 67 |
| 02-66.0722-164.4306-2-27- | 0-402820 | 2890 | 79 | -25 | -4 | 339 | 1468 | 8 | -25 | 56 | 3 | 199 | 68 |
| 02-65.9833-164.5278-2-27- | 0-402821 | 3761 | -55 | -25 | -4 | 184 | 1827 | -3 | -25 | 83 | 8 | 199 | 120 |
| 02-66.0389-164.4750-2-27- | 0-402822 | 4343 | -55 | -25 | -4 | 588 | 2113 | 5 | -25 | 100 | 7 | 199 | 151 |
| 02-66.0281-164.4278-2-29- | 0-402823 | 2821 | -55 | -25 | -4 | 1005 | 1521 | 7 | 40 | 154 | 13 | 199 | 139 |
| 02-65.9347-164.5125-2-27- | 0-402824 | 34977 | 56 | -25 | -4 | 31 | 7682 | -3 | -25 | 136 | 10 | 199 | 209 |
| 02-65.9006-164.5444-2-27- | 0-402825 | 37865 | 88 | -25 | -4 | 36 | 7086 | 4 | -25 | 174 | 12 | 199 | 193 |
| 02-66.0653-164.8861-2-29- | 0-402827 | 6648 | -55 | -25 | -4 | 1633 | 3283 | 11 | -25 | 74 | 9 | 199 | 170 |
| 02-66.0956-164.8042-2-29- | 0-402828 | 25684 | 85 | -25 | -4 | 33 | 9523 | -3 | -25 | 149 | 10 | 199 | 157 |
| 02-66.1542-164.8528-2-29- | 0-402829 | 7098 | -55 | -25 | -4 | 80 | 3064 | 5 | 42 | 123 | 12 | 199 | 114 |
| 02-66.2278-164.8194-2-29- | 0-402830 | 4739 | -55 | -25 | -4 | 303 | 2934 | 11 | -25 | 95 | 5 | 199 | 130 |
| 02-66.2944-164.8417-2-27- | 0-402831 | 12357 | 89 | -25 | -4 | 628 | 7254 | 10 | -25 | 62 | 6 | 199 | 100 |
| 02-66.2861-164.8750-2-27- | 0-402832 | 10272 | -55 | -25 | -4 | 576 | 6112 | 8 | 36 | 104 | 6 | 199 | 88 |
| 02-66.3111-164.8250-2-27- | 0-402833 | 8579 | -55 | -25 | -4 | 484 | 5838 | 10 | 26 | 127 | 7 | 199 | 149 |
| 02-66.3167-164.8639-2-27- | 0-402834 | 9883 | 65 | -25 | -4 | 545 | 6492 | 10 | -25 | 143 | 10 | 199 | 102 |
| 02-66.3653-164.8361-2-29- | 0-402835 | 9860 | -55 | -25 | -4 | 98 | 7166 | 8 | 28 | 150 | 3 | 199 | 197 |
| 02-66.3686-164.8667-2-29- | 0-402836 | 7836 | 73 | -25 | -4 | 101 | 5331 | 11 | -25 | 77 | 3 | 199 | 211 |
| 02-66.4000-164.7833-2-29- | 0-402837 | 9757 | 60 | -25 | -4 | 896 | 6537 | 16 | -25 | 162 | 7 | 199 | 166 |
| 02-66.4111-164.8667-2-29- | 0-402838 | 10707 | 59 | -25 | -4 | 256 | 6739 | 9 | -25 | 162 | 7 | 199 | 171 |
| 02-66.4353-164.8931-2-29- | 0-402839 | 4871 | -55 | -25 | -4 | 585 | 3238 | 7 | -25 | 138 | 6 | 199 | 179 |
| 02-66.4597-164.7972-2-29- | 0-402840 | 65224 | 105 | -25 | -4 | 43 | 37169 | 12 | -25 | -25 | 3 | 199 | 136 |
| 02-66.4861-164.7667-2-29- | 0-402841 | 8711 | -55 | -25 | -4 | 369 | 10017 | 8 | -25 | -25 | 5 | 199 | 125 |
| 02-66.4917-164.6833-2-29- | 0-402842 | 6968 | -55 | -25 | -4 | 33 | 5715 | 6 | -25 | -25 | 3 | 199 | 84 |
| 02-66.5278-164.6528-2-29- | 0-402843 | 14030 | 63 | -25 | -4 | 109 | 11285 | 6 | -25 | 59 | 3 | 199 | 155 |
| 02-66.5347-164.5889-2-29- | 0-402844 | 9670 | -55 | -25 | -4 | -25 | 6341 | 4 | -25 | -25 | 8 | 199 | 190 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb |
| 02- | 66.5333- | 164.4800- | 2- | 29- | | 0-402845- | 07/30/76- | 14- | 15- | 14.5- | | -S- | 7.8- | 120- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.5611- | 164.4389- | 2- | 29- | | 0-402846- | 07/30/76- | 14- | 15- | 14.4- | | -S- | 7.9- | 168- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.5506- | 164.3722- | 2- | 29- | | 0-402847- | 07/30/76- | 14- | 15- | 13.9- | | -S- | 8.0- | 131- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.25 |
| 02- | 66.5706- | 164.3556- | 2- | 29- | | 0-402848- | 07/30/76- | 14- | 16- | 14.2- | | -S- | 8.3- | 40- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.32 |
| 02- | 66.5681- | 164.2556- | 2- | 29- | | 0-402849- | 07/30/76- | 14- | 17- | 14.1- | | -S- | 8.0- | 42- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.32 |
| 02- | 66.5375- | 164.2222- | 2- | 29- | | 0-402850- | 07/30/76- | 14- | 17- | 14.1- | | -S- | 7.9- | 40- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.5444- | 164.1347- | 2- | 29- | | 0-402851- | 07/30/76- | 14- | 17- | 14.3- | | -S- | 7.6- | 147- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.15 |
| 02- | 66.5806- | 164.1250- | 2- | 29- | | 0-402852- | 07/30/76- | 14- | 16- | 13.4- | | -S- | 8.0- | 93- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.5875- | 164.0069- | 2- | 29- | | 0-402853- | 07/30/76- | 14- | 15- | 13.5- | | -S- | 7.9- | 118- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.23 |
| 02- | 66.5617- | 163.9861- | 2- | 29- | | 0-402854- | 07/30/76- | 15- | 15- | 14.2- | | -S- | 8.0- | 72- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.5514- | 163.9417- | 2- | 29- | | 0-402855- | 07/30/76- | 15- | 15- | 14.1- | | -S- | 7.6- | 88- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.5806- | 163.9028- | 2- | 29- | | 0-402856- | 07/30/76- | 15- | 16- | 12.9- | | - - | 7.7- | 248- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.5833- | 163.8167- | 2- | 29- | | 0-402857- | 07/30/76- | 15- | 16- | 12.9- | | - - | 7.9- | 171- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.5728- | 163.7083- | 2- | 29- | | 0-402858- | 07/30/76- | 15- | 16- | 13.4- | | -S- | 7.8- | 288- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.68 |
| 02- | 66.5306- | 163.7972- | 2- | 29- | | 0-402859- | 07/30/76- | 15- | 18- | 13.8- | | -S- | 8.1- | 67- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.07 |
| 02- | 66.4976- | 163.8194- | 2- | 29- | | 0-402860- | 07/30/76- | 15- | 15- | 13.8- | | -S- | 7.6- | 132- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.11 |
| 02- | 66.4950- | 163.8806- | 2- | 29- | | 0-402861- | 07/30/76- | 15- | 15- | 14.4- | | -S- | 7.9- | 81- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.43 |
| 02- | 66.4944- | 164.0208- | 2- | 29- | | 0-402862- | 07/30/76- | 15- | 17- | 14.1- | | -S- | 7.9- | 51- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4972- | 164.1278- | 2- | 29- | | 0-402863- | 07/30/76- | 16- | 16- | 14.1- | | - - | 8.0- | 169- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.26 |
| 02- | 66.5028- | 164.2375- | 2- | 29- | | 0-402864- | 07/30/76- | 15- | 15- | 14.5- | | -S- | 6.5- | 61- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4966- | 164.3056- | 2- | 29- | | 0-402865- | 07/30/76- | - | 14- | 12.1- | | -S- | 8.2- | 79- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4917- | 164.4792- | 2- | 29- | | 0-402866- | 07/30/76- | 15- | 16- | 14.2- | | -S- | 7.9- | 45- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.26 |
| 02- | 66.4861- | 164.5458- | 2- | 29- | | 0-402867- | 07/30/76- | 15- | 15- | 14.5- | | -S- | 8.0- | 28- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4714- | 164.6347- | 2- | 29- | | 0-402868- | 07/30/76- | 15- | 15- | 14.7- | | -S- | 7.9- | 42- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4611- | 164.6583- | 2- | 29- | | 0-402869- | 07/30/76- | 15- | 16- | 15.2- | | -S- | 7.6- | 143- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.07 |
| 02- | 66.4236- | 164.6917- | 2- | 29- | | 0-402870- | 07/30/76- | 15- | 15- | 14.8- | | -S- | 8.2- | 48- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3569- | 164.6944- | 2- | 29- | | 0-402871- | 07/30/76- | 16- | 16- | 14.7- | | -S- | 8.0- | 56- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3375- | 164.6917- | 2- | 29- | | 0-402872- | 07/30/76- | 16- | 16- | 14.1- | | -S- | 7.9- | 37- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.45 |
| 02- | 66.2819- | 164.7097- | 2- | 29- | | 0-402873- | 07/30/76- | 16- | 16- | 15.2- | | -S- | 7.9- | 37- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.2528- | 164.7069- | 2- | 29- | | 0-402874- | 07/30/76- | 16- | 15- | 15.3- | | -S- | 7.5- | 220- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.1986- | 164.7000- | 2- | 29- | | 0-402875- | 07/30/76- | 16- | 15- | 14.9- | | -S- | 8.5- | 33- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.5000- | 164.4192- | 2- | 27- | | 0-402876- | 07/31/76- | 7- | 8- | 10.8- | | - - | 7.0- | 50- | | 46- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.25 |
| 02- | 65.4972- | 164.3472- | 2- | 27- | | 0-402877- | 07/31/76- | 7- | 8- | 10.9- | | - - | 7.3- | 50- | | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.32 |
| 02- | 65.4486- | 164.2847- | 2- | 27- | | 0-402878- | 07/31/76- | 7- | 10- | 11.0- | | - - | 7.4- | 45- | | 19- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4700- | 164.4183- | 2- | 27- | | 0-402879- | 07/31/76- | 7- | 10- | 10.6- | | - - | 7.6- | 60- | | 46- | 2- | 7- | 5- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.19 |
| 02- | 65.4183- | 164.2153- | 2- | 27- | | 0-402881- | 07/31/76- | 7- | 10- | - | | - - | 7.9- | 59- | | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4361- | 164.0847- | 2- | 27- | | 0-402882- | 07/31/76- | 7- | 10- | 12.6- | | - - | 8.0- | 40- | | 19- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4472- | 164.0986- | 2- | 29- | | 0-402883- | 07/31/76- | 7- | 10- | 14.2- | | - - | 7.2- | 45- | | | -2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02- | 65.4222- | 164.1361- | 2- | 29- | | 0-402884- | 07/31/76- | 7- | 10- | 13.6- | | -S- | 8.2- | 20- | | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4403- | 163.9778- | 2- | 27- | | 0-402885- | 07/31/76- | 8- | 11- | 14.0- | | - - | 7.0- | 45- | | | -2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4308- | 163.9839- | 2- | 29- | | 0-402886- | 07/31/76- | 8- | 11- | 13.8- | | - - | 6.8- | 120- | | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4264- | 163.8806- | 2- | 29- | | 0-402887- | 07/31/76- | 8- | 11- | 13.4- | | -S- | 7.7- | 26- | | | -2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4403- | 163.9306- | 2- | 27- | | 0-402888- | 07/31/76- | 8- | 11- | 12.6- | | - - | 7.6- | 30- | | 26- | 3- | 6- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.03 |
| 02- | 65.4767- | 163.7400- | 2- | 27- | | 0-402890- | 07/31/76- | 8- | 11- | 13.4- | | - - | 6.8- | 20- | | 26- | 3- | 6- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4861- | 163.7233- | 2- | 29- | | 0-402891- | 07/31/76- | 8- | 11- | 13.3- | C- | S- | 6.9- | 20- | | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.25 |
| 02- | 65.4931- | 163.6347- | 2- | 29- | | 0-402892- | 07/31/76- | 8- | 11- | 14.0- | | - - | 7.0- | 13- | | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.5639- | 163.5306- | 2- | 29- | | 0-402894- | 07/31/76- | 8- | 11- | 14.0- | | - - | 7.2- | 18- | | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.5625- | 163.5722- | 2- | 29- | | 0-402895- | 07/31/76- | 8- | 11- | 13.9- | C- | - | 6.8- | 13- | | | -3- | 6- | 4- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.5703- | 163.3808- | 2- | 29- | | 0-402896- | 07/31/76- | 8- | 11- | 11.5- | | -S- | 7.8- | 12- | | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.26 |
| 02- | 65.5767- | 163.3150- | 2- | 27- | | 0-402897- | 07/31/76- | 8- | 11- | 11.9- | | - - | 6.4- | 20- | | 13- | 3- | 6- | 6- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.5533- | 163.3067- | 2- | 29- | | 0-402898- | 07/31/76- | 9- | 10- | 10.6- | C- | S- | 7.3- | 10- | | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

(2)

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB. SAMPLE LOCATION NUMBER | Concentrations reported in weight parts per billion (ppb) | | | | | | | | | | | |
| | | | | | | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.5333- | 164.4806- | 2- | 29- | | 0-402845 | 32251 | 61 | -25 | -4 | 52 | 12998 | 4 | -25 | -25 | 5 | 199 | 241 |
| 02- | 66.5611- | 164.4389- | 2- | 29- | | 0-402846 | 36014 | 58 | -25 | -4 | 35 | 20613 | 7 | -25 | 68 | 5 | 199 | 225 |
| 02- | 66.5506- | 164.3722- | 2- | 29- | | 0-402847 | 35752 | 68 | -25 | -4 | -25 | 11520 | 5 | -25 | 26 | 3 | 199 | 130 |
| 02- | 66.5708- | 164.3556- | 2- | 29- | | 0-402848 | 3880 | -55 | -25 | -4 | 459 | 3033 | 6 | -25 | 56 | 3 | 199 | 207 |
| 02- | 66.5681- | 164.2556- | 2- | 29- | | 0-402849 | 7556 | -55 | -25 | -4 | 286 | 4365 | 4 | -25 | 78 | 3 | 199 | 242 |
| 02- | 66.5375- | 164.2222- | 2- | 29- | | 0-402850 | 2767 | -55 | -25 | -4 | 1038 | 2167 | 4 | 41 | -25 | 6 | 199 | -50 |
| 02- | 66.5444- | 164.1347- | 2- | 29- | | 0-402851 | 32703 | 60 | -25 | -4 | -25 | 9069 | -3 | 80 | 59 | 8 | 199 | 58 |
| 02- | 66.5806- | 164.1250- | 2- | 29- | | 0-402852 | 4317 | -55 | -25 | -4 | 208 | 4508 | -3 | 35 | -25 | 3 | 199 | -50 |
| 02- | 66.5675- | 164.0069- | 2- | 29- | | 0-402853 | 1922 | -55 | -25 | -4 | -25 | 9024 | -3 | 70 | 83 | 6 | 199 | -50 |
| 02- | 66.5617- | 163.9861- | 2- | 29- | | 0-402854 | 9998 | -55 | -25 | -4 | -25 | 4045 | -3 | 60 | 73 | 3 | 199 | 61 |
| 02- | 66.5514- | 163.9417- | 2- | 29- | | 0-402855 | 13566 | -55 | -25 | -4 | -25 | 4700 | -3 | 84 | 144 | 3 | 199 | -50 |
| 02- | 66.5806- | 163.9028- | 2- | 29- | | 0-402856 | 5664 | -55 | -25 | -4 | -25 | 13832 | -3 | 76 | 115 | 7 | 199 | -50 |
| 02- | 66.5833- | 163.8167- | 2- | 29- | | 0-402857 | 3979 | -55 | -25 | -4 | -25 | 12358 | -3 | 52 | 87 | 9 | 199 | -50 |
| 02- | 66.5728- | 163.7083- | 2- | 29- | | 0-402858 | 7147 | -55 | -25 | -4 | -25 | 20235 | -3 | 62 | 123 | 6 | 199 | -50 |
| 02- | 66.5306- | 163.7972- | 2- | 29- | | 0-402859 | 4145 | -55 | -25 | -4 | 265 | 3863 | -3 | 63 | 112 | 11 | 199 | -50 |
| 02- | 66.4978- | 163.8194- | 2- | 29- | | 0-402860 | 14418 | -55 | -25 | -4 | -25 | 8178 | -3 | 75 | 122 | 18 | 199 | -50 |
| 02- | 66.4958- | 163.8806- | 2- | 29- | | 0-402861 | 9224 | -55 | -25 | -4 | 82 | 5127 | -3 | 48 | 81 | 7 | 199 | 59 |
| 02- | 66.4944- | 164.0208- | 2- | 29- | | 0-402862 | 10677 | -55 | -25 | -4 | -25 | 4451 | -3 | 45 | 99 | 8 | 199 | -50 |
| 02- | 66.4972- | 164.1278- | 2- | 29- | | 0-402863 | 30502 | 69 | -25 | -4 | -25 | 15579 | -3 | 57 | 141 | 13 | 199 | -50 |
| 02- | 66.5028- | 164.2375- | 2- | 29- | | 0-402864 | 12009 | -55 | -25 | -4 | -25 | 4990 | -3 | 57 | 175 | 8 | 199 | 60 |
| 02- | 66.4986- | 164.3056- | 2- | 29- | | 0-402865 | 6177 | -55 | -25 | -4 | 1967 | 7302 | -3 | 55 | 119 | 13 | 199 | -50 |
| 02- | 66.4917- | 164.4792- | 2- | 29- | | 0-402866 | 7500 | -55 | -25 | -4 | -25 | 4470 | -3 | 43 | 89 | 5 | 199 | -50 |
| 02- | 66.4861- | 164.5458- | 2- | 29- | | 0-402867 | 2627 | -55 | -25 | -4 | 110 | 1919 | -3 | 52 | 107 | 3 | 199 | -50 |
| 02- | 66.4714- | 164.6347- | 2- | 29- | | 0-402868 | 4679 | -55 | -25 | -4 | -25 | 3659 | -3 | 46 | 69 | 3 | 199 | 80 |
| 02- | 66.4611- | 164.6583- | 2- | 29- | | 0-402869 | 32346 | -55 | -25 | -4 | -25 | 12754 | -3 | 28 | 128 | 9 | 199 | -50 |
| 02- | 66.4236- | 164.6917- | 2- | 29- | | 0-402870 | 5400 | -55 | -25 | -4 | 290 | 4883 | -3 | 65 | 96 | 6 | 199 | -50 |
| 02- | 66.3569- | 164.6944- | 2- | 29- | | 0-402871 | 11012 | -55 | -25 | -4 | -25 | 6211 | -3 | 50 | 58 | 3 | 199 | -50 |
| 02- | 66.3375- | 164.6917- | 2- | 29- | | 0-402872 | 4257 | -55 | -25 | -4 | 35 | 3397 | -3 | 44 | 78 | 3 | 199 | -50 |
| 02- | 66.2819- | 164.7097- | 2- | 29- | | 0-402873 | 4025 | -55 | 73 | -4 | 1019 | 3395 | -3 | 105 | 232 | 50 | 702 | -50 |
| 02- | 66.2528- | 164.7069- | 2- | 29- | | 0-402874 | 28128 | -55 | 49 | -4 | -25 | 14042 | -3 | 115 | 232 | 40 | 199 | -50 |
| 02- | 66.1986- | 164.7000- | 2- | 29- | | 0-402875 | 6622 | -55 | 68 | -4 | 1268 | 4679 | -3 | 107 | 269 | 49 | 422 | -50 |
| 02- | 65.5000- | 164.4192- | 2- | 27- | | 0-402876 | 26737 | -55 | 74 | -4 | -25 | 4526 | -3 | 104 | 301 | 36 | 199 | -50 |
| 02- | 65.4972- | 164.3472- | 2- | 27- | | 0-402877 | 27105 | -55 | 75 | -4 | -25 | 3869 | -3 | 95 | 309 | 39 | 199 | -50 |
| 02- | 65.4466- | 164.2847- | 2- | 27- | | 0-402878 | 18719 | -55 | 70 | -4 | 381 | 6872 | -3 | 101 | 295 | 37 | 199 | -50 |
| 02- | 65.4700- | 164.4183- | 2- | 27- | | 0-402879 | 4970 | -55 | 76 | -4 | 128 | 2151 | -3 | 118 | 283 | 35 | 622 | -50 |
| 02- | 65.4183- | 164.2153- | 2- | 27- | | 0-402881 | 15855 | -55 | 75 | -4 | -25 | 4432 | -3 | 115 | 325 | 39 | 199 | -50 |
| 02- | 65.4361- | 164.0647- | 2- | 27- | | 0-402882 | 7583 | -55 | 53 | -4 | -25 | 9118 | -3 | 108 | 333 | 38 | 385 | -50 |
| 02- | 65.4472- | 164.0986- | 2- | 29- | | 0-402883 | 7737 | -55 | 52 | -4 | 74 | 7029 | -3 | 91 | 245 | 35 | 257 | -50 |
| 02- | 65.4222- | 164.1361- | 2- | 29- | | 0-402884 | 3499 | -55 | 45 | -4 | -25 | 6241 | -3 | 58 | 52 | 21 | 293 | -50 |
| 02- | 65.4403- | 163.9778- | 2- | 29- | | 0-402885 | 12389 | -55 | 35 | -4 | -25 | 6433 | -3 | 52 | 74 | 25 | 199 | -50 |
| 02- | 65.4308- | 163.9639- | 2- | 29- | | 0-402886 | 30401 | -55 | -25 | -4 | -25 | 36470 | -3 | 76 | 148 | 30 | 199 | -50 |
| 02- | 65.4264- | 163.8806- | 2- | 29- | | 0-402887 | 3370 | -55 | 59 | -4 | 1136 | 2237 | -3 | 96 | 175 | 37 | 538 | -50 |
| 02- | 65.4403- | 163.9306- | 2- | 27- | | 0-402888 | 7383 | -55 | 49 | -4 | -25 | 2338 | -3 | 73 | 124 | 26 | 199 | -50 |
| 02- | 65.4767- | 163.7400- | 2- | 27- | | 0-402890 | 3422 | -55 | 58 | -4 | -25 | 2969 | -3 | 86 | 187 | 29 | 639 | -50 |
| 02- | 65.4881- | 163.7233- | 2- | 29- | | 0-402891 | 2378 | -55 | 60 | -4 | -25 | 1835 | -3 | 71 | 176 | 33 | 700 | -50 |
| 02- | 65.4931- | 163.6347- | 2- | 29- | | 0-402892 | 2312 | -55 | 71 | -4 | 537 | 1531 | -3 | 90 | 239 | 36 | 805 | -50 |
| 02- | 65.5639- | 163.5306- | 2- | 29- | | 0-402894 | 2326 | -55 | 51 | -4 | 1629 | 2367 | -3 | 81 | 134 | 25 | 538 | -50 |
| 02- | 65.5625- | 163.5722- | 2- | 29- | | 0-402895 | 1079 | -55 | -25 | -4 | 882 | 1324 | 7 | -25 | 32 | 3 | 199 | -50 |
| 02- | 65.5703- | 163.3806- | 2- | 29- | | 0-402896 | 728 | -55 | -25 | -4 | 218 | 702 | -3 | -25 | 99 | 8 | 199 | 70 |
| 02- | 65.5707- | 163.3150- | 2- | 27- | | 0-402897 | 3256 | -55 | -25 | -4 | 5444 | 3367 | 21 | -25 | 116 | 9 | 199 | 62 |
| 02- | 65.5533- | 163.3067- | 2- | 29- | | 0-402898 | 906 | -55 | -25 | -4 | 775 | 798 | 4 | -25 | 153 | 14 | 199 | -50 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb |
| 02- | 65.5517- | 163.3583- | 2- | 29- | | 0-402899- | 07/31/76- | 9- | 10- | 12.0- | - | - | 7.0- | 11- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.16 |
| 02- | 65.6639- | 163.2250- | 2- | 27- | | 0-402900- | 07/31/76- | 9- | 11- | 12.6- | - | - | 6.2- | 25- | 16- | 2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 1- | -1- | - | - | - | - | 0.18 |
| 02- | 65.6350- | 163.1556- | 2- | 29- | | 0-402901- | 07/31/76- | 9- | 10- | 11.7- | - | - | 6.9- | 15- | | -2- | 7- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.20 |
| 02- | 65.5500- | 163.0428- | 2- | 27- | | 0-402903- | 07/31/76- | 9- | 11- | 13.3- | - | - | 6.3- | 10- | 13- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 65.5292- | 163.0417- | 2- | 27- | | 0-402904- | 07/31/76- | 9- | 12- | 13.0- | - | - | 6.3- | 9- | 13- | 3- | 6- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 65.5375- | 163.1833- | 2- | 29- | | 0-402905- | 07/31/76- | 9- | 12- | 11.2- | C- | S- | 7.1- | 43- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.02 |
| 02- | 65.5108- | 163.1997- | 2- | 29- | | 0-402906- | 07/31/76- | 9- | 11- | 10.8- | - | S- | 7.3- | 13- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4700- | 163.2117- | 2- | 29- | | 0-402907- | 07/31/76- | 9- | 10- | 9.3- | - | S- | 7.4- | 9- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 1- | -1- | - | - | - | - | - | 0.04 |
| 02- | 65.4550- | 163.2533- | 2- | 29- | | 0-402908- | 07/31/76- | 9- | 9- | 9.9- | - | - | 8.0- | 12- | | -3- | 6- | 4- | 6- | -3- | 2- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.10 |
| 02- | 65.4700- | 163.2867- | 2- | 29- | | 0-402909- | 07/31/76- | 9- | 9- | 9.5- | - | - | 6.8- | 12- | | -3- | 6- | 5- | 6- | -3- | 4- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 9.14 |
| 02- | 65.4333- | 163.3800- | 2- | 29- | | 0-402910- | 07/31/76- | 10- | 10- | 9.8- | - | - | 6.3- | 12- | | -3- | 6- | 5- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.09 |
| 02- | 65.4417- | 163.3708- | 2- | 29- | | 0-402911- | 07/31/76- | 10- | 10- | 9.4- | - | - | 7.0- | 19- | | -3- | 6- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.07 |
| 02- | 65.4567- | 163.4133- | 2- | 29- | | 0-402912- | 07/31/76- | 10- | 10- | 9.5- | - | S- | 7.3- | 10- | | -3- | 6- | 6- | 6- | -3- | 3- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 65.4319- | 163.4639- | 2- | 27- | | 0-402913- | 07/31/76- | 10- | 10- | 9.4- | - | - | 7.0- | 18- | 13- | 3- | 6- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 65.4472- | 163.4678- | 2- | 27- | | 0-402914- | 07/31/76- | 10- | 10- | 9.8- | - | - | 6.8- | 19- | 13- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.4569- | 163.6167- | 2- | 27- | | 0-402916- | 07/31/76- | 10- | 10- | 10.0- | - | - | 6.8- | 26- | 19- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 65.4264- | 163.7133- | 2- | 29- | | 0-402917- | 07/31/76- | 10- | 12- | 12.4- | - | - | 7.4- | 22- | | -3- | 6- | 6- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 65.4278- | 163.6625- | 2- | 29- | | 0-402918- | 07/31/76- | 10- | 13- | 14.9- | - | - | 8.0- | 50- | | -3- | 6- | 5- | 6- | - | - | -2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02- | 65.5125- | 164.2014- | 2- | 29- | | 0-402919- | 07/31/76- | 10- | 12- | 14.4- | - | S- | 7.2- | 49- | | -2- | 7- | 6- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.4136- | 164.3450- | 2- | 29- | | 0-402933- | 07/31/76- | 15- | 16- | 13.8- | - | - | 8.6- | 43- | | -2- | 7- | 4- | 6- | -3- | 4- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.43 |
| 02- | 65.3806- | 164.3736- | 2- | 29- | | 0-402934- | 07/31/76- | 15- | 16- | 14.1- | - | - | 7.3- | 2- | | -2- | 7- | 4- | 6- | -3- | 4- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.25 |
| 02- | 65.3617- | 164.2500- | 2- | 29- | | 0-402935- | 07/31/76- | 15- | 16- | 14.8- | - | - | 7.8- | 76- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.16 |
| 02- | 65.3806- | 164.1486- | 2- | 29- | | 0-402936- | 07/31/76- | 15- | 16- | 14.6- | - | - | 7.7- | 61- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.05 |
| 02- | 65.3833- | 164.0750- | 2- | 29- | | 0-402937- | 07/31/76- | 15- | 16- | 16.2- | - | - | 7.8- | 2- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 1.99 |
| 02- | 65.3669- | 163.9733- | 2- | 29- | | 0-402938- | 07/31/76- | 15- | 16- | 14.8- | - | - | 8.9- | 21- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.12 |
| 02- | 65.3708- | 163.8708- | 2- | 27- | | 0-402939- | 07/31/76- | 15- | 16- | 11.6- | - | - | 6.8- | 40- | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.06 |
| 02- | 65.3819- | 163.7569- | 2- | 29- | | 0-402940- | 07/31/76- | 15- | 16- | 14.7- | - | - | 7.7- | 25- | | -2- | 7- | 4- | 6- | -3- | 4- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.11 |
| 02- | 65.3861- | 163.6500- | 2- | 27- | | 0-402941- | 07/31/76- | 15- | 16- | 10.8- | - | - | 7.0- | 150- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 14.50* |
| 02- | 65.3444- | 163.3431- | 2- | 27- | | 0-402943- | 07/31/76- | 16- | 13- | 11.0- | - | - | 7.6- | 25- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.08 |
| 02- | 65.3783- | 163.3583- | 2- | 27- | | 0-402944- | 07/31/76- | 16- | 13- | 10.6- | - | - | 6.3- | 40- | 29- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 65.3633- | 163.2428- | 2- | 29- | | 0-402945- | 07/31/76- | 16- | 13- | 11.8- | - | - | 7.8- | 7- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.32 |
| 02- | 65.3431- | 163.1097- | 2- | 27- | | 0-402946- | 07/31/76- | 16- | 13- | 10.0- | - | - | 7.8- | 9- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 65.3269- | 163.0472- | 2- | 27- | | 0-402947- | 07/31/76- | 16- | 13- | 9.6- | - | - | 6.0- | 9- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 65.3500- | 164.3542- | 2- | 29- | | 0-402948- | 07/31/76- | 17- | 13- | 14.4- | - | - | 7.3- | 78- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.09 |
| 02- | 65.3375- | 164.2458- | 2- | 29- | | 0-402949- | 07/31/76- | 17- | 15- | 14.5- | - | - | 7.1- | 34- | | -2- | 7- | 4- | 6- | -3- | 4- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02- | 65.3333- | 164.1833- | 2- | 29- | | 0-402950- | 07/31/76- | 17- | 15- | 14.9- | - | - | 7.3- | 26- | | -2- | 7- | 4- | 6- | -3- | 4- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.10 |
| 02- | 65.8458- | 164.4750- | 2- | 27- | | 0-402951- | 07/31/76- | 19- | 14- | 10.2- | C- | - | - | 100- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.21 |
| 02- | 65.8458- | 164.4233- | 2- | 27- | | 0-402952- | 07/31/76- | 19- | 13- | 10.4- | C- | - | - | 220- | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.29 |
| 02- | 65.9000- | 164.4000- | 2- | 27- | | 0-402953- | 07/31/76- | 19- | 13- | 10.8- | C- | - | - | 70- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 65.9139- | 164.4056- | 2- | 27- | | 0-402954- | 07/31/76- | 19- | 13- | 11.4- | C- | - | - | 100- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.21 |
| 02- | 65.9639- | 164.3889- | 2- | 27- | | 0-402955- | 07/31/76- | 19- | 16- | 11.4- | C- | S- | - | 70- | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.55 |
| 02- | 65.9708- | 164.3139- | 2- | 27- | | 0-402956- | 07/31/76- | 19- | 16- | 11.2- | C- | - | - | 20- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.39 |
| 02- | 66.1142- | 164.2000- | 2- | 29- | | 0-402957- | 07/31/76- | 19- | 16- | 16.1- | - | S- | 7.8- | 64- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.1200- | 164.2633- | 2- | 29- | | 0-402958- | 07/31/76- | 19- | 16- | 15.9- | - | S- | 7.6- | 73- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.1294- | 164.2100- | 2- | 29- | | 0-402959- | 07/31/76- | 19- | 16- | 16.4- | - | S- | 7.8- | 32- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.1356- | 164.2317- | 2- | 29- | | 0-402960- | 07/31/76- | 19- | 16- | 15.8- | - | S- | 7.5- | 47- | | -2- | 7- | 4- | 6- | - | - | - | 4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.17 |
| 02- | 66.2083- | 164.2903- | 2- | 27- | | 0-402961- | 07/31/76- | 19- | 16- | 10.8- | C- | - | - | 700- | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.14 |
| 02- | 66.1800- | 164.3050- | 2- | 29- | | 0-402962- | 07/31/76- | 19- | 16- | 11.2- | C- | - | - | 1500- | 16- | 2- | 7- | 4- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.65 |
| 02- | 66.1733- | 164.3683- | 2- | 29- | | 0-402963- | 07/31/76- | 19- | 16- | 16.3- | - | S- | 7.6- | 258- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.1600- | 164.3700- | 2- | 27- | | 0-402964- | 07/31/76- | 19- | 16- | 11.4- | C- | - | - | 180- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.55 |
| 02- | 66.1583- | 164.4467- | 2- | 27- | | 0-402965- | 07/31/76- | 19- | 16- | 11.4- | C- | - | - | 220- | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.16 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02-65.5517-163.3583-2-29- | 0-402899 | 1726 | -55 | -25 | -4 | 1205 | 1119 | 7 | 27 | 100 | 72 | 199 | 262 |
| 02-65.6639-163.2250-2-27- | 0-402900 | 3912 | -55 | -25 | -4 | 6870 | 4301 | 47 | 29 | 159 | 10 | 199 | 147 |
| 02-65.6350-163.1556-2-29- | 0-402901 | 2323 | -55 | -25 | -4 | 2042 | 1486 | 23 | -25 | 78 | 14 | 199 | 140 |
| 02-65.5500-163.0428-2-27- | 0-402903 | 1101 | -55 | -25 | -4 | 800 | 961 | 24 | -25 | 124 | 30 | 199 | 81 |
| 02-65.5292-163.0417-2-27- | 0-402904 | 4472 | -55 | -25 | -4 | 2819 | 8204 | 22 | -25 | 91 | 17 | 199 | 189 |
| 02-65.5375-163.1833-2-29- | 0-402905 | | | | | | | | | | | | |
| 02-65.5108-163.1997-2-29- | 0-402906 | 1587 | -55 | 32 | 7 | 1213 | 1581 | 30 | 46 | 203 | 29 | 199 | 123 |
| 02-65.4700-163.2117-2-29- | 0-402907 | 1330 | -55 | 27 | -4 | 899 | 1327 | 18 | -25 | 161 | 29 | 199 | 132 |
| 02-65.4550-163.2533-2-29- | 0-402908 | 2388 | -55 | 30 | -4 | 782 | 2279 | 18 | 36 | 198 | 34 | 199 | 75 |
| 02-65.4700-163.2667-2-29- | 0-402909 | 36193 | 124 | 74 | -4 | 73859 | 36937 | 1357 | 69 | 1072 | 58 | 199 | 627 |
| 02-65.4333-163.3800-2-29- | 0-402910 | 1906 | -55 | 37 | -4 | 4159 | 2126 | 27 | 63 | 279 | 33 | 300 | 82 |
| 02-65.4417-163.3706-2-29- | 0-402911 | 3563 | -55 | 31 | -4 | 5246 | 2854 | 69 | 33 | 229 | 14 | 199 | 171 |
| 02-65.4567-163.4133-2-29- | 0-402912 | 1434 | -55 | 31 | -4 | 3979 | 1447 | 42 | 47 | 237 | 30 | 243 | 197 |
| 02-65.4319-163.4639-2-27- | 0-402913 | 2811 | -55 | -25 | -4 | 3283 | 3222 | 25 | 38 | 208 | 27 | 199 | 144 |
| 02-65.4472-163.4678-2-27- | 0-402914 | 3793 | -55 | -25 | -4 | 5407 | 4445 | 67 | 45 | 254 | 20 | 199 | 449 |
| 02-65.4569-163.6167-2-27- | 0-402916 | 5231 | -55 | 29 | -4 | 1735 | 5629 | 43 | 42 | 288 | 16 | 199 | 241 |
| 02-65.4264-163.7133-2-29- | 0-402917 | 2585 | -55 | -25 | -4 | 734 | 2854 | 25 | 55 | 125 | 16 | 199 | 239 |
| 02-65.4278-163.6625-2-29- | 0-402918 | 14945 | -55 | -25 | -4 | 226 | 2959 | 10 | -25 | 128 | 13 | 199 | 199 |
| 02-65.5125-164.2014-2-29- | 0-402919 | 14539 | -55 | -25 | -4 | 1736 | 4145 | 69 | 34 | 192 | 47 | 199 | 155 |
| 02-65.4136-164.3450-2-29- | 0-402933 | 5563 | -55 | -25 | -4 | 163 | 2721 | 10 | 31 | 97 | 6 | 199 | 165 |
| 02-65.3806-164.3736-2-29- | 0-402934 | 21058 | 63 | -25 | -4 | 7979 | 11756 | 164 | -25 | 190 | 32 | 199 | 211 |
| 02-65.3617-164.2500-2-29- | 0-402935 | 16812 | -55 | -25 | -4 | 9737 | 8607 | 186 | 37 | 218 | 106 | 199 | 191 |
| 02-65.3806-164.1486-2-29- | 0-402936 | 9569 | -55 | -25 | -4 | 1767 | 4846 | 31 | -25 | 132 | 18 | 199 | 109 |
| 02-65.3833-164.0750-2-29- | 0-402937 | 36181 | 109 | -25 | -4 | 414 | 24184 | 16 | -25 | 70 | 3 | 199 | 126 |
| 02-65.3689-163.9733-2-29- | 0-402938 | 3239 | -55 | -25 | -4 | 1953 | 1652 | 32 | 44 | 170 | 27 | 199 | 62 |
| 02-65.3708-163.8708-2-27- | 0-402939 | 8705 | -55 | -25 | -4 | 227 | 2490 | 6 | 54 | 222 | 20 | 199 | -50 |
| 02-65.3819-163.7569-2-29- | 0-402940 | 2966 | -55 | 34 | -4 | 3976 | 1638 | 40 | 58 | 189 | 45 | 199 | -50 |
| 02-65.3861-163.6500-2-27- | 0-402941 | 52134 | 93 | -25 | -4 | 55 | 5547 | 7 | -25 | -25 | 3 | 199 | 98 |
| 02-65.3444-163.3431-2-27- | 0-402943 | 10835 | -55 | -25 | -4 | 528 | 2958 | 11 | 38 | 173 | 25 | 199 | -50 |
| 02-65.3763-163.3583-2-27- | 0-402944 | 8585 | -55 | -25 | -4 | 687 | 2287 | 19 | 32 | 160 | 52 | 199 | -50 |
| 02-65.3833-163.2428-2-29- | 0-402945 | 1033 | 67 | -25 | -4 | 1640 | 702 | 20 | 27 | 152 | 36 | 199 | -50 |
| 02-65.3431-163.1097-2-27- | 0-402946 | 1661 | 57 | -25 | -4 | 298 | 463 | 11 | 36 | 178 | 25 | 199 | -50 |
| 02-65.3269-163.0472-2-27- | 0-402947 | 1782 | -55 | 30 | -4 | 217 | 418 | 8 | 50 | 164 | 21 | 199 | -50 |
| 02-65.3500-164.3542-2-29- | 0-402948 | 12711 | -55 | -25 | -4 | 1193 | 4917 | 44 | 58 | 135 | 20 | 199 | -50 |
| 02-65.3375-164.2458-2-29- | 0-402949 | 4098 | -55 | 27 | -4 | 4528 | 2834 | 68 | 67 | 182 | 48 | 199 | -50 |
| 02-65.3333-164.1833-2-29- | 0-402950 | 3039 | 66 | 29 | -4 | 2364 | 1774 | 28 | 71 | 221 | 43 | 199 | -50 |
| 02-65.8458-164.4750-2-27- | 0-402951 | 17932 | 67 | 34 | -4 | 152 | 3602 | 5 | 64 | 243 | 21 | 199 | -50 |
| 02-65.8458-164.4233-2-27- | 0-402952 | 59488 | 86 | 28 | -4 | 208 | 11895 | 6 | 29 | 278 | 29 | 199 | 130 |
| 02-65.9000-164.4000-2-27- | 0-402953 | 15158 | 71 | 27 | -4 | 322 | 5304 | 22 | 89 | 237 | 25 | 199 | -50 |
| 02-65.9139-164.4056-2-27- | 0-402954 | 42244 | 104 | 27 | -4 | 334 | 7341 | 24 | 51 | 268 | 29 | 199 | -50 |
| 02-65.9639-164.3889-2-27- | 0-402955 | 17405 | 88 | 44 | -4 | 855 | 4931 | 39 | 84 | 284 | 33 | 199 | 104 |
| 02-65.9708-164.3139-2-27- | 0-402956 | 4461 | 75 | 50 | -4 | 3581 | 2540 | 48 | 108 | 305 | 41 | 199 | -50 |
| 02-66.1142-164.2000-2-29- | 0-402957 | 9996 | 75 | 43 | -4 | 1152 | 6146 | 23 | 86 | 262 | 27 | 199 | -50 |
| 02-66.1200-164.2633-2-29- | 0-402958 | 17482 | 93 | 46 | -4 | 2540 | 7369 | 61 | 78 | 333 | 66 | 199 | 58 |
| 02-66.1294-164.2100-2-29- | 0-402959 | 7132 | 99 | 43 | -4 | 4868 | 3515 | 70 | 69 | 256 | 32 | 199 | 102 |
| 02-66.1356-164.2317-2-29- | 0-402960 | 7049 | 92 | 37 | -4 | 1473 | 4355 | 26 | 69 | 218 | 29 | 199 | 92 |
| 02-66.2083-164.2903-2-27- | 0-402961 | 16486 | 131 | -25 | -4 | 1544 | 30100 | 39 | 86 | 227 | 63 | 199 | 121 |
| 02-66.1806-164.3050-2-29- | 0-402962 | 34704 | 162 | -25 | -4 | 2754 | 67148 | 78 | 83 | 312 | 53 | 199 | 167 |
| 02-66.1733-164.3683-2-29- | 0-402963 | 117000 | 161 | -25 | -4 | 1827 | 47804 | 80 | -25 | 268 | 113 | 199 | 170 |
| 02-66.1600-164.3700-2-27- | 0-402964 | 9337 | 85 | 46 | -4 | 1497 | 5962 | 28 | 86 | 262 | 35 | 199 | -50 |
| 02-66.1583-164.4467-2-27- | 0-402965 | 10425 | 91 | 53 | -4 | 1856 | 7604 | 35 | 93 | 307 | 42 | 199 | -50 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (µ) UNITS IN ppb |
| 02-66.1256- | 164.4100- | 2-27- | | | | 0-402966- | 07/31/76- | 20- | 16- | 10.6- | C- | - | - | 55- | | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02-66.1600- | 164.5333- | 2-29- | | | | 0-402967- | 07/31/76- | 20- | 16- | 16.5- | -S- | 8.4- | | 155- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.21 |
| 02-66.2064- | 164.5153- | 2-29- | | | | 0-402968- | 07/31/76- | 20- | 16- | 11.8- | C- | - | - | 70- | | 0- | 2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02-66.2197- | 164.4967- | 2-27- | | | | 0-402969- | 07/31/76- | 20- | 16- | 11.6- | C- | - | - | 70- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-66.2061- | 164.5367- | 2-27- | | | | 0-402970- | 07/31/76- | 20- | 16- | 11.8- | C- | - | - | 60- | | 89- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-66.2733- | 164.5767- | 2-29- | | | | 0-402972- | 07/31/76- | 20- | 17- | 16.4- | -S- | 8.2- | | 2- | | | -2- | 7- | 4- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02-66.3533- | 164.5600- | 2-29- | | | | 0-402974- | 07/31/76- | 20- | 16- | 15.0- | -S- | 8.3- | | 37- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02-66.4133- | 164.5400- | 2-29- | | | | 0-402975- | 07/31/76- | 20- | 16- | 15.6- | C-S- | 7.6- | | 42- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.40 |
| 02-66.4356- | 164.4950- | 2-29- | | | | 0-402976- | 07/31/76- | 20- | 16- | 15.5- | -S- | 7.6- | | 2- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.45 |
| 02-66.4200- | 164.4550- | 2-29- | | | | 0-402977- | 07/31/76- | 20- | 16- | 16.1- | C-S- | 7.5- | | 2- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.33 |
| 02-66.4472- | 164.4061- | 2-29- | | | | 0-402978- | 07/31/76- | 20- | 16- | 14.5- | C-S- | 7.6- | | 52- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.4167- | 164.3567- | 2-27- | | | | 0-402979- | 07/31/76- | 20- | 15- | 10.8- | C- | - | - | 110- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-66.3614- | 164.3100- | 2-27- | | | | 0-402981- | 07/31/76- | 20- | 15- | 11.8- | C- | - | - | 45- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 3- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-66.3761- | 164.3508- | 2-27- | | | | 0-402982- | 07/31/76- | 20- | 15- | 11.4- | C- | - | - | 95- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-66.3600- | 164.4450- | 2-29- | | | | 0-402983- | 07/31/76- | 21- | 15- | 14.7- | C-S- | 7.9- | | 23- | | | -2- | 7- | 4- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02-66.3369- | 164.4400- | 2-29- | | | | 0-402984- | 07/31/76- | 21- | 15- | 16.0- | C-S- | 7.5- | | 50- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02-66.3167- | 164.4100- | 2-29- | | | | 0-402985- | 07/31/76- | 21- | 15- | 16.2- | C-S- | 7.6- | | 56- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02-66.2633- | 164.4414- | 2-29- | | | | 0-402986- | 07/31/76- | 21- | 16- | 16.1- | C-S- | 7.5- | | 52- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.2633- | 164.4111- | 2-29- | | | | 0-402987- | 07/31/76- | 21- | 16- | 16.7- | - | - | 7.7- | 38- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02-66.2267- | 164.3700- | 2-29- | | | | 0-402988- | 07/31/76- | 21- | 15- | 16.1- | -S- | 7.3- | | 35- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.2294- | 164.3000- | 2-29- | | | | 0-402989- | 07/31/76- | 21- | 14- | 15.7- | -S- | 7.5- | | 118- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02-66.1767- | 164.2000- | 2-29- | | | | 0-402990- | 07/31/76- | 21- | 14- | 16.2- | -S- | 7.9- | | 61- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02-66.1667- | 164.0542- | 2-29- | | | | 0-402991- | 07/31/76- | 21- | 15- | 15.4- | -S- | 7.5- | | 72- | | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02-66.1211- | 164.1217- | 2-29- | | | | 0-402992- | 07/31/76- | 21- | 16- | 15.7- | -S- | 7.6- | | 2- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02-66.0767- | 164.2067- | 2-29- | | | | 0-402993- | 07/31/76- | 21- | 13- | 16.1- | -S- | 7.5- | | 14- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.0603- | 164.2750- | 2-29- | | | | 0-402994- | 07/31/76- | 21- | 14- | 16.1- | C-S- | 7.3- | | 2- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02-66.0100- | 164.2833- | 2-27- | | | | 0-402995- | 07/31/76- | 21- | 14- | 11.4- | C- | - | - | 60- | | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.27 |
| 02-65.9978- | 164.2800- | 2-29- | | | | 0-402996- | 07/31/76- | 21- | 14- | 11.4- | C- | - | - | 45- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02-65.9764- | 164.2067- | 2-29- | | | | 0-402997- | 07/31/76- | 21- | 14- | 15.1- | -S- | 7.2- | | 59- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.21 |
| 02-65.9389- | 164.2847- | 2-29- | | | | 0-402998- | 07/31/76- | 21- | 14- | 14.9- | -S- | 7.5- | | 23- | | | -2- | 7- | 4- | 6- | -3- | 2- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02-65.8944- | 164.2639- | 2-27- | | | | 0-402999- | 07/31/76- | 21- | 14- | 11.4- | C- | - | - | 37- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.37 |
| 02-65.9028- | 164.2194- | 2-27- | | | | 0-403000- | 07/31/76- | 21- | 14- | | -C- | - | - | 50- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-65.8014- | 164.2125- | 2-27- | | | | 0-403001- | 08/01/76- | 6- | 5- | 8.2- | - | - | 7.6- | 300- | | 0- | 3- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.67 |
| 02-65.7931- | 164.2625- | 2-27- | | | | 0-403002- | 08/01/76- | 7- | 5- | 8.6- | - | - | 7.2- | 250- | | 0- | 3- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.38 |
| 02-65.8528- | 164.2264- | 2-27- | | | | 0-403003- | 08/01/76- | 7- | 6- | 8.3- | - | - | 7.6- | 220- | | 6- | 3- | 6- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.77 |
| 02-65.8431- | 164.2750- | 2-27- | | | | 0-403004- | 08/01/76- | 7- | 8- | 8.6- | - | - | 7.6- | 200- | | 0- | 3- | 6- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.15 |
| 02-65.8208- | 164.1069- | 2-27- | | | | 0-403005- | 08/01/76- | 7- | 9- | 9.0- | - | - | 8.0- | 220- | | 0- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.60 |
| 02-65.8417- | 164.1028- | 2-27- | | | | 0-403006- | 08/01/76- | 7- | 8- | 9.0- | - | - | 7.6- | 190- | | 6- | 2- | 6- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.15 |
| 02-65.8819- | 164.0833- | 2-27- | | | | 0-403007- | 08/01/76- | 7- | 8- | 10.6- | - | - | 7.4- | 110- | | 0- | 3- | 6- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02-65.9333- | 164.1653- | 2-29- | | | | 0-403008- | 08/01/76- | 7- | 9- | 10.1- | - | - | 8.2- | 70- | | | -3- | 6- | 6- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.33 |
| 02-65.9208- | 164.1306- | 2-27- | | | | 0-403009- | 08/01/76- | 7- | 10- | 9.6- | - | - | 7.4- | 60- | | 6- | 3- | 6- | 5- | 6- | 1- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02-65.9667- | 164.1000- | 2-29- | | | | 0-403010- | 08/01/76- | 7- | 10- | 15.0- | C-S- | 7.8- | | 71- | | | -3- | 6- | 6- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.15 |
| 02-66.0167- | 164.1033- | 2-29- | | | | 0-403011- | 08/01/76- | 7- | 10- | 14.1- | -S- | 7.8- | | 72- | | | -3- | 6- | 6- | 6- | -3- | 2- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02-66.0650- | 164.0867- | 2-29- | | | | 0-403012- | 08/01/76- | 7- | 10- | 14.3- | -S- | 7.9- | | 98- | | | -3- | 6- | 6- | 6- | -3- | 1- | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.20 |
| 02-66.1375- | 163.9933- | 2-29- | | | | 0-403013- | 08/01/76- | 8- | 9- | 13.8- | -S- | 7.8- | | 359- | | | -2- | 6- | -7- | -3- | 2- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02-66.1761- | 164.1050- | 2-29- | | | | 0-403014- | 08/01/76- | 8- | 10- | 12.9- | C-S- | 6.9- | | 45- | | | -3- | 6- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.2250- | 163.9867- | 2-29- | | | | 0-403015- | 08/01/76- | 8- | 10- | 14.2- | -S- | 6.4- | | 43- | | | -2- | 7- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.2333- | 164.0233- | 2-29- | | | | 0-403016- | 08/01/76- | 8- | 10- | 14.4- | -S- | 6.8- | | 64- | | | -2- | 7- | 4- | 6- | -3- | 3- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02-66.2506- | 164.1376- | 2-29- | | | | 0-403017- | 08/01/76- | 8- | 9- | 14.7- | -S- | 7.3- | | 142- | | | -2- | 7- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02-66.2667- | 164.1433- | 2-29- | | | | 0-403018- | 08/01/76- | 8- | 10- | 14.6- | -S- | 7.7- | | 79- | | | -3- | 6- | 6- | 6- | -3- | 1- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.07 |
| 02-66.2781- | 164.2500- | 2-29- | | | | 0-403019- | 08/01/76- | 8- | 10- | 14.8- | C-S- | 7.8- | | 58- | | | -3- | 6- | 6- | 6- | -3- | 1- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAS. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.1256- | 164.4100- | 2- | 27- | | 0-402966 | 11808 | -55 | 27 | -4 | 14815 | 4196 | 465 | 36 | 146 | 34 | 199 | 74 |
| 02- | 66.1600- | 164.5333- | 2- | 29- | | 0-402967 | 32963 | 86 | -25 | -4 | 692 | 13936 | 47 | -25 | 173 | 21 | 199 | -50 |
| 02- | 66.2064- | 164.5153- | 2- | 29- | | 0-402968 | 17593 | 103 | -25 | -4 | 1471 | 11727 | 42 | 30 | 124 | 19 | 199 | -50 |
| 02- | 66.2197- | 164.4967- | 2- | 27- | | 0-402969 | 13154 | 56 | -25 | -4 | 2156 | 6529 | 42 | 42 | 123 | 31 | 199 | -50 |
| 02- | 66.2081- | 164.5367- | 2- | 27- | | 0-402970 | 14500 | 76 | -25 | -4 | 4470 | 10643 | 237 | 34 | 101 | 107 | 199 | -50 |
| 02- | 66.2733- | 164.5767- | 2- | 29- | | 0-402972 | 12914 | -55 | -25 | -4 | 2212 | 10061 | 64 | -25 | 111 | 22 | 199 | -50 |
| 02- | 66.3533- | 164.5600- | 2- | 29- | | 0-402974 | 4099 | 61 | -25 | -4 | 1114 | 4006 | 21 | 37 | 99 | 19 | 199 | -50 |
| 02- | 66.4133- | 164.5400- | 2- | 29- | | 0-402975 | 14883 | 75 | -25 | -4 | 1374 | 11090 | 38 | 27 | 136 | 64 | 199 | -50 |
| 02- | 66.4356- | 164.4950- | 2- | 29- | | 0-402976 | 5681 | 58 | -25 | -4 | 387 | 5593 | 11 | 29 | 72 | 25 | 199 | -50 |
| 02- | 66.4200- | 164.4550- | 2- | 29- | | 0-402977 | 8740 | 86 | -25 | -4 | 427 | 5122 | 10 | -25 | 55 | 48 | 199 | -50 |
| 02- | 66.4472- | 164.4081- | 2- | 29- | | 0-402978 | 7779 | 73 | -25 | -4 | 828 | 5385 | 30 | 32 | 107 | 26 | 199 | -50 |
| 02- | 66.4167- | 164.3567- | 2- | 27- | | 0-402979 | 16754 | 79 | -25 | -4 | 1735 | 13504 | 58 | -25 | 109 | 59 | 199 | 55 |
| 02- | 66.3614- | 164.3100- | 2- | 27- | | 0-402981 | 7467 | 64 | -25 | -4 | 13029 | 11482 | 119 | 40 | 154 | 24 | 199 | -50 |
| 02- | 66.3761- | 164.3508- | 2- | 27- | | 0-402982 | 23632 | 82 | -25 | -4 | 2820 | 17416 | 45 | -25 | 122 | 80 | 199 | -50 |
| 02- | 66.3600- | 164.4450- | 2- | 29- | | 0-402983 | 4152 | 75 | -25 | -4 | 268 | 3593 | 7 | -25 | 34 | 27 | 199 | -50 |
| 02- | 66.3369- | 164.4400- | 2- | 29- | | 0-402984 | 8434 | 77 | -25 | -4 | 1330 | 7634 | 44 | -25 | 90 | 32 | 199 | -50 |
| 02- | 66.3167- | 164.4100- | 2- | 29- | | 0-402985 | 20345 | 75 | -25 | -4 | 2173 | 15507 | 53 | -25 | 51 | 47 | 199 | 61 |
| 02- | 66.2633- | 164.4414- | 2- | 29- | | 0-402986 | 11898 | 116 | -25 | -4 | 2008 | 15186 | 30 | 116 | 402 | 68 | 199 | 139 |
| 02- | 66.2633- | 164.4111- | 2- | 29- | | 0-402987 | 10659 | 84 | -25 | -4 | 822 | 8670 | 24 | 32 | 75 | 26 | 199 | 185 |
| 02- | 66.2267- | 164.3700- | 2- | 29- | | 0-402988 | 18729 | 70 | -25 | -4 | 2933 | 12432 | 135 | 27 | 62 | 25 | 199 | 117 |
| 02- | 66.2294- | 164.3000- | 2- | 29- | | 0-402989 | 29604 | 78 | 29 | -4 | 1578 | 14069 | 42 | 42 | 259 | 37 | 199 | 139 |
| 02- | 66.1767- | 164.2000- | 2- | 29- | | 0-402990 | 10642 | 80 | -25 | -4 | 1888 | 9033 | 72 | 43 | 101 | 36 | 199 | 91 |
| 02- | 66.1667- | 164.0542- | 2- | 29- | | 0-402991 | | | | | | | | | | | | |
| 02- | 66.1211- | 164.1217- | 2- | 29- | | 0-402992 | 23582 | 92 | 30 | -4 | 7559 | 13330 | 125 | 48 | 237 | 90 | 199 | 134 |
| 02- | 66.0767- | 164.2067- | 2- | 29- | | 0-402993 | 4716 | 77 | 32 | -4 | 3144 | 2677 | 44 | 50 | 111 | 24 | 199 | 215 |
| 02- | 66.0603- | 164.2750- | 2- | 29- | | 0-402994 | 8000 | 74 | -25 | -4 | 3461 | 3695 | 105 | 41 | 57 | 12 | 199 | 144 |
| 02- | 66.0100- | 164.2833- | 2- | 27- | | 0-402995 | 13470 | 78 | -25 | -4 | 15684 | 7032 | 171 | 32 | 161 | 46 | 199 | 181 |
| 02- | 65.9978- | 164.2800- | 2- | 29- | | 0-402996 | 4345 | 80 | 29 | -4 | 4781 | 3586 | 73 | 53 | 161 | 60 | 199 | 184 |
| 02- | 65.9764- | 164.2067- | 2- | 29- | | 0-402997 | 17357 | 78 | -25 | -4 | 1021 | 6067 | 43 | -25 | 42 | 15 | 199 | 199 |
| 02- | 65.9389- | 164.2847- | 2- | 29- | | 0-402998 | 4629 | 76 | -25 | -4 | 2208 | 2222 | 47 | 37 | 71 | 34 | 199 | 244 |
| 02- | 65.8944- | 164.2639- | 2- | 27- | | 0-402999 | 8044 | 75 | -25 | -4 | 5839 | 3127 | 72 | 41 | 104 | 44 | 199 | 322 |
| 02- | 65.9028- | 164.2194- | 2- | 27- | | 0-403000 | 14994 | -55 | -25 | -4 | 41399 | 9282 | 288 | 28 | 185 | 89 | 199 | 376 |
| 02- | 65.8014- | 164.2125- | 2- | 27- | | 0-403001 | 111000 | 206 | -25 | -4 | 696 | 18391 | 57 | -25 | 125 | 30 | 199 | 305 |
| 02- | 65.7931- | 164.2625- | 2- | 27- | | 0-403002 | 147000 | 222 | -25 | -4 | 1377 | 33793 | 57 | -25 | 170 | 45 | 199 | 274 |
| 02- | 65.8528- | 164.2264- | 2- | 27- | | 0-403003 | 133000 | 202 | -25 | -4 | 672 | 11931 | 98 | -25 | 184 | 36 | 199 | 224 |
| 02- | 65.8431- | 164.2750- | 2- | 27- | | 0-403004 | 105000 | 163 | -25 | -4 | 1569 | 23565 | 45 | -25 | 128 | 50 | 199 | 194 |
| 02- | 65.8208- | 164.1069- | 2- | 27- | | 0-403005 | 137000 | 205 | -25 | -4 | 515 | 37192 | 26 | -25 | 155 | 30 | 199 | 201 |
| 02- | 65.8417- | 164.1028- | 2- | 27- | | 0-403006 | 104000 | 173 | -25 | -4 | 726 | 14811 | 39 | -25 | 153 | 36 | 199 | 151 |
| 02- | 65.8819- | 164.0833- | 2- | 27- | | 0-403007 | 45767 | 144 | -25 | -4 | 1112 | 4691 | 164 | 46 | 163 | 43 | 199 | 254 |
| 02- | 65.9333- | 164.1653- | 2- | 29- | | 0-403008 | 36589 | 120 | 30 | -4 | 2926 | 3848 | 117 | -25 | 155 | 33 | 199 | 160 |
| 02- | 65.9208- | 164.1306- | 2- | 27- | | 0-403009 | 21936 | 112 | 28 | -4 | 3735 | 3110 | 105 | 43 | 163 | 34 | 199 | 121 |
| 02- | 65.9667- | 164.1000- | 2- | 29- | | 0-403010 | 17510 | 120 | 42 | -4 | 2058 | 5745 | 63 | 70 | 235 | 40 | 199 | 175 |
| 02- | 66.0167- | 164.1033- | 2- | 29- | | 0-403011 | 17472 | 105 | -25 | -4 | 1956 | 7513 | 88 | 49 | 151 | 52 | 199 | 158 |
| 02- | 66.0650- | 164.0867- | 2- | 29- | | 0-403012 | 24376 | 132 | -25 | -4 | 633 | 8847 | 43 | -25 | 169 | 28 | 199 | 126 |
| 02- | 66.1375- | 163.9933- | 2- | 29- | | 0-403013 | 6533 | 104 | 35 | -4 | 3047 | 4211 | 69 | 79 | 172 | 55 | 199 | 88 |
| 02- | 66.1761- | 164.1050- | 2- | 29- | | 0-403014 | 2819 | 89 | -25 | -4 | 1894 | 3079 | 41 | 52 | 70 | 23 | 199 | 77 |
| 02- | 66.2250- | 163.9867- | 2- | 29- | | 0-403015 | 4525 | 76 | -25 | -4 | 2015 | 3728 | 39 | 52 | 65 | 57 | 199 | -50 |
| 02- | 66.2333- | 164.0233- | 2- | 29- | | 0-403016 | 16108 | 120 | -25 | -4 | 2555 | 12123 | 63 | 40 | 115 | 62 | 199 | 110 |
| 02- | 66.2506- | 164.1378- | 2- | 29- | | 0-403017 | 75181 | 167 | -25 | -4 | 2522 | 31709 | 162 | -25 | 152 | 128 | 199 | 221 |
| 02- | 66.2667- | 164.1433- | 2- | 29- | | 0-403018 | 30632 | 168 | -25 | -4 | 12195 | 23240 | 236 | 33 | 142 | 437 | 199 | 214 |
| 02- | 66.2781- | 164.2500- | 2- | 29- | | 0-403019 | 12964 | 120 | -25 | -4 | 2623 | 9261 | 98 | 75 | 183 | 73 | 199 | 182 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb |
| 02- | 66.3133- | 164.2367- | 2- | 29- | | 0-403020- | 08/01/76- | - | 10- | 15.1- | | -S- | 7.5- | 65- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.10 |
| 02- | 66.3267- | 164.1967- | 2- | 29- | | 0-403021- | 08/01/76- | 8- | 9- | 15.2- | | -S- | 7.8- | 40- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.63 |
| 02- | 66.3600- | 164.1667- | 2- | 29- | | 0-403022- | 08/01/76- | 8- | 9- | 14.3- | | -S- | 7.8- | 28- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4150- | 164.1600- | 2- | 29- | | 0-403023- | 08/01/76- | 8- | 8- | 14.8- | | -S- | 7.3- | 128- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4567- | 164.2267- | 2- | 29- | | 0-403024- | 08/01/76- | 8- | 9- | 13.2- | | -S- | 7.8- | 102- | | -3- | 6- | 4- | 6- | -3- | 4- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.05 |
| 02- | 66.4533- | 164.1567- | 2- | 29- | | 0-403025- | 08/01/76- | 8- | 7- | 14.6- | | -S- | 7.8- | 75- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4667- | 164.0472- | 2- | 29- | | 0-403026- | 08/01/76- | 8- | 9- | 14.3- | | -S- | 7.7- | 95- | | -3- | 6- | 6- | 6- | -3- | 2- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.42 |
| 02- | 66.4600- | 163.9783- | 2- | 29- | | 0-403027- | 08/01/76- | 8- | 10- | 14.4- | | -S- | 7.8- | 43- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.20 |
| 02- | 66.4664- | 163.7633- | 2- | 29- | | 0-403029- | 08/01/76- | 9- | 10- | 13.4- | | -S- | 7.0- | 196- | | -3- | 6- | 6- | 6- | -3- | - | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.4058- | 163.8700- | 2- | 29- | | 0-403030- | 08/01/76- | 9- | 10- | 14.0- | C- | S- | 6.8- | 322- | | -3- | 6- | 6- | 6- | -3- | 2- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.07 |
| 02- | 66.4056- | 163.9267- | 2- | 29- | | 0-403031- | 08/01/76- | 9- | 10- | 13.7- | | -S- | 7.9- | 49- | | -3- | 6- | 6- | 6- | -3- | 2- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4056- | 164.0333- | 2- | 29- | | 0-403032- | 08/01/76- | 8- | 10- | 13.9- | | -S- | 7.6- | 50- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 66.3767- | 164.0300- | 2- | 29- | | 0-403033- | 08/01/76- | 9- | 8- | 12.1- | C- | S- | 7.3- | 1512- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.3806- | 163.9472- | 2- | 29- | | 0-403034- | 07/01/76- | 9- | 9- | 14.3- | | -S- | 8.6- | 57- | | -3- | 6- | 6- | 6- | -3- | 2- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.32 |
| 02- | 66.3708- | 163.8708- | 2- | 29- | | 0-403035- | 07/01/76- | 9- | 9- | 10.3- | | -S- | 8.0- | 70- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.46 |
| 02- | 66.3208- | 163.8867- | 2- | 29- | | 0-403036- | 08/01/76- | 9- | 10- | 13.5- | | -S- | 8.0- | 147- | | -3- | 6- | 4- | 6- | -3- | 2- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.79 |
| 02- | 66.3256- | 163.9317- | 2- | 29- | | 0-403037- | 08/01/76- | 9- | 10- | 13.9- | | -S- | 7.8- | 78- | | -3- | 6- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.3167- | 164.0167- | 2- | 29- | | 0-403038- | 08/01/76- | 9- | 10- | 13.9- | C- | S- | 7.8- | 46- | | -3- | 6- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.16 |
| 02- | 66.2994- | 164.0333- | 2- | 29- | | 0-403039- | 08/01/76- | 9- | 10- | 14.1- | C- | S- | 8.1- | 46- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2939- | 163.9433- | 2- | 29- | | 0-403040- | 08/01/76- | 9- | 10- | 14.5- | | -S- | 7.7- | 132- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2758- | 163.8633- | 2- | 29- | | 0-403041- | 08/01/76- | 9- | 10- | 13.6- | | -S- | 8.1- | 54- | | -3- | 6- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2500- | 163.8925- | 2- | 29- | | 0-403042- | 08/01/76- | 9- | 10- | 13.7- | C- | S- | 8.1- | 78- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.16 |
| 02- | 66.1764- | 163.9233- | 2- | 29- | | 0-403043- | 08/01/76- | 9- | 10- | 13.4- | C- | S- | 7.8- | 136- | | -3- | 6- | 4- | 6- | -3- | - | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.68 |
| 02- | 66.1483- | 163.8900- | 2- | 29- | | 0-403044- | 08/01/76- | 9- | 10- | 13.2- | | -S- | 7.4- | 95- | | -3- | 6- | 4- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.1203- | 163.9733- | 2- | 29- | | 0-403045- | 08/01/76- | 9- | 10- | 13.7- | | -S- | 7.1- | 20- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.22 |
| 02- | 66.0617- | 163.9500- | 2- | 29- | | 0-403046- | 08/01/76- | 11- | 12- | 14.6- | | -S- | 7.7- | 34- | | -3- | 6- | 4- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.23 |
| 02- | 66.0667- | 163.9183- | 2- | 29- | | 0-403047- | 08/01/76- | 11- | 12- | 14.5- | | -S- | 7.3- | 57- | | -3- | 6- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.23 |
| 02- | 66.1031- | 163.9078- | 2- | 29- | | 0-403048- | 08/01/76- | 11- | 12- | 14.6- | | -S- | 7.3- | 25- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0900- | 163.7967- | 2- | 29- | | 0-403049- | 08/01/76- | 11- | 12- | 14.5- | | -S- | 7.2- | 62- | | -3- | 6- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0808- | 163.8000- | 2- | 29- | | 0-403050- | 08/01/76- | 11- | 14- | 13.9- | C- | S- | 7.3- | 52- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.34 |
| 02- | 66.0594- | 163.6967- | 2- | 29- | | 0-403051- | 08/01/76- | 11- | 14- | 14.1- | | -S- | 6.8- | 1782- | | -3- | 6- | 6- | 6- | -3- | 2- | - | - | - | - | - | - | - | - | - | 0.17 |
| 02- | 66.0250- | 163.6100- | 2- | 29- | | 0-403052- | 08/01/76- | 11- | 13- | 14.7- | | -S- | 7.6- | 76- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.0247- | 163.5883- | 2- | 27- | | 0-403053- | 08/01/76- | 11- | 14- | 12.6- | | - | 8.0- | 26- | | 6- | 3- | 6- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.12 |
| 02- | 66.0567- | 163.5667- | 2- | 29- | | 0-403054- | 08/01/76- | 11- | 13- | 14.1- | C- | S- | 7.6- | 48- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.10 |
| 02- | 66.0528- | 163.4900- | 2- | 27- | | 0-403055- | 08/01/76- | 11- | 14- | 12.6- | | - | 7.4- | 28- | | 0- | 3- | 7- | 5- | 6- | 2- | 2- | 2- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.21 |
| 02- | 66.0400- | 163.4733- | 2- | 27- | | 0-403056- | 08/01/76- | 11- | 14- | 13.2- | | - | 7.6- | 27- | | 0- | 3- | 6- | 6- | 6- | 2- | 2- | 2- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.0667- | 163.3550- | 2- | 29- | | 0-403057- | 08/01/76- | 11- | 13- | 14.2- | | -S- | 6.7- | 49- | | -3- | 6- | 6- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.0325- | 163.2333- | 2- | 27- | | 0-403059- | 08/01/76- | 11- | 14- | 13.9- | | - | 7.5- | 40- | | 0- | 3- | 6- | 6- | 6- | 2- | 3- | 2- | 1- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9819- | 163.3333- | 2- | 27- | | 0-403070- | 08/01/76- | 12- | 13- | 13.0- | | - | 7.4- | 170- | | 0- | 3- | 6- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 1.59 |
| 02- | 65.9833- | 163.2800- | 2- | 27- | | 0-403071- | 08/01/76- | 12- | 14- | 12.7- | | - | 7.4- | 260- | | 9- | 3- | 6- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 1- | -1- | - | - | - | - | 3.35 |
| 02- | 65.9444- | 163.4500- | 2- | 27- | | 0-403072- | 08/01/76- | 13- | 13- | 14.0- | | - | 7.6- | 160- | | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 0.22 |
| 02- | 65.9658- | 163.4517- | 2- | 27- | | 0-403073- | 08/01/76- | 13- | 14- | 11.8- | | - | 7.8- | 200- | | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 0.58 |
| 02- | 65.3650- | 164.4944- | 2- | 29- | | 0-403074- | 08/01/76- | 15- | 20- | 19.9- | | - | 7.5- | 48- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 3- | 1- | -1- | - | - | - | - | - | 0.52 |
| 02- | 65.3117- | 164.4922- | 2- | 29- | | 0-403075- | 08/01/76- | 15- | 21- | 18.2- | | - | 7.2- | 150- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 3- | 1- | -1- | - | - | - | - | - | 0.06 |
| 02- | 65.2528- | 164.4606- | 2- | 29- | | 0-403077- | 08/01/76- | 16- | 22- | 17.2- | | - | 8.0- | 25- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | - | 0.16 |
| 02- | 65.2167- | 164.4817- | 2- | 27- | | 0-403078- | 08/01/76- | 16- | 23- | 14.1- | | - | 7.6- | 45- | | 132- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.19 |
| 02- | 65.2339- | 164.3408- | 2- | 27- | | 0-403079- | 08/01/76- | 16- | 22- | 17.3- | | - | 7.2- | 250- | | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.43 |
| 02- | 65.2481- | 164.2917- | 2- | 27- | | 0-403080- | 08/01/76- | 16- | 23- | 16.7- | | - | 7.5- | 250- | | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.80# |
| 02- | 65.1625- | 164.4361- | 2- | 27- | | 0-403081- | 08/01/76- | 16- | 21- | 14.1- | | - | 7.3- | 65- | | 46- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.08 |
| 02- | 65.1933- | 164.3917- | 2- | 27- | | 0-403082- | 08/01/76- | 16- | 22- | 12.1- | | - | 7.7- | 50- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.75 |
| 02- | 65.1700- | 164.2789- | 2- | 27- | | 0-403083- | 08/01/76- | 16- | 20- | 14.1- | | - | 7.3- | 40- | | 19- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.03 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Concentrations reported in weight parts per billion (ppb) | | | | | | | | | | | |
| | | | | | | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.3133- | 164.2367- | 2- | 29- | | 0-403020 | 10361 | 103 | -25 | -4 | 506 | 6321 | 25 | 40 | 76 | 15 | 199 | 119 |
| 02- | 66.3267- | 164.1967- | 2- | 29- | | 0-403021 | 4669 | 89 | 27 | -4 | 988 | 3904 | 29 | 71 | 145 | 49 | 199 | 130 |
| 02- | 66.3600- | 164.1667- | 2- | 29- | | 0-403022 | 3685 | 105 | 38 | -4 | 434 | 2439 | 16 | 74 | 145 | 44 | 199 | 124 |
| 02- | 66.4156- | 164.1600- | 2- | 29- | | 0-403023 | 19633 | 123 | -25 | -4 | 468 | 15101 | 28 | 51 | 143 | 27 | 199 | 181 |
| 02- | 66.4567- | 164.2267- | 2- | 29- | | 0-403024 | 14234 | 134 | 39 | -4 | 5053 | 10499 | 83 | 105 | 256 | 315 | 199 | 234 |
| 02- | 66.4533- | 164.1567- | 2- | 29- | | 0-403025 | 9901 | 120 | -25 | -4 | 1026 | 6988 | 30 | 67 | 144 | 28 | 199 | 194 |
| 02- | 66.4667- | 164.0472- | 2- | 29- | | 0-403026 | 57340 | 175 | -25 | -4 | 4713 | 29602 | 200 | -25 | 161 | 193 | 199 | 207 |
| 02- | 66.4600- | 163.9783- | 2- | 29- | | 0-403027 | 5597 | 103 | 28 | -4 | 836 | 4611 | 18 | 72 | 104 | 24 | 199 | 163 |
| 02- | 66.4664- | 163.7633- | 2- | 29- | | 0-403029 | 8219 | 119 | -25 | -4 | 2653 | 11972 | 69 | 77 | 105 | 31 | 199 | 120 |
| 02- | 66.4058- | 163.8700- | 2- | 29- | | 0-403030 | 56772 | 159 | -25 | -4 | 2237 | 31996 | 113 | 45 | 236 | 109 | 199 | 207 |
| 02- | 66.4056- | 163.9267- | 2- | 29- | | 0-403031 | 6732 | 111 | -25 | -4 | 2167 | 5097 | 42 | 66 | 129 | 74 | 199 | 132 |
| 02- | 66.4056- | 164.0333- | 2- | 29- | | 0-403032 | 5200 | 98 | 30 | -4 | 2942 | 4836 | 41 | 83 | 136 | 87 | 199 | 133 |
| 02- | 66.3767- | 164.0300- | 2- | 29- | | 0-403033 | 5075 | 107 | -25 | -4 | 2049 | 4591 | 81 | 70 | 104 | 29 | 199 | 110 |
| 02- | 66.3806- | 163.9472- | 2- | 29- | | 0-403034 | 106000 | 248 | -25 | -4 | 324 | 71338 | 26 | -25 | 150 | 28 | 199 | 200 |
| 02- | 66.3708- | 163.8708- | 2- | 29- | | 0-403035 | 6692 | 115 | 28 | -4 | 2136 | 5876 | 49 | 84 | 115 | 117 | 199 | 91 |
| 02- | 66.3208- | 163.8867- | 2- | 29- | | 0-403036 | 8299 | 106 | -25 | -4 | 2907 | 9352 | 50 | 52 | 133 | 161 | 199 | 124 |
| 02- | 66.3256- | 163.9317- | 2- | 29- | | 0-403037 | 5753 | 88 | -25 | -4 | 1614 | 5525 | 35 | 60 | 79 | 50 | 199 | 82 |
| 02- | 66.3167- | 164.0167- | 2- | 29- | | 0-403038 | 6370 | 109 | 26 | -4 | 3230 | 6442 | 68 | 87 | 163 | 41 | 199 | 52 |
| 02- | 66.2994- | 164.0333- | 2- | 29- | | 0-403039 | 6500 | 103 | -25 | -4 | 3700 | 6526 | 168 | 81 | 169 | 76 | 199 | 176 |
| 02- | 66.2939- | 163.9433- | 2- | 29- | | 0-403040 | 22082 | 121 | -25 | -4 | 348 | 15476 | 29 | 44 | 102 | 24 | 199 | 103 |
| 02- | 66.2758- | 163.8633- | 2- | 29- | | 0-403041 | 6494 | 104 | -25 | -4 | 1656 | 6263 | 30 | 57 | 117 | 40 | 199 | 141 |
| 02- | 66.2500- | 163.8925- | 2- | 29- | | 0-403042 | 8886 | 111 | -25 | -4 | 3636 | 6692 | 75 | 51 | 104 | 142 | 199 | 139 |
| 02- | 66.1764- | 163.9233- | 2- | 29- | | 0-403043 | 4112 | 129 | 50 | -4 | 1108 | 5065 | 17 | 97 | 175 | 32 | 199 | 204 |
| 02- | 66.1483- | 163.8900- | 2- | 29- | | 0-403044 | 4141 | 111 | 29 | -4 | 4499 | 4445 | 61 | 74 | 153 | 67 | 199 | 145 |
| 02- | 66.1203- | 163.9733- | 2- | 29- | | 0-403045 | 1754 | 108 | 70 | -4 | 335 | 1077 | 11 | 146 | 326 | 34 | 643 | -50 |
| 02- | 66.0617- | 163.9500- | 2- | 29- | | 0-403046 | 5558 | 110 | 34 | -4 | 2794 | 2245 | 65 | 80 | 153 | 30 | 199 | 86 |
| 02- | 66.0667- | 163.9183- | 2- | 29- | | 0-403047 | 467 | 133 | 157 | 20 | 174 | 20 | 16 | 292 | 854 | 56 | 1784 | 127 |
| 02- | 66.1031- | 163.9078- | 2- | 29- | | 0-403048 | 328 | 144 | 138 | 20 | 142 | 3 | 15 | 264 | 808 | 50 | 1438 | 78 |
| 02- | 66.0900- | 163.7967- | 2- | 29- | | 0-403049 | 10124 | 121 | 28 | -4 | 4158 | 5330 | 56 | 67 | 160 | 38 | 199 | 136 |
| 02- | 66.0808- | 163.8000- | 2- | 29- | | 0-403050 | 6374 | 139 | 29 | -4 | 9935 | 3899 | 108 | 68 | 173 | 32 | 199 | 110 |
| 02- | 66.0594- | 163.6967- | 2- | 29- | | 0-403051 | 68387 | 186 | -25 | -4 | 2429 | 88140 | 130 | -25 | 97 | 52 | 199 | 264 |
| 02- | 66.0250- | 163.6100- | 2- | 29- | | 0-403052 | 18092 | 107 | -25 | -4 | 3301 | 8558 | 141 | 31 | 33 | 28 | 199 | 205 |
| 02- | 66.0247- | 163.5883- | 2- | 27- | | 0-403053 | 4753 | 108 | -25 | -4 | 5119 | 2941 | 206 | 40 | 68 | 21 | 199 | 131 |
| 02- | 66.0567- | 163.5667- | 2- | 29- | | 0-403054 | 8200 | -55 | 32 | -4 | 3196 | 4183 | 75 | 51 | 149 | 47 | 199 | 83 |
| 02- | 66.0528- | 163.4900- | 2- | 27- | | 0-403055 | 7143 | 78 | -25 | -4 | 5743 | 4207 | 192 | -25 | 48 | 22 | 199 | 123 |
| 02- | 66.0400- | 163.4733- | 2- | 27- | | 0-403056 | 3920 | 60 | -25 | -4 | 5556 | 3201 | 134 | -25 | 28 | 28 | 199 | 141 |
| 02- | 66.0667- | 163.3550- | 2- | 29- | | 0-403057 | 4368 | -55 | -25 | -4 | 5030 | 4463 | 58 | -25 | 53 | 39 | 199 | 144 |
| 02- | 66.0325- | 163.2333- | 2- | 27- | | 0-403059 | 19042 | 73 | -25 | -4 | 2659 | 2303 | 84 | -25 | -25 | 8 | 199 | 260 |
| 02- | 65.9819- | 163.3333- | 2- | 27- | | 0-403070 | 71470 | 130 | -25 | -4 | 111 | 12797 | 16 | -25 | 87 | 8 | 199 | 111 |
| 02- | 65.9833- | 163.2800- | 2- | 27- | | 0-403071 | 123000 | 152 | -25 | -4 | 795 | 26201 | 88 | -25 | 100 | 11 | 199 | 121 |
| 02- | 65.9444- | 163.4500- | 2- | 27- | | 0-403072 | 117000 | 146 | -25 | -4 | 200 | 12052 | 18 | -25 | 40 | 13 | 199 | 52 |
| 02- | 65.9658- | 163.4517- | 2- | 27- | | 0-403073 | 72608 | 96 | -25 | -4 | 164 | 7632 | 10 | -25 | -25 | 6 | 199 | -50 |
| 02- | 65.3650- | 164.4944- | 2- | 29- | | 0-403074 | 9491 | -55 | -25 | -4 | 3298 | 3417 | 52 | -25 | 75 | 26 | 199 | -50 |
| 02- | 65.3117- | 164.4922- | 2- | 29- | | 0-403075 | 35362 | 98 | -25 | -4 | 11632 | 12170 | 463 | -25 | 98 | 24 | 199 | 100 |
| 02- | 65.2528- | 164.4806- | 2- | 29- | | 0-403077 | 9963 | -55 | -25 | -4 | 3769 | 3069 | 128 | -25 | 26 | 9 | 199 | -50 |
| 02- | 65.2167- | 164.4817- | 2- | 27- | | 0-403078 | 3465 | -55 | -25 | -4 | 14931 | 1491 | 210 | -25 | 36 | 54 | 199 | -50 |
| 02- | 65.2339- | 164.3408- | 2- | 27- | | 0-403079 | 5289 | -55 | -25 | -4 | 7079 | 2785 | 69 | -25 | -25 | 120 | 199 | -50 |
| 02- | 65.2481- | 164.2917- | 2- | 27- | | 0-403080 | | | | | | | | | | | | |
| 02- | 65.1625- | 164.4361- | 2- | 27- | | 0-403081 | 26642 | 56 | -25 | -4 | 236 | 2257 | -3 | -25 | 45 | 10 | 199 | -50 |
| 02- | 65.1933- | 164.3917- | 2- | 27- | | 0-403082 | 22495 | -55 | -25 | -4 | 3008 | 2501 | 66 | -25 | 50 | 93 | 199 | -50 |
| 02- | 65.1700- | 164.2789- | 2- | 27- | | 0-403083 | 21583 | 75 | -25 | -4 | 999 | 2888 | 32 | -25 | 56 | 55 | 199 | -50 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02- | 65.0981- | 164.3675- | 2- | 27- | | 0-403085- | 08/01/76- | 16- | 21- | 15.3- | - | - | 6.8- | 15- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 65.1764- | 164.1792- | 2- | 27- | | 0-403086- | 08/01/76- | 16- | 20- | 15.2- | - | - | 7.1- | 40- | 33- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.04 |
| 02- | 65.0956- | 164.4800- | 2- | 27- | | 0-403092- | 08/01/76- | 17- | 19- | 16.3- | - | - | 7.5- | 50- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.08 |
| 02- | 65.2272- | 163.9431- | 2- | 27- | | 0-403114- | 08/01/76- | 18- | 18- | 13.9- | - | - | 6.9- | 50- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.52 |
| 02- | 65.2267- | 163.8778- | 2- | 27- | | 0-403115- | 08/01/76- | 18- | 16- | 12.2- | - | - | 7.1- | 30- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.07 |
| 02- | 65.2572- | 164.0542- | 2- | 27- | | 0-403116- | 08/01/76- | 18- | 19- | 13.3- | - | - | 8.1- | 50- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.15 |
| 02- | 65.2714- | 164.0867- | 2- | 27- | | 0-403117- | 08/01/76- | 18- | 18- | 14.7- | - | - | 7.4- | 30- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.21 |
| 02- | 65.7950- | 163.9750- | 2- | 27- | | 0-403118- | 08/01/76- | 9- | 19- | 10.4- | - | - | 7.8- | 50- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 65.9056- | 163.9861- | 2- | 27- | | 0-403119- | 08/01/76- | 9- | 19- | 10.8- | - | - | 7.8- | 20- | 36- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 65.8719- | 163.9167- | 2- | 27- | | 0-403120- | 08/01/76- | 9- | 18- | 11.2- | - | - | 8.0- | 20- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.17 |
| 02- | 65.8606- | 163.9467- | 2- | 27- | | 0-403121- | 08/01/76- | 9- | 18- | 10.9- | - | - | 7.8- | 20- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 65.9272- | 163.9000- | 2- | 27- | | 0-403122- | 08/02/76- | 9- | 14- | 10.8- | - | - | 7.6- | 50- | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | - | 0.50 |
| 02- | 65.9806- | 163.9704- | 2- | 27- | | 0-403125- | 07/31/76- | 10- | 14- | 11.2- | - | - | 7.9- | 30- | 6- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 3- | 2- | 3- | 3- | -1- | - | - | - | - | 0.02 |
| 02- | 66.0167- | 163.8431- | 2- | 27- | | 0-403126- | 08/02/76- | 20- | 16- | 10.8- | - | - | 7.9- | 30- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.04 |
| 02- | 66.0042- | 163.9517- | 2- | 29- | | 0-403127- | 08/02/76- | 10- | 14- | 10.8- | - | - | 7.8- | 50- | 23- | 2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.0431- | 163.7917- | 2- | 29- | | 0-403128- | 08/02/76- | 10- | 14- | 10.8- | - | - | 8.4- | 50- | 0- | 2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 0.02 |
| 02- | 65.9806- | 163.7931- | 2- | 29- | | 0-403129- | 08/02/76- | 10- | 14- | 10.8- | - | - | 7.8- | 30- | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | - | 0.01 |
| 02- | 65.9383- | 163.7567- | 2- | 27- | | 0-403130- | 08/02/76- | 10- | 14- | 10.8- | - | - | 8.0- | 40- | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.02 |
| 02- | 65.9833- | 163.6750- | 2- | 27- | | 0-403131- | 08/02/76- | 10- | 14- | 11.2- | - | - | 7.9- | 50- | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 0.07 |
| 02- | 65.9781- | 163.5944- | 2- | 27- | | 0-403132- | 08/02/76- | 10- | 14- | 11.2- | - | - | 7.6- | 150- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 1.70 |
| 02- | 65.9467- | 163.5867- | 2- | 27- | | 0-403133- | 08/02/76- | 10- | 14- | 10.8- | - | - | 7.6- | 100- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.71 |
| 02- | 65.9194- | 163.6528- | 2- | 27- | | 0-403134- | 08/02/76- | 10- | 14- | 10.2- | - | - | 7.8- | 80- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.16 |
| 02- | 65.8958- | 163.6833- | 2- | 27- | | 0-403135- | 08/02/76- | 10- | 14- | 11.2- | - | - | 8.1- | 150- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.52 |
| 02- | 65.8786- | 163.7467- | 2- | 27- | | 0-403136- | 08/02/76- | 10- | 14- | 11.2- | - | - | 7.8- | 80- | 33- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 0.07 |
| 02- | 65.8639- | 163.7500- | 2- | 27- | | 0-403137- | 08/02/76- | 11- | 14- | 10.8- | - | - | 7.6- | 90- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 0.28 |
| 02- | 65.8614- | 163.8311- | 2- | 27- | | 0-403138- | 08/02/76- | 11- | 14- | 11.6- | - | - | 7.8- | 40- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 0.01 |
| 02- | 65.8017- | 163.8069- | 2- | 27- | | 0-403139- | 08/02/76- | 11- | 14- | 11.6- | - | - | 7.8- | 200- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.7911- | 163.8583- | 2- | 27- | | 0-403140- | 08/02/76- | 11- | 14- | 11.8- | - | - | - | 100- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.37 |
| 02- | 65.8514- | 163.6861- | 2- | 27- | | 0-403141- | 08/02/76- | 11- | 16- | 11.6- | - | - | 7.8- | 220- | 43- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 1.35 |
| 02- | 65.8194- | 163.6467- | 2- | 27- | | 0-403142- | 08/02/76- | 11- | 16- | 11.2- | - | - | 6.8- | 210- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.03 |
| 02- | 65.7772- | 163.5144- | 2- | 27- | | 0-403143- | 08/02/76- | 11- | 15- | 11.4- | - | - | 7.2- | 50- | 26- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.7606- | 163.6017- | 2- | 27- | | 0-403144- | 08/02/76- | 11- | 15- | 11.4- | - | - | 7.8- | 50- | 0- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 65.8119- | 163.5967- | 2- | 27- | | 0-403145- | 08/02/76- | 11- | 15- | 11.4- | - | - | 7.8- | 200- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.94 |
| 02- | 65.7928- | 163.4083- | 2- | 27- | | 0-403146- | 08/02/76- | 12- | 14- | 11.2- | - | - | 6.8- | 160- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 2- | 2- | 3- | 2- | -1- | - | - | - | - | 2.53 |
| 02- | 65.7881- | 163.3611- | 2- | 27- | | 0-403147- | 08/02/76- | 12- | 14- | 11.7- | - | - | 7.4- | 150- | 19- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 2- | 2- | 3- | 2- | -1- | - | - | - | - | 2.25 |
| 02- | 65.8389- | 163.4347- | 2- | 27- | | 0-403148- | 08/02/76- | 12- | 14- | 11.4- | - | - | 7.6- | 200- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.77 |
| 02- | 65.8356- | 163.5642- | 2- | 27- | | 0-403150- | 08/02/76- | 12- | 15- | 11.4- | - | - | - | 200- | 0- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.46 |
| 02- | 65.9006- | 163.4714- | 2- | 27- | | 0-403151- | 08/02/76- | 12- | 15- | 11.4- | - | - | 7.8- | 50- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 3.59 |
| 02- | 65.8833- | 163.5400- | 2- | 27- | | 0-403152- | 08/02/76- | 12- | 15- | 11.6- | - | - | 7.6- | 200- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 3.91 |
| 02- | 65.8058- | 164.6375- | 2- | 27- | | 0-403156- | 08/02/76- | 13- | 16- | 11.2- | - | - | 7.6- | 50- | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 65.2956- | 164.3333- | 2- | 29- | | 0-403164- | 08/02/76- | 15- | 15- | 12.3- | - | - | 7.7- | 50- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.07 |
| 02- | 65.2931- | 164.2833- | 2- | 29- | | 0-403165- | 08/02/76- | 15- | 15- | 14.7- | - | - | 7.6- | 38- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.30* |
| 02- | 65.2222- | 164.1847- | 2- | 29- | | 0-403166- | 08/02/76- | 15- | 15- | 12.1- | - | - | 6.9- | 60- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.26 |
| 02- | 65.2061- | 164.2683- | 2- | 29- | | 0-403167- | 08/02/76- | 15- | 15- | 13.7- | - | - | 7.8- | 25- | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02- | 65.2742- | 164.1450- | 2- | 27- | | 0-403168- | 08/02/76- | 15- | 16- | 12.5- | - | - | 7.2- | 40- | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 65.2528- | 164.1708- | 2- | 27- | | 0-403169- | 08/02/76- | 15- | 15- | 13.3- | - | - | 7.0- | 25- | 39- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | -2- | -1- | - | - | - | - | - | 0.03 |
| 02- | 65.3000- | 163.9906- | 2- | 27- | | 0-403170- | 08/02/76- | 15- | 16- | 13.7- | - | - | 7.4- | 60- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.99 |
| 02- | 65.3414- | 164.0139- | 2- | 27- | | 0-403171- | 08/02/76- | 15- | 15- | 12.7- | - | - | 8.1- | 50- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 65.3261- | 163.9339- | 2- | 27- | | 0-403172- | 08/02/76- | 15- | 16- | 13.0- | - | - | 7.1- | 20- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 65.3258- | 163.8667- | 2- | 27- | | 0-403173- | 08/02/76- | 15- | 15- | 10.8- | - | - | 6.8- | 30- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.57 |
| 02- | 65.2928- | 163.8572- | 2- | 27- | | 0-403174- | 08/02/76- | 15- | 15- | 11.3- | - | - | 7.1- | 10- | 63- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.23 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 65.0981- | 164.3675- | 2- | 27- | | 0-403085 | 2704 | 72 | -25 | -4 | 92 | 654 | -3 | -25 | 36 | 7 | 199 | -50 |
| 02- | 65.1764- | 164.1792- | 2- | 27- | | 0-403086 | 10572 | 79 | -25 | -4 | 141 | 1919 | -3 | -25 | 55 | 14 | 199 | -50 |
| 02- | 65.0958- | 164.4800- | 2- | 27- | | 0-403092 | 17444 | 63 | -25 | -4 | 240 | 2002 | 6 | -25 | 43 | 14 | 199 | -50 |
| 02- | 65.2272- | 163.9431- | 2- | 27- | | 0-403114 | 15031 | 73 | -25 | -4 | 866 | 1615 | 29 | -25 | -25 | 39 | 199 | -50 |
| 02- | 65.2267- | 163.8778- | 2- | 27- | | 0-403115 | 8914 | 95 | -25 | -4 | 381 | 1439 | 4 | -25 | -25 | 34 | 199 | -50 |
| 02- | 65.2572- | 164.0542- | 2- | 27- | | 0-403116 | 14094 | -55 | -25 | -4 | 1944 | 2167 | 32 | -25 | 80 | 152 | 199 | -50 |
| 02- | 65.2714- | 164.0867- | 2- | 27- | | 0-403117 | 7488 | 67 | -25 | -4 | 1242 | 1441 | 30 | -25 | 73 | 78 | 199 | -50 |
| 02- | 65.7950- | 163.9750- | 2- | 27- | | 0-403118 | 33873 | 101 | -25 | -4 | 373 | 4023 | 27 | -25 | 90 | 23 | 199 | -50 |
| 02- | 65.9056- | 163.9861- | 2- | 27- | | 0-403119 | 3895 | 66 | -25 | -4 | 5885 | 2217 | 160 | 32 | 48 | 19 | 199 | -50 |
| 02- | 65.8719- | 163.9167- | 2- | 27- | | 0-403120 | 9382 | 59 | -25 | -4 | 3202 | 3139 | 30 | 28 | 62 | 23 | 199 | -50 |
| 02- | 65.8606- | 163.9467- | 2- | 27- | | 0-403121 | 5967 | 87 | -25 | -4 | 30444 | 3826 | 339 | 33 | 148 | 41 | 199 | -50 |
| 02- | 65.9272- | 163.9000- | 2- | 27- | | 0-403122 | 30557 | 93 | -25 | -4 | 4464 | 2347 | 101 | -25 | 73 | 20 | 199 | -50 |
| 02- | 65.9806- | 163.9764- | 2- | 27- | | 0-403125 | 12045 | 72 | -25 | -4 | 3062 | 3421 | 61 | -25 | 97 | 23 | 199 | -50 |
| 02- | 66.0167- | 163.8431- | 2- | 27- | | 0-403126 | 20506 | 94 | -25 | -4 | 3877 | 3903 | 200 | -25 | 53 | 21 | 199 | -50 |
| 02- | 66.0042- | 163.9517- | 2- | 29- | | 0-403127 | 20086 | -55 | -25 | -4 | 1921 | 4501 | 38 | -25 | 39 | 23 | 199 | -50 |
| 02- | 66.0431- | 163.7917- | 2- | 29- | | 0-403128 | 14900 | 75 | -25 | -4 | 2130 | 5434 | 92 | -25 | 64 | 14 | 199 | -50 |
| 02- | 65.9806- | 163.7931- | 2- | 29- | | 0-403129 | 13982 | 64 | -25 | -4 | 2433 | 2990 | 62 | -25 | 75 | 16 | 199 | -50 |
| 02- | 65.9383- | 163.7567- | 2- | 27- | | 0-403130 | 27289 | 80 | -25 | -4 | 3453 | 4470 | 156 | -25 | 35 | 21 | 199 | -50 |
| 02- | 65.9833- | 163.6750- | 2- | 27- | | 0-403131 | 49971 | 112 | -25 | -4 | 14486 | 6818 | 2356 | -25 | 141 | 22 | 199 | -50 |
| 02- | 65.9781- | 163.5944- | 2- | 27- | | 0-403132 | 153000 | 175 | -25 | -4 | 2065 | 13626 | 402 | -25 | 96 | 28 | 199 | -50 |
| 02- | 65.9467- | 163.5867- | 2- | 27- | | 0-403133 | 92596 | 144 | -25 | -4 | 918 | 12440 | 128 | -25 | 93 | 25 | 199 | -50 |
| 02- | 65.9194- | 163.6528- | 2- | 27- | | 0-403134 | 56358 | 120 | -25 | -4 | 2041 | 4542 | 131 | -25 | -25 | 14 | 199 | -50 |
| 02- | 65.8958- | 163.6833- | 2- | 27- | | 0-403135 | 142000 | 158 | -25 | -4 | 1373 | 24981 | 48 | -25 | 97 | 31 | 199 | 142 |
| 02- | 65.8786- | 163.7467- | 2- | 27- | | 0-403136 | 128000 | 171 | -25 | -4 | 3770 | 9312 | 287 | -25 | 73 | 29 | 199 | 68 |
| 02- | 65.8639- | 163.7500- | 2- | 27- | | 0-403137 | 55919 | 100 | -25 | -4 | 868 | 3469 | 88 | -25 | -25 | 6 | 199 | -50 |
| 02- | 65.8614- | 163.8311- | 2- | 27- | | 0-403138 | 19356 | 92 | -25 | -4 | 6550 | 3640 | 175 | -25 | 29 | 47 | 199 | -50 |
| 02- | 65.8017- | 163.8069- | 2- | 27- | | 0-403139 | 162000 | 170 | -25 | -4 | 1563 | 23023 | 138 | -25 | 48 | 35 | 199 | 113 |
| 02- | 65.7911- | 163.8583- | 2- | 27- | | 0-403140 | 81114 | 116 | -25 | -4 | 2334 | 7041 | 139 | -25 | 85 | 23 | 199 | 164 |
| 02- | 65.8514- | 163.6861- | 2- | 27- | | 0-403141 | 158000 | 193 | -25 | -4 | 972 | 24952 | 57 | -25 | 50 | 29 | 199 | 123 |
| 02- | 65.8194- | 163.6467- | 2- | 27- | | 0-403142 | 144000 | 159 | -25 | -4 | 1026 | 24735 | 58 | -25 | 45 | 29 | 199 | -50 |
| 02- | 65.7772- | 163.5144- | 2- | 27- | | 0-403143 | 25138 | 66 | -25 | -4 | 10223 | 16216 | 317 | -25 | -25 | 85 | 199 | -50 |
| 02- | 65.7606- | 163.6017- | 2- | 27- | | 0-403144 | 19532 | 91 | -25 | -4 | 1105 | 13240 | 35 | -25 | -25 | 25 | 199 | -50 |
| 02- | 65.8119- | 163.5967- | 2- | 27- | | 0-403145 | 180000 | 186 | -25 | -4 | 223 | 32378 | 7 | -25 | 26 | 20 | 199 | 107 |
| 02- | 65.7928- | 163.4083- | 2- | 27- | | 0-403146 | 113000 | 176 | -25 | -4 | 1431 | 19491 | 36 | -25 | -25 | 29 | 199 | -50 |
| 02- | 65.7881- | 163.3611- | 2- | 27- | | 0-403147 | 89877 | 158 | -25 | -4 | 274 | 15836 | 11 | -25 | -25 | 15 | 199 | -50 |
| 02- | 65.8389- | 163.4347- | 2- | 27- | | 0-403148 | 131000 | 122 | -25 | -4 | 564 | 25166 | 13 | -25 | -25 | 19 | 199 | -50 |
| 02- | 65.8356- | 163.5642- | 2- | 27- | | 0-403150 | 131000 | 138 | -25 | -4 | 1719 | 31996 | 27 | -25 | 59 | 21 | 199 | -50 |
| 02- | 65.9006- | 163.4714- | 2- | 27- | | 0-403151 | 93264 | 184 | -25 | -4 | 2309 | 13687 | 161 | -25 | 93 | 35 | 199 | 153 |
| 02- | 65.8833- | 163.5400- | 2- | 27- | | 0-403152 | 96318 | 193 | -25 | -4 | 777 | 14266 | 31 | -25 | 74 | 26 | 199 | 121 |
| 02- | 65.8058- | 164.6375- | 2- | 27- | | 0-403156 | 31333 | 110 | -25 | -4 | 132 | 4281 | 5 | 29 | 96 | 11 | 199 | -50 |
| 02- | 65.2950- | 164.3333- | 2- | 29- | | 0-403164 | 17878 | 74 | 57 | -4 | 151000 | 5715 | 1437 | 124 | 677 | 167 | 199 | -50 |
| 02- | 65.2931- | 164.2833- | 2- | 29- | | 0-403165 | 20089 | 38 | -25 | -4 | 1560 | 2259 | 759 | 53 | 69 | 23 | 199 | -50 |
| 02- | 65.2222- | 164.1847- | 2- | 29- | | 0-403166 | 9541 | 85 | -25 | -4 | 3631 | 2146 | 33 | 35 | -25 | 31 | 199 | -50 |
| 02- | 65.2061- | 164.2683- | 2- | 29- | | 0-403167 | 11301 | 90 | -25 | -4 | 429 | 1760 | 7 | 29 | -25 | 22 | 199 | 116 |
| 02- | 65.2742- | 164.1450- | 2- | 27- | | 0-403168 | 11485 | 97 | -25 | -4 | 412 | 1934 | 7 | 30 | -25 | 38 | 199 | 158 |
| 02- | 65.2528- | 164.1708- | 2- | 27- | | 0-403169 | 8683 | 57 | -25 | -4 | 2567 | 1677 | 42 | -25 | -25 | 116 | 199 | -50 |
| 02- | 65.3000- | 163.9906- | 2- | 27- | | 0-403170 | 8931 | 103 | -25 | -4 | 83 | 988 | -3 | -25 | -25 | 8 | 199 | -50 |
| 02- | 65.3414- | 164.0139- | 2- | 27- | | 0-403171 | 38159 | 127 | -25 | -4 | 307 | 4755 | 14 | -25 | 37 | 20 | 199 | -50 |
| 02- | 65.3261- | 163.9339- | 2- | 27- | | 0-403172 | 3873 | 114 | -25 | -4 | 1334 | 1445 | 67 | 36 | 69 | 42 | 199 | -50 |
| 02- | 65.3258- | 163.8667- | 2- | 27- | | 0-403173 | 3030 | 104 | -25 | -4 | 464 | 990 | 8 | 30 | -25 | 60 | 199 | -50 |
| 02- | 65.2928- | 163.8572- | 2- | 27- | | 0-403174 | 10788 | 90 | -25 | -4 | 337 | 2190 | 12 | -25 | -25 | 32 | 199 | -50 |

# APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb |
| 02- | 65.2772- | 163.7542- | 2- | 27- | 0- | 403175- | 08/02/76- | 16- | 15-11.8- | - - | | | 7.3- | 50- | 59-2-7-4-6-2-3-1-2-4-3- -2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.01 |
| 02- | 65.2333- | 163.7500- | 2- | 27- | 0- | 403176- | 08/02/76- | 16- | 16-10.5- | - - | | | 6.6- | 50- | 53-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.01 |
| 02- | 65.3194- | 163.4306- | 2- | 27- | 0- | 403201- | 08/02/76- | 17- | 16-11.7- | - - | | | 7.5- | 60- | 9-2-7-4-6-2-3-1-2-4-3- -2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.41 |
| 02- | 65.3125- | 163.5500- | 2- | 27- | 0- | 403203- | 08/02/76- | 18- | 14-12.3- | - - | | | 6.7- | 80- | 92-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.54 |
| 02- | 65.3108- | 163.7056- | 2- | 27- | 0- | 403204- | 08/02/76- | 18- | 14-10.2- | - - | | | 7.1- | 90- | 13-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 2.62 |
| 02- | 65.3358- | 163.6081- | 2- | 27- | 0- | 403205- | 08/02/76- | 18- | 14-10.9- | - - | | | 7.3- | 50- | 36-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.33 |
| 02- | 65.3744- | 163.4417- | 2- | 27- | 0- | 403206- | 08/02/76- | 19- | 14-12.7- | - - | | | 7.4- | 10- | 6-3-7-4-6-2-3-1-2-4-3-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.04 |
| 02- | 65.3239- | 163.2514- | 2- | 27- | 0- | 403210- | 08/02/76- | 19- | 13-11.6- | - - | | | 7.3- | 36- | 36-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.00 |
| 02- | 65.3772- | 163.0728- | 2- | 27- | 0- | 403229- | 08/02/76- | 21- | 15-11.3- | - - | | | 7.9- | 40- | 19-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.25 |
| 02- | 65.4125- | 163.0050- | 2- | 27- | 0- | 403230- | 08/02/76- | 21- | 14-10.5- | - - | | | 7.1- | 30- | 0-2-7-4-6-2-3-1-2-4-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.09 |
| 02- | 65.4100- | 162.8733- | 2- | 29- | 0- | 403231- | 08/02/76- | 21- | 15-13.2- | - - | | | 7.7- | 20- | -3-7-4-6- - - - -4-3-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.06 |
| 02- | 65.3375- | 162.9431- | 2- | 27- | 0- | 403265- | 08/04/76- | 9- | 10- 7.0- | - - | | | 7.4- | 10- | 53-3-7-4-6-3-2-1-2-5-3-4-3- | | | | | | | | | | | | | -1- | - | - | - | - | 0.14 |
| 02- | 65.6444- | 162.9653- | 2- | 29- | 0- | 406547- | 08/28/76- | 19- | 12-14.9- | -S- | | | 9.1- | 14- | -2-7-6-7- -3-5- -4-4-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6833- | 162.9228- | 2- | 29- | 0- | 406549- | 08/28/76- | 19- | 11-13.9- | -S- | | | 9.3- | 44- | -2-7-5-8- -3-2- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.01 |
| 02- | 65.7692- | 163.1486- | 2- | 27- | 0- | 406558- | 08/28/76- | 19- | 12-10.7- | - - | | | 7.7- | 224- | 25-2-7-4-6-3-2-1-1-4-4-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.32 |
| 02- | 65.7639- | 163.1250- | 2- | 27- | 0- | 406559- | 08/28/76- | 17- | 12-11.1- | - - | | | 8.2- | 191- | 9-2-7-3-6-3-2-1-1-3-4-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6667- | 163.0900- | 2- | 27- | 0- | 406561- | 08/28/76- | 19- | 12-10.0- | - - | | | 8.2- | 190- | 12-2-7-3-6-3-2-1-1-3-3-3-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.05 |
| 02- | 65.6819- | 163.0350- | 2- | 27- | 0- | 406562- | 08/28/76- | 19- | 12-10.7- | - - | | | 8.2- | 121- | 19-2-7-4-6-3-2-1-1-4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.04 |
| 02- | 65.6375- | 163.0567- | 2- | 27- | 0- | 406563- | 08/29/76- | 10- | 15- 9.7- | - - | | | 7.4- | 60- | 12-2-7-5-6-2-2-2-1-3-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.34 |
| 02- | 65.6300- | 163.0400- | 2- | 27- | 0- | 406564- | 08/29/76- | 10- | 15-10.2- | - - | | | 7.8- | 74- | 6-2-7-6-6-2-2-5-1-3-3-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.01 |
| 02- | 65.6011- | 162.9642- | 2- | 27- | 0- | 406565- | 08/29/76- | 10- | 15-10.0- | - - | | | 7.9- | 60- | 6-2-7-5-6-2-2-2-1-3-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 3.54 |
| 02- | 65.5772- | 162.9267- | 2- | 27- | 0- | 406566- | 08/29/76- | 10- | 15-10.4- | - - | | | 7.7- | 111- | 6-2-7-6-6-2-2-2-1-3-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.92 |
| 02- | 65.5594- | 163.0017- | 2- | 27- | 0- | 406567- | 08/29/76- | 10- | 15- 9.7- | - - | | | 7.4- | 54- | 45-2-7-5-6-2-2-2-1-3-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 1.21 |
| 02- | 65.5389- | 162.9633- | 2- | 27- | 0- | 406568- | 08/29/76- | 10- | 15-10.2- | - - | | | 8.0- | 62- | 19-2-7-5-6-2-2-2-1-3-3-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 2.97 |
| 02- | 65.5142- | 162.9761- | 2- | 29- | 0- | 406569- | 08/29/76- | 10- | 15-12.0- | -S- | | | 8.3- | 13- | -2-7-5-6- -2-4- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 8.43 |
| 02- | 65.5089- | 163.0139- | 2- | 29- | 0- | 406570- | 08/29/76- | 10- | 15-12.2- | -S- | | | 7.9- | 24- | -2-7-6-6- -2-4- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 5.16 |
| 02- | 65.5092- | 163.0408- | 2- | 29- | 0- | 406571- | 08/29/76- | 10- | 15-12.4- | -S- | | | 8.2- | 12- | -2-7-5-6- -2-2- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 6.13 |
| 02- | 65.4842- | 163.2067- | 2- | 29- | 0- | 406573- | 08/29/76- | 11- | 15-13.4- | -S- | | | 8.0- | 52- | -2-7-5-6- -3-2- -3-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.08 |
| 02- | 65.4533- | 163.1833- | 2- | 29- | 0- | 406574- | 08/29/76- | 11- | 15-13.7- | -S- | | | 8.1- | 74- | -2-7-6-6- -3-2- -3-3-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.05 |
| 02- | 65.4667- | 163.0467- | 2- | 29- | 0- | 406575- | 08/29/76- | 11- | 15-12.9- | -S- | | | 7.7- | 42- | -2-7-6-6- -3-2- -3-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.10 |
| 02- | 65.4767- | 163.0603- | 2- | 29- | 0- | 406576- | 08/29/76- | 11- | 15-13.8- | -S- | | | 8.2- | 88- | -2-7-5-6- -3-2- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.17 |
| 02- | 65.4403- | 162.9767- | 2- | 29- | 0- | 406577- | 08/29/76- | 11- | 15-12.1- | -S- | | | 8.2- | 46- | -2-7-6-6- -3-2- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.04 |
| 02- | 65.4425- | 162.9583- | 2- | 29- | 0- | 406578- | 08/29/76- | 11- | 15-12.4- | -S- | | | 8.0- | 64- | -2-7-6-6- -3-2- -4-4-2-2- | | | | | | | | | | | | | -1- | - | - | - | - | 0.11 |

## APPENDIX I-A (continued). Elemental Concentrations for Water Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB SAMPLE LOCATION NUMBER | Concentrations reported in weight parts per billion (ppb) | | | | | | | | | | | |
| | | | | | | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 65.2772- | 163.7542- | 2- | 27- | | 0-403175 | 23862 | 117 | -25 | -4 | 325 | 4932 | 17 | -25 | -25 | 7 | 199 | -50 |
| 02- | 65.2333- | 163.7500- | 2- | 27- | | 0-403176 | 10859 | 119 | -25 | -4 | 166 | 1959 | 6 | -25 | -25 | 19 | 199 | -50 |
| 02- | 65.3194- | 163.4306- | 2- | 27- | | 0-403201 | 35535 | 105 | -25 | -4 | 45 | 6124 | -3 | -25 | -25 | 5 | 199 | -50 |
| 02- | 65.3125- | 163.5500- | 2- | 27- | | 0-403203 | 36332 | 112 | -25 | -4 | 41 | 6460 | -3 | 50 | 35 | 7 | 199 | -50 |
| 02- | 65.3108- | 163.7056- | 2- | 27- | | 0-403204 | 29163 | 96 | -25 | -4 | 28 | 8927 | -3 | 35 | -25 | 5 | 199 | -50 |
| 02- | 65.3358- | 163.6081- | 2- | 27- | | 0-403205 | 37960 | 130 | -25 | -4 | 37 | 7716 | -3 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.3744- | 163.4417- | 2- | 27- | | 0-403206 | 2904 | 81 | -25 | -4 | 30 | 3260 | -3 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.3239- | 163.2514- | 2- | 27- | | 0-403210 | 32640 | 144 | -25 | -4 | 1001 | 5258 | 28 | -25 | -25 | 93 | 199 | -50 |
| 02- | 65.3772- | 163.0728- | 2- | 27- | | 0-403229 | 23325 | 109 | -25 | -4 | 1008 | 2322 | 29 | -25 | -25 | 33 | 199 | -50 |
| 02- | 65.4125- | 163.0050- | 2- | 27- | | 0-403230 | 22264 | 113 | -25 | -4 | 296 | 2105 | 20 | -25 | -25 | 3 | 199 | -50 |
| 02- | 65.4100- | 162.8733- | 2- | 29- | | 0-403231 | 2954 | 89 | -25 | -4 | 3756 | 2852 | 120 | -25 | -25 | 7 | 199 | -50 |
| 02- | 65.3375- | 162.9431- | 2- | 27- | | 0-403265 | 6121 | 57 | -25 | -4 | 1247 | 907 | 15 | -25 | -25 | 44 | 199 | -50 |
| 02- | 65.6444- | 162.9653- | 2- | 29- | | 0-406547 | 6171 | -55 | -25 | -4 | 1173 | 861 | 45 | -25 | -25 | 7 | 199 | -50 |
| 02- | 65.6833- | 162.9228- | 2- | 29- | | 0-406549 | 9704 | 90 | -25 | -4 | 3236 | 1446 | 100 | -25 | -25 | 13 | 199 | -50 |
| 02- | 65.7692- | 163.1486- | 2- | 27- | | 0-406558 | 41012 | 118 | -25 | -4 | 1041 | 15313 | 40 | -25 | -25 | 15 | 199 | -50 |
| 02- | 65.7639- | 163.1250- | 2- | 27- | | 0-406559 | 8263 | -55 | -25 | -4 | 5962 | 8685 | 132 | -25 | -25 | 33 | 199 | -50 |
| 02- | 65.6667- | 163.0900- | 2- | 27- | | 0-406561 | 11258 | -55 | -25 | -4 | 6110 | 10748 | 61 | -25 | -25 | 12 | 199 | -50 |
| 02- | 65.6819- | 163.0350- | 2- | 27- | | 0-406562 | 10671 | -55 | -25 | -4 | 15139 | 6241 | 372 | -25 | -25 | 70 | 199 | 118 |
| 02- | 65.6375- | 163.0567- | 2- | 27- | | 0-406563 | 6741 | -55 | -25 | -4 | 10747 | 4053 | 258 | -25 | -25 | 40 | 199 | -50 |
| 02- | 65.6300- | 163.0400- | 2- | 27- | | 0-406564 | 8346 | -55 | -25 | -4 | 12220 | 5039 | 332 | -25 | -25 | 29 | 199 | -50 |
| 02- | 65.6011- | 162.9642- | 2- | 27- | | 0-406565 | 26396 | 145 | 121 | -4 | 125000 | 27428 | 3768 | -25 | 758 | 1083 | 199 | 303 |
| 02- | 65.5772- | 162.9267- | 2- | 27- | | 0-406566 | 20848 | 107 | 77 | -4 | 101000 | 21555 | 3184 | -25 | 587 | 579 | 199 | 318 |
| 02- | 65.5594- | 163.0017- | 2- | 27- | | 0-406567 | 17897 | 145 | 32 | -4 | 73108 | 17372 | 2556 | -25 | 365 | 239 | 199 | 214 |
| 02- | 65.5389- | 162.9633- | 2- | 27- | | 0-406568 | 30372 | 120 | 132 | -4 | 135000 | 29959 | 4455 | -25 | 880 | 394 | 199 | 489 |
| 02- | 65.5142- | 162.9761- | 2- | 29- | | 0-406569 | 44556 | 225 | 306 | -4 | 276000 | 53799 | 5389 | 72 | 1671 | 281 | 199 | 1722 |
| 02- | 65.5069- | 163.0139- | 2- | 29- | | 0-406570 | 20315 | 117 | 118 | -4 | 137000 | 25537 | 2293 | -25 | 706 | 747 | 199 | 823 |
| 02- | 65.5092- | 163.0408- | 2- | 29- | | 0-406571 | 32215 | 154 | 219 | -4 | 208000 | 39358 | 3837 | 45 | 1195 | 503 | 199 | 1163 |
| 02- | 65.4842- | 163.2067- | 2- | 29- | | 0-406573 | 5160 | -55 | -25 | -4 | 26439 | 6002 | 381 | -25 | -25 | 370 | 199 | 129 |
| 02- | 65.4533- | 163.1833- | 2- | 29- | | 0-406574 | 14632 | -55 | -25 | -4 | 1565 | 5118 | 85 | -25 | -25 | 51 | 199 | -50 |
| 02- | 65.4667- | 163.0467- | 2- | 29- | | 0-406575 | 6968 | -55 | -25 | -4 | 5170 | 7170 | 303 | -25 | -25 | 177 | 199 | -50 |
| 02- | 65.4767- | 163.0603- | 2- | 29- | | 0-406576 | 6991 | -55 | -25 | -4 | 5304 | 7385 | 325 | -25 | -25 | 160 | 199 | 80 |
| 02- | 65.4403- | 162.9767- | 2- | 29- | | 0-406577 | 8469 | -55 | -25 | -4 | 5379 | 8144 | 426 | -25 | 57 | 141 | 199 | 83 |
| 02- | 65.4425- | 162.9583- | 2- | 29- | | 0-406578 | 4159 | 123 | -25 | -4 | 111 | 3003 | 8 | 75 | 117 | 9 | 199 | -50 |

APPENDIX I-B

CHUKCHI IMURUK

FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SEDIMENTS ANALYZED FOR URANIUM BY DELAYED-NEUTRON COUNTING AND FOR FORTY-TWO ADDITIONAL ELEMENTS BY X-RAY FLUORESCENCE, ARC-SOURCE EMISSION SPECTROGRAPHY, AND NEUTRON ACTIVATION

(Pages 34 through 69)

Note that four pages, numbered 1 through 4 in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

1 - Lists field data and uranium concentrations determined by delayed-neutron counting.
2 - Lists concentrations of 11 elements determined by x-ray fluorescence and arc-source emission spectrography.
3 and 4 - List concentrations of 31 elements determined by neutron activation analysis and computed U/Th ratios.

(See Appendix IV for Procedures and Codes to Listings)

# APPENDIX I-B Elemental Concentrations for Sediment Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 65.4500- | 164.5667-2-12- | | | | 0-402086- | 07/13/76- | 7- | 16- | 12.5- | - | - | 7.2- | 150- | | 6- | 1- | 7- | 4- | 4- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 65.8903- | 166.9611-2-13- | | | | 0-402420- | 07/21/76- | 12- | 18- | 15.3- | - | S- | 7.9- | 45- | | -2- | 7- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.9000- | 166.8556-2-13- | | | | 0-402421- | 07/21/76- | 12- | 18- | 16.3- | - | S- | 7.9- | 141- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 65.9458- | 166.8889-2-13- | | | | 0-402422- | 07/21/76- | 18- | 15- | 14.9- | C- | S- | 8.3- | 25- | | -7- | 2- | 6- | 6- | -3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.9722- | 166.9333-2-13- | | | | 0-402423- | 07/21/76- | 18- | 15- | 15.8- | - | S- | 7.4- | 39- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.00 |
| 02- | 65.9667- | 166.8667-2-13- | | | | 0-402424- | 07/21/76- | 18- | 16- | 14.9- | - | S- | 7.2- | 25- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.9544- | 166.8458-2-13- | | | | 0-402425- | 07/21/76- | 18- | 16- | 15.1- | - | S- | 7.1- | 35- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.8889- | 166.7264-2-13- | | | | 0-402433- | 07/21/76- | 19- | 19- | 15.8- | - | S- | 8.2- | 106- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.9308- | 166.7222-2-13- | | | | 0-402434- | 07/21/76- | 19- | 18- | 14.9- | - | S- | 8.3- | 29- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 65.9722- | 166.7083-2-13- | | | | 0-402435- | 07/21/76- | 19- | 15- | 15.2- | - | S- | 8.0- | 33- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 65.9736- | 166.6194-2-13- | | | | 0-402436- | 07/21/76- | 19- | | 14.5- | - | S- | 7.6- | 24- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 65.9889- | 166.5028-2-13- | | | | 0-402437- | 07/21/76- | 19- | 18- | 16.0- | - | S- | 7.4- | 91- | | -7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.9833- | 166.4347-2-12- | | | | 0-402438- | 07/21/76- | 19- | 15- | 16.0- | - | - | 7.6- | 80- | | 9- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.9778- | 166.2222-2-12- | | | | 0-402440- | 07/21/76- | 19- | 15- | 14.0- | - | - | 7.8- | 240- | | 0- | 7- | 2- | 5- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 65.8861- | 166.6042-2-12- | | | | 0-402445- | 07/22/76- | 9- | 17- | 10.7- | - | - | 7.0- | 480- | | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 3.30 |
| 02- | 65.9653- | 166.0111-2-12- | | | | 0-402494- | 07/22/76- | 14- | 16- | 11.9- | - | - | 8.0- | 550- | | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.90 |
| 02- | 65.9833- | 166.0542-2-12- | | | | 0-402495- | 07/22/76- | 14- | 17- | 11.2- | - | - | 7.9- | 600- | | 13- | 2- | 3- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.20 |
| 02- | 65.9778- | 165.8708-2-12- | | | | 0-402496- | 07/22/76- | 14- | 17- | 16.0- | - | - | 7.0- | 132- | | 0- | 2- | 7- | 6- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 5.70 |
| 02- | 65.9611- | 165.7667-2-12- | | | | 0-402521- | 07/22/76- | 16- | 19- | 10.6- | - | - | 7.6- | 470- | | 19- | 2- | 3- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 65.9742- | 165.6847-2-12- | | | | 0-402522- | 07/22/76- | 17- | 15- | 12.9- | - | - | 7.8- | 95- | | -2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 2.80 |
| 02- | 65.9847- | 165.5806-2-12- | | | | 0-402523- | 07/22/76- | 17- | 19- | 14.6- | - | - | 6.8- | 125- | | 23- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 65.9694- | 165.4583-2-13- | | | | 0-402524- | 07/22/76- | 18- | 15- | 16.2- | - | - | 8.1- | 180- | | 9- | 7- | 2- | 6- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.20 |
| 02- | 65.8153- | 164.8139-2-12- | | | | 0-402572- | 07/26/76- | 17- | 19- | 11.3- | - | - | 7.6- | 180- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 3.50 |
| 02- | 65.8292- | 164.7958-2-12- | | | | 0-402573- | 07/26/76- | 17- | 19- | 10.0- | - | - | 7.8- | 200- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 3.50 |
| 02- | 65.9703- | 165.2800-2-12- | | | | 0-402586- | 07/26/76- | 19- | 18- | 11.1- | - | - | 6.8- | 560- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 2.50 |
| 02- | 65.9756- | 165.3108-2-13- | | | | 0-402587- | 07/26/76- | 19- | 19- | 17.6- | - | - | 8.5- | 179- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.1400- | 165.2817-2-13- | | | | 0-402599- | 07/26/76- | 20- | 17- | 13.0- | - | - | 7.4- | - | | 6- | 2- | 7- | 4- | 6- | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | - | 2.70 |
| 02- | 66.1117- | 165.2333-2-13- | | | | 0-402600- | 07/26/76- | 20- | 17- | 17.7- | - | S- | 8.6- | 44- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | - | 3.30 |
| 02- | 66.0692- | 165.1831-2-13- | | | | 0-402601- | 07/26/76- | 20- | 18- | 14.3- | - | - | 7.2- | 220- | | 13- | 2- | 7- | 4- | 6- | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | - | 2.30 |
| 02- | 66.0792- | 165.1700-2-12- | | | | 0-402602- | 07/26/76- | 20- | 17- | 11.0- | - | - | 7.0- | 310- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 5.10 |
| 02- | 66.0264- | 165.0625-2-13- | | | | 0-402603- | 07/26/76- | 20- | 17- | 17.3- | - | S- | 8.2- | 27- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | -1- | - | - | - | - | - | 2.80 |
| 02- | 65.9817- | 164.9028-2-12- | | | | 0-402604- | 07/26/76- | 20- | 18- | 11.2- | - | - | 7.1- | 850- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 17.10 |
| 02- | 65.9347- | 164.8500-2-12- | | | | 0-402605- | 07/26/76- | 20- | 17- | 12.1- | - | - | 7.4- | 130- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 3.70 |
| 02- | 66.0733- | 166.5717-2-12- | | | | 0-402632- | 07/26/76- | 23- | 11- | 8.0- | - | - | 7.6- | 10- | | -2- | 7- | 4- | 6- | 2- | 3- | 2- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.80 |
| 02- | 66.0500- | 166.6667-2-12- | | | | 0-402633- | 07/26/76- | 24- | 10- | 7.6- | - | - | 7.6- | 195- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.0283- | 166.6486-2-12- | | | | 0-402634- | 07/26/76- | 24- | 10- | 8.0- | - | - | 7.8- | 10- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.40 |
| 02- | 66.0361- | 166.7189-2-13- | | | | 0-402635- | 07/26/76- | 24- | 10- | 9.2- | - | - | 10.2- | - | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 1.90 |
| 02- | 66.0267- | 166.7278-2-12- | | | | 0-402636- | 07/26/76- | 24- | 10- | 8.2- | - | - | 7.8- | - | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.0100- | 166.6044-2-12- | | | | 0-402637- | 07/26/76- | 24- | 10- | 8.6- | - | - | 8.2- | 3100- | | 13- | 2- | 7- | 4- | 6- | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.20 |
| 02- | 66.0067- | 166.5450-2-13- | | | | 0-402638- | 07/26/76- | 24- | 10- | 8.2- | - | - | 10.2- | 310- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.50 |
| 02- | 66.0267- | 166.5333-2-13- | | | | 0-402639- | 07/26/76- | 24- | 10- | 11.7- | - | S- | 7.2- | 60- | | -2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.30 |
| 02- | 66.0400- | 166.5333-2-12- | | | | 0-402640- | 07/26/76- | 24- | 10- | 8.2- | - | - | 7.8- | 340- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.0400- | 166.3900-2-13- | | | | 0-402643- | 07/26/76- | 24- | 10- | 6.4- | - | - | 7.8- | 95- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.0283- | 166.3250-2-13- | | | | 0-402644- | 07/26/76- | 24- | 10- | 6.8- | - | - | 7.6- | 200- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.0403- | 166.2306-2-12- | | | | 0-402647- | 07/26/76- | 1- | 9- | 6.4- | - | - | 7.8- | 420- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.0319- | 166.1783-2-12- | | | | 0-402648- | 07/26/76- | 1- | 9- | 6.8- | - | - | 8.2- | 409- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 4.10 |
| 02- | 66.0350- | 166.0706-2-12- | | | | 0-402649- | 07/26/76- | 1- | 9- | 7.0- | - | - | 7.6- | 500- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.9694- | 165.0333-2-12- | | | | 0-402651- | 07/27/76- | 16- | 19- | 13.1- | - | - | 7.6- | 60- | | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.9792- | 165.1278-2-13- | | | | 0-402653- | 07/27/76- | 16- | 22- | 17.8- | - | - | 8.4- | 58- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.0306- | 165.1461-2-13- | | | | 0-402654- | 07/27/76- | 16- | 22- | 17.8- | - | S- | 8.3- | 28- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 2.80 |
| 02- | 66.0139- | 165.1950-2-13- | | | | 0-402655- | 07/27/76- | 16- | 21- | 17.1- | - | S- | 7.9- | 68- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | -1- | - | - | - | - | - | 2.60 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LABS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 65.4500- | 164.5667- | 2- | 12- | | 0-402086 | -5 | -5 | -5 | 33 | -20 | 53 | 15 | -10 | -15 | 2 | 26 |
| 02- | 65.8903- | 166.9611- | 2- | 13- | | 0-402420 | -5 | -5 | -5 | 30 | 34 | 19 | -5 | -10 | -15 | -1 | 15 |
| 02- | 65.9000- | 166.8556- | 2- | 13- | | 0-402421 | -5 | -5 | -5 | 18 | -20 | 22 | -5 | -10 | -15 | 2 | 72 |
| 02- | 65.9456- | 166.8889- | 2- | 13- | | 0-402422 | -5 | -5 | -5 | 28 | -20 | 33 | -5 | -10 | -15 | -1 | 13 |
| 02- | 65.9722- | 166.9333- | 2- | 13- | | 0-402423 | -5 | -5 | -5 | 16 | -20 | -15 | -5 | -10 | -15 | -1 | 11 |
| 02- | 65.9667- | 166.8667- | 2- | 13- | | 0-402424 | -5 | -5 | -5 | 32 | -20 | 29 | 6 | -10 | -15 | 2 | 30 |
| 02- | 65.9544- | 166.8456- | 2- | 13- | | 0-402425 | -5 | -5 | -5 | 15 | -20 | 28 | 9 | -10 | -15 | 2 | 23 |
| 02- | 65.8889- | 166.7264- | 2- | 13- | | 0-402433 | -5 | -5 | -5 | 25 | -20 | 26 | -5 | -10 | -15 | 2 | 19 |
| 02- | 65.9306- | 166.7222- | 2- | 13- | | 0-402434 | -5 | -5 | -5 | 18 | -20 | 26 | -5 | -10 | -15 | 1 | 18 |
| 02- | 65.9722- | 166.7083- | 2- | 13- | | 0-402435 | -5 | -5 | -5 | 18 | -20 | 27 | -5 | -10 | -15 | 2 | 27 |
| 02- | 65.9736- | 166.6194- | 2- | 13- | | 0-402436 | -5 | 5 | -5 | 27 | 30 | 49 | -5 | -10 | -15 | 2 | 23 |
| 02- | 65.9889- | 166.5028- | 2- | 13- | | 0-402437 | -5 | -5 | -5 | 29 | -20 | 34 | -5 | -10 | -15 | -1 | 18 |
| 02- | 65.9833- | 166.4347- | 2- | 12- | | 0-402438 | -5 | -5 | -5 | 16 | -20 | 29 | -5 | -10 | -15 | 2 | 30 |
| 02- | 65.9778- | 166.2222- | 2- | 12- | | 0-402440 | -5 | -5 | -5 | 27 | 20 | 22 | -5 | -10 | -15 | 1 | 38 |
| 02- | 65.8861- | 166.6042- | 2- | 12- | | 0-402445 | -5 | -5 | -5 | 14 | -20 | 27 | 5 | 22 | -15 | 2 | 40 |
| 02- | 65.9653- | 166.0111- | 2- | 12- | | 0-402494 | -5 | -5 | -5 | 18 | -20 | 32 | -5 | -10 | -15 | 2 | 63 |
| 02- | 65.9833- | 166.0542- | 2- | 12- | | 0-402495 | -5 | -5 | -5 | 27 | -20 | 23 | 8 | -10 | -15 | 2 | 40 |
| 02- | 65.9778- | 165.8708- | 2- | 12- | | 0-402496 | -5 | 5 | -5 | -10 | -20 | 26 | 12 | -10 | -15 | 3 | 35 |
| 02- | 65.9611- | 165.7667- | 2- | 12- | | 0-402521 | -5 | -5 | -5 | 29 | -20 | 39 | -5 | -10 | 18 | 2 | 39 |
| 02- | 65.9742- | 165.6847- | 2- | 12- | | 0-402522 | -5 | -5 | -5 | 16 | -20 | 49 | 8 | -10 | -15 | 2 | 29 |
| 02- | 65.9847- | 165.5806- | 2- | 12- | | 0-402523 | -5 | -5 | -5 | 11 | -20 | 42 | -5 | -10 | -15 | 2 | 36 |
| 02- | 65.9694- | 165.4583- | 2- | 13- | | 0-402524 | -5 | -5 | -5 | 26 | -20 | 43 | -5 | -10 | 18 | 2 | 70 |
| 02- | 65.8153- | 164.8139- | 2- | 12- | | 0-402572 | -5 | -5 | -5 | 21 | -20 | 35 | 6 | -10 | -15 | 2 | 30 |
| 02- | 65.8292- | 164.7958- | 2- | 12- | | 0-402573 | -5 | -5 | -5 | 19 | 45 | 50 | -5 | -10 | -15 | 3 | 35 |
| 02- | 65.9703- | 165.2800- | 2- | 12- | | 0-402586 | -5 | -5 | -5 | 27 | -20 | 34 | -5 | -10 | -15 | 2 | 25 |
| 02- | 65.9756- | 165.3108- | 2- | 13- | | 0-402587 | -5 | -5 | -5 | 29 | -20 | 43 | -5 | -10 | -15 | 2 | 34 |
| 02- | 66.1400- | 165.2817- | 2- | 13- | | 0-402599 | -5 | -5 | -5 | 26 | -20 | 38 | -5 | -10 | -15 | 2 | 44 |
| 02- | 66.1117- | 165.2333- | 2- | 13- | | 0-402600 | -5 | -5 | -5 | 37 | -20 | 27 | -5 | -10 | -15 | 2 | 37 |
| 02- | 66.0692- | 165.1831- | 2- | 13- | | 0-402601 | | | | | | | | | | 1 | 22 |
| 02- | 66.0792- | 165.1700- | 2- | 12- | | 0-402602 | -5 | -5 | -5 | 14 | -20 | 37 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.0264- | 165.0625- | 2- | 13- | | 0-402603 | -5 | -5 | -5 | 22 | 33 | 39 | -5 | -10 | -15 | 1 | 19 |
| 02- | 65.9817- | 164.9028- | 2- | 12- | | 0-402604 | -5 | -5 | -5 | 22 | 56 | 21 | 18 | 75 | 65 | 5 | 90 |
| 02- | 65.9347- | 164.8500- | 2- | 12- | | 0-402605 | | | | | | | | | | 1 | 24 |
| 02- | 66.0733- | 166.5717- | 2- | 12- | | 0-402632 | | | | | | | | | | 1 | 11 |
| 02- | 66.0500- | 166.6667- | 2- | 12- | | 0-402633 | -5 | -5 | -5 | 23 | -20 | 16 | 5 | -10 | -15 | 1 | 20 |
| 02- | 66.0283- | 166.6486- | 2- | 12- | | 0-402634 | -5 | -5 | -5 | 23 | -20 | 28 | 5 | -10 | -15 | -1 | 26 |
| 02- | 66.0361- | 166.7189- | 2- | 13- | | 0-402635 | -5 | -5 | -5 | 15 | -20 | 21 | -5 | -10 | -15 | 1 | 15 |
| 02- | 66.0267- | 166.7278- | 2- | 12- | | 0-402636 | -5 | -5 | -5 | 16 | -20 | 19 | 5 | -10 | -15 | 2 | 29 |
| 02- | 66.0100- | 166.6044- | 2- | 12- | | 0-402637 | -5 | -5 | -5 | -10 | 22 | 32 | -5 | -10 | -15 | 1 | 26 |
| 02- | 66.0067- | 166.5450- | 2- | 13- | | 0-402638 | | | | | | | | | | -1 | 3 |
| 02- | 66.0267- | 166.5333- | 2- | 13- | | 0-402639 | | | | | | | | | | 1 | 13 |
| 02- | 66.0400- | 166.5333- | 2- | 12- | | 0-402640 | -5 | -5 | -5 | 25 | 22 | 34 | -5 | -10 | -15 | 2 | 43 |
| 02- | 66.0400- | 166.3900- | 2- | 13- | | 0-402643 | -5 | 6 | -5 | 17 | -20 | 41 | -5 | -10 | -15 | 3 | 38 |
| 02- | 66.0283- | 166.3250- | 2- | 13- | | 0-402644 | | | | | | | | | | -1 | 14 |
| 02- | 66.0403- | 166.2306- | 2- | 12- | | 0-402647 | | | | | | | | | | 1 | 16 |
| 02- | 66.0319- | 166.1783- | 2- | 12- | | 0-402648 | -5 | -5 | -5 | 32 | 22 | 48 | -5 | -10 | -15 | 4 | 38 |
| 02- | 66.0350- | 166.0706- | 2- | 12- | | 0-402649 | -5 | -5 | -5 | 18 | -20 | 29 | -5 | -10 | -15 | 2 | 38 |
| 02- | 65.9694- | 165.0333- | 2- | 12- | | 0-402651 | -5 | -5 | -5 | 16 | -20 | 23 | -5 | -10 | -15 | 2 | 29 |
| 02- | 65.9792- | 165.1278- | 2- | 13- | | 0-402653 | -5 | -5 | -5 | 25 | 25 | 36 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.0306- | 165.1461- | 2- | 13- | | 0-402654 | -5 | -5 | -5 | 29 | 41 | 48 | -5 | -10 | -15 | 2 | 33 |
| 02- | 66.0139- | 165.1950- | 2- | 13- | | 0-402655 | -5 | -5 | -5 | 23 | -20 | 37 | 5 | -10 | -15 | 2 | 22 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 65.4500- | 164.5667-2-12- | | | | 0-402086 | 82950 | -0.10 | 639 | 13640 | 86 | 201 | 23.8 | 104 | 4.7 | 6 | 1.6 | 35050 | 6.8 | 15560 | 51 | 0.5 |
| 02- | 65.8903- | 166.9611-2-13- | | | | 0-402420 | 58500 | -0.11 | 618 | 7921 | 51 | -101 | 11.1 | 81 | -2.2 | 5 | 1.1 | 19480 | 5.0 | 12930 | 29 | 0.4 |
| 02- | 65.9000- | 166.8556-2-13- | | | | 0-402421 | 74510 | -0.08 | -135 | 3561 | 105 | -80 | 18.6 | 110 | 8.1 | 6 | 2.1 | 35490 | 8.7 | 17680 | 52 | 0.5 |
| 02- | 65.9458- | 166.8889-2-13- | | | | 0-402422 | 47860 | -0.10 | 743 | 6277 | 69 | 288 | 14.8 | 86 | 4.4 | 6 | 1.2 | 25090 | 5.1 | 12170 | 30 | 0.3 |
| 02- | 65.9722- | 166.9333-2-13- | | | | 0-402423 | 30240 | 0.15 | 379 | 9955 | 62 | 285 | 10.1 | 159 | 2.6 | 4 | 1.2 | 14620 | 7.9 | 6168 | 30 | 0.4 |
| 02- | 65.9667- | 166.8667-2-13- | | | | 0-402424 | 43620 | -0.09 | 639 | 11920 | 63 | -102 | 13.1 | 99 | 3.2 | 4 | 1.2 | 21990 | 5.4 | 13450 | 33 | 0.4 |
| 02- | 65.9544- | 166.8458-2-13- | | | | 0-402425 | 39680 | -0.07 | 597 | 15550 | 82 | -86 | 17.7 | 111 | 3.5 | 5 | 1.5 | 25090 | 9.0 | 8807 | 42 | 0.5 |
| 02- | 65.8869- | 166.7264-2-13- | | | | 0-402433 | 48280 | -0.09 | 833 | 10130 | 61 | 319 | 13.9 | 98 | 4.2 | 5 | 1.4 | 22230 | 5.0 | 12240 | 32 | 0.6 |
| 02- | 65.9308- | 166.7222-2-13- | | | | 0-402434 | 35610 | -0.09 | 361 | 37270 | 87 | 326 | 17.6 | 104 | 4.8 | 5 | 1.4 | 34510 | 7.2 | 11400 | 37 | 0.5 |
| 02- | 65.9722- | 166.7083-2-13- | | | | 0-402435 | 34780 | -0.08 | 270 | 62970 | 69 | -84 | 11.3 | 73 | 4.4 | 4 | 1.2 | 20700 | 6.1 | 10480 | 35 | 0.4 |
| 02- | 65.9736- | 166.6194-2-13- | | | | 0-402436 | 40960 | -0.08 | 571 | 8444 | 73 | -93 | 14.6 | 101 | 3.5 | 6 | 1.5 | 21150 | 6.9 | 9700 | 38 | 0.6 |
| 02- | 65.9869- | 166.5028-2-13- | | | | 0-402437 | 46770 | -0.09 | 708 | 10020 | 62 | 220 | 14.0 | 89 | 4.1 | 5 | 1.2 | 24110 | 4.5 | 14910 | 36 | 0.5 |
| 02- | 65.9833- | 166.4347-2-12- | | | | 0-402438 | 40940 | -0.08 | 592 | 10060 | 89 | -95 | 13.5 | 141 | 5.0 | 5 | 1.6 | 22540 | 8.5 | 10310 | 36 | 0.6 |
| 02- | 65.9778- | 166.2222-2-12- | | | | 0-402440 | 49220 | -0.12 | 766 | 7935 | 50 | -119 | 17.3 | 112 | 4.6 | 6 | 1.3 | 24300 | 4.8 | 11530 | 29 | 0.5 |
| 02- | 65.8861- | 166.6042-2-12- | | | | 0-402445 | 41030 | -0.08 | 507 | 14730 | 90 | -96 | 16.0 | 121 | 17.3 | 5 | 1.3 | 24160 | 9.1 | 10260 | 45 | 0.6 |
| 02- | 65.9653- | 166.0111-2-12- | | | | 0-402494 | 38050 | -0.06 | 446 | 27220 | 48 | 113 | 10.0 | 76 | 11.9 | 4 | 0.9 | 18630 | 4.6 | 11040 | 29 | 0.3 |
| 02- | 65.9833- | 166.0542-2-12- | | | | 0-402495 | 44500 | -0.08 | 523 | 12850 | 90 | 107 | 16.2 | 128 | 4.9 | 6 | 1.6 | 27510 | 8.0 | 11040 | 37 | 0.6 |
| 02- | 65.9778- | 165.8708-2-12- | | | | 0-402496 | 50140 | -0.12 | -269 | 18610 | 123 | 318 | 12.2 | 74 | 4.6 | 8 | 1.5 | 30470 | 14.4 | 17190 | 61 | 0.7 |
| 02- | 65.9611- | 165.7667-2-12- | | | | 0-402521 | 42340 | -0.09 | 538 | 22900 | 76 | 272 | 18.5 | 132 | 19.2 | 6 | 1.5 | 28560 | 7.9 | 12530 | 39 | 0.6 |
| 02- | 65.9742- | 165.6847-2-12- | | | | 0-402522 | 40060 | -0.07 | 537 | 9942 | 78 | -88 | 11.3 | 123 | 2.1 | 7 | 1.4 | 19260 | 9.5 | 10050 | 45 | 0.5 |
| 02- | 65.9847- | 165.5806-2-12- | | | | 0-402523 | 41550 | -0.09 | 512 | 7410 | 106 | -101 | 18.6 | 155 | 4.0 | 7 | 1.8 | 26210 | 11.6 | 9176 | 52 | 0.6 |
| 02- | 65.9694- | 165.4583-2-13- | | | | 0-402524 | 42120 | -0.16 | 450 | 9957 | 54 | 802 | 13.7 | 90 | 150.7 | 5 | 1.3 | 21280 | 5.3 | 11440 | | 0.5 |
| 02- | 65.8153- | 164.8139-2-12- | | | | 0-402572 | 44040 | -0.08 | 530 | 5364 | 116 | -98 | 20.3 | 113 | 3.9 | 8 | 1.7 | 31470 | 11.2 | 12510 | 57 | 0.8 |
| 02- | 65.8292- | 164.7958-2-12- | | | | 0-402573 | 52920 | -0.10 | 719 | 6299 | 84 | 128 | 18.3 | 96 | 3.9 | 6 | 1.5 | 31890 | 7.3 | 14460 | 38 | 0.6 |
| 02- | 65.9703- | 165.2800-2-12- | | | | 0-402586 | 39800 | -0.10 | 451 | 7771 | 105 | 144 | 22.2 | 168 | 4.6 | 6 | 1.8 | 28620 | 10.6 | 11320 | 43 | 0.9 |
| 02- | 65.9756- | 165.3108-2-13- | | | | 0-402587 | 44610 | -0.11 | 657 | 12010 | 66 | 142 | 13.7 | 102 | 3.6 | 4 | 1.3 | 23620 | 6.2 | 13950 | | 0.5 |
| 02- | 66.1400- | 165.2817-2-13- | | | | 0-402599 | 46140 | -0.10 | 673 | 6680 | 78 | 5165 | 16.1 | 116 | 10.0 | 5 | 1.5 | 28880 | 6.8 | 13990 | 35 | 0.7 |
| 02- | 66.1117- | 165.2333-2-13- | | | | 0-402600 | 53950 | -0.12 | 703 | 9732 | 79 | 265 | 16.7 | 111 | 7.1 | 7 | 1.8 | 24730 | 5.6 | 13330 | 27 | 0.6 |
| 02- | 66.0692- | 165.1831-2-13- | | | | 0-402601 | 37460 | -0.26 | 636 | -3216 | 95 | -220 | 33.2 | 161 | 13.9 | 6 | 2.8 | 29850 | 10.2 | -7824 | -59 | 0.7 |
| 02- | 66.0792- | 165.1700-2-12- | | | | 0-402602 | 39410 | -0.07 | 395 | 6990 | 80 | -103 | 12.1 | 104 | 10.9 | 6 | 1.4 | 20910 | 11.9 | 11490 | 35 | 0.6 |
| 02- | 66.0264- | 165.0625-2-13- | | | | 0-402603 | 43620 | -0.06 | 598 | 9531 | 86 | -84 | 16.7 | 132 | 3.7 | 6 | 1.3 | 23570 | 8.5 | 10230 | 27 | 0.6 |
| 02- | 65.9817- | 164.9028-2-12- | | | | 0-402604 | 48550 | -0.08 | 590 | 9909 | 123 | -107 | 10.0 | 62 | 38.9 | 11 | 1.3 | 19850 | 20.4 | 13730 | 73 | 1.2 |
| 02- | 65.9347- | 164.8500-2-12- | | | | 0-402605 | 44430 | -0.09 | 561 | 4830 | 110 | -112 | 21.3 | 119 | 5.4 | 7 | 1.8 | 33150 | 10.5 | 12340 | 49 | 0.9 |
| 02- | 66.0733- | 166.5717-2-12- | | | | 0-402632 | 35400 | -0.12 | 395 | 10200 | 51 | 4490 | 11.5 | 258 | -2.6 | 5 | 1.2 | 19810 | 8.5 | 7600 | | 0.5 |
| 02- | 66.0500- | 166.6667-2-12- | | | | 0-402633 | 38760 | -0.07 | 556 | 11150 | 63 | 3104 | 14.4 | 130 | 7.0 | 5 | 1.4 | 23850 | 7.5 | 8264 | 31 | 0.5 |
| 02- | 66.0283- | 166.6486-2-12- | | | | 0-402634 | 40910 | -0.08 | 618 | 10950 | 61 | 692 | 12.2 | 96 | 10.4 | 6 | 1.2 | 22460 | 6.5 | 9687 | 29 | 0.4 |
| 02- | 66.0361- | 166.7189-2-13- | | | | 0-402635 | 33060 | -0.11 | -258 | 7178 | 74 | 9424 | 14.8 | 132 | 7.5 | 3 | 1.6 | 17170 | 7.3 | -4689 | 32 | 0.7 |
| 02- | 66.0267- | 166.7278-2-12- | | | | 0-402636 | 32260 | -0.08 | 391 | 8130 | 52 | 2164 | 9.1 | 118 | 4.5 | 5 | 1.1 | 15270 | 8.6 | 9370 | 33 | 0.3 |
| 02- | 66.0100- | 166.6044-2-12- | | | | 0-402637 | 30400 | -0.07 | 316 | 10100 | 67 | 305 | 11.9 | 289 | 6.2 | 4 | 1.2 | 18590 | 10.1 | 8796 | 42 | 0.6 |
| 02- | 66.0067- | 166.5450-2-13- | | | | 0-402638 | | | | | | | | | | | | | | | | |
| 02- | 66.0267- | 166.5333-2-13- | | | | 0-402639 | 36300 | -0.07 | 430 | 8990 | 84 | -99 | 12.5 | 117 | 3.1 | 5 | 1.6 | 19760 | 7.7 | 8950 | 43 | 0.5 |
| 02- | 66.0400- | 166.5333-2-12- | | | | 0-402640 | 37510 | -0.10 | 462 | 8365 | 69 | -95 | 15.8 | 157 | 5.8 | 5 | 1.3 | 25700 | 8.2 | 11190 | 30 | 0.5 |
| 02- | 66.0400- | 166.3900-2-13- | | | | 0-402643 | 40370 | -0.07 | 550 | 9506 | 79 | -95 | 18.8 | 156 | 5.9 | 5 | 1.5 | 28520 | 9.7 | 10490 | 43 | 0.6 |
| 02- | 66.0283- | 166.3250-2-13- | | | | 0-402644 | | | | | | | | | | | | | | | | |
| 02- | 66.0403- | 166.2306-2-12- | | | | 0-402647 | 37920 | -0.09 | 451 | 11860 | 114 | -131 | 18.3 | 158 | 4.2 | 6 | 1.7 | 31230 | 12.4 | 10340 | 51 | 0.8 |
| 02- | 66.0319- | 166.1783-2-12- | | | | 0-402648 | 44840 | -0.09 | 757 | 16630 | 85 | 146 | 16.7 | 80 | 5.1 | 6 | 1.4 | 26900 | 6.8 | 14150 | 36 | 0.5 |
| 02- | 66.0350- | 166.0706-2-12- | | | | 0-402649 | 40200 | -0.07 | 482 | 9316 | 83 | -89 | 14.6 | 143 | 3.3 | 6 | 1.5 | 23560 | 9.7 | 10030 | 38 | 0.6 |
| 02- | 65.9694- | 165.0333-2-12- | | | | 0-402651 | 42720 | -0.07 | 590 | 6891 | 74 | -108 | 16.3 | 111 | 2.9 | 7 | 1.4 | 21280 | 9.6 | 10660 | 45 | 0.5 |
| 02- | 65.9792- | 165.1278-2-13- | | | | 0-402653 | 45510 | -0.10 | 670 | 7494 | 86 | -115 | 18.9 | 136 | 4.4 | 5 | 1.6 | 29840 | 8.1 | 9040 | 52 | 0.6 |
| 02- | 66.0306- | 165.1461-2-13- | | | | 0-402654 | 47460 | -0.11 | 656 | 11820 | 69 | -100 | 16.7 | 102 | 4.8 | 6 | 1.3 | 23480 | 5.5 | 13350 | 31 | 0.4 |
| 02- | 66.0139- | 165.1950-2-13- | | | | 0-402655 | 45990 | -0.08 | 603 | 9072 | 79 | -100 | 14.3 | 100 | 3.4 | 6 | 1.7 | 23440 | 7.4 | 11320 | 45 | 0.5 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02-65.4500-164.5667-2-12- | 0-402086 | 27080 | 1204 | 13470 | -32 | 4 | 18.8 | 6.8 | -472 | -1 | -1 | 10.2 | 6981 | 142 | 3.8 | -124 | 0.333 |
| 02-65.8903-166.9611-2-13- | 0-402420 | 15500 | 271 | 12880 | -34 | -3 | 10.9 | 3.9 | -316 | -10 | 1 | 8.5 | 4705 | 101 | 4.2 | -390 | 0.318 |
| 02-65.9000-166.8556-2-13- | 0-402421 | 18880 | 542 | 11210 | 70 | -2 | 16.9 | 9.3 | -293 | 1 | | 12.6 | 8846 | 133 | 4.8 | 176 | 0.222 |
| 02-65.9458-166.8889-2-13- | 0-402422 | 15980 | 386 | 10080 | -32 | -3 | 13.8 | 4.8 | -375 | -1 | -1 | 9.3 | 4718 | 104 | 5.4 | 126 | 0.312 |
| 02-65.9722-166.9333-2-13- | 0-402423 | 8529 | 297 | 13170 | -23 | -2 | 9.3 | 5.4 | -344 | | | 7.5 | 3922 | 47 | 4.0 | 119 | 0.267 |
| 02-65.9667-166.8667-2-13- | 0-402424 | 18040 | 424 | 12590 | -29 | -2 | 11.7 | 4.8 | -349 | | | 7.9 | 4293 | 88 | 3.7 | -31 | 0.342 |
| 02-65.9544-166.8458-2-13- | 0-402425 | 14620 | 510 | 9447 | 59 | -2 | 12.2 | 6.7 | -330 | | | 11.0 | 4934 | 88 | 4.7 | 130 | 0.264 |
| 02-65.8889-166.7264-2-13- | 0-402433 | 20130 | 366 | 11350 | -28 | -2 | 12.9 | 5.2 | -352 | -1 | | 10.3 | 4567 | 95 | 3.5 | -125 | 0.282 |
| 02-65.9308-166.7222-2-13- | 0-402434 | 18880 | 853 | 10240 | 49 | 4 | 11.3 | 6.2 | -475 | -1 | | 12.0 | 4740 | 73 | 5.6 | 188 | 0.192 |
| 02-65.9722-166.7083-2-13- | 0-402435 | 41830 | 539 | 5974 | -28 | 5 | 9.5 | 4.1 | -347 | | | 7.5 | 4571 | 69 | 3.4 | -28 | 0.347 |
| 02-65.9736-166.6194-2-13- | 0-402436 | 14840 | 283 | 12190 | -24 | -2 | 12.6 | 5.9 | -299 | | -1 | 9.4 | 4857 | 86 | 4.4 | 133 | 0.298 |
| 02-65.9889-166.5028-2-13- | 0-402437 | 17970 | 393 | 9957 | -29 | -2 | 13.5 | 5.8 | -356 | -1 | | 9.1 | 4179 | 104 | 3.5 | 141 | 0.319 |
| 02-65.9833-166.4347-2-12- | 0-402438 | 13980 | 347 | 12890 | 42 | -2 | 12.3 | 6.8 | -317 | | -1 | 10.2 | 4838 | 82 | 4.1 | 110 | 0.265 |
| 02-65.9778-166.2222-2-12- | 0-402440 | 18900 | 557 | 10690 | -38 | -3 | 14.1 | 4.2 | -461 | -1 | -1 | 8.5 | 5221 | 107 | -2.8 | 206 | 0.365 |
| 02-65.8861-166.6042-2-12- | 0-402445 | 19500 | 675 | 11600 | 46 | | 11.9 | 6.8 | -365 | 1 | -1 | 14.2 | 4385 | 77 | 3.9 | 121 | 0.232 |
| 02-65.9653-166.0111-2-12- | 0-402494 | 18890 | 384 | 12510 | 39 | -1 | 8.6 | 3.8 | -272 | | | 7.1 | 3752 | 69 | 2.8 | 97 | 0.268 |
| 02-65.9833-166.0542-2-12- | 0-402495 | 17430 | 431 | 12220 | 54 | -2 | 14.1 | 6.5 | -350 | | | 11.3 | 4605 | 83 | 5.0 | 140 | 0.195 |
| 02-65.9778-165.8708-2-12- | 0-402496 | 14420 | 1006 | 14440 | -41 | -3 | 14.5 | 9.1 | -585 | -1 | -1 | 23.4 | 6824 | 97 | 8.2 | -86 | 0.244 |
| 02-65.9611-165.7667-2-12- | 0-402521 | 19790 | 733 | 10510 | 42 | -2 | 13.9 | 7.6 | -415 | | -1 | 10.1 | 5176 | 90 | 4.3 | 130 | 0.248 |
| 02-65.9742-165.6847-2-12- | 0-402522 | 16760 | 390 | 12490 | 47 | -2 | 11.0 | 6.2 | -301 | -1 | | 9.8 | 5217 | 83 | 4.3 | 116 | 0.286 |
| 02-65.9847-165.5806-2-12- | 0-402523 | 11060 | 485 | 11740 | -27 | -2 | 13.6 | 8.4 | -374 | | -1 | 12.2 | 6034 | 85 | 5.5 | -156 | 0.213 |
| 02-65.9694-165.4583-2-13- | 0-402524 | 16550 | 347 | 12400 | -38 | -2 | 11.8 | 4.3 | -383 | -9 | -4 | 8.6 | 5259 | 83 | -3.2 | -368 | 0.256 |
| 02-65.8153-164.8139-2-12- | 0-402572 | 19840 | 737 | 9752 | 43 | -1 | 13.2 | 9.4 | -403 | | | 16.2 | 4936 | 85 | 6.8 | 154 | 0.216 |
| 02-65.8292-164.7958-2-12- | 0-402573 | 22610 | 1007 | 9217 | 63 | -3 | 14.5 | 6.5 | -506 | -1 | | 10.5 | 5119 | 112 | 4.7 | 167 | 0.333 |
| 02-65.9703-165.2800-2-12- | 0-402586 | 16000 | 917 | 12130 | -31 | -3 | 14.4 | 8.2 | -516 | -1 | | 11.7 | 4921 | 77 | 6.2 | -69 | 0.214 |
| 02-65.9756-165.3108-2-13- | 0-402587 | 23190 | 391 | 12500 | -35 | -3 | 12.7 | 4.4 | -411 | -1 | -1 | 7.5 | 4770 | 91 | 4.6 | | 0.333 |
| 02-66.1400-165.2817-2-13- | 0-402599 | 16880 | 287 | 15150 | 76 | -2 | 14.6 | 7.5 | -369 | -1 | -1 | 10.8 | 5194 | 90 | 3.8 | 127 | 0.250 |
| 02-66.1117-165.2333-2-13- | 0-402600 | 20540 | 420 | 9815 | -36 | -3 | 14.9 | 6.3 | -413 | -1 | | 10.9 | 5329 | 106 | 4.6 | 149 | 0.303 |
| 02-66.0692-165.1831-2-13- | 0-402601 | 17550 | 434 | 10960 | -91 | -7 | 14.4 | -8.8 | -889 | -3 | -2 | 12.5 | 5538 | 85 | -6.7 | -252 | 0.184 |
| 02-66.0792-165.1700-2-12- | 0-402602 | 14550 | 487 | 11570 | 31 | -2 | 10.8 | 4.2 | -365 | -1 | -1 | 14.6 | 6520 | 87 | 4.1 | -85 | 0.349 |
| 02-66.0264-165.0625-2-13- | 0-402603 | 14490 | 374 | 11140 | -21 | -1 | 13.7 | 5.1 | -307 | | -1 | 12.0 | 5469 | 91 | 4.3 | 115 | 0.233 |
| 02-65.9817-164.9028-2-12- | 0-402604 | 14380 | 608 | 18500 | 76 | -1 | 9.7 | 9.9 | -352 | 5 | -1 | 44.6 | 4847 | 77 | 9.1 | -73 | 0.383 |
| 02-65.9347-164.8500-2-12- | 0-402605 | 17220 | 1076 | 9071 | 39 | -2 | 14.6 | 8.3 | -499 | | | 13.5 | 6575 | 99 | 5.8 | 142 | 0.274 |
| 02-66.0733-166.5717-2-12- | 0-402632 | 12700 | 345 | 14700 | -41 | -3 | 9.7 | 3.2 | -404 | -1 | -1 | 6.2 | 5940 | 60 | -2.9 | 152 | 0.452 |
| 02-66.0500-166.6667-2-12- | 0-402633 | 16990 | 424 | 12640 | 34 | -2 | 11.0 | 5.4 | -321 | | -1 | 10.2 | 4249 | 68 | 4.0 | 95 | 0.225 |
| 02-66.0283-166.6486-2-12- | 0-402634 | 19300 | 409 | 12130 | -25 | -2 | 10.8 | 5.6 | -382 | -1 | | 7.1 | 5448 | 92 | 3.5 | 106 | 0.338 |
| 02-66.0361-166.7189-2-13- | 0-402635 | 12380 | 206 | 16920 | -32 | -3 | 11.3 | 6.5 | -472 | -1 | -1 | 9.4 | 3450 | 64 | 3.1 | -142 | 0.202 |
| 02-66.0267-166.7278-2-12- | 0-402636 | 11360 | 267 | 14350 | -24 | -2 | 9.2 | 3.4 | -255 | | | 7.4 | 4064 | 52 | 3.8 | | 0.311 |
| 02-66.0100-166.6044-2-12- | 0-402637 | 13150 | 392 | 11700 | 56 | -2 | 9.8 | 5.4 | -290 | | | 8.6 | 4007 | 58 | 3.6 | 100 | 0.256 |
| 02-66.0067-166.5450-2-13- | 0-402638 | | | | | | | | | | | | | | | | |
| 02-66.0267-166.5333-2-13- | 0-402639 | 12100 | 270 | 12800 | 34 | -2 | 11.6 | 6.0 | -306 | | | 9.7 | 4230 | 71 | 4.9 | 120 | 0.237 |
| 02-66.0400-166.5333-2-12- | 0-402640 | 17040 | 610 | 11770 | -31 | -3 | 11.5 | 4.8 | -346 | -1 | -1 | 9.0 | 4345 | 83 | 3.7 | | 0.289 |
| 02-66.0400-166.3900-2-13- | 0-402643 | 18260 | 617 | 11680 | 34 | 2 | 12.4 | 6.2 | -340 | | | 9.8 | 4351 | 87 | 5.0 | 100 | 0.276 |
| 02-66.0283-166.3250-2-13- | 0-402644 | | | | | | | | | | | | | | | | |
| 02-66.0403-166.2306-2-12- | 0-402647 | 17850 | 1168 | 11750 | -26 | -2 | 13.7 | 8.3 | -542 | -1 | -1 | 11.4 | 5851 | 89 | 5.4 | 96 | 0.237 |
| 02-66.0319-166.1783-2-12- | 0-402648 | 21810 | 909 | 11030 | -30 | -3 | 13.9 | 5.6 | -388 | | | 11.6 | 5369 | 108 | 4.5 | -54 | 0.353 |
| 02-66.0350-166.0706-2-12- | 0-402649 | 16020 | 417 | 12070 | 46 | -2 | 12.0 | 6.6 | -289 | | | 10.5 | 5653 | 82 | 4.7 | 104 | 0.257 |
| 02-65.9694-165.0333-2-12- | 0-402651 | 12700 | 628 | 12170 | 31 | -2 | 11.2 | 6.1 | -397 | | -1 | 9.8 | 5069 | 86 | 4.4 | 113 | 0.276 |
| 02-65.9792-165.1278-2-13- | 0-402653 | 15540 | 361 | 11880 | 48 | -3 | 15.9 | 7.0 | -378 | -1 | | 11.0 | 5882 | 95 | 4.8 | 139 | 0.227 |
| 02-66.0306-165.1461-2-13- | 0-402654 | 17690 | 402 | 11810 | 60 | -3 | 13.5 | 4.4 | -336 | -1 | -1 | 8.7 | 5589 | 98 | 4.6 | 206 | 0.322 |
| 02-66.0139-165.1950-2-13- | 0-402655 | 15440 | 355 | 12760 | 49 | -2 | 13.4 | 6.7 | -322 | | -1 | 10.2 | 5084 | 79 | 4.3 | 121 | 0.255 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.0283- | 165.4467- | 2- | 13- | | 0-402656- | 07/27/76- | 16- | 23- | 17.3- | - | S- | 7.9- | 71- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | - | 1- | - | - | - | - | 2.30 |
| 02- | 66.0375- | 165.5639- | 2- | 13- | | 0-402657- | 07/27/76- | 16- | 21- | 17.4- | - | S- | 7.5- | 145- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 1- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.0261- | 165.8567- | 2- | 13- | | 0-402660- | 07/27/76- | 16- | 23- | 17.1- | - | S- | 7.9- | 79- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.0283- | 165.9517- | 2- | 13- | | 0-402661- | 07/27/76- | 16- | 22- | 18.0- | - | S- | 7.9- | 64- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.2389- | 165.5417- | 2- | 13- | | 0-402670- | 07/27/76- | 17- | 23- | 16.8- | - | S- | 8.7- | 23- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.2767- | 165.5361- | 2- | 13- | | 0-402671- | 07/27/76- | 17- | 21- | 16.6- | - | S- | 8.2- | 26- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.3208- | 165.5533- | 2- | 13- | | 0-402678- | 07/27/76- | 18- | 21- | 16.6- | - | S- | 7.4- | 45- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.50 |
| 02- | 66.3375- | 165.4461- | 2- | 13- | | 0-402680- | 07/27/76- | 18- | 21- | 16.6- | - | S- | 7.4- | 52- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.30 |
| 02- | 66.2750- | 165.4467- | 2- | 13- | | 0-402681- | 07/27/76- | 18- | 18- | 16.2- | - | S- | 7.7- | 46- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.2500- | 165.4244- | 2- | 13- | | 0-402682- | 07/27/76- | 18- | 18- | 16.9- | - | S- | 7.5- | 84- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.2117- | 165.2997- | 2- | 13- | | 0-402684- | 07/27/76- | 18- | 19- | 18.1- | - | S- | 7.7- | 45- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.20 |
| 02- | 66.1650- | 165.2606- | 2- | 13- | | 0-402685- | 07/27/76- | 18- | 20- | 17.5- | - | S- | 7.4- | 145- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.0483- | 165.0464- | 2- | 13- | | 0-402687- | 07/27/76- | 18- | 20- | 17.9- | - | S- | 7.8- | 54- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.0125- | 164.9375- | 2- | 13- | | 0-402688- | 07/27/76- | 18- | 19- | 17.8- | - | S- | 7.7- | 108- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.0028- | 164.8083- | 2- | 13- | | 0-402689- | 07/27/76- | 18- | 21- | 17.8- | - | S- | 8.2- | 33- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 1- | - | 1- | - | - | - | - | 2.30 |
| 02- | 65.9306- | 164.6667- | 2- | 12- | | 0-402691- | 07/27/76- | 19- | 18- | 11.3- | - | - | 7.4- | 140- | | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | 1- | - | - | - | - | 3.40 |
| 02- | 65.9153- | 164.7083- | 2- | 12- | | 0-402692- | 07/27/76- | 19- | 19- | 12.1- | - | - | 7.2- | 180- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | 1- | - | - | - | - | 3.30 |
| 02- | 65.5639- | 164.5597- | 2- | 15- | | 0-402700- | 07/28/76- | 14- | 11- | - | - | - | - | - | | 9- | 2- | 7- | 4- | 6- | - | - | - | 2- | 4- | 3- | 3- | 3- | 2- | - | - | - | - | 3.20 |
| 02- | 65.6583- | 164.3361- | 2- | 12- | | 0-402705- | 07/28/76- | 14- | 10- | 11.8- | - | - | 7.4- | 410- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | 2- | - | - | - | - | 2.80 |
| 02- | 65.6422- | 164.3472- | 2- | 12- | | 0-402706- | 07/28/76- | 14- | 11- | 11.8- | - | - | 7.4- | 390- | | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | 2- | - | - | - | - | 2.80 |
| 02- | 65.5972- | 164.2792- | 2- | 12- | | 0-402707- | 07/28/76- | 14- | 12- | 14.1- | - | - | 7.4- | 450- | | 6- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | 2- | - | - | - | - | 2.80 |
| 02- | 65.6611- | 164.2222- | 2- | 12- | | 0-402708- | 07/28/76- | 14- | 12- | 14.8- | - | - | 7.6- | 520- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | 2- | - | - | - | - | 2.60 |
| 02- | 65.6319- | 164.1833- | 2- | 12- | | 0-402709- | 07/28/76- | 15- | 11- | 14.5- | - | - | 7.4- | 410- | | 9- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | 2- | - | - | - | - | 2.50 |
| 02- | 65.6639- | 164.1281- | 2- | 12- | | 0-402710- | 07/28/76- | 15- | 11- | 15.0- | - | - | 7.8- | 410- | | 3- | 7- | 2- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | 2- | - | - | - | - | 2.80 |
| 02- | 65.6389- | 164.0917- | 2- | 13- | | 0-402711- | 07/28/76- | 15- | 10- | 16.3- | - | - | 8.4- | 84- | | | -2- | 7- | 5- | 6- | - | -3- | 1- | -3- | 3- | 3- | 3- | -2- | - | - | - | - | - | 3.00 |
| 02- | 65.6431- | 164.0278- | 2- | 12- | | 0-402712- | 07/28/76- | 15- | 10- | 13.6- | - | - | 8.0- | 44- | | 9- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | 1- | - | - | - | 2.80 |
| 02- | 65.6583- | 163.9472- | 2- | 15- | | 0-402713- | 07/28/76- | 15- | 12- | 15.0- | C- | - | 8.0- | - | | 16- | 2- | 7- | 6- | 6- | 1- | 2- | 1- | 1- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.70 |
| 02- | 65.6819- | 163.9847- | 2- | 12- | | 0-402714- | 07/28/76- | 15- | 14- | 14.6- | - | - | 8.0- | 210- | | 16- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.80 |
| 02- | 65.6806- | 163.7903- | 2- | 12- | | 0-402715- | 07/28/76- | 15- | 12- | 14.9- | - | - | 7.8- | 80- | | 3- | 2- | 7- | 6- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | 1- | - | - | - | 2.50 |
| 02- | 65.6861- | 163.6833- | 2- | 12- | | 0-402716- | 07/28/76- | 15- | 13- | 14.9- | - | - | 8.2- | 50- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 0.90 |
| 02- | 65.6931- | 163.6417- | 2- | 13- | | 0-402717- | 07/28/76- | 15- | 11- | 15.4- | - | - | 8.5- | 14- | | | -2- | 7- | 6- | 6- | - | -3- | 1- | -3- | 3- | 3- | 3- | -2- | - | - | - | - | - | 2.60 |
| 02- | 65.7069- | 163.6125- | 2- | 13- | | 0-402718- | 07/28/76- | 15- | 10- | 16.3- | - | - | 7.6- | 15- | | | -7- | 2- | 4- | 6- | - | -3- | 1- | -3- | 3- | 3- | 3- | -2- | - | - | - | - | - | 2.10 |
| 02- | 65.7167- | 163.7014- | 2- | 12- | | 0-402719- | 07/28/76- | 16- | 10- | 14.9- | - | - | 8.0- | 60- | | 9- | 2- | 7- | 5- | 6- | - | - | - | 2- | 4- | 3- | 3- | 3- | -2- | - | - | - | - | 2.50 |
| 02- | 65.7153- | 163.7861- | 2- | 13- | | 0-402720- | 07/28/76- | 16- | 11- | 16.3- | - | - | 7.1- | 55- | | | -7- | 2- | 6- | 6- | - | -3- | 1- | -3- | 3- | 3- | 3- | -2- | - | - | - | - | - | 2.90 |
| 02- | 65.7417- | 163.7444- | 2- | 12- | | 0-402721- | 07/28/76- | 16- | 10- | 14.2- | - | - | 7.6- | 85- | | 9- | 7- | 2- | 6- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 3- | -2- | - | - | - | - | 2.70 |
| 02- | 65.7450- | 163.8264- | 2- | 12- | | 0-402722- | 07/28/76- | 16- | 11- | 15.4- | - | - | 8.2- | 195- | | 13- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.70 |
| 02- | 65.7417- | 163.8931- | 2- | 12- | | 0-402723- | 07/28/76- | 16- | 11- | 12.8- | - | - | 8.0- | 495- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 2.60 |
| 02- | 65.7083- | 163.9167- | 2- | 15- | | 0-402724- | 07/28/76- | 16- | 11- | - | - | - | - | - | | 13- | 2- | 7- | 5- | 6- | - | - | - | 2- | 4- | 3- | 3- | 3- | -2- | - | - | - | - | 0.60 |
| 02- | 65.7276- | 164.0972- | 2- | 13- | | 0-402725- | 07/28/76- | 14- | 10- | 16.9- | - | - | 7.7- | 200- | | | -2- | 7- | 6- | 6- | - | -3- | 1- | -3- | 3- | 3- | 3- | -2- | - | - | - | - | - | 2.50 |
| 02- | 65.7167- | 164.0472- | 2- | 13- | | 0-402726- | 07/28/76- | 16- | 13- | 16.2- | - | - | 8.0- | 54- | | | -7- | 2- | 6- | 6- | - | -3- | 1- | -3- | 3- | 3- | 3- | -2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.7444- | 164.1139- | 2- | 12- | | 0-402727- | 07/28/76- | 16- | 12- | 13.8- | - | - | 7.2- | 500- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 2.50 |
| 02- | 65.7472- | 164.0097- | 2- | 12- | | 0-402728- | 07/28/76- | 16- | 12- | 13.8- | - | - | 8.0- | 41- | | 23- | 7- | 2- | 6- | 6- | 1- | 2- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 2.60 |
| 02- | 65.7278- | 164.1708- | 2- | 12- | | 0-402729- | 07/28/76- | 16- | 12- | 11.8- | - | - | 7.6- | 465- | | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 2.60 |
| 02- | 65.7208- | 164.3194- | 2- | 15- | | 0-402730- | 07/28/76- | 17- | 11- | - | - | - | - | - | | 23- | 2- | 7- | 4- | 6- | - | - | - | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.10 |
| 02- | 65.7544- | 164.2389- | 2- | 15- | | 0-402731- | 07/28/76- | 17- | 11- | - | - | - | - | - | | 6- | 2- | 7- | 4- | 6- | - | - | - | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 2.70 |
| 02- | 65.7708- | 164.3250- | 2- | 15- | | 0-402732- | 07/28/76- | 17- | 11- | - | - | - | - | - | | 0- | 2- | 7- | 4- | 6- | - | - | - | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.30 |
| 02- | 65.7875- | 164.4333- | 2- | 12- | | 0-402735- | 07/28/76- | 17- | 11- | 10.6- | - | - | 7.2- | 150- | | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.70 |
| 02- | 65.7944- | 164.5264- | 2- | 12- | | 0-402737- | 07/28/76- | 17- | 11- | 11.0- | - | - | 7.2- | 230- | | 16- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.60 |
| 02- | 65.5625- | 164.4167- | 2- | 12- | | 0-402742- | 07/28/76- | 19- | 17- | 11.1- | - | - | 7.3- | 460- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -2- | - | - | - | - | 2.00 |
| 02- | 65.5292- | 164.1847- | 2- | 12- | | 0-402743- | 07/28/76- | 19- | 17- | 12.1- | - | - | 6.7- | 400- | | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -2- | - | - | - | - | 2.30 |
| 02- | 65.5708- | 164.1889- | 2- | 12- | | 0-402745- | 07/28/76- | 19- | 17- | 10.2- | - | - | 7.1- | 500- | | 16- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -2- | - | - | - | - | 2.40 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.0283- | 165.4467- | 2- | 13- | | 0-402656 | -5 | -5 | -5 | 17 | 29 | 37 | 9 | -10 | -15 | 2 | 31 |
| 02- | 66.0375- | 165.5639- | 2- | 13- | | 0-402657 | -5 | -5 | -5 | 25 | 20 | 26 | 9 | -10 | -15 | 1 | 32 |
| 02- | 66.0261- | 165.8567- | 2- | 13- | | 0-402660 | -5 | -5 | -5 | 17 | -20 | 34 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.0283- | 165.9517- | 2- | 13- | | 0-402661 | -5 | -5 | -5 | 24 | -20 | 47 | 10 | -10 | -15 | 2 | 22 |
| 02- | 66.2389- | 165.5417- | 2- | 13- | | 0-402670 | -5 | -5 | -5 | 19 | -20 | 34 | -5 | -10 | -15 | 2 | 18 |
| 02- | 66.2767- | 165.5361- | 2- | 13- | | 0-402671 | -5 | -5 | -5 | 30 | -20 | 37 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.3208- | 165.5533- | 2- | 13- | | 0-402678 | -5 | -5 | -5 | 23 | -20 | 50 | -5 | -10 | -15 | -1 | 18 |
| 02- | 66.3375- | 165.4461- | 2- | 13- | | 0-402680 | | | | | | | | | | 2 | 20 |
| 02- | 66.2750- | 165.4467- | 2- | 13- | | 0-402681 | -5 | -5 | -5 | 26 | 31 | 28 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.2500- | 165.4244- | 2- | 13- | | 0-402682 | -5 | -5 | -5 | 27 | 38 | 41 | -5 | -10 | -15 | 1 | 11 |
| 02- | 66.2117- | 165.2997- | 2- | 13- | | 0-402684 | -5 | -5 | -5 | 19 | 25 | 41 | -5 | -10 | -15 | -1 | 11 |
| 02- | 66.1650- | 165.2606- | 2- | 13- | | 0-402685 | -5 | -5 | -5 | 30 | 30 | 26 | -5 | -10 | -15 | 2 | 18 |
| 02- | 66.0483- | 165.0464- | 2- | 13- | | 0-402687 | -5 | -5 | -5 | 29 | 25 | 51 | -5 | -10 | -15 | 3 | 27 |
| 02- | 66.0125- | 164.9375- | 2- | 13- | | 0-402688 | -5 | -5 | -5 | 24 | 26 | 36 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.0028- | 164.8083- | 2- | 13- | | 0-402689 | -5 | -5 | -5 | 14 | -20 | 18 | -5 | -10 | -15 | 1 | 24 |
| 02- | 65.9306- | 164.6667- | 2- | 12- | | 0-402691 | -5 | -5 | -5 | 25 | 40 | 31 | -5 | -10 | -15 | 1 | 25 |
| 02- | 65.9153- | 164.7083- | 2- | 12- | | 0-402692 | -5 | -5 | -5 | 21 | 26 | 42 | -5 | -10 | -15 | 2 | 32 |
| 02- | 65.5639- | 164.5597- | 2- | 15- | | 0-402700 | -5 | -5 | -5 | 32 | 31 | 16 | -5 | -10 | -15 | 2 | 49 |
| 02- | 65.6583- | 164.3361- | 2- | 12- | | 0-402705 | -5 | -5 | -5 | 37 | 40 | 28 | 9 | -10 | -15 | 2 | 24 |
| 02- | 65.6422- | 164.3472- | 2- | 12- | | 0-402706 | -5 | -5 | -5 | 32 | 24 | 25 | -5 | -10 | -15 | 2 | 29 |
| 02- | 65.5972- | 164.2792- | 2- | 12- | | 0-402707 | -5 | -5 | -5 | 28 | -20 | 43 | -5 | -10 | -15 | 2 | 30 |
| 02- | 65.6611- | 164.2222- | 2- | 12- | | 0-402708 | -5 | -5 | -5 | 20 | -20 | 24 | -5 | -10 | -15 | 2 | 25 |
| 02- | 65.6319- | 164.1833- | 2- | 12- | | 0-402709 | -5 | -5 | -5 | 27 | -20 | 41 | -5 | -10 | -15 | 2 | 34 |
| 02- | 65.6639- | 164.1281- | 2- | 12- | | 0-402710 | -5 | -5 | -5 | 22 | 36 | 38 | -5 | -10 | -15 | 2 | 40 |
| 02- | 65.6389- | 164.0917- | 2- | 13- | | 0-402711 | -5 | -5 | -5 | 21 | 33 | 45 | -5 | -10 | -15 | 2 | 31 |
| 02- | 65.6431- | 164.0278- | 2- | 12- | | 0-402712 | -5 | -5 | -5 | 25 | 39 | 19 | 5 | -10 | -15 | 1 | 10 |
| 02- | 65.6583- | 163.9472- | 2- | 15- | | 0-402713 | -5 | -5 | -5 | 35 | 32 | 37 | 8 | -10 | -15 | 1 | 17 |
| 02- | 65.6819- | 163.9847- | 2- | 12- | | 0-402714 | -5 | -5 | -5 | 32 | 35 | 39 | -5 | -10 | -15 | 2 | 23 |
| 02- | 65.6806- | 163.7903- | 2- | 12- | | 0-402715 | -5 | -5 | 5 | 25 | 39 | 30 | -5 | -10 | -15 | 1 | 11 |
| 02- | 65.6861- | 163.6833- | 2- | 12- | | 0-402716 | -5 | -5 | 11 | 32 | 25 | -15 | -5 | -10 | -15 | -1 | 4 |
| 02- | 65.6931- | 163.6417- | 2- | 13- | | 0-402717 | -5 | -5 | -5 | 30 | 25 | 30 | -5 | -10 | -15 | -1 | 78 |
| 02- | 65.7069- | 163.6125- | 2- | 13- | | 0-402718 | | | | | | | | | | -1 | 12 |
| 02- | 65.7167- | 163.7014- | 2- | 12- | | 0-402719 | | | | | | | | | | -1 | 19 |
| 02- | 65.7153- | 163.7861- | 2- | 13- | | 0-402720 | | | | | | | | | | 2 | 27 |
| 02- | 65.7417- | 163.7444- | 2- | 12- | | 0-402721 | -5 | -5 | -5 | 22 | -20 | 36 | -5 | -10 | -15 | -1 | 15 |
| 02- | 65.7450- | 163.8264- | 2- | 12- | | 0-402722 | -5 | -5 | -5 | 28 | 25 | 28 | -5 | -10 | -15 | 2 | 20 |
| 02- | 65.7417- | 163.8931- | 2- | 12- | | 0-402723 | -5 | 5 | -5 | 24 | 29 | 37 | -5 | -10 | -15 | 2 | 27 |
| 02- | 65.7083- | 163.9167- | 2- | 15- | | 0-402724 | | | | | | | | | | -1 | 3 |
| 02- | 65.7278- | 164.0972- | 2- | 13- | | 0-402725 | -5 | -5 | -5 | 23 | -20 | 30 | -5 | -10 | -15 | -1 | 34 |
| 02- | 65.7167- | 164.0472- | 2- | 13- | | 0-402726 | -5 | -5 | -5 | 32 | -20 | 30 | -5 | -10 | -15 | -1 | 33 |
| 02- | 65.7444- | 164.1139- | 2- | 12- | | 0-402727 | -5 | -5 | -5 | 35 | 20 | 45 | -5 | -10 | -15 | 2 | 34 |
| 02- | 65.7472- | 164.0097- | 2- | 12- | | 0-402728 | -5 | -5 | -5 | 25 | 27 | 18 | -5 | -10 | -15 | 2 | 25 |
| 02- | 65.7278- | 164.1708- | 2- | 12- | | 0-402729 | -5 | -5 | -5 | 23 | 30 | 37 | -5 | -10 | -15 | 2 | 21 |
| 02- | 65.7208- | 164.3194- | 2- | 15- | | 0-402730 | -5 | -5 | 5 | 44 | 45 | 28 | -5 | -10 | -15 | 2 | 20 |
| 02- | 65.7544- | 164.2389- | 2- | 15- | | 0-402731 | -5 | -5 | -5 | 28 | -20 | 50 | -5 | -10 | -15 | 2 | 31 |
| 02- | 65.7708- | 164.3250- | 2- | 15- | | 0-402732 | | | | | | | | | | 2 | 25 |
| 02- | 65.7875- | 164.4333- | 2- | 12- | | 0-402735 | -5 | -5 | -5 | 27 | 30 | 25 | -5 | -10 | -15 | 2 | 28 |
| 02- | 65.7944- | 164.5264- | 2- | 12- | | 0-402737 | -5 | -5 | -5 | 48 | 50 | 54 | -5 | -10 | -15 | 2 | 21 |
| 02- | 65.5625- | 164.4167- | 2- | 12- | | 0-402742 | | | | | | | | | | 2 | 22 |
| 02- | 65.5292- | 164.1847- | 2- | 12- | | 0-402743 | -5 | -5 | -5 | 13 | 53 | 15 | -5 | -10 | -15 | 2 | 22 |
| 02- | 65.5708- | 164.1889- | 2- | 12- | | 0-402745 | | | | | | | | | | 1 | 19 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.0283- | 165.4467- | 2- | 13- | | 0-402656 | 42080 | -0.07 | 627 | 9439 | 60 | -99 | 10.9 | 95 | 2.4 | 6 | 1.1 | 18000 | 6.0 | 11470 | 35 | 0.4 |
| 02- | 66.0375- | 165.5639- | 2- | 13- | | 0-402657 | 58840 | -0.15 | 925 | 7840 | 115 | -134 | 24.7 | 149 | 7.1 | 5 | 1.9 | 41480 | 7.4 | 12350 | 48 | 0.6 |
| 02- | 66.0261- | 165.8567- | 2- | 13- | | 0-402660 | 38200 | -0.06 | 507 | 10640 | 69 | -85 | 13.7 | 117 | 2.3 | 6 | 1.4 | 20640 | 8.2 | 9773 | 41 | 0.5 |
| 02- | 66.0283- | 165.9517- | 2- | 13- | | 0-402661 | 48490 | -0.08 | 715 | 8672 | 67 | 206 | 13.7 | 87 | 3.2 | 6 | 1.3 | 20330 | 6.4 | 11450 | 32 | 0.4 |
| 02- | 66.2389- | 165.5417- | 2- | 13- | | 0-402670 | 24100 | | 669 | 6990 | | 189 | | | | 6 | | | | 10900 | | |
| 02- | 66.2767- | 165.5361- | 2- | 13- | | 0-402671 | 47350 | -0.14 | 789 | 6674 | 66 | 180 | 14.5 | 78 | -3.0 | 5 | 1.3 | 22280 | 5.6 | 16320 | 88 | 0.5 |
| 02- | 66.3208- | 165.5533- | 2- | 13- | | 0-402678 | 41730 | -0.09 | 571 | 9377 | 69 | 239 | 17.1 | 111 | 3.8 | 6 | 1.2 | 21540 | 7.8 | 9593 | 33 | 0.6 |
| 02- | 66.3375- | 165.4461- | 2- | 13- | | 0-402680 | 17300 | | 445 | 6290 | | 200 | | | | 5 | | | | 7600 | | |
| 02- | 66.2750- | 165.4467- | 2- | 13- | | 0-402681 | 39640 | -0.10 | 672 | 8121 | 97 | 218 | 16.9 | 148 | 3.7 | 5 | 1.8 | 25720 | 9.0 | 14240 | 50 | 0.7 |
| 02- | 66.2500- | 165.4244- | 2- | 13- | | 0-402682 | 43240 | -0.15 | 697 | 7002 | 56 | 330 | 16.0 | 85 | -3.2 | 5 | 1.1 | 26610 | 4.4 | 11790 | | 0.5 |
| 02- | 66.2117- | 165.2997- | 2- | 13- | | 0-402684 | 43440 | -0.10 | 589 | 8663 | 64 | 365 | 18.9 | 127 | 4.3 | 5 | 1.4 | 25940 | 5.7 | 8034 | | 0.5 |
| 02- | 66.1650- | 165.2606- | 2- | 13- | | 0-402685 | 47010 | -0.09 | 836 | 10020 | 65 | 225 | 14.5 | 95 | 4.1 | 7 | 1.3 | 23910 | 5.6 | 13400 | 38 | 0.4 |
| 02- | 66.0483- | 165.0464- | 2- | 13- | | 0-402687 | 21800 | | 732 | 7540 | | 198 | | | | 6 | | | | 11900 | | |
| 02- | 66.0125- | 164.9375- | 2- | 13- | | 0-402688 | 43950 | -0.10 | 605 | 10400 | 67 | -95 | 12.2 | 94 | -2.1 | 5 | 1.4 | 21550 | 6.3 | 13210 | 25 | 0.5 |
| 02- | 66.0028- | 164.8083- | 2- | 13- | | 0-402689 | 32440 | -0.06 | 394 | 10120 | 71 | -84 | 10.7 | 143 | 2.1 | 6 | 1.3 | 16970 | 9.1 | 8758 | 39 | 0.5 |
| 02- | 65.9306- | 164.6667- | 2- | 12- | | 0-402691 | 46820 | -0.07 | 602 | 5156 | 63 | -108 | 15.5 | 77 | 4.3 | 6 | 1.3 | 27530 | 7.0 | 14390 | 39 | 0.5 |
| 02- | 65.9153- | 164.7083- | 2- | 12- | | 0-402692 | 24200 | -0.08 | 585 | 4310 | 109 | -103 | 20.1 | 111 | 4.9 | 6 | 1.6 | 34180 | 8.4 | 14200 | 58 | 0.6 |
| 02- | 65.5639- | 164.5597- | 2- | 15- | | 0-402700 | 52870 | -0.11 | 547 | 31070 | 103 | -95 | 18.2 | 84 | 5.1 | 7 | 1.7 | 30100 | 5.3 | 15190 | 57 | 0.7 |
| 02- | 65.6583- | 164.3361- | 2- | 12- | | 0-402705 | 55290 | -0.11 | 961 | 9513 | 85 | -107 | 22.9 | 135 | 5.3 | 7 | 1.6 | 34380 | 6.0 | 12840 | 38 | 0.6 |
| 02- | 65.6422- | 164.3472- | 2- | 12- | | 0-402706 | 54460 | -0.11 | 1067 | 8740 | 61 | -126 | 15.9 | 94 | 4.7 | 7 | 1.4 | 27540 | 4.3 | 15470 | 35 | 0.4 |
| 02- | 65.5972- | 164.2792- | 2- | 12- | | 0-402707 | 52320 | -0.14 | 812 | 9554 | 121 | -134 | 25.5 | 157 | 5.9 | 6 | 2.1 | 34790 | 8.7 | 13900 | 56 | 0.6 |
| 02- | 65.6611- | 164.2222- | 2- | 12- | | 0-402708 | 40700 | -0.12 | 679 | 23200 | 54 | -102 | 15.1 | 88 | 4.0 | 6 | 1.2 | 21730 | 5.2 | 9643 | 34 | 0.5 |
| 02- | 65.6319- | 164.1833- | 2- | 12- | | 0-402709 | 39110 | -0.08 | 485 | 16370 | 77 | -96 | 17.0 | 122 | 3.2 | 5 | 1.5 | 25260 | 8.0 | 11510 | 38 | 0.6 |
| 02- | 65.6639- | 164.1281- | 2- | 12- | | 0-402710 | 54520 | -0.12 | 908 | 9871 | 68 | -130 | 16.7 | 101 | 4.4 | 7 | 1.5 | 25820 | 5.7 | 14820 | | 0.5 |
| 02- | 65.6389- | 164.0917- | 2- | 13- | | 0-402711 | 49060 | -0.12 | 609 | 8576 | 111 | 352 | 23.4 | 156 | 4.6 | 5 | 2.1 | 29350 | 8.3 | 14080 | 45 | 0.7 |
| 02- | 65.6431- | 164.0278- | 2- | 12- | | 0-402712 | 51190 | -0.18 | 859 | 9726 | 70 | 257 | 20.1 | 94 | 6.7 | 5 | 1.4 | 29160 | 5.6 | 15650 | | 0.4 |
| 02- | 65.6583- | 163.9472- | 2- | 15- | | 0-402713 | 19600 | -0.11 | 619 | 6030 | 84 | 182 | 24.0 | 151 | 5.7 | 4 | 1.7 | 35420 | 7.2 | 11500 | 53 | 0.6 |
| 02- | 65.6819- | 163.9847- | 2- | 12- | | 0-402714 | 55190 | -0.11 | 1007 | 10170 | 70 | -126 | 18.5 | 108 | 4.3 | 7 | 1.4 | 28500 | 5.7 | 15390 | 43 | 0.4 |
| 02- | 65.6806- | 163.7903- | 2- | 12- | | 0-402715 | 48790 | -0.14 | 828 | 5422 | 90 | -131 | 21.8 | 128 | 7.2 | 6 | 2.0 | 38450 | 6.4 | 15850 | 38 | 0.6 |
| 02- | 65.6861- | 163.6833- | 2- | 12- | | 0-402716 | 31000 | -0.21 | 992 | 5590 | 40 | -154 | 56.9 | -28 | -4.5 | 7 | 1.3 | 172800 | -2.9 | 19300 | | 0.5 |
| 02- | 65.6931- | 163.6417- | 2- | 13- | | 0-402717 | 49470 | -0.11 | 671 | 7221 | 83 | 204 | 17.5 | 129 | 4.9 | 5 | 1.7 | 26160 | 7.0 | 11610 | 42 | 0.6 |
| 02- | 65.7069- | 163.6125- | 2- | 13- | | 0-402718 | 39890 | -0.14 | 734 | 6982 | 55 | 289 | 14.5 | 77 | -2.7 | 6 | 1.3 | 17840 | 4.5 | 8731 | 33 | 0.5 |
| 02- | 65.7167- | 163.7014- | 2- | 12- | | 0-402719 | 51300 | -0.14 | 875 | 8170 | 87 | -124 | 23.6 | 151 | 6.1 | 4 | 1.9 | 37460 | 6.4 | 13300 | 53 | 0.6 |
| 02- | 65.7153- | 163.7861- | 2- | 13- | | 0-402720 | 50500 | 0.48 | 1620 | 13000 | 52 | -226 | 22.0 | 76 | 5.9 | 8 | 1.8 | 28900 | -3.8 | 25000 | -54 | -0.5 |
| 02- | 65.7417- | 163.7444- | 2- | 12- | | 0-402721 | 42170 | -0.11 | 664 | 9396 | 75 | -115 | 18.8 | 124 | 3.9 | 6 | 1.5 | 32990 | 7.3 | 10470 | 42 | 0.7 |
| 02- | 65.7450- | 163.8264- | 2- | 12- | | 0-402722 | 48660 | -0.10 | 608 | 10490 | 73 | -118 | 16.6 | 107 | 3.9 | 7 | 1.3 | 23240 | 6.4 | 12520 | 35 | 0.4 |
| 02- | 65.7417- | 163.8931- | 2- | 12- | | 0-402723 | 45300 | -0.11 | 531 | 12350 | 97 | 216 | 17.2 | 143 | 5.2 | 5 | 1.7 | 25250 | 8.7 | 13520 | 45 | 0.8 |
| 02- | 65.7083- | 163.9167- | 2- | 15- | | 0-402724 | | | | | | | | | | | | | | | | |
| 02- | 65.7278- | 164.0972- | 2- | 13- | | 0-402725 | 52400 | -0.09 | 827 | 10500 | 87 | 186 | 20.1 | 115 | 4.1 | 6 | 1.6 | 29740 | 8.1 | 10900 | 46 | 0.6 |
| 02- | 65.7167- | 164.0472- | 2- | 13- | | 0-402726 | 55070 | -0.10 | 883 | 8199 | 68 | -118 | 13.0 | 97 | 4.8 | 7 | 1.6 | 23560 | 6.8 | 13060 | 44 | 0.5 |
| 02- | 65.7444- | 164.1139- | 2- | 12- | | 0-402727 | 55990 | -0.13 | 668 | 13970 | 104 | -129 | 25.3 | 167 | 6.0 | 6 | 1.9 | 37080 | 8.0 | 16800 | 55 | 0.7 |
| 02- | 65.7472- | 164.0097- | 2- | 12- | | 0-402728 | 50060 | -0.14 | 772 | 8615 | 68 | -111 | 15.0 | 94 | 5.7 | 5 | 1.3 | 25790 | 5.1 | 13250 | | 0.6 |
| 02- | 65.7278- | 164.1708- | 2- | 12- | | 0-402729 | 47570 | -0.05 | 1177 | 13800 | 125 | -130 | 19.8 | 155 | 5.0 | 6 | 2.0 | 36080 | 8.5 | 15980 | 45 | 0.7 |
| 02- | 65.7208- | 164.3194- | 2- | 15- | | 0-402730 | 57750 | -0.07 | 996 | 24830 | 62 | -84 | 16.2 | 77 | 3.0 | 5 | 1.2 | 29020 | 5.5 | 10200 | 33 | 0.5 |
| 02- | 65.7544- | 164.2389- | 2- | 15- | | 0-402731 | 70080 | -0.11 | 963 | 12870 | 106 | -98 | 22.5 | 142 | 5.6 | 6 | 2.1 | 40910 | 8.1 | 9355 | 50 | 0.7 |
| 02- | 65.7708- | 164.3250- | 2- | 15- | | 0-402732 | 55410 | -0.16 | 707 | 30190 | 39 | -128 | 20.3 | 64 | -3.4 | 4 | 1.1 | 26650 | 3.9 | -5533 | 40 | 0.4 |
| 02- | 65.7875- | 164.4333- | 2- | 12- | | 0-402735 | 71090 | -0.11 | 723 | 8091 | 78 | 131 | 19.7 | 119 | 5.3 | 5 | 1.8 | 30820 | 7.3 | 14740 | 46 | 0.6 |
| 02- | 65.7944- | 164.5264- | 2- | 12- | | 0-402737 | 77430 | -0.13 | 763 | 11430 | 75 | 364 | 23.0 | 130 | 5.0 | 6 | 1.5 | 31760 | 6.1 | 12900 | 40 | 0.5 |
| 02- | 65.5625- | 164.4167- | 2- | 12- | | 0-402742 | 55210 | -0.14 | 661 | 26240 | 34 | -115 | 15.8 | 54 | -3.1 | 4 | 1.0 | 23840 | 4.7 | 10590 | -29 | -0.3 |
| 02- | 65.5292- | 164.1847- | 2- | 12- | | 0-402743 | 52220 | -0.08 | 460 | 20430 | 67 | -100 | 19.6 | 113 | 3.2 | 4 | 1.3 | 24370 | 7.4 | 8325 | 36 | 0.5 |
| 02- | 65.5708- | 164.1889- | 2- | 12- | | 0-402745 | 55580 | -0.10 | 635 | 9408 | 58 | 139 | 12.2 | 73 | 3.6 | 5 | 1.1 | 17840 | 4.8 | 10060 | 41 | 0.5 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02-66.0283-165.4467-2-13- | 0-402656 | 20840 | 337 | 12630 | 36 | -2 | 10.0 | 4.7 | -331 | -1 | | 6.8 | 4371 | 81 | 3.4 | 81 | 0.338 |
| 02-66.0375-165.5639-2-13- | 0-402657 | 24550 | 490 | 9333 | 90 | -4 | 20.2 | 7.4 | -527 | -2 | -1 | 14.5 | 4921 | 116 | 5.4 | 221 | 0.186 |
| 02-66.0261-165.8567-2-13- | 0-402660 | 15760 | 355 | 12770 | 28 | -1 | 11.6 | 6.2 | -264 | 1 | | 10.2 | 4841 | 76 | 4.5 | 112 | 0.235 |
| 02-66.0283-165.9517-2-13- | 0-402661 | 16410 | 357 | 12030 | 45 | -2 | 12.0 | 5.0 | -379 | -1 | | 7.7 | 5504 | 100 | 3.8 | 112 | 0.312 |
| 02-66.2389-165.5417-2-13- | 0-402670 | 13400 | 337 | 11400 | | | | | -358 | | | | 4080 | 64 | | | |
| 02-66.2767-165.5361-2-13- | 0-402671 | 21290 | 276 | 11110 | -45 | -4 | 13.8 | 5.0 | -361 | -2 | -1 | 7.6 | 4738 | 96 | 5.1 | 205 | 0.316 |
| 02-66.3208-165.5533-2-13- | 0-402678 | 15860 | 285 | 11280 | -27 | -2 | 11.8 | 7.0 | -332 | -1 | 1 | 10.0 | 4749 | 91 | 4.4 | 139 | 0.250 |
| 02-66.3375-165.4461-2-13- | 0-402680 | 10800 | 225 | 8930 | | | | | -262 | | | | 2930 | 49 | | | |
| 02-66.2750-165.4467-2-13- | 0-402681 | 14460 | 296 | 11850 | -30 | -3 | 14.8 | 7.7 | -367 | -1 | -1 | 13.0 | 4629 | 91 | 5.7 | 202 | 0.200 |
| 02-66.2500-165.4244-2-13- | 0-402682 | 16080 | 372 | 9496 | -50 | -4 | 13.9 | 3.8 | -417 | -2 | -1 | 7.3 | 4235 | 100 | -3.5 | 211 | 0.329 |
| 02-66.2117-165.2997-2-13- | 0-402684 | 11770 | 331 | 9719 | 39 | -3 | 12.9 | 6.4 | -359 | -1 | | 10.1 | 4513 | 100 | 4.2 | -53 | 0.218 |
| 02-66.1650-165.2606-2-13- | 0-402685 | 16230 | 402 | 10470 | 53 | -3 | 13.7 | 5.8 | -416 | -1 | -1 | 9.1 | 5610 | 114 | 4.4 | 136 | 0.286 |
| 02-66.0483-165.0464-2-13- | 0-402687 | 12400 | 354 | 9300 | | | | | -367 | | | | 3880 | 68 | | | |
| 02-66.0125-164.9375-2-13- | 0-402688 | 16750 | 368 | 11980 | -31 | -3 | 11.7 | 4.1 | -308 | -1 | -1 | 7.0 | 5066 | 92 | -2.0 | 107 | 0.371 |
| 02-66.0028-164.8083-2-13- | 0-402689 | 13600 | 325 | 12310 | 28 | -1 | 10.0 | 6.1 | -259 | | | 9.0 | 4622 | 69 | 4.5 | 94 | 0.256 |
| 02-65.9306-164.6667-2-12- | 0-402691 | 19200 | 949 | 9271 | 35 | -2 | 11.9 | 5.2 | -462 | | | 10.1 | 6775 | 92 | 4.7 | 122 | 0.337 |
| 02-65.9153-164.7083-2-12- | 0-402692 | 16300 | 929 | 9150 | 41 | -2 | 13.9 | 7.0 | -453 | | -1 | 11.6 | 5210 | 62 | 5.8 | 176 | 0.284 |
| 02-65.5639-164.5597-2-15- | 0-402700 | 28620 | 903 | 7478 | 82 | -3 | 14.9 | 7.4 | -418 | -1 | | 14.8 | 5427 | 106 | 5.1 | -49 | 0.216 |
| 02-65.6583-164.3361-2-12- | 0-402705 | 18070 | 352 | 10540 | 64 | -3 | 17.3 | 7.1 | -368 | -1 | -1 | 11.9 | 5413 | 115 | 5.0 | 137 | 0.235 |
| 02-65.6422-164.3472-2-12- | 0-402706 | 22700 | 366 | 10850 | -35 | -3 | 15.5 | 5.1 | -453 | -1 | -1 | 8.9 | 6357 | 108 | 5.0 | -49 | 0.315 |
| 02-65.5972-164.2792-2-12- | 0-402707 | 20590 | 372 | 10610 | -40 | -4 | 20.2 | 9.1 | -465 | -1 | -1 | 15.3 | 4789 | 118 | 8.2 | -47 | 0.163 |
| 02-65.6611-164.2222-2-12- | 0-402708 | 23910 | 496 | 9881 | -37 | -3 | 11.5 | 4.0 | -376 | -8 | -1 | 10.5 | 5631 | 82 | -2.5 | -327 | 0.248 |
| 02-65.6319-164.1833-2-12- | 0-402709 | 19290 | 510 | 11250 | 39 | -2 | 12.2 | 6.2 | -334 | | | 9.7 | 6406 | 79 | 4.4 | 138 | 0.258 |
| 02-65.6639-164.1281-2-12- | 0-402710 | 19130 | 385 | 10840 | -37 | -3 | 15.8 | 5.7 | -461 | -1 | -1 | 9.5 | 5237 | 120 | 3.1 | 154 | 0.295 |
| 02-65.6389-164.0917-2-13- | 0-402711 | 15900 | 426 | 11980 | -36 | -3 | 17.3 | 8.0 | -455 | -1 | | 12.6 | 6011 | 113 | 6.6 | 187 | 0.238 |
| 02-65.6431-164.0278-2-12- | 0-402712 | 16370 | 472 | 7987 | -57 | -5 | 14.7 | 4.5 | -481 | -2 | -1 | 9.5 | 4173 | 118 | -4.1 | 193 | 0.295 |
| 02-65.6583-163.9472-2-15- | 0-402713 | 10300 | 344 | 5850 | 45 | -3 | 17.2 | 6.6 | -350 | -1 | | 13.2 | 2380 | 59 | 5.5 | 179 | 0.205 |
| 02-65.6819-163.9847-2-12- | 0-402714 | 18530 | 524 | 10270 | -35 | -3 | 14.2 | 5.3 | -473 | -1 | | 9.2 | 5513 | 106 | 4.6 | -108 | 0.304 |
| 02-65.6806-163.7903-2-12- | 0-402715 | 17890 | 352 | 8496 | -44 | -4 | 18.8 | 7.1 | -481 | -1 | -1 | 12.1 | 4642 | 127 | 5.2 | -87 | 0.207 |
| 02-65.6861-163.6833-2-12- | 0-402716 | 18700 | 426 | 10300 | -97 | -6 | 7.3 | 3.1 | -581 | -3 | -2 | 3.8 | 4400 | 105 | -4.9 | 293 | 0.237 |
| 02-65.6931-163.6417-2-13- | 0-402717 | 13950 | 330 | 10440 | 56 | -3 | 16.0 | 6.5 | -359 | | -1 | 11.2 | 5298 | 104 | 4.3 | 164 | 0.232 |
| 02-65.7069-163.6125-2-13- | 0-402718 | 16630 | 285 | 9311 | -40 | -4 | 11.7 | 4.4 | -506 | -1 | -1 | 7.8 | 4976 | 87 | -2.9 | 157 | 0.269 |
| 02-65.7167-163.7014-2-12- | 0-402719 | 18170 | 358 | 8646 | -45 | -4 | 18.2 | 7.3 | -472 | -1 | -1 | 11.1 | 4413 | 122 | 5.2 | 253 | 0.225 |
| 02-65.7153-163.7861-2-13- | 0-402720 | 29400 | 670 | 16300 | -81 | -8 | 16.5 | -2.2 | -884 | -3 | -2 | 8.5 | 6480 | 157 | -5.9 | 420 | 0.341 |
| 02-65.7417-163.7444-2-12- | 0-402721 | 18770 | 325 | 10080 | -34 | -3 | 13.3 | 7.1 | -392 | -1 | | 12.8 | 5482 | 96 | 4.6 | 200 | 0.211 |
| 02-65.7450-163.8264-2-12- | 0-402722 | 19630 | 375 | 11220 | -29 | -3 | 13.6 | 5.3 | -412 | -1 | | 10.0 | 5130 | 101 | 3.4 | 138 | 0.270 |
| 02-65.7417-163.8931-2-12- | 0-402723 | 26110 | 374 | 9434 | -31 | -3 | 16.8 | 7.7 | -405 | -1 | | 11.8 | 5177 | 89 | 5.1 | -47 | 0.220 |
| 02-65.7083-163.9167-2-15- | 0-402724 | | | | | | | | | | | | | | | | |
| 02-65.7278-164.0972-2-13- | 0-402725 | 19300 | 497 | 12200 | 53 | -2 | 15.9 | 7.2 | -364 | | | 11.7 | 5040 | 105 | 4.7 | 163 | 0.214 |
| 02-65.7167-164.0472-2-13- | 0-402726 | 16550 | 378 | 11240 | -29 | -3 | 13.9 | 5.7 | -421 | -1 | -1 | 9.5 | 6367 | 108 | 4.5 | 135 | 0.305 |
| 02-65.7444-164.1139-2-12- | 0-402727 | 24900 | 641 | 10190 | 72 | -4 | 20.9 | 8.4 | -515 | -1 | | 13.2 | 5477 | 107 | 6.4 | 189 | 0.189 |
| 02-65.7472-164.0097-2-12- | 0-402728 | 18660 | 370 | 10300 | -47 | -4 | 14.0 | 5.5 | -393 | -17 | -1 | 8.1 | 5281 | 103 | 3.5 | -662 | 0.321 |
| 02-65.7278-164.1708-2-12- | 0-402729 | 19280 | 519 | 19150 | -40 | -1 | 18.2 | 8.8 | -447 | -2 | -1 | 13.1 | 5440 | 108 | 6.0 | 274 | 0.198 |
| 02-65.7208-164.3194-2-15- | 0-402730 | 19850 | 1217 | 6990 | -26 | -2 | 12.0 | 5.0 | -397 | -5 | | 8.2 | 4297 | 123 | 3.3 | 167 | 0.256 |
| 02-65.7544-164.2389-2-15- | 0-402731 | 27900 | 816 | 8820 | 56 | -3 | 19.2 | 8.9 | -429 | -6 | | 13.5 | 6109 | 130 | 6.9 | 174 | 0.200 |
| 02-65.7708-164.3250-2-15- | 0-402732 | 18120 | 790 | 7584 | -56 | -4 | 10.9 | 2.8 | -596 | -2 | -1 | 7.6 | 4447 | 102 | -3.8 | 237 | 0.303 |
| 02-65.7875-164.4333-2-12- | 0-402735 | 17070 | 394 | 10080 | 53 | -3 | 16.2 | 7.6 | -375 | -1 | | 13.2 | 5862 | 135 | 4.3 | 134 | 0.205 |
| 02-65.7944-164.5264-2-12- | 0-402737 | 19500 | 503 | 9815 | -45 | -4 | 16.6 | 5.7 | -425 | -2 | -1 | 9.6 | 7532 | 157 | 3.0 | 187 | 0.271 |
| 02-65.5625-164.4167-2-12- | 0-402742 | 24940 | 654 | 8668 | -49 | -4 | 10.3 | 2.4 | -501 | -2 | -1 | 6.5 | 3955 | 97 | -3.3 | 220 | 0.308 |
| 02-65.5292-164.1847-2-12- | 0-402743 | 19000 | 769 | 9054 | 57 | -2 | 12.2 | 5.7 | -435 | -1 | -1 | 9.8 | 5389 | 101 | 3.7 | 126 | 0.235 |
| 02-65.5708-164.1889-2-12- | 0-402745 | 15340 | 276 | 10630 | -37 | -3 | 9.8 | 4.8 | -351 | -6 | -1 | 7.3 | 5007 | 101 | 3.7 | -110 | 0.329 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 65.5611- | 164.0444- | 2- | 13- | 0- | 402746- | 07/28/76- | 20- | 16- | 12.7- | - | - | 6.6- | 105- | 9- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -2- | - | - | - | - | 2.70 |
| 02- | 65.5744- | 164.0931- | 2- | 13- | 0- | 402747- | 07/28/76- | 20- | 17- | 11.8- | - | - | 6.8- | 29- | 6- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -2- | - | - | - | - | 1.40 |
| 02- | 65.5819- | 163.9528- | 2- | 13- | 0- | 402748- | 07/28/76- | 20- | 17- | 12.7- | - | - | 6.9- | 60- | 6- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 65.5778- | 163.9722- | 2- | 13- | 0- | 402749- | 07/28/76- | 20- | 18- | 11.3- | - | - | 7.4- | 90- | 6- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 65.6333- | 163.8444- | 2- | 15- | 0- | 402750- | 07/28/76- | 20- | 16- | - | - | - | - | - | 3- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 0.60 |
| 02- | 65.6228- | 163.8861- | 2- | 12- | 0- | 402751- | 07/28/76- | 20- | 17- | 11.1- | - | - | 7.5- | 40- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 65.5947- | 163.8000- | 2- | 13- | 0- | 402752- | 07/28/76- | 20- | 18- | 15.9- | - | - | 8.3- | 52- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 65.6031- | 163.7222- | 2- | 13- | 0- | 402753- | 07/28/76- | 20- | 18- | 16.0- | - | - | 8.0- | 31- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.6278- | 163.6222- | 2- | 13- | 0- | 402755- | 07/28/76- | 20- | 16- | 12.7- | - | - | 7.6- | 85- | 9- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.6589- | 163.5819- | 2- | 12- | 0- | 402756- | 07/28/76- | 20- | 17- | 13.3- | - | - | 7.8- | 50- | 0- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 65.6575- | 163.5000- | 2- | 12- | 0- | 402757- | 07/28/76- | 20- | 18- | 12.9- | - | - | 7.5- | 60- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.7028- | 163.5000- | 2- | 13- | 0- | 402758- | 07/28/76- | 20- | 17- | 15.2- | - | - | 8.0- | 23- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 65.6911- | 163.4194- | 2- | 12- | 0- | 402759- | 07/28/76- | 21- | 16- | 13.4- | - | - | 7.9- | 50- | 16- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 65.7069- | 163.4167- | 2- | 12- | 0- | 402760- | 07/28/76- | 21- | 16- | 13.0- | - | - | 8.2- | 30- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 65.7333- | 163.2222- | 2- | 13- | 0- | 402762- | 07/28/76- | 21- | 16- | 13.1- | - | - | 7.4- | 53- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 65.7472- | 163.2986- | 2- | 12- | 0- | 402763- | 07/28/76- | 21- | 16- | 12.1- | - | - | 7.6- | 410- | 19- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.40 |
| 02- | 65.7625- | 163.3514- | 2- | 12- | 0- | 402764- | 07/28/76- | 21- | 16- | 13.0- | - | - | 6.9- | 450- | 13- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.10 |
| 02- | 65.6861- | 163.3014- | 2- | 13- | 0- | 402765- | 07/28/76- | 21- | 17- | 13.2- | - | - | 8.0- | 25- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 1.60 |
| 02- | 65.6519- | 163.3250- | 2- | 13- | 0- | 402766- | 07/28/76- | 21- | 16- | 13.0- | - | - | 7.4- | 17- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 1.90 |
| 02- | 65.6361- | 163.4250- | 2- | 12- | 0- | 402767- | 07/28/76- | 21- | 16- | 14.1- | - | - | 7.7- | 50- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.60 |
| 02- | 65.6222- | 163.5250- | 2- | 12- | 0- | 402768- | 07/28/76- | 21- | 15- | 11.7- | - | - | 7.3- | 31- | 9- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.80 |
| 02- | 65.6042- | 163.5222- | 2- | 12- | 0- | 402769- | 07/28/76- | 21- | 16- | 11.0- | - | - | 7.8- | 90- | 0- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 3.20 |
| 02- | 65.5769- | 163.6208- | 2- | 12- | 0- | 402770- | 07/28/76- | 21- | 17- | 14.3- | - | - | 8.1- | 31- | 3- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.50 |
| 02- | 65.5919- | 163.6628- | 2- | 12- | 0- | 402771- | 07/28/76- | 21- | 17- | 13.2- | - | - | 7.8- | 46- | 3- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.50 |
| 02- | 65.5614- | 163.6583- | 2- | 13- | 0- | 402772- | 07/28/76- | 22- | 16- | 13.8- | - | - | 8.0- | 46- | 0- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.40 |
| 02- | 65.5514- | 163.7917- | 2- | 13- | 0- | 402773- | 07/28/76- | 22- | 17- | 12.3- | - | - | 7.8- | 25- | 13- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.20 |
| 02- | 65.5167- | 163.8028- | 2- | 13- | 0- | 402774- | 07/28/76- | 22- | 16- | 14.3- | - | - | 8.3- | 50- | 13- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.50 |
| 02- | 65.5319- | 163.8931- | 2- | 12- | 0- | 402775- | 07/28/76- | 22- | 15- | 12.1- | - | - | 8.0- | 70- | 13- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 4- | -1- | - | - | - | - | 3.50 |
| 02- | 65.5153- | 163.9458- | 2- | 13- | 0- | 402776- | 07/28/76- | 22- | 15- | 14.7- | - | - | 8.4- | 120- | 6- | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 4- | -1- | - | - | - | - | 3.60 |
| 02- | 65.5042- | 163.9889- | 2- | 13- | 0- | 402777- | 07/28/76- | 22- | 15- | 15.6- | - | - | 7.2- | 38- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 4- | -1- | - | - | - | - | 2.70 |
| 02- | 65.5042- | 164.1333- | 2- | 13- | 0- | 402778- | 07/28/76- | 22- | 15- | 14.4- | - | - | 7.1- | 34- | - | 3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 4- | -1- | - | - | - | - | 3.00 |
| 02- | 65.8839- | 164.6500- | 2- | 12- | 0- | 402779- | 07/29/76- | 12- | 15- | 10.6- | - | - | 8.0- | 55- | 26- | 3- | 7- | 4- | 6- | 3- | 2- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 3.70 |
| 02- | 65.8333- | 164.6361- | 2- | 12- | 0- | 402780- | 07/29/76- | 12- | 15- | - | - | - | 7.4- | 2200- | 19- | 3- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 3.80 |
| 02- | 65.8861- | 164.7333- | 2- | 12- | 0- | 402781- | 07/29/76- | 13- | 11- | 10.8- | - | - | 7.2- | 85- | 13- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 30.40 |
| 02- | 65.8875- | 164.7778- | 2- | 12- | 0- | 402782- | 07/29/76- | 13- | 11- | 10.8- | - | - | 7.2- | 60- | 9- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 79.30 |
| 02- | 65.9708- | 164.6944- | 2- | 12- | 0- | 402783- | 07/29/76- | 13- | 10- | 10.6- | - | - | 7.4- | 85- | 23- | 2- | 7- | 5- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 3.10 |
| 02- | 65.9806- | 164.6486- | 2- | 12- | 0- | 402784- | 07/29/76- | 13- | 9- | 9.8- | - | - | 7.2- | 55- | 19- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 4.20 |
| 02- | 66.0139- | 164.7361- | 2- | 13- | 0- | 402785- | 07/29/76- | 13- | 8- | 14.1- | - | -S- | 8.1- | 3- | - | 2- | 7- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 2.20 |
| 02- | 66.0556- | 164.7375- | 2- | 12- | 0- | 402786- | 07/29/76- | 13- | 8- | 11.0- | - | - | 7.4- | 45- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 3.40 |
| 02- | 66.0472- | 164.7778- | 2- | 12- | 0- | 402787- | 07/29/76- | 13- | 10- | 11.2- | - | - | 8.0- | 50- | 6- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 3.70 |
| 02- | 66.0972- | 164.8875- | 2- | 13- | 0- | 402788- | 07/29/76- | 14- | 8- | 14.9- | - | -S- | 7.3- | 54- | - | 2- | 7- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 2.50 |
| 02- | 66.1264- | 165.0083- | 2- | 13- | 0- | 402789- | 07/29/76- | 14- | 9- | 14.7- | - | -S- | 7.1- | 152- | - | 2- | 7- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 2.70 |
| 02- | 66.1444- | 165.0736- | 2- | 12- | 0- | 402790- | 07/29/76- | 14- | 9- | 10.8- | - | - | 7.0- | 65- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 3.00 |
| 02- | 66.1944- | 165.1556- | 2- | 13- | 0- | 402792- | 07/29/76- | 14- | 9- | 14.8- | - | -S- | 7.8- | 3- | - | 2- | 7- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 2.70 |
| 02- | 66.2056- | 165.2542- | 2- | 13- | 0- | 402793- | 07/29/76- | 14- | 10- | 14.5- | - | -S- | 8.2- | 22- | - | 2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 2.70 |
| 02- | 66.2419- | 165.3111- | 2- | 13- | 0- | 402794- | 07/29/76- | 14- | 10- | 14.4- | - | -S- | 7.4- | 35- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 2.10 |
| 02- | 66.2875- | 165.3278- | 2- | 13- | 0- | 402795- | 07/29/76- | 14- | 10- | 14.2- | - | -S- | 7.4- | 55- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 2.20 |
| 02- | 66.3167- | 165.3694- | 2- | 12- | 0- | 402796- | 07/29/76- | 14- | 9- | 11.0- | - | - | 7.6- | 60- | 13- | 7- | 2- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 1.70 |
| 02- | 66.3486- | 165.3417- | 2- | 12- | 0- | 402797- | 07/29/76- | 14- | 10- | 10.8- | - | - | 7.2- | 60- | 6- | 7- | 2- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 2.50 |
| 02- | 66.4028- | 165.2833- | 2- | 13- | 0- | 402798- | 07/29/76- | 14- | 10- | 14.3- | - | -S- | 7.4- | 80- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 1.90 |
| 02- | 66.3889- | 165.1806- | 2- | 13- | 0- | 402799- | 07/29/76- | 14- | 10- | 14.5- | - | -S- | 7.6- | 47- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 1.50 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER (STATE-LATITUDE-LONGITUDE-DOE LAB-SAMPLE TYPE-REPLICATE) | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02-65.5611-164.0444-2-13- | 0-402746 | | | | | | | | | | 1 | 17 |
| 02-65.5744-164.0931-2-13- | 0-402747 | | | | | | | | | | -1 | 5 |
| 02-65.5819-163.9528-2-13- | 0-402748 | -5 | -5 | -5 | 27 | 31 | 24 | -5 | -10 | -15 | 1 | 30 |
| 02-65.5778-163.9722-2-13- | 0-402749 | -5 | -5 | -5 | -10 | -20 | -15 | -5 | -10 | -15 | 1 | 18 |
| 02-65.6333-163.8444-2-15- | 0-402750 | -5 | -5 | 27 | -10 | -20 | -15 | -5 | -10 | -15 | -1 | 2 |
| 02-65.6228-163.8861-2-12- | 0-402751 | -5 | -5 | -5 | 23 | -20 | 39 | -5 | -10 | -15 | 1 | 16 |
| 02-65.5947-163.8000-2-13- | 0-402752 | -5 | -5 | -5 | 28 | -20 | 34 | -5 | -10 | -15 | 2 | 14 |
| 02-65.6031-163.7222-2-13- | 0-402753 | -5 | -5 | -5 | 32 | 25 | 27 | -5 | -10 | -15 | 2 | 25 |
| 02-65.6278-163.6222-2-13- | 0-402755 | -5 | -5 | -5 | 18 | 28 | 32 | 6 | -10 | -15 | 1 | 25 |
| 02-65.6589-163.5819-2-12- | 0-402756 | | | | | | | | | | 1 | 16 |
| 02-65.6575-163.5000-2-12- | 0-402757 | -5 | -5 | -5 | 16 | 51 | 20 | -5 | -10 | -15 | 2 | 19 |
| 02-65.7028-163.5000-2-13- | 0-402758 | -5 | -5 | -5 | 33 | -20 | 40 | -5 | -10 | -15 | 2 | 11 |
| 02-65.6911-163.4194-2-12- | 0-402759 | | | | | | | | | | -1 | 23 |
| 02-65.7069-163.4167-2-12- | 0-402760 | | | | | | | | | | -1 | 20 |
| 02-65.7333-163.2222-2-13- | 0-402762 | -5 | -5 | -5 | 35 | -20 | 49 | 5 | -10 | -15 | -1 | 10 |
| 02-65.7472-163.2986-2-12- | 0-402763 | -5 | -5 | -5 | 42 | 31 | 51 | 9 | -10 | -15 | 2 | 41 |
| 02-65.7625-163.3514-2-12- | 0-402764 | -5 | -5 | -5 | 31 | -20 | 37 | 10 | -10 | -15 | -1 | 50 |
| 02-65.6861-163.3014-2-13- | 0-402765 | | | | | | | | | | -1 | 6 |
| 02-65.6519-163.3250-2-13- | 0-402766 | | | | | | | | | | -1 | 8 |
| 02-65.6361-163.4250-2-12- | 0-402767 | -5 | -5 | -5 | 31 | 24 | 32 | 5 | -10 | -15 | 2 | 27 |
| 02-65.6222-163.5250-2-12- | 0-402768 | -5 | -5 | -5 | 23 | -20 | 26 | 8 | -10 | -15 | -1 | 11 |
| 02-65.6042-163.5222-2-12- | 0-402769 | -5 | -5 | -5 | 31 | 27 | 19 | 6 | -10 | -15 | 2 | 28 |
| 02-65.5769-163.6208-2-12- | 0-402770 | -5 | -5 | -5 | 26 | 49 | 26 | -5 | -10 | -15 | 2 | 23 |
| 02-65.5919-163.6628-2-12- | 0-402771 | -5 | -5 | 6 | 29 | -20 | 33 | 11 | -10 | -15 | -1 | 7 |
| 02-65.5614-163.6583-2-13- | 0-402772 | -5 | -5 | 5 | 20 | 24 | 19 | -5 | -10 | -15 | 1 | 26 |
| 02-65.5514-163.7917-2-13- | 0-402773 | | | | | | | | | | -1 | 22 |
| 02-65.5167-163.8028-2-13- | 0-402774 | -5 | -5 | -5 | 16 | 20 | 23 | -5 | -10 | -15 | -1 | 15 |
| 02-65.5319-163.8931-2-12- | 0-402775 | -5 | -5 | -5 | 32 | 22 | 36 | 5 | -10 | -15 | -1 | 32 |
| 02-65.5153-163.9458-2-13- | 0-402776 | -5 | -5 | -5 | 22 | 33 | 42 | -5 | -10 | -15 | 2 | 25 |
| 02-65.5042-163.9889-2-13- | 0-402777 | | | | | | | | | | 1 | 18 |
| 02-65.5042-164.1333-2-13- | 0-402778 | -5 | -5 | -5 | 38 | -20 | 39 | 9 | -10 | -15 | 1 | 16 |
| 02-65.8839-164.6500-2-12- | 0-402779 | -5 | -5 | -5 | 15 | 22 | 15 | -5 | -10 | -15 | 2 | 13 |
| 02-65.8333-164.6361-2-12- | 0-402780 | -5 | -5 | -5 | 14 | -20 | 38 | -5 | -10 | -15 | 2 | 24 |
| 02-65.8861-164.7333-2-12- | 0-402781 | | | | | | | | | | 6 | 60 |
| 02-65.8875-164.7778-2-12- | 0-402782 | | | | | | | | | | 6 | 87 |
| 02-65.9708-164.6944-2-12- | 0-402783 | -5 | -5 | -5 | 12 | 27 | -15 | -5 | -10 | -15 | 2 | 26 |
| 02-65.9806-164.6486-2-12- | 0-402784 | -5 | -5 | -5 | 11 | -20 | 15 | 8 | -10 | -15 | 2 | 10 |
| 02-66.0139-164.7361-2-13- | 0-402785 | | | | | | | | | | 1 | 11 |
| 02-66.0556-164.7375-2-12- | 0-402786 | -5 | -5 | -5 | 12 | 49 | 21 | 5 | -10 | -15 | 2 | 26 |
| 02-66.0472-164.7778-2-12- | 0-402787 | -5 | -5 | 6 | -10 | -20 | 25 | 13 | -10 | -15 | 2 | 26 |
| 02-66.0972-164.8875-2-13- | 0-402788 | -5 | -5 | -5 | 32 | -20 | 34 | -5 | -10 | -15 | 1 | 17 |
| 02-66.1264-165.0083-2-13- | 0-402789 | -5 | -5 | -5 | 41 | -20 | 37 | 9 | -10 | -15 | 2 | 49 |
| 02-66.1444-165.0736-2-12- | 0-402790 | -5 | -5 | -5 | 11 | -20 | 83 | -5 | -10 | -15 | 2 | 26 |
| 02-66.1944-165.1556-2-13- | 0-402792 | | | | | | | | | | 1 | 24 |
| 02-66.2056-165.2542-2-13- | 0-402793 | -5 | -5 | -5 | 17 | 35 | 35 | -5 | -10 | -15 | 2 | 23 |
| 02-66.2419-165.3111-2-13- | 0-402794 | -5 | -5 | -5 | 27 | 34 | 27 | -5 | -10 | -15 | 2 | 16 |
| 02-66.2875-165.3278-2-13- | 0-402795 | -5 | -5 | -5 | 36 | 33 | 34 | -5 | -10 | -15 | -1 | 8 |
| 02-66.3167-165.3694-2-12- | 0-402796 | -5 | -5 | -5 | -10 | 21 | -15 | -5 | -10 | -15 | 1 | 12 |
| 02-66.3486-165.3417-2-12- | 0-402797 | -5 | -5 | -5 | 28 | 25 | 39 | -5 | -10 | -15 | 2 | 32 |
| 02-66.4028-165.2833-2-13- | 0-402798 | | | | | | | | | | -1 | 10 |
| 02-66.3889-165.1806-2-13- | 0-402799 | | | | | | | | | | -1 | 8 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 65.5611- | 164.0444- | 2- | 13- | 0- | 402746 | 61740 | -0.17 | 860 | 18390 | 99 | 190 | 31.3 | 131 | 6.2 | 7 | 1.9 | 39370 | 8.8 | 11120 | 42 | 0.8 |
| 02- | 65.5744- | 164.0931- | 2- | 13- | 0- | 402747 | | | | | | | | | | | | | | | | |
| 02- | 65.5819- | 163.9528- | 2- | 13- | 0- | 402748 | 68270 | -0.10 | 616 | 10910 | 83 | 291 | 20.8 | 96 | 3.5 | 5 | 1.8 | 27220 | 7.6 | 14320 | 39 | 0.5 |
| 02- | 65.5778- | 163.9722- | 2- | 13- | 0- | 402749 | 40090 | -0.05 | 581 | 7825 | 50 | -71 | 5.6 | 72 | -1.1 | 4 | 0.7 | 9622 | 7.3 | 6002 | 29 | 1.0 |
| 02- | 65.6333- | 163.8444- | 2- | 15- | 0- | 402750 | 16570 | -0.17 | 407 | -1476 | 44 | 396 | 23.4 | 44 | -3.9 | 3 | 1.2 | 180000 | -2.4 | -2862 | -34 | 0.4 |
| 02- | 65.6228- | 163.8861- | 2- | 12- | 0- | 402751 | 62050 | -0.10 | 679 | 9105 | 65 | -98 | 12.6 | 96 | 4.0 | 6 | 1.6 | 24650 | 8.5 | 12650 | 29 | 0.5 |
| 02- | 65.5947- | 163.8000- | 2- | 13- | 0- | 402752 | 67600 | -0.09 | 702 | 8009 | 82 | 136 | 17.8 | 118 | 4.3 | 6 | 1.7 | 26950 | 7.6 | 13040 | 41 | 0.6 |
| 02- | 65.6031- | 163.7222- | 2- | 13- | 0- | 402753 | 73680 | -0.10 | 806 | 7762 | 71 | 127 | 17.1 | 102 | 4.5 | 6 | 1.6 | 25440 | 5.3 | 12710 | 42 | 0.5 |
| 02- | 65.6278- | 163.6222- | 2- | 13- | 0- | 402755 | 69980 | -0.13 | 591 | 18010 | 95 | -110 | 32.6 | 227 | 4.1 | 5 | 2.2 | 43820 | 9.7 | 9461 | 49 | 0.8 |
| 02- | 65.6589- | 163.5819- | 2- | 12- | 0- | 402756 | 67960 | -0.14 | 577 | 12720 | 51 | 148 | 40.1 | 151 | 4.0 | 6 | 1.4 | 39310 | 6.3 | 7818 | 41 | 0.7 |
| 02- | 65.6575- | 163.5000- | 2- | 12- | 0- | 402757 | 65070 | -0.10 | 800 | 9105 | 84 | -133 | 40.7 | 168 | 4.0 | 5 | 1.8 | 38540 | 8.9 | 9484 | 43 | 0.6 |
| 02- | 65.7028- | 163.5000- | 2- | 13- | 0- | 402758 | 78670 | 0.30 | 760 | 6989 | 84 | 173 | 15.1 | 97 | 5.7 | 5 | 1.4 | 28650 | 5.4 | 14210 | 49 | 0.4 |
| 02- | 65.6911- | 163.4194- | 2- | 12- | 0- | 402759 | | -0.18 | | | 136 | | 30.4 | 158 | 4.8 | | 2.4 | 43380 | 9.1 | | 40 | 0.7 |
| 02- | 65.7069- | 163.4167- | 2- | 12- | 0- | 402760 | | -0.15 | | | 60 | | 20.6 | 97 | -3.4 | | 1.9 | 31620 | 5.7 | | | 0.5 |
| 02- | 65.7333- | 163.2222- | 2- | 13- | 0- | 402762 | | -0.11 | | | 78 | | 22.1 | 133 | 4.7 | | 1.8 | 28830 | 5.7 | | 37 | 0.5 |
| 02- | 65.7472- | 163.2986- | 2- | 12- | 0- | 402763 | 54330 | -0.10 | 599 | 7812 | 94 | -103 | 23.7 | 112 | 11.0 | 6 | 1.9 | 35170 | 7.6 | 15860 | 47 | 0.7 |
| 02- | 65.7625- | 163.3514- | 2- | 12- | 0- | 402764 | 37480 | -0.08 | 470 | 46310 | 67 | -77 | 13.5 | 68 | 4.0 | 6 | 1.3 | 15940 | 6.1 | 13730 | 37 | 0.4 |
| 02- | 65.6861- | 163.3014- | 2- | 13- | 0- | 402765 | 40800 | -0.15 | 486 | 6649 | 64 | 376 | 18.9 | 78 | 4.3 | 5 | 1.3 | 21560 | 4.7 | 8445 | 33 | 0.7 |
| 02- | 65.6519- | 163.3250- | 2- | 13- | 0- | 402766 | 40120 | -0.25 | -430 | -2237 | -23 | 366 | 55.2 | 128 | -5.6 | -3 | 1.6 | 55050 | -4.1 | -6658 | -51 | 0.9 |
| 02- | 65.6361- | 163.4250- | 2- | 12- | 0- | 402767 | 54240 | -0.10 | 724 | 8333 | 78 | 196 | 24.2 | 140 | 4.4 | 6 | 1.7 | 33130 | 8.4 | 9879 | 53 | 0.6 |
| 02- | 65.6222- | 163.5250- | 2- | 12- | 0- | 402768 | 67900 | -0.04 | 616 | 10300 | 69 | 204 | 12.2 | 104 | 3.4 | 6 | 1.6 | 27080 | 6.0 | 10700 | 35 | 0.5 |
| 02- | 65.6042- | 163.5222- | 2- | 12- | 0- | 402769 | 75700 | -0.04 | 849 | 6280 | 115 | 153 | 15.0 | 164 | 5.3 | 6 | 1.8 | 36340 | 8.2 | 12100 | 46 | 0.7 |
| 02- | 65.5769- | 163.6208- | 2- | 12- | 0- | 402770 | 81900 | -0.06 | 802 | -1350 | 63 | -119 | 15.6 | 125 | 5.3 | 4 | 1.4 | 33580 | 4.5 | 16300 | 35 | 0.5 |
| 02- | 65.5919- | 163.6628- | 2- | 12- | 0- | 402771 | 81500 | -0.05 | 944 | 5590 | 95 | 282 | 22.6 | 127 | 4.9 | 6 | 2.1 | 35480 | 5.3 | 14200 | 39 | 0.6 |
| 02- | 65.5614- | 163.6583- | 2- | 13- | 0- | 402772 | 54300 | -0.04 | 359 | 3660 | 72 | | 13.7 | 120 | 5.3 | 6 | 1.4 | 32340 | 8.7 | 11800 | 36 | 0.5 |
| 02- | 65.5514- | 163.7917- | 2- | 13- | 0- | 402773 | 73000 | -0.06 | 975 | 6120 | 88 | -119 | 20.0 | 121 | 7.4 | 5 | 1.9 | 28480 | 4.9 | 13200 | 35 | 0.6 |
| 02- | 65.5167- | 163.8028- | 2- | 13- | 0- | 402774 | 71300 | -0.07 | 961 | -1370 | 71 | -130 | 16.7 | 114 | -4.0 | 5 | 1.8 | 29380 | 5.4 | 13200 | 33 | 0.6 |
| 02- | 65.5319- | 163.8931- | 2- | 12- | 0- | 402775 | 66160 | -0.03 | 785 | 13930 | 104 | 180 | 18.0 | 114 | 4.5 | 8 | 1.9 | 28590 | 10.2 | 11830 | 50 | 0.8 |
| 02- | 65.5153- | 163.9458- | 2- | 13- | 0- | 402776 | 64290 | -0.03 | 855 | 11290 | 93 | 156 | 13.1 | 102 | 3.2 | 7 | 1.7 | 23850 | 8.8 | 9822 | 43 | 0.6 |
| 02- | 65.5042- | 163.9889- | 2- | 13- | 0- | 402777 | 71740 | -0.05 | 924 | 9691 | 104 | 323 | 24.5 | 168 | 5.0 | 7 | 2.1 | 33540 | 7.2 | 13930 | 43 | 0.8 |
| 02- | 65.5042- | 164.1333- | 2- | 13- | 0- | 402778 | 73390 | -0.04 | 932 | 7531 | 64 | -104 | 17.0 | 85 | 5.6 | 5 | 1.2 | 24750 | 5.0 | 13900 | 21 | 0.4 |
| 02- | 65.8839- | 164.6500- | 2- | 12- | 0- | 402779 | 62810 | -0.02 | 1073 | 6055 | 87 | -90 | 21.0 | 116 | 6.4 | 7 | 1.5 | 32700 | 10.1 | 10100 | 29 | 0.6 |
| 02- | 65.8333- | 164.6361- | 2- | 12- | 0- | 402780 | 52410 | -0.03 | 559 | 7099 | 82 | -82 | 12.3 | 108 | 3.8 | 7 | 1.5 | 21920 | 13.2 | 12790 | 43 | 0.6 |
| 02- | 65.8861- | 164.7333- | 2- | 12- | 0- | 402781 | 71420 | -0.05 | 555 | 12710 | 317 | -160 | 18.8 | 107 | 22.6 | 15 | 1.4 | 27220 | 59.5 | 12650 | 134 | 3.1 |
| 02- | 65.8875- | 164.7778- | 2- | 12- | 0- | 402782 | 67490 | -0.13 | -570 | 12610 | 191 | 3710 | 20.3 | 86 | 73.4 | 17 | -3.8 | 28130 | 72.7 | -9986 | 118 | 1.9 |
| 02- | 65.9708- | 164.6944- | 2- | 12- | 0- | 402783 | 61930 | -0.03 | 771 | 7030 | 65 | -90 | 12.5 | 94 | 4.2 | 6 | 1.3 | 32950 | 7.3 | 12830 | 35 | 0.5 |
| 02- | 65.9806- | 164.6486- | 2- | 12- | 0- | 402784 | 61530 | -0.03 | 774 | 6037 | 84 | -101 | 12.0 | 80 | 3.7 | 7 | 1.2 | 19420 | 17.0 | 17880 | 41 | 1.0 |
| 02- | 66.0139- | 164.7361- | 2- | 13- | 0- | 402785 | 53410 | -0.07 | 582 | 9477 | 40 | 263 | 19.1 | 86 | -4.1 | 4 | 1.8 | 23060 | -2.9 | 10270 | 25 | 0.4 |
| 02- | 66.0556- | 164.7375- | 2- | 12- | 0- | 402786 | 58660 | -0.03 | 957 | 6827 | 91 | -96 | 13.1 | 98 | 3.3 | 6 | 1.4 | 20030 | 11.5 | 19260 | 38 | 0.8 |
| 02- | 66.0472- | 164.7786- | 2- | 12- | 0- | 402787 | 59450 | -0.03 | 597 | 8544 | 78 | -95 | 12.6 | 87 | 3.0 | 6 | 1.1 | 22250 | 11.5 | 13000 | 36 | 0.7 |
| 02- | 66.0972- | 164.8875- | 2- | 13- | 0- | 402788 | 70530 | -0.05 | 845 | 8413 | 105 | 188 | 21.1 | 139 | 5.8 | 5 | 2.1 | 32030 | 6.5 | 12650 | 44 | 0.6 |
| 02- | 66.1264- | 165.0083- | 2- | 13- | 0- | 402789 | 77040 | -0.05 | 965 | 9571 | 56 | 212 | 20.2 | 87 | 6.0 | 5 | 1.6 | 27270 | 4.3 | 17040 | 32 | 0.5 |
| 02- | 66.1444- | 165.0736- | 2- | 12- | 0- | 402790 | 51670 | -0.03 | 567 | 8922 | 88 | -91 | 17.6 | 156 | 3.5 | 6 | 1.6 | 23010 | 11.5 | 12080 | 44 | 0.7 |
| 02- | 66.1944- | 165.1556- | 2- | 13- | 0- | 402792 | 68790 | -0.05 | 888 | 10110 | 71 | 344 | 18.4 | 105 | 3.8 | 5 | 1.3 | 26290 | 5.0 | 13270 | 34 | 0.4 |
| 02- | 66.2056- | 165.2542- | 2- | 13- | 0- | 402793 | 53770 | -0.03 | 589 | 9572 | 103 | -95 | 15.9 | 181 | 3.3 | 6 | 2.2 | 22510 | 11.3 | 9705 | 47 | 0.7 |
| 02- | 66.2419- | 165.3111- | 2- | 13- | 0- | 402794 | 51730 | -0.04 | 613 | 38130 | 66 | -96 | 12.3 | 61 | -2.3 | 5 | 1.2 | 20500 | 6.0 | 9531 | 32 | 0.3 |
| 02- | 66.2875- | 165.3278- | 2- | 13- | 0- | 402795 | 58000 | -0.05 | 670 | 8521 | 70 | 590 | 19.7 | 130 | 5.2 | 5 | 1.6 | 26530 | 5.4 | 14610 | 29 | 0.4 |
| 02- | 66.3167- | 165.3694- | 2- | 12- | 0- | 402796 | 31230 | -0.02 | 269 | 11440 | 44 | -66 | 7.8 | 504 | -1.1 | 4 | 0.9 | 12140 | 7.6 | 4559 | 25 | 0.4 |
| 02- | 66.3486- | 165.3417- | 2- | 12- | 0- | 402797 | 57330 | -0.04 | 826 | 12260 | 94 | -89 | 17.1 | 121 | 4.8 | 6 | 1.7 | 25080 | 7.6 | 10670 | 41 | 0.7 |
| 02- | 66.4028- | 165.2833- | 2- | 13- | 0- | 402798 | 47030 | -0.08 | -356 | -2061 | 46 | 340 | 18.7 | 90 | -4.4 | 6 | -0.9 | 18180 | -3.4 | -5539 | 24 | -0.3 |
| 02- | 66.3889- | 165.1806- | 2- | 13- | 0- | 402799 | 44090 | -0.08 | -409 | -2596 | 46 | 652 | 27.6 | 111 | -4.4 | 5 | 1.4 | 20410 | 5.1 | 9274 | 27 | 0.4 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 65.5611- | 164.0444- | 2- | 13- | | 0-402746 | 15750 | 1051 | 10690 | -57 | -5 | 16.4 | 8.4 | -620 | -5 | -1 | 14.8 | 5180 | 107 | 5.5 | 235 | 0.182 |
| 02- | 65.5744- | 164.0931- | 2- | 13- | | 0-402747 | | | | | | | | | | | | | | | | |
| 02- | 65.5819- | 163.9528- | 2- | 13- | | 0-402748 | 15080 | 486 | 13490 | 52 | -3 | 15.7 | 7.0 | -449 | -5 | -1 | 9.5 | 5199 | 106 | 6.1 | -128 | 0.274 |
| 02- | 65.5778- | 163.9722- | 2- | 13- | | 0-402749 | 12800 | 284 | 11900 | -17 | -1 | 4.9 | -3.4 | -238 | -9 | | 7.3 | 4619 | 50 | 2.7 | 91 | 0.411 |
| 02- | 65.6333- | 163.8444- | 2- | 15- | | 0-402750 | 5238 | 231 | 1826 | -76 | -5 | 5.4 | 4.6 | -337 | -2 | -1 | 5.9 | 1064 | 103 | 3.7 | 150 | 0.102 |
| 02- | 65.6228- | 163.8861- | 2- | 12- | | 0-402751 | 16300 | 514 | 11430 | -37 | -3 | 13.0 | 4.3 | -362 | | -1 | 8.5 | 6195 | 111 | 3.4 | 156 | 0.365 |
| 02- | 65.5947- | 163.8000- | 2- | 13- | | 0-402752 | 17070 | 389 | 11050 | 42 | -2 | 15.7 | 6.8 | -353 | -1 | -1 | 12.8 | 5855 | 128 | 3.8 | 159 | 0.234 |
| 02- | 65.6031- | 163.7222- | 2- | 13- | | 0-402753 | 18920 | 394 | 10450 | 42 | -3 | 15.0 | 6.2 | -338 | -3 | -1 | 10.4 | 6022 | 135 | 4.9 | 176 | 0.279 |
| 02- | 65.6278- | 163.6222- | 2- | 13- | | 0-402755 | 19620 | 863 | 12850 | -40 | -4 | 20.5 | 8.4 | -441 | -6 | -1 | 10.7 | 8356 | 123 | 6.7 | 207 | 0.271 |
| 02- | 65.6589- | 163.5819- | 2- | 12- | | 0-402756 | 15060 | 1141 | 11160 | -52 | -4 | 16.6 | 3.5 | -542 | -2 | -1 | 9.3 | 7493 | 143 | 3.4 | -147 | 0.280 |
| 02- | 65.6575- | 163.5000- | 2- | 12- | | 0-402757 | 17360 | 1307 | 11000 | -35 | -3 | 16.6 | 7.5 | -596 | -4 | | 11.6 | 6324 | 121 | 4.8 | 150 | 0.233 |
| 02- | 65.7028- | 163.5000- | 2- | 13- | | 0-402758 | 15950 | 386 | 10330 | -35 | -3 | 16.0 | 5.2 | -344 | -5 | | 9.0 | 6583 | 142 | 3.7 | -140 | 0.300 |
| 02- | 65.6911- | 163.4194- | 2- | 12- | | 0-402759 | | | | -64 | -5 | 21.4 | 9.0 | | -5 | -2 | 13.6 | | | 5.5 | -195 | 0.184 |
| 02- | 65.7069- | 163.4167- | 2- | 12- | | 0-402760 | | | | -52 | -4 | 15.1 | 3.5 | | -2 | -1 | 9.5 | | | -3.3 | -101 | 0.274 |
| 02- | 65.7333- | 163.2222- | 2- | 13- | | 0-402762 | | | | -35 | -3 | 14.9 | 7.2 | | -4 | | 12.3 | | | 4.9 | 191 | 0.203 |
| 02- | 65.7472- | 163.2986- | 2- | 12- | | 0-402763 | 24120 | 660 | 9587 | 65 | 26 | 16.4 | 7.7 | -420 | -5 | -1 | 15.4 | 6002 | 111 | 5.5 | 146 | 0.156 |
| 02- | 65.7625- | 163.3514- | 2- | 12- | | 0-402764 | 87370 | 177 | 6766 | -26 | -2 | 11.0 | 5.4 | -278 | -3 | | 9.1 | 5560 | 91 | 2.8 | 147 | 0.231 |
| 02- | 65.6861- | 163.3014- | 2- | 13- | | 0-402765 | 9884 | 877 | 6408 | -49 | -4 | 11.9 | 5.0 | -741 | -2 | -1 | 7.7 | 5096 | 82 | -3.2 | 209 | 0.208 |
| 02- | 65.6519- | 163.3250- | 2- | 13- | | 0-402766 | -8249 | 406 | 8904 | -98 | -7 | 16.9 | 4.4 | -731 | -4 | -2 | 11.2 | 2979 | 79 | -5.9 | 419 | 0.170 |
| 02- | 65.6361- | 163.4250- | 2- | 12- | | 0-402767 | 14790 | 470 | 12310 | -35 | -3 | 17.4 | 7.5 | -430 | -7 | | 11.6 | 6765 | 121 | 4.6 | 221 | 0.224 |
| 02- | 65.6222- | 163.5250- | 2- | 12- | | 0-402768 | 15300 | 348 | 12500 | -29 | 1 | 13.4 | 6.3 | -341 | 10 | -1 | 9.3 | 6310 | 115 | 4.4 | 172 | 0.301 |
| 02- | 65.6042- | 163.5222- | 2- | 12- | | 0-402769 | 15300 | 288 | 11200 | 62 | -1 | 18.9 | 9.0 | -354 | -6 | | 14.6 | 6930 | 150 | 5.5 | -72 | 0.219 |
| 02- | 65.5769- | 163.6206- | 2- | 12- | | 0-402770 | 18800 | 241 | 9020 | -50 | -1 | 16.7 | 4.5 | -421 | -2 | -1 | 9.1 | 5070 | 165 | 3.9 | | 0.275 |
| 02- | 65.5919- | 163.6628- | 2- | 12- | | 0-402771 | 16900 | 279 | 10100 | -42 | -1 | 18.2 | 7.0 | -415 | -8 | | 11.2 | 7310 | 165 | 4.2 | 216 | 0.223 |
| 02- | 65.5614- | 163.6583- | 2- | 13- | | 0-402772 | 16200 | 335 | 9160 | -32 | -1 | 11.0 | 6.1 | -317 | -6 | | 9.5 | 5950 | 87 | 3.4 | 86 | 0.253 |
| 02- | 65.5514- | 163.7917- | 2- | 13- | | 0-402773 | 16900 | 275 | 8310 | -44 | -1 | 19.5 | 6.8 | -447 | -1 | -1 | 12.8 | 4780 | 134 | 4.5 | 318 | 0.172 |
| 02- | 65.5167- | 163.8028- | 2- | 13- | | 0-402774 | 18000 | 318 | 8720 | -52 | -2 | 15.8 | 4.8 | -481 | -2 | -2 | 9.1 | 5560 | 145 | 3.8 | 286 | 0.275 |
| 02- | 65.5319- | 163.8931- | 2- | 12- | | 0-402775 | 15410 | 755 | 13500 | 46 | -1 | 14.6 | 8.9 | -418 | -10 | -1 | 14.3 | 6545 | 120 | 5.2 | 126 | 0.245 |
| 02- | 65.5153- | 163.9458- | 2- | 13- | | 0-402776 | 17550 | 584 | 12780 | -26 | -1 | 13.4 | 7.9 | -365 | -3 | | 10.1 | 6424 | 117 | 4.0 | 150 | 0.356 |
| 02- | 65.5042- | 163.9889- | 2- | 13- | | 0-402777 | 16140 | 456 | 11330 | 69 | -1 | 18.7 | 8.0 | -475 | -6 | -1 | 14.1 | 6093 | 131 | 4.7 | 244 | 0.191 |
| 02- | 65.5042- | 164.1333- | 2- | 13- | | 0-402778 | 16930 | 384 | 10040 | -39 | -1 | 15.5 | 3.2 | -399 | -2 | -1 | 9.0 | 5111 | 137 | 3.1 | 304 | 0.333 |
| 02- | 65.8839- | 164.6500- | 2- | 12- | | 0-402779 | 13440 | 754 | 10400 | 53 | 1 | 12.5 | 5.5 | -368 | -11 | | 13.6 | 6258 | 104 | 4.6 | 100 | 0.272 |
| 02- | 65.8333- | 164.6361- | 2- | 12- | | 0-402780 | 13420 | 517 | 10800 | -22 | 1 | 10.8 | 7.7 | -302 | -3 | 1 | 11.0 | 6162 | 91 | 4.9 | 125 | 0.345 |
| 02- | 65.8861- | 164.7333- | 2- | 12- | | 0-402781 | 13660 | 1016 | 22010 | 116 | -1 | 13.7 | 30.0 | -585 | 9 | 3 | 107.0 | 6777 | 81 | 20.9 | -104 | 0.284 |
| 02- | 65.8875- | 164.7778- | 2- | 12- | | 0-402782 | 25190 | 955 | 17680 | -84 | -3 | 12.8 | 15.1 | | 12 | -1 | 75.9 | 7235 | 118 | 14.9 | 516 | 1.045 |
| 02- | 65.9708- | 164.6944- | 2- | 12- | | 0-402783 | 13840 | 308 | 13060 | 55 | -1 | 10.9 | 5.9 | -299 | -7 | -1 | 10.5 | 4774 | 97 | 4.1 | -50 | 0.295 |
| 02- | 65.9806- | 164.6486- | 2- | 12- | | 0-402784 | 8340 | 430 | 19930 | 89 | | 8.2 | 7.9 | -317 | -5 | 1 | 14.1 | 3772 | 54 | 7.0 | 145 | 0.298 |
| 02- | 66.0139- | 164.7361- | 2- | 13- | | 0-402785 | 13400 | 342 | 9633 | -54 | -2 | 12.5 | 3.8 | -552 | -3 | -2 | 7.1 | 5454 | 108 | 3.2 | 234 | 0.310 |
| 02- | 66.0556- | 164.7375- | 2- | 12- | | 0-402786 | 12600 | 385 | 16690 | 92 | | 8.7 | 7.2 | -309 | -2 | -1 | 12.6 | 4200 | 77 | 5.6 | 98 | 0.270 |
| 02- | 66.0472- | 164.7778- | 2- | 12- | | 0-402787 | 14360 | 471 | 15370 | 58 | | 9.6 | 6.4 | -314 | -2 | | 11.2 | 4792 | 82 | 4.7 | -84 | 0.330 |
| 02- | 66.0972- | 164.8875- | 2- | 13- | | 0-402788 | 19100 | 391 | 9914 | -34 | -1 | 18.5 | 8.3 | -401 | -4 | | 13.4 | 5633 | 142 | 4.6 | 234 | 0.187 |
| 02- | 66.1264- | 165.0083- | 2- | 13- | | 0-402789 | 26400 | 499 | 10660 | -43 | -1 | 16.7 | 4.8 | -456 | -4 | -1 | 10.1 | 5499 | 157 | 4.1 | | 0.267 |
| 02- | 66.1444- | 165.0736- | 2- | 12- | | 0-402790 | 15930 | 718 | 12670 | 58 | | 11.8 | 8.0 | -349 | -3 | | 12.2 | 5904 | 87 | 5.3 | 123 | 0.246 |
| 02- | 66.1944- | 165.1556- | 2- | 13- | | 0-402792 | 20500 | 419 | 10680 | -41 | -1 | 14.1 | 4.8 | -486 | -2 | -1 | 8.0 | 5855 | 143 | 3.6 | 127 | 0.338 |
| 02- | 66.2056- | 165.2542- | 2- | 13- | | 0-402793 | 15440 | 293 | 12580 | -27 | -1 | 13.9 | 7.5 | -319 | -1 | -1 | 9.5 | 5361 | 94 | 5.1 | | 0.284 |
| 02- | 66.2419- | 165.3111- | 2- | 13- | | 0-402794 | 16060 | 541 | 8233 | -31 | -1 | 10.3 | 4.3 | -393 | -1 | | 8.0 | 5518 | 95 | 3.0 | 106 | 0.263 |
| 02- | 66.2875- | 165.3278- | 2- | 13- | | 0-402795 | 21530 | 304 | 8954 | -33 | -1 | 13.6 | 5.9 | -386 | -6 | -1 | 9.4 | 4971 | 115 | 4.4 | -132 | 0.234 |
| 02- | 66.3167- | 165.3694- | 2- | 12- | | 0-402796 | 7174 | 441 | 9949 | -14 | | 8.2 | 3.6 | -236 | 4 | | 4.7 | 4964 | 52 | 2.7 | 72 | 0.362 |
| 02- | 66.3486- | 165.3417- | 2- | 12- | | 0-402797 | 20850 | 398 | 8875 | -28 | 4 | 13.9 | 8.4 | -338 | -5 | | 12.0 | 6731 | 111 | 5.5 | -31 | 0.208 |
| 02- | 66.4028- | 165.2833- | 2- | 13- | | 0-402798 | 12660 | 325 | 9586 | -62 | -2 | 11.2 | 3.1 | -610 | -3 | -2 | 7.1 | 5397 | 94 | -2.6 | 176 | 0.268 |
| 02- | 66.3889- | 165.1806- | 2- | 13- | | 0-402799 | 11640 | 312 | 6798 | -64 | -2 | 11.4 | 4.2 | -656 | -3 | -2 | 5.0 | 4164 | 85 | 2.4 | 209 | 0.300 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.3944- | 165.0819- | 2- | 12- | | 0- | 402801- | 07/29/76- | 14- | 10- | 12.8- | - | - | 8.0- | 50- | 9- | 7- | 2- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.30 |
| 02- | 66.3639- | 165.0972- | 2- | 12- | | 0- | 402802- | 07/29/76- | 14- | 10- | 11.8- | - | - | 7.8- | 90- | 6- | 7- | 2- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 4- | -1- | - | - | - | - | 2.20 |
| 02- | 66.3208- | 165.1778- | 2- | 13- | | 0- | 402803- | 07/29/76- | 15- | 10- | 14.8- | - | - | 7.6- | 50- | 6- | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.70 |
| 02- | 66.3264- | 165.1667- | 2- | 13- | | 0- | 402804- | 07/29/76- | 15- | 10- | 17.0- | - | - | 7.6- | 70- | 0- | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 2.80 |
| 02- | 66.2753- | 165.1792- | 2- | 12- | | 0- | 402805- | 07/29/76- | 15- | 10- | 13.0- | - | - | 7.6- | 50- | 6- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 1.70 |
| 02- | 66.2917- | 165.1528- | 2- | 12- | | 0- | 402806- | 07/29/76- | 15- | 10- | 11.9- | - | - | 7.6- | 70- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 1.70 |
| 02- | 66.2333- | 165.1833- | 2- | 12- | | 0- | 402808- | 07/29/76- | 15- | 9- | 12.6- | - | - | 7.8- | 70- | 13- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 2.30 |
| 02- | 66.2375- | 164.9292- | 2- | 12- | | 0- | 402809- | 07/29/76- | 15- | 9- | 14.0- | - | - | 7.6- | 100- | 6- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 1.20 |
| 02- | 66.2494- | 164.9806- | 2- | 12- | | 0- | 402810- | 07/29/76- | 15- | 9- | 10.6- | - | - | 7.8- | 90- | 0- | 7- | 2- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 3.60 |
| 02- | 66.2069- | 164.8708- | 2- | 13- | | 0- | 402811- | 07/29/76- | 15- | 10- | 14.8- | - | -S- | 7.5- | 45- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 3- | 3- | - | - | -1- | - | - | - | - | 2.50 |
| 02- | 66.1800- | 164.8278- | 2- | 13- | | 0- | 402812- | 07/29/76- | 15- | 10- | 14.3- | - | - | 7.4- | 3- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 2.70 |
| 02- | 66.1375- | 164.7722- | 2- | 13- | | 0- | 402813- | 07/29/76- | 15- | 10- | 14.5- | - | -S- | 7.1- | 20- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.20 |
| 02- | 66.1375- | 164.6431- | 2- | 12- | | 0- | 402814- | 07/29/76- | 15- | 9- | 11.0- | - | - | 8.2- | 70- | 6- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 4- | -1- | - | - | - | - | 2.60 |
| 02- | 66.1222- | 164.6736- | 2- | 12- | | 0- | 402815- | 07/29/76- | 15- | 10- | 12.6- | - | - | 8.0- | 150- | 19- | 2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 4- | -1- | - | - | - | - | 2.40 |
| 02- | 66.0958- | 164.5958- | 2- | 12- | | 0- | 402816- | 07/29/76- | 16- | 10- | 11.0- | - | - | 7.6- | 200- | 6- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 1.20 |
| 02- | 66.0750- | 164.6444- | 2- | 12- | | 0- | 402817- | 07/29/76- | 16- | 10- | 12.8- | - | - | 7.2- | 60- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 3.60 |
| 02- | 66.1056- | 164.5444- | 2- | 13- | | 0- | 402818- | 07/29/76- | 16- | 10- | 14.3- | - | -S- | 7.7- | 42- | - | 7- | 2- | 6- | 6- | - | 3- | 1- | - | 4- | 3- | 2- | 4- | -1- | - | - | - | - | 2.40 |
| 02- | 66.0586- | 164.4694- | 2- | 12- | | 0- | 402819- | 07/29/76- | 16- | 10- | 10.6- | - | - | 7.2- | 37- | 6- | 2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 2.70 |
| 02- | 66.0722- | 164.4306- | 2- | 12- | | 0- | 402820- | 07/29/76- | 16- | 10- | 11.0- | - | - | 7.6- | 45- | 0- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 3.10 |
| 02- | 65.9833- | 164.5278- | 2- | 12- | | 0- | 402821- | 07/29/76- | 16- | 10- | 11.8- | - | - | 7.2- | 42- | 26- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 25.60 |
| 02- | 66.0389- | 164.4750- | 2- | 12- | | 0- | 402822- | 07/29/76- | 16- | 10- | 12.0- | - | - | 7.2- | 42- | 26- | 2- | 7- | 5- | 6- | 2- | 3- | 2- | 1- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 3.40 |
| 02- | 65.9347- | 164.5125- | 2- | 12- | | 0- | 402824- | 07/29/76- | 16- | 11- | 11.2- | - | - | 7.4- | 150- | 23- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 4.90 |
| 02- | 65.9006- | 164.5444- | 2- | 12- | | 0- | 402825- | 07/29/76- | 16- | 11- | 14.0- | - | - | 7.4- | 140- | 16- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 8.20 |
| 02- | 66.0653- | 164.8861- | 2- | 13- | | 0- | 402827- | 07/30/76- | 13- | 13- | 14.3- | - | -S- | 8.6- | 44- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.2278- | 164.8194- | 2- | 13- | | 0- | 402830- | 07/30/76- | 13- | 16- | 14.4- | - | -S- | 7.9- | 38- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.2944- | 164.8417- | 2- | 12- | | 0- | 402831- | 07/30/76- | 13- | 15- | 11.7- | - | - | 7.3- | 70- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.2861- | 164.8750- | 2- | 12- | | 0- | 402832- | 07/30/76- | 13- | 15- | 12.3- | - | - | - | 70- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.3111- | 164.8250- | 2- | 12- | | 0- | 402833- | 07/30/76- | 13- | 16- | 13.2- | - | - | 7.1- | 70- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.3167- | 164.8639- | 2- | 12- | | 0- | 402834- | 07/30/76- | 13- | 16- | 14.0- | - | - | 7.0- | 70- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.40 |
| 02- | 66.3653- | 164.8361- | 2- | 13- | | 0- | 402835- | 07/30/76- | 13- | 15- | 13.7- | - | -S- | 7.8- | 68- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.3686- | 164.8667- | 2- | 13- | | 0- | 402836- | 07/30/76- | 14- | 15- | 13.7- | - | -S- | 7.8- | 59- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.40 |
| 02- | 66.4000- | 164.7833- | 2- | 13- | | 0- | 402837- | 07/30/76- | 14- | 15- | 14.2- | - | -S- | 7.4- | 67- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.4111- | 164.8667- | 2- | 13- | | 0- | 402838- | 07/30/76- | 14- | 16- | 13.8- | - | -S- | 7.6- | 60- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.4861- | 164.7667- | 2- | 13- | | 0- | 402841- | 07/30/76- | 14- | 16- | 13.2- | - | -S- | 8.4- | 83- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.20 |
| 02- | 66.4917- | 164.6833- | 2- | 13- | | 0- | 402842- | 07/30/76- | 14- | 16- | 13.6- | - | -S- | 8.1- | 50- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.5278- | 164.6528- | 2- | 13- | | 0- | 402843- | 07/30/76- | 14- | 15- | 13.7- | - | -S- | 7.8- | 97- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.5347- | 164.5889- | 2- | 13- | | 0- | 402844- | 07/30/76- | 14- | 16- | 14.1- | - | -S- | 7.9- | 83- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.5611- | 164.4389- | 2- | 13- | | 0- | 402846- | 07/30/76- | 14- | 15- | 14.4- | - | -S- | 7.9- | 168- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.5506- | 164.3722- | 2- | 13- | | 0- | 402847- | 07/30/76- | 14- | 15- | 13.9- | - | -S- | 8.0- | 131- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.5708- | 164.3556- | 2- | 13- | | 0- | 402848- | 07/30/76- | 14- | 16- | 14.2- | - | -S- | 8.3- | 40- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.10 |
| 02- | 66.5681- | 164.2556- | 2- | 13- | | 0- | 402849- | 07/30/76- | 14- | 17- | 14.1- | - | -S- | 8.0- | 42- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.5375- | 164.2222- | 2- | 13- | | 0- | 402850- | 07/30/76- | 14- | 17- | 14.1- | - | -S- | 7.9- | 40- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.5444- | 164.1347- | 2- | 13- | | 0- | 402851- | 07/30/76- | 14- | 17- | 14.3- | - | -S- | 7.6- | 147- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.5875- | 164.0069- | 2- | 13- | | 0- | 402853- | 07/30/76- | 14- | 15- | 13.5- | - | -S- | 7.9- | 118- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.30 |
| 02- | 66.5617- | 163.9861- | 2- | 13- | | 0- | 402854- | 07/30/76- | 15- | 15- | 14.2- | - | -S- | 8.0- | 72- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.40 |
| 02- | 66.5514- | 163.9417- | 2- | 13- | | 0- | 402855- | 07/30/76- | 15- | 15- | 14.1- | - | -S- | 7.6- | 88- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.5806- | 163.9028- | 2- | 13- | | 0- | 402856- | 07/30/76- | 15- | 16- | 12.9- | - | - | 7.7- | 248- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.70 |
| 02- | 66.5833- | 163.8167- | 2- | 13- | | 0- | 402857- | 07/30/76- | 15- | 16- | 12.9- | - | - | 7.9- | 171- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.30 |
| 02- | 66.5728- | 163.7083- | 2- | 13- | | 0- | 402858- | 07/30/76- | 15- | 16- | 13.4- | - | -S- | 7.8- | 288- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.50 |
| 02- | 66.5306- | 163.7972- | 2- | 13- | | 0- | 402859- | 07/30/76- | 15- | 18- | 13.8- | - | -S- | 8.1- | 67- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.4978- | 163.8194- | 2- | 13- | | 0- | 402860- | 07/30/76- | 15- | 15- | 13.8- | - | -S- | 7.6- | 132- | - | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.70 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.3944- | 165.0819- | 2- | 12- | | 0-402801 | -5 | -5 | -5 | 24 | -20 | 17 | -5 | -10 | -15 | -1 | 6 |
| 02- | 66.3639- | 165.0972- | 2- | 12- | | 0-402802 | -5 | -5 | -5 | 23 | -20 | 22 | -5 | -10 | -15 | -1 | 2 |
| 02- | 66.3208- | 165.1778- | 2- | 13- | | 0-402803 | | | | | | | | | | -1 | 4 |
| 02- | 66.3264- | 165.1667- | 2- | 13- | | 0-402804 | | | | | | | | | | | |
| 02- | 66.2753- | 165.1792- | 2- | 12- | | 0-402805 | -5 | -5 | -5 | -10 | -20 | 19 | -5 | -10 | -15 | 1 | 12 |
| 02- | 66.2917- | 165.1528- | 2- | 12- | | 0-402806 | -5 | -5 | -5 | 13 | -20 | 17 | -5 | -10 | -15 | -1 | 9 |
| 02- | 66.2333- | 165.1833- | 2- | 12- | | 0-402808 | -5 | -5 | -5 | 13 | 21 | -15 | -5 | -10 | -15 | 1 | 24 |
| 02- | 66.2375- | 164.9292- | 2- | 12- | | 0-402809 | -5 | -5 | 9 | 15 | -20 | 35 | -5 | -10 | -15 | -1 | 4 |
| 02- | 66.2494- | 164.9806- | 2- | 12- | | 0-402810 | -5 | -5 | -5 | 35 | 29 | 28 | 8 | -10 | -15 | 2 | 27 |
| 02- | 66.2069- | 164.8708- | 2- | 13- | | 0-402811 | -5 | -5 | -5 | 30 | -20 | 34 | 5 | -10 | -15 | -1 | 9 |
| 02- | 66.1806- | 164.8278- | 2- | 13- | | 0-402812 | -5 | -5 | -5 | 19 | -20 | -15 | -5 | -10 | -15 | 1 | 25 |
| 02- | 66.1375- | 164.7722- | 2- | 13- | | 0-402813 | | | | | | | | | | 2 | 25 |
| 02- | 66.1375- | 164.6431- | 2- | 12- | | 0-402814 | -5 | -5 | -5 | -10 | -20 | 31 | -5 | -10 | -15 | 2 | 32 |
| 02- | 66.1222- | 164.6736- | 2- | 12- | | 0-402815 | -5 | -5 | -5 | 18 | 23 | 37 | -5 | -10 | -15 | 1 | 20 |
| 02- | 66.0958- | 164.5958- | 2- | 12- | | 0-402816 | | | | | | | | | | -1 | 6 |
| 02- | 66.0750- | 164.6444- | 2- | 12- | | 0-402817 | -5 | -5 | -5 | 23 | 22 | 22 | -5 | -10 | -15 | 2 | 18 |
| 02- | 66.1056- | 164.5444- | 2- | 13- | | 0-402818 | | | | | | | | | | -1 | 28 |
| 02- | 66.0586- | 164.4694- | 2- | 12- | | 0-402819 | -5 | -5 | -5 | 16 | -20 | 28 | -5 | -10 | -15 | 1 | 17 |
| 02- | 66.0722- | 164.4306- | 2- | 12- | | 0-402820 | -5 | -5 | -5 | 11 | -20 | 16 | 5 | -10 | -15 | 2 | 28 |
| 02- | 65.9833- | 164.5278- | 2- | 12- | | 0-402821 | -5 | -5 | -5 | 21 | 73 | 21 | 19 | 15 | -15 | 3 | 59 |
| 02- | 66.0389- | 164.4750- | 2- | 12- | | 0-402822 | -5 | -5 | -5 | 16 | -20 | 25 | 5 | -10 | -15 | 2 | 23 |
| 02- | 65.9347- | 164.5125- | 2- | 12- | | 0-402824 | -5 | -5 | -5 | 23 | 50 | 45 | -5 | 14 | -15 | 2 | 21 |
| 02- | 65.9006- | 164.5444- | 2- | 12- | | 0-402825 | -5 | -5 | 6 | 32 | -20 | 69 | -5 | -10 | -15 | -1 | 14 |
| 02- | 66.0653- | 164.8861- | 2- | 13- | | 0-402827 | -5 | -5 | -5 | 37 | -20 | 46 | -5 | -10 | -15 | -1 | 28 |
| 02- | 66.2278- | 164.8194- | 2- | 13- | | 0-402830 | -5 | -5 | -5 | 20 | 43 | 29 | 6 | -10 | -15 | 1 | 20 |
| 02- | 66.2944- | 164.8417- | 2- | 12- | | 0-402831 | -5 | -5 | -5 | 25 | -20 | 40 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.2861- | 164.8750- | 2- | 12- | | 0-402832 | -5 | -5 | -5 | 23 | -20 | 35 | 5 | -10 | -15 | 2 | 25 |
| 02- | 66.3111- | 164.8250- | 2- | 12- | | 0-402833 | -5 | -5 | -5 | 16 | 21 | 28 | -5 | -10 | -15 | 2 | 15 |
| 02- | 66.3167- | 164.8639- | 2- | 12- | | 0-402834 | -5 | -5 | -5 | 21 | 28 | 29 | -5 | -10 | -15 | 2 | 22 |
| 02- | 66.3653- | 164.8361- | 2- | 13- | | 0-402835 | -5 | -5 | -5 | 27 | -20 | 22 | 10 | -10 | 20 | 2 | 22 |
| 02- | 66.3686- | 164.8667- | 2- | 13- | | 0-402836 | -5 | -5 | -5 | 39 | 26 | 49 | -5 | -10 | -15 | 2 | 12 |
| 02- | 66.4000- | 164.7833- | 2- | 13- | | 0-402837 | -5 | -5 | -5 | 23 | 31 | 37 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.4111- | 164.8667- | 2- | 13- | | 0-402838 | -5 | -5 | -5 | 39 | -20 | 47 | 8 | -10 | -15 | -1 | 21 |
| 02- | 66.4861- | 164.7667- | 2- | 13- | | 0-402841 | | | | | | | | | | -1 | 8 |
| 02- | 66.4917- | 164.6833- | 2- | 13- | | 0-402842 | -5 | -5 | -5 | 38 | -20 | 41 | -5 | -10 | -15 | 2 | 18 |
| 02- | 66.5278- | 164.6528- | 2- | 13- | | 0-402843 | -5 | -5 | -5 | 30 | -20 | 57 | 5 | -10 | -15 | 2 | 13 |
| 02- | 66.5347- | 164.5889- | 2- | 13- | | 0-402844 | | | | | | | | | | 1 | 22 |
| 02- | 66.5611- | 164.4389- | 2- | 13- | | 0-402846 | -5 | -5 | -5 | 27 | -20 | 33 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.5506- | 164.3722- | 2- | 13- | | 0-402847 | -5 | -5 | -5 | 43 | -20 | 58 | -5 | -10 | -15 | 2 | 17 |
| 02- | 66.5708- | 164.3556- | 2- | 13- | | 0-402848 | | | | | | | | | | -1 | 14 |
| 02- | 66.5681- | 164.2556- | 2- | 13- | | 0-402849 | -5 | -5 | -5 | 24 | -20 | 22 | 7 | -10 | -15 | 1 | 14 |
| 02- | 66.5375- | 164.2222- | 2- | 13- | | 0-402850 | -5 | -5 | -5 | 25 | 32 | -15 | -5 | -10 | -15 | 2 | 20 |
| 02- | 66.5444- | 164.1347- | 2- | 13- | | 0-402851 | -5 | -5 | -5 | 16 | -20 | 39 | -5 | -10 | -15 | 2 | 19 |
| 02- | 66.5875- | 164.0069- | 2- | 13- | | 0-402853 | | | | | | | | | | -1 | 4 |
| 02- | 66.5617- | 163.9861- | 2- | 13- | | 0-402854 | -5 | -5 | -5 | 22 | -20 | 43 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.5514- | 163.9417- | 2- | 13- | | 0-402855 | -5 | -5 | -5 | 14 | -20 | 35 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.5806- | 163.9028- | 2- | 13- | | 0-402856 | | | | | | | | | | -1 | 6 |
| 02- | 66.5833- | 163.8167- | 2- | 13- | | 0-402857 | -5 | -5 | -5 | 15 | -20 | 28 | 10 | -10 | -15 | 1 | 7 |
| 02- | 66.5728- | 163.7083- | 2- | 13- | | 0-402858 | -5 | -5 | -5 | 17 | -20 | 38 | -5 | -10 | -15 | -1 | 9 |
| 02- | 66.5306- | 163.7972- | 2- | 13- | | 0-402859 | -5 | -5 | -5 | 25 | -20 | 38 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.4978- | 163.8194- | 2- | 13- | | 0-402860 | -5 | -5 | -5 | 44 | 28 | 73 | -5 | -10 | -15 | 2 | 21 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.3944- | 165.0819- | 2- | 12- | | 0-402801 | 44810 | -0.02 | 360 | 11490 | 51 | -75 | 11.4 | 405 | 1.9 | 5 | 1.1 | 18850 | 8.1 | 8150 | 30 | 0.5 |
| 02- | 66.3639- | 165.0972- | 2- | 12- | | 0-402802 | | -0.05 | | | 73 | | 17.2 | 403 | -2.1 | | 1.4 | 32000 | 11.4 | | 46 | 0.4 |
| 02- | 66.3208- | 165.1778- | 2- | 13- | | 0-402803 | | | | | | | | | | | | | | | | |
| 02- | 66.3264- | 165.1667- | 2- | 13- | | 0-402804 | | | | | | | | | | | | | | | | |
| 02- | 66.2753- | 165.1792- | 2- | 12- | | 0-402805 | 17950 | -0.04 | 236 | -609 | 47 | -43 | 8.9 | 442 | -1.7 | 4 | 0.9 | 17100 | 8.4 | 8150 | 33 | 0.5 |
| 02- | 66.2917- | 165.1528- | 2- | 12- | | 0-402806 | 15810 | -0.02 | 260 | 7621 | 66 | -62 | 11.9 | 732 | -15.0 | 3 | 1.1 | 15870 | 8.6 | 4991 | 39 | 0.5 |
| 02- | 66.2333- | 165.1833- | 2- | 12- | | 0-402808 | 24620 | -0.03 | 480 | 12430 | 74 | -107 | 10.7 | 166 | 2.5 | 4 | 1.4 | 19130 | 8.2 | 8156 | 43 | 0.4 |
| 02- | 66.2375- | 164.9292- | 2- | 12- | | 0-402809 | 62710 | -0.07 | 1063 | 18090 | 58 | -152 | 34.6 | 150 | -3.4 | 11 | 1.8 | 159700 | 5.2 | 21740 | 41 | 0.5 |
| 02- | 66.2494- | 164.9806- | 2- | 12- | | 0-402810 | 26640 | -0.03 | 536 | 7591 | 212 | -73 | 18.5 | 122 | 5.0 | 3 | 2.9 | 32660 | 13.8 | 8942 | 88 | 1.0 |
| 02- | 66.2069- | 164.8708- | 2- | 13- | | 0-402811 | 60890 | -0.04 | 669 | 10120 | 102 | 171 | 17.7 | 145 | 4.4 | 5 | 2.0 | 27290 | 8.7 | 11110 | 40 | 0.6 |
| 02- | 66.1800- | 164.8278- | 2- | 13- | | 0-402812 | 51790 | -0.03 | 304 | 11130 | 68 | -85 | 12.2 | 108 | -1.8 | 5 | 1.3 | 18570 | 9.2 | 9621 | 34 | 0.5 |
| 02- | 66.1375- | 164.7722- | 2- | 13- | | 0-402813 | | | | | | | | | | | | | | | | |
| 02- | 66.1375- | 164.6431- | 2- | 12- | | 0-402814 | 4403 | -0.03 | 75 | -517 | 120 | -26 | 24.0 | 170 | 4.2 | -0 | 1.8 | 32630 | 11.3 | -946 | 42 | 0.6 |
| 02- | 66.1222- | 164.6736- | 2- | 12- | | 0-402815 | 10210 | -0.05 | -138 | 5272 | 67 | 156 | 12.5 | 133 | -2.3 | 2 | 1.5 | 27750 | 8.7 | -2853 | 45 | 0.4 |
| 02- | 66.0958- | 164.5958- | 2- | 12- | | 0-402816 | | | | | | | | | | | | | | | | |
| 02- | 66.0750- | 164.6444- | 2- | 12- | | 0-402817 | | 0.07 | | | 101 | | 10.4 | 147 | 3.0 | | 1.7 | 20720 | 14.8 | | 68 | 0.7 |
| 02- | 66.1056- | 164.5444- | 2- | 13- | | 0-402818 | 76240 | -0.03 | 845 | 5517 | 83 | 206 | 19.7 | 130 | 6.9 | 5 | 1.6 | 27660 | 5.3 | 14000 | 34 | 0.5 |
| 02- | 66.0586- | 164.4694- | 2- | 12- | | 0-402819 | 52330 | -0.02 | 677 | 5043 | 59 | -77 | 13.0 | 80 | 2.6 | 5 | 1.1 | 23250 | 8.2 | 11290 | 30 | 0.6 |
| 02- | 66.0722- | 164.4306- | 2- | 12- | | 0-402820 | 52490 | -0.02 | 485 | 6221 | 101 | -83 | 11.8 | 127 | 3.6 | 5 | 1.6 | 23360 | 14.0 | 9878 | 45 | 0.8 |
| 02- | 65.9833- | 164.5278- | 2- | 12- | | 0-402821 | 72020 | -0.03 | 627 | 8978 | 111 | -98 | 11.8 | 74 | 8.8 | 12 | 0.8 | 22140 | 41.9 | 13960 | 65 | 1.4 |
| 02- | 66.0389- | 164.4750- | 2- | 12- | | 0-402822 | 57640 | -0.02 | 400 | 5612 | 88 | -98 | 25.1 | 112 | 3.6 | 6 | 1.5 | 28290 | 13.4 | 12650 | 44 | 0.7 |
| 02- | 65.9347- | 164.5125- | 2- | 12- | | 0-402824 | 55270 | -0.02 | 481 | 6592 | 94 | -95 | 15.3 | 111 | 3.3 | 7 | 1.5 | 22200 | 14.9 | 9846 | 47 | 0.7 |
| 02- | 65.9006- | 164.5444- | 2- | 12- | | 0-402825 | 65280 | -0.03 | 647 | 9674 | 155 | -107 | 21.3 | 103 | 6.8 | 6 | 1.8 | 34110 | 16.3 | 15390 | 62 | 0.9 |
| 02- | 66.0653- | 164.8861- | 2- | 13- | | 0-402827 | 72780 | -0.03 | 908 | 8979 | 79 | 241 | 21.2 | 114 | 5.0 | 6 | 1.7 | 28960 | 6.8 | 12620 | 37 | 0.5 |
| 02- | 66.2278- | 164.8194- | 2- | 13- | | 0-402830 | 74450 | -0.03 | 791 | 9540 | 65 | 257 | 11.0 | 90 | 4.1 | 6 | 1.4 | 21230 | 5.1 | 14520 | 32 | 0.4 |
| 02- | 66.2944- | 164.8417- | 2- | 12- | | 0-402831 | 61320 | -0.03 | 511 | 12580 | 98 | -94 | 17.6 | 147 | 3.2 | 5 | 1.8 | 26710 | 9.5 | 8657 | 42 | 0.6 |
| 02- | 66.2861- | 164.8750- | 2- | 12- | | 0-402832 | 61260 | -0.03 | 647 | 12250 | 70 | -82 | 14.8 | 102 | 2.7 | 6 | 1.4 | 22930 | 7.2 | 11280 | 32 | 0.5 |
| 02- | 66.3111- | 164.8250- | 2- | 12- | | 0-402833 | 50490 | -0.02 | 319 | 14220 | 106 | -83 | 18.6 | 549 | 2.1 | 6 | 1.6 | 27080 | 16.2 | 7515 | 46 | 0.8 |
| 02- | 66.3167- | 164.8639- | 2- | 12- | | 0-402834 | 58540 | -0.02 | 482 | 12380 | 62 | -97 | 15.4 | 121 | 2.4 | 5 | 1.3 | 22030 | 6.7 | 11070 | 33 | 0.4 |
| 02- | 66.3653- | 164.8361- | 2- | 13- | | 0-402835 | 74190 | -0.04 | 874 | 2761 | 111 | 127 | 28.2 | 158 | 6.0 | 5 | 1.9 | 41780 | 6.8 | 15850 | 42 | 0.7 |
| 02- | 66.3686- | 164.8667- | 2- | 13- | | 0-402836 | 81550 | -0.04 | 945 | 8477 | 75 | 175 | 25.0 | 121 | 5.5 | 6 | 1.4 | 27800 | 4.4 | 17430 | 33 | 0.4 |
| 02- | 66.4000- | 164.7833- | 2- | 13- | | 0-402837 | 65360 | -0.03 | 649 | 9953 | 89 | -89 | 20.6 | 122 | 3.6 | 6 | 1.6 | 28380 | 7.6 | 12740 | 38 | 0.6 |
| 02- | 66.4111- | 164.8667- | 2- | 13- | | 0-402838 | 73970 | -0.03 | 911 | 8466 | 69 | 191 | 19.5 | 106 | 4.3 | 6 | 1.6 | 25580 | 4.6 | 13250 | 32 | 0.4 |
| 02- | 66.4861- | 164.7667- | 2- | 13- | | 0-402841 | 37710 | 0.10 | -471 | -2478 | 54 | 652 | 29.9 | 95 | -5.1 | -4 | 1.6 | 23240 | -3.2 | -6164 | 25 | 0.4 |
| 02- | 66.4917- | 164.6833- | 2- | 13- | | 0-402842 | 59400 | -0.03 | 523 | 17760 | 69 | 147 | 17.7 | 136 | -2.1 | 6 | 1.5 | 25030 | 6.9 | 8774 | 30 | 0.4 |
| 02- | 66.5278- | 164.6528- | 2- | 13- | | 0-402843 | 62560 | -0.04 | 802 | 10800 | 68 | -95 | 18.9 | 123 | 4.4 | 6 | 1.6 | 23310 | 6.2 | 13840 | 33 | 0.4 |
| 02- | 66.5347- | 164.5889- | 2- | 13- | | 0-402844 | 74490 | -0.06 | 966 | 8666 | 109 | 212 | 29.5 | 158 | 6.4 | 6 | 2.0 | 39690 | 7.1 | 13240 | 41 | 0.5 |
| 02- | 66.5611- | 164.4389- | 2- | 13- | | 0-402846 | 61460 | -0.04 | 562 | 15210 | 77 | -95 | 17.1 | 124 | -2.4 | 6 | 1.5 | 25510 | 7.4 | 11990 | 35 | 0.5 |
| 02- | 66.5506- | 164.3722- | 2- | 13- | | 0-402847 | 66540 | -0.03 | 804 | 15160 | 77 | 172 | 18.5 | 125 | 4.0 | 6 | 1.6 | 29080 | 6.0 | 14650 | 36 | 0.5 |
| 02- | 66.5708- | 164.3556- | 2- | 13- | | 0-402848 | 52730 | -0.10 | -491 | -3463 | 59 | 396 | 20.0 | 82 | -5.7 | -4 | 1.2 | 22470 | 9.8 | -7095 | 31 | -0.3 |
| 02- | 66.5681- | 164.2556- | 2- | 13- | | 0-402849 | 75110 | -0.04 | 742 | 4553 | 87 | -86 | 11.6 | 152 | 6.1 | 5 | 1.7 | 22180 | 8.1 | 13540 | 43 | 0.5 |
| 02- | 66.5375- | 164.2222- | 2- | 13- | | 0-402850 | 61370 | -0.04 | 682 | 8319 | 54 | -94 | 14.3 | 96 | 4.0 | 5 | 1.3 | 22030 | 6.5 | 12620 | 32 | 0.4 |
| 02- | 66.5444- | 164.1347- | 2- | 13- | | 0-402851 | 52610 | -0.02 | 602 | 21770 | 87 | -77 | 14.1 | 155 | 2.9 | 6 | 1.7 | 24330 | 10.4 | 10100 | 43 | 0.6 |
| 02- | 66.5875- | 164.0069- | 2- | 13- | | 0-402853 | 28400 | -0.04 | -232 | 18260 | 59 | 376 | 17.0 | 367 | -2.5 | 6 | 1.1 | 26260 | 4.2 | -4604 | 24 | 0.3 |
| 02- | 66.5617- | 163.9861- | 2- | 13- | | 0-402854 | 61180 | -0.03 | 713 | 11180 | 94 | 132 | 17.4 | 123 | 4.6 | 6 | 1.7 | 28270 | 8.0 | 12770 | 40 | 0.7 |
| 02- | 66.5514- | 163.9417- | 2- | 13- | | 0-402855 | 52140 | -0.03 | 384 | 15220 | 85 | -90 | 13.3 | 126 | 2.2 | 6 | 1.7 | 22590 | 9.9 | 11400 | 40 | 0.5 |
| 02- | 66.5806- | 163.9028- | 2- | 13- | | 0-402856 | 34580 | -0.03 | -157 | 19540 | 89 | -90 | 15.3 | 473 | -1.8 | 5 | 1.3 | 21090 | 5.1 | -3370 | 38 | 0.5 |
| 02- | 66.5833- | 163.8167- | 2- | 13- | | 0-402857 | 29310 | -0.02 | 177 | 14960 | 46 | 269 | 8.4 | 242 | -19.9 | 3 | 0.8 | 21720 | 4.1 | 5547 | 23 | 0.3 |
| 02- | 66.5728- | 163.7083- | 2- | 13- | | 0-402858 | 29000 | -0.03 | 331 | 19600 | 79 | 347 | 15.2 | 389 | -1.8 | 4 | 1.2 | 30110 | 5.7 | -3550 | 34 | 0.5 |
| 02- | 66.5306- | 163.7972- | 2- | 13- | | 0-402859 | 56000 | -0.03 | 466 | 12760 | 64 | -92 | 13.4 | 103 | 2.8 | 6 | 1.4 | 21240 | 7.5 | 10140 | 33 | 0.5 |
| 02- | 66.4978- | 163.8194- | 2- | 13- | | 0-402860 | 78970 | -0.03 | 1009 | 7929 | 78 | -83 | 22.2 | 130 | 4.8 | 6 | 1.5 | 30760 | 6.3 | 16120 | 39 | 0.5 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02-66.3944-165.0819-2-12- | 0-402801 | 13210 | 494 | 11160 | -18 | | 10.4 | 4.6 | -268 | -4 | | 7.2 | 5800 | 81 | 3.6 | 112 | 0.319 |
| 02-66.3639-165.0972-2-12- | 0-402802 | | | | -31 | -1 | 13.2 | 5.7 | | -1 | -1 | 6.4 | | | 4.1 | 99 | 0.344 |
| 02-66.3208-165.1778-2-13- | 0-402803 | | | | | | | | | | | | | | | | |
| 02-66.3264-165.1667-2-13- | 0-402804 | | | | | | | | | | | | | | | | |
| 02-66.2753-165.1792-2-12- | 0-402805 | 3472 | 645 | 1923 | -23 | -1 | 10.0 | 4.5 | -251 | | | 6.1 | 2704 | 39 | 3.5 | -23 | 0.279 |
| 02-66.2917-165.1528-2-12- | 0-402806 | 6555 | 397 | 8343 | 28 | -1 | 10.4 | 6.2 | -234 | 5 | | 6.1 | 3152 | 32 | 3.8 | 84 | 0.279 |
| 02-66.2333-165.1833-2-12- | 0-402808 | 14300 | 699 | 13750 | -19 | -1 | 12.4 | 6.8 | -394 | -4 | 1 | 8.0 | 6086 | 61 | 3.7 | 180 | 0.288 |
| 02-66.2375-164.9292-2-12- | 0-402809 | 24670 | 691 | 24540 | -56 | -2 | 10.0 | 7.5 | -516 | -3 | -1 | 7.4 | 10710 | 140 | 5.0 | 213 | 0.162 |
| 02-66.2494-164.9806-2-12- | 0-402810 | 10180 | 268 | 9212 | 62 | 2 | 15.3 | 14.4 | -254 | 1 | -1 | 27.1 | 2982 | 49 | 8.6 | 150 | 0.133 |
| 02-66.2069-164.8708-2-13- | 0-402811 | 16420 | 359 | 11640 | 54 | -1 | 15.0 | 7.4 | -348 | -2 | | 11.1 | 5554 | 115 | 4.7 | -72 | 0.225 |
| 02-66.1800-164.8278-2-13- | 0-402812 | 16440 | 339 | 12600 | -25 | | 11.0 | 4.6 | -292 | | | 7.8 | 5892 | 89 | 3.8 | | 0.346 |
| 02-66.1375-164.7722-2-13- | 0-402813 | | | | | | | | | | | | | | | | |
| 02-66.1375-164.6431-2-12- | 0-402814 | 2117 | 63 | 1205 | 38 | -1 | 16.5 | 7.5 | -115 | -1 | | 13.1 | 486 | 7 | 5.2 | -55 | 0.198 |
| 02-66.1222-164.6736-2-12- | 0-402815 | 4563 | 655 | 3503 | -32 | -1 | 11.3 | 8.1 | -307 | -4 | | 9.9 | -720 | 30 | 3.8 | 133 | 0.242 |
| 02-66.0958-164.5958-2-12- | 0-402816 | | | | | | | | | | | | | | | | |
| 02-66.0750-164.6444-2-12- | 0-402817 | | | | -21 | 1 | 12.0 | 11.2 | | -3 | -1 | 11.7 | | | 6.4 | 119 | 0.308 |
| 02-66.1056-164.5444-2-13- | 0-402818 | 21060 | 311 | 8588 | 50 | 1 | 16.9 | 6.3 | -341 | -8 | -1 | 10.4 | 5572 | 136 | 4.6 | 152 | 0.231 |
| 02-66.0586-164.4694-2-12- | 0-402819 | 14430 | 532 | 8872 | 47 | | 8.5 | 5.8 | -302 | -3 | | 7.6 | 5552 | 86 | 3.8 | 98 | 0.355 |
| 02-66.0722-164.4306-2-12- | 0-402820 | 12580 | 287 | 11840 | 38 | | 11.2 | 8.5 | -277 | -6 | 1 | 11.3 | 5733 | 88 | 5.9 | 138 | 0.274 |
| 02-65.9833-164.5278-2-12- | 0-402821 | 15850 | 726 | 16160 | 58 | 1 | 10.9 | 11.7 | -352 | 3 | | 65.6 | 6962 | 103 | 10.9 | 159 | 0.390 |
| 02-66.0389-164.4750-2-12- | 0-402822 | 11890 | 1274 | 10790 | 53 | | 11.0 | 7.8 | -430 | -2 | -1 | 12.2 | 6323 | 84 | 5.6 | 111 | 0.279 |
| 02-65.9347-164.5125-2-12- | 0-402824 | 14260 | 1044 | 9356 | 24 | 1 | 10.2 | 7.6 | -408 | | 1 | 12.3 | 7390 | 90 | 5.1 | 81 | 0.398 |
| 02-65.9006-164.5444-2-12- | 0-402825 | 20810 | 1013 | 10690 | 66 | 1 | 14.1 | 11.8 | -476 | 3 | -1 | 23.0 | 5548 | 120 | 6.6 | 173 | 0.357 |
| 02-66.0653-164.8861-2-13- | 0-402827 | 19630 | 379 | 9856 | 55 | 1 | 16.1 | 6.6 | -370 | -8 | | 11.6 | 5401 | 138 | 4.1 | 193 | 0.216 |
| 02-66.2278-164.8194-2-13- | 0-402830 | 16830 | 375 | 13410 | 42 | | 13.2 | 5.2 | -375 | -5 | | 8.6 | 5407 | 124 | 3.0 | 133 | 0.291 |
| 02-66.2944-164.8417-2-12- | 0-402831 | 19620 | 470 | 12280 | 33 | | 14.4 | 7.5 | -334 | -3 | 1 | 10.3 | 5335 | 99 | 4.2 | 188 | 0.252 |
| 02-66.2861-164.8750-2-12- | 0-402832 | 23420 | 491 | 12530 | 39 | | 12.3 | 5.0 | -292 | -2 | | 8.1 | 6617 | 115 | 3.4 | 142 | 0.309 |
| 02-66.3111-164.8250-2-12- | 0-402833 | 18140 | 671 | 11520 | 35 | | 13.0 | 8.6 | -314 | | -1 | 12.0 | 7637 | 95 | 5.4 | 131 | 0.250 |
| 02-66.3167-164.8639-2-12- | 0-402834 | 18640 | 725 | 11950 | 46 | | 11.4 | 5.0 | -374 | -4 | | 7.4 | 5575 | 102 | 3.4 | 126 | 0.324 |
| 02-66.3653-164.8361-2-13- | 0-402835 | 22010 | 515 | 9829 | 77 | -1 | 19.7 | 8.3 | -434 | -3 | -1 | 14.7 | 5888 | 156 | 4.5 | -52 | 0.170 |
| 02-66.3686-164.8667-2-13- | 0-402836 | 21170 | 503 | 9467 | -46 | -1 | 16.8 | 4.5 | -380 | -1 | | 9.9 | 5948 | 151 | 3.5 | -101 | 0.242 |
| 02-66.4000-164.7833-2-13- | 0-402837 | 18860 | 405 | 11260 | 50 | | 14.4 | 7.0 | -314 | 10 | | 11.0 | 5638 | 122 | 4.6 | 176 | 0.227 |
| 02-66.4111-164.8667-2-13- | 0-402838 | 23060 | 422 | 9099 | 50 | | 14.5 | 5.3 | -412 | 8 | -1 | 8.5 | 6228 | 140 | 3.3 | 178 | 0.271 |
| 02-66.4861-164.7667-2-13- | 0-402841 | -7922 | 378 | 5842 | -69 | -2 | 12.4 | 5.5 | -749 | -5 | -2 | 5.7 | 2866 | 64 | 3.4 | 385 | 0.211 |
| 02-66.4917-164.6833-2-13- | 0-402842 | 25540 | 509 | 13410 | -30 | | 12.6 | 4.9 | -298 | -7 | | 7.3 | 8044 | 124 | 3.7 | | 0.315 |
| 02-66.5278-164.6528-2-13- | 0-402843 | 16850 | 369 | 10250 | -32 | -1 | 13.6 | 5.6 | -356 | -3 | | 8.1 | 5871 | 125 | 3.7 | 156 | 0.309 |
| 02-66.5347-164.5889-2-13- | 0-402844 | 20620 | 399 | 9503 | -49 | -2 | 21.4 | 8.2 | -510 | -4 | -1 | 13.2 | 7112 | 151 | 6.0 | 309 | 0.174 |
| 02-66.5611-164.4389-2-13- | 0-402846 | 21720 | 429 | 11650 | -33 | -1 | 13.9 | 5.1 | -345 | -1 | | 8.8 | 6728 | 115 | 3.8 | 98 | 0.295 |
| 02-66.5506-164.3722-2-13- | 0-402847 | 20500 | 585 | 11200 | 46 | -1 | 14.7 | 6.3 | -347 | -6 | -1 | 10.4 | 5568 | 124 | 4.7 | 153 | 0.240 |
| 02-66.5708-164.3556-2-13- | 0-402848 | 18840 | 380 | 8635 | -84 | -2 | 11.8 | 4.3 | -796 | -5 | -2 | -4.5 | 5090 | 99 | -3.3 | 391 | |
| 02-66.5681-164.2556-2-13- | 0-402849 | 9805 | 182 | 10150 | 53 | -1 | 17.8 | 7.4 | -292 | -5 | -1 | 12.7 | 7648 | 144 | 4.2 | -26 | 0.213 |
| 02-66.5375-164.2222-2-13- | 0-402850 | 18140 | 325 | 10990 | -32 | -1 | 13.1 | 4.6 | -327 | | | 7.7 | 5112 | 117 | 3.9 | | 0.338 |
| 02-66.5444-164.1347-2-13- | 0-402851 | 26210 | 527 | 11630 | 35 | | 12.6 | 8.2 | -271 | -1 | 1 | 10.4 | 6265 | 102 | 4.5 | 126 | 0.279 |
| 02-66.5875-164.0069-2-13- | 0-402853 | 21850 | 861 | 8013 | -31 | -1 | 10.6 | 4.2 | -501 | -5 | -1 | 5.2 | 6531 | 63 | 2.6 | 60 | 0.250 |
| 02-66.5617-163.9861-2-13- | 0-402854 | 21980 | 465 | 11940 | 36 | -1 | 15.2 | 7.6 | -335 | -2 | | 12.6 | 5037 | 110 | 4.2 | 88 | 0.190 |
| 02-66.5514-163.9417-2-13- | 0-402855 | 17700 | 434 | 11930 | -26 | -1 | 11.7 | 5.6 | -315 | -2 | | 8.6 | 5906 | 99 | 4.4 | | 0.349 |
| 02-66.5806-163.9028-2-13- | 0-402856 | 21740 | 693 | 10630 | -22 | | 13.8 | 6.1 | -358 | -6 | | 8.5 | 6847 | 85 | 3.9 | 104 | 0.200 |
| 02-66.5833-163.8167-2-13- | 0-402857 | 15770 | 626 | 9785 | -15 | -1 | 8.4 | 3.5 | -260 | 4 | | 4.6 | 4968 | 57 | 2.7 | 52 | 0.283 |
| 02-66.5728-163.7083-2-13- | 0-402858 | 17170 | 836 | 9293 | -23 | | 12.1 | 5.8 | -380 | -1 | | 7.8 | 6131 | 70 | 3.9 | 97 | 0.192 |
| 02-66.5306-163.7972-2-13- | 0-402859 | 16940 | 338 | 12370 | -28 | -1 | 11.6 | 5.2 | -317 | -6 | | 8.0 | 5551 | 109 | 3.3 | | 0.313 |
| 02-66.4978-163.8194-2-13- | 0-402860 | 20720 | 364 | 10320 | 60 | 1 | 18.0 | 7.0 | -291 | -9 | -1 | 11.6 | 7029 | 163 | 4.1 | 176 | 0.233 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.4958- | 163.8806- | 2- | 13- | | 0-402861- | 07/30/76- | 15- | 15- | 14.4- | | -S- | 7.9- | 81- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.50 |
| 02- | 66.4944- | 164.0208- | 2- | 13- | | 0-402862- | 07/30/76- | 15- | 17- | 14.1- | | -S- | 7.9- | 51- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.00 |
| 02- | 66.4714- | 164.6347- | 2- | 13- | | 0-402868- | 07/30/76- | 15- | 15- | 14.7- | | -S- | 7.9- | 42- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.50 |
| 02- | 66.4236- | 164.6917- | 2- | 13- | | 0-402870- | 07/30/76- | 15- | 15- | 14.8- | | -S- | 8.2- | 48- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.40 |
| 02- | 66.3375- | 164.6917- | 2- | 13- | | 0-402872- | 07/30/76- | 16- | 16- | 14.1- | | -S- | 7.9- | 37- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.00 |
| 02- | 66.2819- | 164.7097- | 2- | 13- | | 0-402873- | 07/30/76- | 16- | 16- | 15.2- | | -S- | 7.9- | 37- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 3.00 |
| 02- | 66.2528- | 164.7069- | 2- | 13- | | 0-402874- | 07/30/76- | 16- | 15- | 15.3- | | -S- | 7.5- | 220- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.60 |
| 02- | 66.1986- | 164.7000- | 2- | 13- | | 0-402875- | 07/30/76- | 16- | 15- | 14.9- | | -S- | 8.5- | 33- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 2.30 |
| 02- | 65.5000- | 164.4192- | 2- | 12- | | 0-402876- | 07/31/76- | 7- | 8- | 10.8- | | - | - | 7.0- | 50- | 46- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 4.00 |
| 02- | 65.4972- | 164.3472- | 2- | 12- | | 0-402877- | 07/31/76- | 7- | 8- | 10.9- | | - | - | 7.3- | 50- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 2- | | -1- | - | - | - | - | 3.80 |
| 02- | 65.4486- | 164.2847- | 2- | 12- | | 0-402878- | 07/31/76- | 7- | 10- | 11.0- | | - | - | 7.4- | 45- | 19- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 4.80 |
| 02- | 65.4700- | 164.4183- | 2- | 12- | | 0-402879- | 07/31/76- | 7- | 10- | 10.6- | | - | - | 7.6- | 60- | 46- | 2- | 7- | 5- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 3.70 |
| 02- | 65.4472- | 164.2083- | 2- | 15- | | 0-402880- | 07/31/76- | 7- | 10- | - | | - | - | - | - | 19- | 2- | 7- | 5- | 6- | - | - | - | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 2.90 |
| 02- | 65.4183- | 164.2153- | 2- | 12- | | 0-402881- | 07/31/76- | 7- | 10- | - | | - | - | 7.9- | 59- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 3.60 |
| 02- | 65.4361- | 164.0847- | 2- | 12- | | 0-402882- | 07/31/76- | 7- | 10- | 12.6- | | - | - | 8.0- | 40- | 19- | 2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | | -1- | - | - | - | - | 3.50 |
| 02- | 65.4472- | 164.0986- | 2- | 13- | | 0-402883- | 07/31/76- | 7- | 10- | 14.2- | | - | - | 7.2- | 45- | 13- | 2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 1.00 |
| 02- | 65.4222- | 164.1361- | 2- | 13- | | 0-402884- | 07/31/76- | 7- | 10- | 13.6- | | -S- | | 8.2- | 20- | | -7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 4.40 |
| 02- | 65.4403- | 163.9778- | 2- | 13- | | 0-402885- | 07/31/76- | 8- | 11- | 14.0- | | - | - | 7.0- | 45- | 19- | 2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 3.30 |
| 02- | 65.4308- | 163.9839- | 2- | 13- | | 0-402886- | 07/31/76- | 8- | 11- | 13.8- | | - | - | 6.8- | 120- | 26- | 7- | 2- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 3.90 |
| 02- | 65.4264- | 163.8806- | 2- | 13- | | 0-402887- | 07/31/76- | 8- | 11- | 13.4- | | -S- | | 7.7- | 26- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 3.20 |
| 02- | 65.4403- | 163.9306- | 2- | 12- | | 0-402888- | 07/31/76- | 8- | 11- | 12.6- | | - | - | 7.6- | 30- | 26- | 3- | 6- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | | -1- | - | - | - | - | 8.10 |
| 02- | 65.4472- | 163.7806- | 2- | 15- | | 0-402889- | 07/31/76- | 8- | 11- | - | | - | - | - | - | 13- | 3- | 6- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 1- | | -1- | - | - | - | - | 1.80 |
| 02- | 65.4767- | 163.7400- | 2- | 12- | | 0-402890- | 07/31/76- | 8- | 11- | 13.4- | | - | - | 6.8- | 20- | 26- | 3- | 6- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 1- | | -1- | - | - | - | - | 3.60 |
| 02- | 65.4931- | 163.6347- | 2- | 13- | | 0-402892- | 07/31/76- | 8- | 11- | 14.0- | | - | - | 7.0- | 13- | 13- | 3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.60 |
| 02- | 65.4978- | 163.6167- | 2- | 15- | | 0-402893- | 07/31/76- | 8- | 11- | - | | - | - | - | - | 13- | 3- | 6- | 5- | 6- | | - | - | 2- | 4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.30 |
| 02- | 65.5639- | 163.5306- | 2- | 13- | | 0-402894- | 07/31/76- | 8- | 11- | 14.0- | | - | - | 7.2- | 18- | 6- | 3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 4.00 |
| 02- | 65.5625- | 163.5722- | 2- | 13- | | 0-402895- | 07/31/76- | 8- | 11- | 13.9- | C- | - | - | 6.8- | 13- | 13- | 3- | 6- | 4- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 1.70 |
| 02- | 65.5703- | 163.3808- | 2- | 13- | | 0-402896- | 07/31/76- | 8- | 11- | 11.5- | | -S- | | 7.8- | 12- | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.00 |
| 02- | 65.5767- | 163.3150- | 2- | 12- | | 0-402897- | 07/31/76- | 8- | 11- | 11.9- | | - | - | 6.4- | 20- | 13- | 3- | 6- | 6- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.60 |
| 02- | 65.5517- | 163.3583- | 2- | 13- | | 0-402899- | 07/31/76- | 9- | 10- | 12.0- | | - | - | 7.0- | 11- | 19- | 3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.40 |
| 02- | 65.6639- | 163.2250- | 2- | 12- | | 0-402900- | 07/31/76- | 9- | 11- | 12.6- | | - | - | 6.2- | 25- | 16- | 2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.10 |
| 02- | 65.6350- | 163.1556- | 2- | 13- | | 0-402901- | 07/31/76- | 9- | 10- | 11.7- | | - | - | 6.9- | 15- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 3.30 |
| 02- | 65.5800- | 163.0583- | 2- | 15- | | 0-402902- | 07/31/76- | 9- | 10- | - | | - | - | - | - | 33- | 3- | 6- | 5- | 6- | | - | - | 2- | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 2.70 |
| 02- | 65.5500- | 163.0428- | 2- | 12- | | 0-402903- | 07/31/76- | 9- | 11- | 13.3- | | - | - | 6.3- | 10- | 13- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.10 |
| 02- | 65.5292- | 163.0417- | 2- | 12- | | 0-402904- | 07/31/76- | 9- | 12- | 13.0- | | - | - | 6.3- | 9- | 13- | 3- | 6- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.80 |
| 02- | 65.5108- | 163.1997- | 2- | 13- | | 0-402906- | 07/31/76- | 9- | 11- | 10.8- | | -S- | | 7.3- | 13- | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 2- | 1- | | -1- | - | - | - | - | 2.60 |
| 02- | 65.4700- | 163.2117- | 2- | 13- | | 0-402907- | 07/31/76- | 9- | 10- | 9.3- | | -S- | | 7.4- | 9- | | -3- | 6- | 6- | 6- | | -3- | 1- | | -4- | 3- | 3- | 1- | | -1- | - | - | - | - | 2.50 |
| 02- | 65.4550- | 163.2533- | 2- | 13- | | 0-402908- | 07/31/76- | 9- | 9- | 9.9- | | - | - | 8.0- | 12- | 26- | 3- | 6- | 4- | 6- | | -3- | 2- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 2.90 |
| 02- | 65.4700- | 163.2867- | 2- | 13- | | 0-402909- | 07/31/76- | 9- | 9- | 9.5- | | - | - | 6.8- | 12- | | 6- | 3- | 6- | 5- | 6- | | -3- | 4- | | -3- | 3- | 2- | 2- | | -1- | - | - | - | - | 4.50 |
| 02- | 65.4333- | 163.3800- | 2- | 13- | | 0-402910- | 07/31/76- | 10- | 10- | 9.8- | | - | - | 6.3- | 12- | | 6- | 3- | 6- | 5- | 6- | | -3- | 1- | | -3- | 3- | 3- | 2- | | -1- | - | - | - | - | 0.60 |
| 02- | 65.4417- | 163.3708- | 2- | 13- | | 0-402911- | 07/31/76- | 10- | 10- | 9.4- | | - | - | 7.0- | 19- | | 6- | 3- | 6- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | - | - | - | - | 0.80 |
| 02- | 65.4567- | 163.4133- | 2- | 13- | | 0-402912- | 07/31/76- | 10- | 10- | 9.5- | | -S- | | 7.3- | 10- | | -3- | 6- | 6- | 6- | | -3- | 3- | | -4- | 3- | 2- | 2- | | -1- | - | - | - | - | 2.80 |
| 02- | 65.4319- | 163.4639- | 2- | 12- | | 0-402913- | 07/31/76- | 10- | 10- | 9.4- | | - | - | 7.0- | 18- | 13- | 3- | 6- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 3.30 |
| 02- | 65.4472- | 163.4678- | 2- | 12- | | 0-402914- | 07/31/76- | 10- | 10- | 9.8- | | - | - | 6.8- | 19- | 13- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 1.70 |
| 02- | 65.4331- | 163.5608- | 2- | 15- | | 0-402915- | 07/31/76- | 10- | 10- | - | | - | - | - | - | 13- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 2.20 |
| 02- | 65.4569- | 163.6167- | 2- | 12- | | 0-402916- | 07/31/76- | 10- | 10- | 10.0- | | - | - | 6.8- | 26- | 19- | 3- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 3.20 |
| 02- | 65.4264- | 163.7133- | 2- | 13- | | 0-402917- | 07/31/76- | 10- | 12- | 12.4- | | - | - | 7.4- | 22- | 26- | 3- | 6- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 2- | | -1- | - | - | - | - | 21.40 |
| 02- | 65.4278- | 163.6625- | 2- | 13- | | 0-402918- | 07/31/76- | 10- | 13- | 14.9- | | - | - | 8.0- | 50- | 46- | 3- | 6- | 5- | 6- | | - | - | 2- | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 11.00 |
| 02- | 65.5125- | 164.2014- | 2- | 13- | | 0-402919- | 07/31/76- | 10- | 12- | 14.4- | | -S- | | 7.2- | 49- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 2- | | -1- | - | - | - | - | 2.40 |
| 02- | 65.5042- | 164.5556- | 2- | 15- | | 0-402932- | 07/31/76- | 14- | 16- | - | | - | - | - | - | 6- | 2- | 7- | 4- | 6- | | - | - | - | 3- | 3- | 3- | 2- | | -1- | - | - | - | - | 4.80 |
| 02- | 65.4136- | 164.3450- | 2- | 13- | | 0-402933- | 07/31/76- | 15- | 16- | 13.8- | | - | - | 8.6- | 43- | | -2- | 7- | 4- | 6- | | -3- | 4- | | -4- | 3- | 3- | 2- | | -1- | - | - | - | - | 3.00 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.4958- | 163.8806- | 2- | 13- | | 0-402861 | -5 | -5 | -5 | 19 | -20 | 40 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.4944- | 164.0208- | 2- | 13- | | 0-402862 | | | | | | | | | | -1 | 18 |
| 02- | 66.4714- | 164.6347- | 2- | 13- | | 0-402868 | -5 | -5 | -5 | 16 | -20 | 53 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.4236- | 164.6917- | 2- | 13- | | 0-402870 | -5 | -5 | -5 | 35 | 22 | 56 | -5 | -10 | -15 | 1 | 20 |
| 02- | 66.3375- | 164.6917- | 2- | 13- | | 0-402872 | | | | | | | | | | 1 | 19 |
| 02- | 66.2819- | 164.7097- | 2- | 13- | | 0-402873 | -5 | -5 | -5 | 27 | -20 | 39 | -5 | -10 | -15 | 2 | 34 |
| 02- | 66.2528- | 164.7069- | 2- | 13- | | 0-402874 | | | | | | | | | | 1 | 21 |
| 02- | 66.1986- | 164.7000- | 2- | 13- | | 0-402875 | -5 | -5 | -5 | 19 | -20 | 25 | -5 | -10 | -15 | 2 | 22 |
| 02- | 65.5000- | 164.4192- | 2- | 12- | | 0-402876 | -5 | -5 | -5 | 16 | -20 | 17 | -5 | -10 | -15 | 2 | 16 |
| 02- | 65.4972- | 164.3472- | 2- | 12- | | 0-402877 | -5 | -5 | -5 | 13 | -20 | 24 | 7 | -10 | -15 | 2 | 27 |
| 02- | 65.4486- | 164.2847- | 2- | 12- | | 0-402878 | -5 | -5 | -5 | 20 | -20 | 25 | 10 | -10 | 24 | 2 | 24 |
| 02- | 65.4700- | 164.4183- | 2- | 12- | | 0-402879 | -5 | 6 | -5 | 13 | -20 | 25 | 7 | -10 | -15 | 3 | 18 |
| 02- | 65.4472- | 164.2083- | 2- | 15- | | 0-402880 | | | | | | | | | | 1 | 12 |
| 02- | 65.4183- | 164.2153- | 2- | 12- | | 0-402881 | -5 | -5 | -5 | 16 | -20 | -15 | 5 | -10 | -15 | 1 | 15 |
| 02- | 65.4361- | 164.0847- | 2- | 12- | | 0-402882 | -5 | -5 | -5 | 17 | -20 | 34 | -5 | -10 | -15 | 2 | 19 |
| 02- | 65.4472- | 164.0986- | 2- | 13- | | 0-402883 | | | | | | | | | | -1 | 5 |
| 02- | 65.4222- | 164.1361- | 2- | 13- | | 0-402884 | | | | | | | | | | 1 | 20 |
| 02- | 65.4403- | 163.9778- | 2- | 13- | | 0-402885 | -5 | -5 | -5 | 37 | -20 | 23 | -5 | -10 | -15 | 1 | 38 |
| 02- | 65.4308- | 163.9839- | 2- | 13- | | 0-402886 | -5 | -5 | -5 | 32 | -20 | 55 | -5 | -10 | -15 | 2 | 43 |
| 02- | 65.4264- | 163.8806- | 2- | 13- | | 0-402887 | -5 | -5 | -5 | 31 | -20 | 17 | -5 | -10 | -15 | 1 | 28 |
| 02- | 65.4403- | 163.9306- | 2- | 12- | | 0-402888 | -5 | 7 | -5 | 19 | -20 | 23 | 13 | -10 | -15 | 3 | 45 |
| 02- | 65.4472- | 163.7806- | 2- | 15- | | 0-402889 | 5 | -5 | 7 | 14 | -20 | -15 | -5 | -10 | -15 | -1 | 6 |
| 02- | 65.4767- | 163.7400- | 2- | 12- | | 0-402890 | -5 | -5 | -5 | 29 | 29 | 19 | -5 | -10 | -15 | 3 | 29 |
| 02- | 65.4931- | 163.6347- | 2- | 13- | | 0-402892 | -5 | -5 | -5 | 21 | 24 | 27 | -5 | -10 | -15 | -1 | 18 |
| 02- | 65.4978- | 163.6167- | 2- | 15- | | 0-402893 | -5 | -5 | -5 | 28 | 28 | 32 | -5 | -10 | -15 | 3 | 25 |
| 02- | 65.5639- | 163.5306- | 2- | 13- | | 0-402894 | -5 | -5 | -5 | 29 | 50 | 31 | -5 | -10 | -15 | 3 | 25 |
| 02- | 65.5625- | 163.5722- | 2- | 13- | | 0-402895 | | | | | | | | | | -1 | 9 |
| 02- | 65.5783- | 163.3808- | 2- | 13- | | 0-402896 | | | | | | | | | | -1 | 8 |
| 02- | 65.5767- | 163.3150- | 2- | 12- | | 0-402897 | -5 | -5 | -5 | 24 | -20 | 21 | 7 | -10 | -15 | -1 | 18 |
| 02- | 65.5517- | 163.3583- | 2- | 13- | | 0-402899 | | | | | | | | | | -1 | 13 |
| 02- | 65.6639- | 163.2250- | 2- | 12- | | 0-402900 | | | | | | | | | | -1 | 19 |
| 02- | 65.6350- | 163.1556- | 2- | 13- | | 0-402901 | | | | | | | | | | 1 | 25 |
| 02- | 65.5800- | 163.0583- | 2- | 15- | | 0-402902 | | | | | | | | | | -1 | 11 |
| 02- | 65.5500- | 163.0428- | 2- | 12- | | 0-402903 | -5 | -5 | -5 | 21 | -20 | -15 | -5 | -10 | -15 | -1 | 10 |
| 02- | 65.5292- | 163.0417- | 2- | 12- | | 0-402904 | | | | | | | | | | -1 | 17 |
| 02- | 65.5108- | 163.1997- | 2- | 13- | | 0-402906 | -5 | -5 | -5 | 32 | -20 | 34 | 11 | -10 | -15 | -1 | 17 |
| 02- | 65.4700- | 163.2117- | 2- | 13- | | 0-402907 | -5 | -5 | -5 | 15 | 38 | 20 | 5 | -10 | -15 | 2 | 24 |
| 02- | 65.4550- | 163.2533- | 2- | 13- | | 0-402908 | -5 | -5 | -5 | 34 | 42 | 28 | -5 | -10 | -15 | 2 | 32 |
| 02- | 65.4700- | 163.2867- | 2- | 13- | | 0-402909 | | | | | | | | | | -1 | 7 |
| 02- | 65.4333- | 163.3800- | 2- | 13- | | 0-402910 | | | | | | | | | | | |
| 02- | 65.4417- | 163.3708- | 2- | 13- | | 0-402911 | | | | | | | | | | | |
| 02- | 65.4567- | 163.4133- | 2- | 13- | | 0-402912 | | | | | | | | | | -1 | 17 |
| 02- | 65.4319- | 163.4639- | 2- | 12- | | 0-402913 | -5 | -5 | -5 | 15 | 31 | 18 | 7 | -10 | -15 | 2 | 13 |
| 02- | 65.4472- | 163.4678- | 2- | 12- | | 0-402914 | -5 | -5 | -5 | -10 | 51 | 21 | -5 | -10 | -15 | 1 | 4 |
| 02- | 65.4331- | 163.5608- | 2- | 15- | | 0-402915 | -5 | -5 | 8 | 27 | -20 | 29 | -5 | -10 | -15 | -1 | 11 |
| 02- | 65.4569- | 163.6167- | 2- | 12- | | 0-402916 | | | | | | | | | | 1 | 16 |
| 02- | 65.4264- | 163.7133- | 2- | 13- | | 0-402917 | | | | | | | | | | 5 | 36 |
| 02- | 65.4278- | 163.6625- | 2- | 13- | | 0-402918 | -5 | -5 | -5 | -10 | 40 | 21 | 13 | -10 | -15 | 3 | 49 |
| 02- | 65.5125- | 164.2014- | 2- | 13- | | 0-402919 | -5 | -5 | -5 | 29 | 28 | 45 | -5 | -10 | -15 | 1 | 19 |
| 02- | 65.5042- | 164.5556- | 2- | 15- | | 0-402932 | -5 | -5 | -5 | 61 | 63 | 68 | -5 | -10 | -15 | 3 | 35 |
| 02- | 65.4136- | 164.3450- | 2- | 13- | | 0-402933 | | | | | | | | | | 1 | 18 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.4958- | 163.8806- | 2- | 13- | | 0-402861 | 65600 | -0.03 | 754 | 8684 | 75 | 186 | 14.3 | 126 | 3.7 | 6 | 1.5 | 23250 | 6.3 | 14420 | 32 | 0.4 |
| 02- | 66.4944- | 164.0208- | 2- | 13- | | 0-402862 | 61670 | -0.08 | 677 | 10480 | 100 | 424 | 27.9 | 138 | 4.8 | 6 | 2.3 | 33810 | 8.9 | 10220 | 39 | 0.6 |
| 02- | 66.4714- | 164.6347- | 2- | 13- | | 0-402868 | 55860 | -0.03 | 557 | 10090 | 65 | -92 | 15.0 | 113 | 2.7 | 5 | 1.4 | 20780 | 7.9 | 8546 | 33 | 0.4 |
| 02- | 66.4236- | 164.6917- | 2- | 13- | | 0-402870 | 68120 | 0.03 | 700 | 13860 | 73 | 152 | 23.9 | 132 | 3.6 | 6 | 1.5 | 30520 | 6.5 | 12060 | 38 | 0.5 |
| 02- | 66.3375- | 164.6917- | 2- | 13- | | 0-402872 | 67780 | -0.07 | 634 | 10160 | 44 | -141 | 18.3 | 111 | -3.8 | 4 | 1.6 | 23390 | -2.5 | 14880 | 26 | 0.4 |
| 02- | 66.2819- | 164.7097- | 2- | 13- | | 0-402873 | 68150 | -0.04 | 759 | 10090 | 100 | -95 | 17.8 | 134 | 4.8 | 7 | 1.8 | 30070 | 9.0 | 13030 | 46 | 0.7 |
| 02- | 66.2528- | 164.7069- | 2- | 13- | | 0-402874 | 59890 | -0.05 | 471 | 13820 | 65 | 150 | 15.9 | 126 | -2.8 | 5 | 1.6 | 26480 | 6.8 | 9629 | 33 | 0.4 |
| 02- | 66.1986- | 164.7000- | 2- | 13- | | 0-402875 | 61010 | -0.03 | 575 | 9164 | 69 | 111 | 14.6 | 110 | 3.0 | 6 | 1.4 | 21570 | 6.2 | 12390 | 36 | 0.5 |
| 02- | 65.5000- | 164.4192- | 2- | 12- | | 0-402876 | 52740 | -0.02 | 680 | 9527 | 69 | -107 | 11.3 | 54 | 2.4 | 6 | 1.3 | 17600 | 7.9 | 9443 | 36 | 0.6 |
| 02- | 65.4972- | 164.3472- | 2- | 12- | | 0-402877 | 60000 | -0.03 | 684 | 11030 | 111 | -125 | 22.7 | 101 | 3.5 | 5 | 2.0 | 30370 | 10.1 | 10040 | 50 | 0.7 |
| 02- | 65.4486- | 164.2847- | 2- | 12- | | 0-402878 | 59860 | -0.04 | 903 | 11350 | 83 | -107 | 23.3 | 72 | 3.2 | 7 | 1.8 | 19630 | 7.2 | 10300 | 72 | 0.8 |
| 02- | 65.4700- | 164.4183- | 2- | 12- | | 0-402879 | 48730 | -0.02 | 802 | 14590 | 69 | -91 | 9.4 | 64 | 2.5 | 5 | 1.2 | 15580 | 5.7 | 8271 | 45 | 0.7 |
| 02- | 65.4472- | 164.2083- | 2- | 15- | | 0-402880 | 67100 | 0.06 | 938 | 11570 | 65 | 175 | 28.7 | 71 | 3.5 | 6 | 1.3 | 29320 | 4.6 | 10840 | 31 | 0.4 |
| 02- | 65.4183- | 164.2153- | 2- | 12- | | 0-402881 | 52250 | -0.03 | 856 | 11930 | 98 | -116 | 21.8 | 79 | 3.2 | 5 | 1.4 | 24490 | 8.2 | 13150 | 40 | 0.7 |
| 02- | 65.4361- | 164.0847- | 2- | 12- | | 0-402882 | 55050 | -0.03 | 536 | 12620 | 68 | -105 | 20.6 | 98 | 4.1 | 6 | 1.4 | 25780 | 9.0 | 7683 | 35 | 0.5 |
| 02- | 65.4472- | 164.0986- | 2- | 13- | | 0-402883 | 29560 | -0.06 | -455 | -2385 | 35 | 481 | 29.2 | 64 | -4.0 | -4 | -0.8 | 27800 | -3.0 | -4865 | 16 | -0.2 |
| 02- | 65.4222- | 164.1361- | 2- | 13- | | 0-402884 | 68870 | -0.03 | 1128 | 11580 | 83 | -134 | 16.9 | 97 | 5.7 | 6 | 1.6 | 21310 | 6.2 | 14010 | 37 | 0.4 |
| 02- | 65.4403- | 163.9778- | 2- | 13- | | 0-402885 | 72920 | -0.03 | 820 | 13750 | 104 | 281 | 19.2 | 108 | 5.3 | 5 | 1.8 | 32040 | 8.6 | 14690 | 46 | 0.7 |
| 02- | 65.4308- | 163.9839- | 2- | 13- | | 0-402886 | 80090 | -0.04 | 1200 | 10160 | 88 | 4118 | 15.0 | 94 | 4.6 | 7 | 1.5 | 28630 | 7.4 | 13150 | 43 | 0.5 |
| 02- | 65.4264- | 163.8806- | 2- | 13- | | 0-402887 | 70800 | -0.03 | 862 | 9545 | 85 | -88 | 15.6 | 95 | 4.6 | 6 | 1.7 | 21770 | 6.7 | 12680 | 38 | 0.5 |
| 02- | 65.4403- | 163.9306- | 2- | 12- | | 0-402888 | 83790 | -0.02 | 739 | 28030 | 107 | -140 | 12.0 | 74 | 4.7 | 6 | 1.5 | 19720 | 8.2 | 20140 | 55 | 0.5 |
| 02- | 65.4472- | 163.7806- | 2- | 15- | | 0-402889 | 56820 | 0.12 | -299 | 8008 | 67 | 178 | 39.6 | 103 | 5.5 | 4 | 1.9 | 96120 | 4.3 | -5893 | 29 | 0.5 |
| 02- | 65.4767- | 163.7400- | 2- | 12- | | 0-402890 | 69610 | -0.04 | 817 | 12360 | 72 | -103 | 11.5 | 88 | 3.1 | 7 | 1.7 | 24070 | 8.1 | 12570 | 40 | 0.5 |
| 02- | 65.4931- | 163.6347- | 2- | 13- | | 0-402892 | 69850 | -0.03 | 788 | 15320 | 76 | 429 | 13.2 | 63 | -25.8 | 6 | 2.0 | 22610 | 6.9 | 12450 | 37 | 0.6 |
| 02- | 65.4978- | 163.6167- | 2- | 15- | | 0-402893 | 72960 | -0.02 | 707 | 37330 | 70 | -96 | 14.5 | 81 | 3.9 | 7 | 1.2 | 28290 | 5.4 | 15050 | 32 | 0.5 |
| 02- | 65.5639- | 163.5306- | 2- | 13- | | 0-402894 | 69890 | -0.03 | 472 | 4827 | 235 | -78 | 20.1 | 107 | 4.9 | 12 | 3.0 | 36510 | 9.5 | 12260 | 104 | 1.4 |
| 02- | 65.5625- | 163.5722- | 2- | 13- | | 0-402895 | 45340 | -0.09 | -424 | 11120 | 46 | 316 | 22.1 | 134 | -5.7 | 5 | -9.0 | 26700 | -4.4 | -5800 | 28 | -0.3 |
| 02- | 65.5783- | 163.3808- | 2- | 13- | | 0-402896 | 59570 | -0.04 | 709 | 9985 | 64 | 384 | 17.7 | 67 | 4.2 | 6 | 1.7 | 19620 | 4.9 | 10220 | 28 | 0.6 |
| 02- | 65.5767- | 163.3150- | 2- | 12- | | 0-402897 | 78560 | -0.03 | 744 | 13230 | 63 | 442 | 10.5 | 71 | 3.9 | 6 | 1.6 | 22700 | 6.0 | 12680 | 31 | 0.5 |
| 02- | 65.5517- | 163.3583- | 2- | 13- | | 0-402899 | 82070 | -0.08 | 1036 | -2265 | 115 | -204 | 41.7 | 186 | 8.3 | -4 | 3.0 | 41890 | 7.2 | 12550 | 46 | 0.7 |
| 02- | 65.6639- | 163.2250- | 2- | 12- | | 0-402900 | 84670 | -0.05 | 809 | 33280 | 56 | 218 | 22.3 | 151 | -3.7 | 4 | 1.3 | 27870 | 4.9 | 16310 | 23 | -0.2 |
| 02- | 65.6350- | 163.1556- | 2- | 13- | | 0-402901 | 90770 | -0.06 | 912 | -1975 | 115 | -155 | 32.5 | 116 | 9.0 | 7 | 2.8 | 33240 | 6.1 | 13020 | 61 | 0.6 |
| 02- | 65.5800- | 163.0583- | 2- | 15- | | 0-402902 | 77910 | -0.04 | 712 | 13120 | 75 | -134 | 24.9 | 127 | 4.4 | 6 | 1.7 | 38040 | 6.0 | 11930 | 36 | 0.4 |
| 02- | 65.5500- | 163.0428- | 2- | 12- | | 0-402903 | 61530 | -0.04 | 529 | 16540 | 82 | 861 | 13.5 | 51 | -3.3 | 4 | 2.1 | 31800 | 6.6 | 10440 | 29 | 0.6 |
| 02- | 65.5292- | 163.0417- | 2- | 12- | | 0-402904 | 81800 | | -505 | 10800 | | -190 | | | | 6 | | | | -7860 | | |
| 02- | 65.5106- | 163.1997- | 2- | 13- | | 0-402906 | 74970 | -0.15 | 919 | 6555 | 130 | 237 | 27.9 | 141 | 11.4 | 5 | 3.2 | 54650 | 8.9 | 14190 | 49 | 0.4 |
| 02- | 65.4700- | 163.2117- | 2- | 13- | | 0-402907 | 74980 | -0.14 | 532 | 17940 | 138 | 368 | 21.4 | 111 | 7.6 | 5 | 3.4 | 44960 | 13.4 | 12220 | 38 | 0.5 |
| 02- | 65.4550- | 163.2533- | 2- | 13- | | 0-402908 | 82320 | -0.20 | 786 | 9915 | 135 | -126 | 35.0 | 192 | 11.1 | 5 | 3.2 | 70840 | 10.0 | 13630 | | 0.8 |
| 02- | 65.4700- | 163.2867- | 2- | 13- | | 0-402909 | 60040 | -0.22 | 629 | 8084 | 235 | 219 | 50.7 | 251 | 8.6 | 12 | 6.8 | 58500 | 11.4 | 11270 | | 0.8 |
| 02- | 65.4333- | 163.3800- | 2- | 13- | | 0-402910 | | | | | | | | | | | | | | | | |
| 02- | 65.4417- | 163.3708- | 2- | 13- | | 0-402911 | | | | | | | | | | | | | | | | |
| 02- | 65.4567- | 163.4133- | 2- | 13- | | 0-402912 | 74800 | -0.16 | 608 | 13040 | 134 | 122 | 38.8 | 206 | 9.4 | 6 | 2.9 | 57090 | 11.6 | 11090 | 54 | 0.4 |
| 02- | 65.4319- | 163.4639- | 2- | 12- | | 0-402913 | 72620 | -0.16 | 582 | 14790 | 241 | 318 | 31.4 | 257 | 11.4 | 6 | 4.5 | 78970 | 23.6 | 10370 | | 0.7 |
| 02- | 65.4472- | 163.4678- | 2- | 12- | | 0-402914 | | | | | | | | | | | | | | | | |
| 02- | 65.4331- | 163.5608- | 2- | 15- | | 0-402915 | 52660 | -0.22 | -368 | 19830 | 116 | -151 | 143.8 | 91 | 5.4 | 5 | 2.2 | 71550 | 9.0 | -7605 | -44 | -0.4 |
| 02- | 65.4569- | 163.6167- | 2- | 12- | | 0-402916 | 69240 | -0.21 | 613 | 10910 | 113 | 276 | 53.0 | 136 | 8.1 | 5 | 2.4 | 61270 | 11.5 | 13460 | | -0.4 |
| 02- | 65.4264- | 163.7133- | 2- | 13- | | 0-402917 | 81770 | | 505 | 30650 | 540 | -152 | 18.0 | 91 | 6.3 | 15 | 3.8 | 42120 | 28.4 | 17620 | 198 | 1.0 |
| 02- | 65.4278- | 163.6625- | 2- | 13- | | 0-402918 | 83360 | -0.10 | 618 | 33770 | 299 | -131 | 21.3 | 101 | 6.7 | 8 | 3.3 | 33770 | 16.5 | 17930 | 85 | 0.6 |
| 02- | 65.5125- | 164.2014- | 2- | 13- | | 0-402919 | 60520 | -0.18 | 770 | 11640 | 63 | 276 | 31.4 | 102 | 7.9 | 5 | 2.3 | 36990 | 9.7 | 13820 | | 0.5 |
| 02- | 65.5042- | 164.5556- | 2- | 15- | | 0-402932 | 115400 | -0.15 | 931 | 4982 | 239 | -105 | 48.8 | 245 | 16.0 | 10 | 4.1 | 74480 | 14.5 | 28680 | 84 | 0.9 |
| 02- | 65.4136- | 164.3450- | 2- | 13- | | 0-402933 | 80410 | -0.16 | 940 | 7642 | 103 | -108 | 34.9 | 150 | 10.5 | 6 | 2.2 | 49240 | 7.1 | 14730 | | -0.9 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

④

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 66.4958- | 163.8806- | 2- | 13- | | 0-402861 | 16680 | 339 | 11580 | 48 | | 13.5 | 6.1 | -274 | -1 | | 10.2 | 5472 | 123 | 3.3 | 118 | 0.245 |
| 02- | 66.4944- | 164.0208- | 2- | 13- | | 0-402862 | 18810 | 325 | 8971 | -67 | -2 | 18.7 | 7.4 | -629 | -4 | -2 | 12.2 | 5623 | 116 | 4.8 | 320 | 0.164 |
| 02- | 66.4714- | 164.6347- | 2- | 13- | | 0-402868 | 18050 | 342 | 11970 | -27 | -1 | 12.1 | 4.7 | -306 | | | 7.4 | 5955 | 105 | 3.6 | 152 | 0.338 |
| 02- | 66.4236- | 164.6917- | 2- | 13- | | 0-402870 | 21200 | 497 | 11310 | 42 | -1 | 16.4 | 6.8 | -330 | -6 | -1 | 9.4 | 7870 | 135 | 3.7 | 144 | 0.255 |
| 02- | 66.3375- | 164.6917- | 2- | 13- | | 0-402872 | 20940 | 340 | 10230 | -53 | -2 | 13.8 | 4.1 | -535 | -3 | -1 | 6.0 | 5386 | 127 | 2.7 | 209 | 0.333 |
| 02- | 66.2819- | 164.7097- | 2- | 13- | | 0-402873 | 16860 | 378 | 11240 | 56 | -1 | 16.3 | 8.7 | -330 | -3 | -1 | 14.4 | 7004 | 124 | 5.3 | 204 | 0.208 |
| 02- | 66.2528- | 164.7069- | 2- | 13- | | 0-402874 | 20470 | 544 | 11300 | -40 | -1 | 13.8 | 5.4 | -435 | -4 | -1 | 9.2 | 5294 | 126 | 4.0 | | 0.283 |
| 02- | 66.1986- | 164.7000- | 2- | 13- | | 0-402875 | 16920 | 314 | 12460 | 46 | | 12.2 | 6.1 | -273 | -7 | | 9.2 | 5843 | 105 | 4.2 | 137 | 0.250 |
| 02- | 65.5000- | 164.4192- | 2- | 12- | | 0-402876 | 10240 | 1138 | 12220 | -19 | | 8.8 | 6.9 | -440 | -3 | -1 | 10.0 | 6105 | 86 | 4.3 | 108 | 0.400 |
| 02- | 65.4972- | 164.3472- | 2- | 12- | | 0-402877 | 12930 | 962 | 12650 | 59 | | 13.4 | 9.2 | -512 | -5 | -1 | 14.7 | 5650 | 104 | 5.6 | 142 | 0.259 |
| 02- | 65.4486- | 164.2847- | 2- | 12- | | 0-402878 | 14820 | 1325 | 10800 | 65 | -1 | 11.3 | 10.1 | -482 | -2 | | 12.5 | 8466 | 126 | 6.0 | | 0.384 |
| 02- | 65.4700- | 164.4183- | 2- | 12- | | 0-402879 | 6802 | 1232 | 10350 | 36 | | 8.6 | 10.2 | -391 | 1 | -1 | 10.3 | 5866 | 75 | 5.7 | 96 | 0.359 |
| 02- | 65.4472- | 164.2083- | 2- | 15- | | 0-402880 | 16940 | 975 | 11150 | 35 | | 11.4 | 5.2 | -501 | -7 | | 9.4 | 5371 | 119 | 3.3 | 171 | 0.309 |
| 02- | 65.4183- | 164.2153- | 2- | 12- | | 0-402881 | 9533 | 1134 | 11280 | -27 | | 11.4 | 8.6 | -511 | 3 | 1 | 14.7 | 4597 | 105 | 5.3 | -47 | 0.245 |
| 02- | 65.4361- | 164.0847- | 2- | 12- | | 0-402882 | 14540 | 1411 | 9382 | -35 | -1 | 11.2 | 5.5 | -491 | -1 | -1 | 9.4 | 5978 | 99 | 3.2 | | 0.372 |
| 02- | 65.4472- | 164.0986- | 2- | 13- | | 0-402883 | 13210 | 207 | 5468 | -63 | -1 | 6.9 | 2.9 | -612 | -3 | -2 | 6.0 | 3101 | 59 | -2.2 | 287 | 0.167 |
| 02- | 65.4222- | 164.1361- | 2- | 13- | | 0-402884 | 14140 | 673 | 11510 | -34 | -1 | 12.1 | 7.1 | -541 | -3 | -1 | 12.0 | 6383 | 140 | 3.8 | 169 | 0.367 |
| 02- | 65.4403- | 163.9778- | 2- | 13- | | 0-402885 | 18630 | 619 | 12950 | 53 | 2 | 16.6 | 8.7 | -410 | -5 | -1 | 14.1 | 5359 | 140 | 5.0 | 169 | 0.234 |
| 02- | 65.4308- | 163.9839- | 2- | 13- | | 0-402886 | 20110 | 466 | 12190 | -34 | 1 | 15.7 | 6.5 | -326 | | -1 | 11.2 | 6490 | 153 | 3.3 | 96 | 0.348 |
| 02- | 65.4264- | 163.8806- | 2- | 13- | | 0-402887 | 13920 | 374 | 11010 | 41 | | 13.9 | 7.2 | -306 | -3 | -1 | 10.7 | 5543 | 117 | 4.4 | 133 | 0.299 |
| 02- | 65.4403- | 163.9306- | 2- | 12- | | 0-402888 | 20970 | 898 | 24100 | 55 | | 8.6 | 10.5 | -461 | -5 | 1 | 24.1 | 5741 | 74 | 3.7 | 124 | 0.336 |
| 02- | 65.4472- | 163.7806- | 2- | 15- | | 0-402889 | 12620 | 1045 | 5490 | -50 | -1 | 14.4 | 6.5 | -626 | -8 | -1 | 9.4 | 4345 | 176 | 3.3 | 186 | 0.191 |
| 02- | 65.4767- | 163.7400- | 2- | 12- | | 0-402890 | 14580 | 390 | 13700 | -37 | -1 | 12.4 | 6.0 | -351 | -8 | -1 | 11.7 | 6979 | 123 | 3.6 | | 0.308 |
| 02- | 65.4931- | 163.6347- | 2- | 13- | | 0-402892 | 12600 | 603 | 19320 | -29 | -1 | 13.7 | 6.9 | -425 | -3 | | 10.3 | 4564 | 81 | 5.2 | 151 | 0.252 |
| 02- | 65.4978- | 163.6167- | 2- | 15- | | 0-402893 | 28530 | 662 | 10080 | 51 | | 12.6 | 5.0 | -384 | -7 | | 8.8 | 7117 | 135 | 3.6 | 118 | 0.261 |
| 02- | 65.5639- | 163.5306- | 2- | 13- | | 0-402894 | 23150 | 420 | 6644 | 45 | 1 | 14.5 | 17.8 | -326 | -10 | -1 | 29.7 | 6209 | 123 | 11.1 | 145 | 0.135 |
| 02- | 65.5625- | 163.5722- | 2- | 13- | | 0-402895 | 17050 | 349 | 7847 | -87 | -2 | 10.2 | -4.8 | -667 | -7 | -3 | 8.0 | 5582 | 93 | -3.1 | -446 | 0.213 |
| 02- | 65.5783- | 163.3808- | 2- | 13- | | 0-402896 | 13730 | 356 | 10750 | -33 | -1 | 13.5 | 5.7 | -403 | -5 | -1 | 8.0 | 5110 | 95 | 2.9 | -95 | 0.250 |
| 02- | 65.5767- | 163.3150- | 2- | 12- | | 0-402897 | 13870 | 625 | 18340 | -25 | | 15.5 | 5.7 | -427 | -5 | | 7.8 | 6803 | 112 | 3.3 | 179 | 0.333 |
| 02- | 65.5517- | 163.3583- | 2- | 13- | | 0-402899 | 19550 | 693 | 10040 | -78 | -2 | 24.3 | 10.2 | -927 | 21 | -2 | 13.4 | 7078 | 140 | 5.6 | 351 | 0.179 |
| 02- | 65.6639- | 163.2250- | 2- | 12- | | 0-402900 | 19990 | 643 | 20320 | -53 | -1 | 11.3 | 2.7 | -545 | -3 | -1 | 5.9 | 9032 | 111 | 2.8 | 298 | 0.356 |
| 02- | 65.6350- | 163.1556- | 2- | 13- | | 0-402901 | 20080 | 395 | 10370 | -54 | -1 | 19.9 | 8.0 | -606 | -7 | -1 | 20.1 | 6194 | 191 | 4.6 | -165 | 0.164 |
| 02- | 65.5800- | 163.0583- | 2- | 15- | | 0-402902 | 15980 | 754 | 10050 | -38 | -1 | 16.5 | 5.7 | -577 | -6 | -1 | 9.0 | 7990 | 148 | 2.6 | 194 | 0.300 |
| 02- | 65.5500- | 163.0428- | 2- | 12- | | 0-402903 | 11920 | 650 | 22040 | -44 | -1 | 14.2 | 7.1 | -650 | -6 | -1 | 7.3 | 6185 | 79 | 5.0 | 232 | 0.288 |
| 02- | 65.5292- | 163.0417- | 2- | 12- | | 0-402904 | 18000 | 469 | 11200 | | | | | -822 | | | | 7900 | 138 | | | |
| 02- | 65.5108- | 163.1997- | 2- | 13- | | 0-402906 | 15000 | 332 | 10300 | 106 | -4 | 36.7 | 4.8 | -325 | -1 | | 19.0 | 5789 | 124 | 2.8 | 219 | 0.137 |
| 02- | 65.4700- | 163.2117- | 2- | 13- | | 0-402907 | 13730 | 465 | 22000 | -44 | -4 | 28.5 | 6.2 | -441 | -1 | -1 | 15.9 | 5185 | 78 | 5.3 | 252 | 0.157 |
| 02- | 65.4550- | 163.2533- | 2- | 13- | | 0-402908 | 20180 | 434 | 12550 | -72 | -6 | 38.2 | 3.8 | -444 | -13 | -2 | 18.8 | 5904 | 136 | -4.3 | -505 | 0.154 |
| 02- | 65.4700- | 163.2867- | 2- | 13- | | 0-402909 | 13490 | 325 | 5854 | -68 | -7 | 52.6 | 12.1 | -410 | -2 | 4 | 27.8 | 7131 | 127 | 7.3 | 438 | 0.162 |
| 02- | 65.4333- | 163.3800- | 2- | 13- | | 0-402910 | | | | | | | | | | | | | | | | |
| 02- | 65.4417- | 163.3708- | 2- | 13- | | 0-402911 | | | | | | | | | | | | | | | | |
| 02- | 65.4567- | 163.4133- | 2- | 13- | | 0-402912 | 17110 | 297 | 11910 | -49 | -5 | 35.6 | 4.8 | -353 | -1 | -2 | 17.7 | 6776 | 125 | 4.7 | 311 | 0.158 |
| 02- | 65.4319- | 163.4639- | 2- | 12- | | 0-402913 | 12220 | 313 | 17510 | 94 | -5 | 40.4 | 7.0 | -373 | 3 | 4 | 32.1 | 5913 | 83 | -3.4 | -45 | 0.103 |
| 02- | 65.4472- | 163.4678- | 2- | 12- | | 0-402914 | | | | | | | | | | | | | | | | |
| 02- | 65.4331- | 163.5608- | 2- | 15- | | 0-402915 | 11230 | 1658 | 7385 | -86 | -6 | 22.6 | 2.9 | -820 | -3 | -2 | 11.1 | 5009 | 113 | -5.0 | 325 | 0.198 |
| 02- | 65.4569- | 163.6167- | 2- | 12- | | 0-402916 | 15370 | 660 | 14020 | -72 | -6 | 22.6 | 5.0 | -680 | -3 | -2 | 15.7 | 5264 | 115 | 4.6 | 351 | 0.204 |
| 02- | 65.4264- | 163.7133- | 2- | 13- | | 0-402917 | 18540 | 1067 | 26130 | 120 | -3 | 14.8 | 27.9 | -520 | 6 | 4 | 143.7 | 8293 | 77 | 9.4 | 195 | 0.149 |
| 02- | 65.4278- | 163.6625- | 2- | 13- | | 0-402918 | 16830 | 534 | 24170 | 77 | -3 | 16.0 | 16.2 | -403 | 3 | -1 | 64.2 | 5275 | 63 | 9.7 | 173 | 0.171 |
| 02- | 65.5125- | 164.2014- | 2- | 13- | | 0-402919 | 15820 | 444 | 10260 | -57 | -5 | 22.7 | 4.0 | -453 | -2 | -2 | 11.5 | 4489 | 110 | -4.4 | -116 | 0.209 |
| 02- | 65.5042- | 164.5556- | 2- | 15- | | 0-402932 | 19990 | 994 | 9716 | 146 | -3 | 45.2 | 10.7 | -465 | 2 | 3 | 32.7 | 9111 | 213 | 8.8 | 168 | 0.147 |
| 02- | 65.4136- | 164.3450- | 2- | 13- | | 0-402933 | 19110 | 473 | 9112 | -52 | -5 | 30.3 | 5.4 | -420 | -1 | -1 | 15.0 | 5514 | 167 | -14.3 | 212 | 0.200 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (umho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 65.3806- | 164.3736- | 2- | 13- | | 0-402934- | 07/31/76- | 15- | 16- | 14.1- | - | - | 7.3- | 2- | | -2- | 7- | 4- | 6- | - | 3- | 4- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 65.3617- | 164.2500- | 2- | 13- | | 0-402935- | 07/31/76- | 15- | 16- | 14.8- | - | - | 7.8- | 76- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 65.3833- | 164.0750- | 2- | 13- | | 0-402937- | 07/31/76- | 15- | 16- | 16.2- | - | - | 7.8- | 2- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 4.20 |
| 02- | 65.3689- | 163.9733- | 2- | 13- | | 0-402938- | 07/31/76- | 15- | 16- | 14.8- | - | - | 8.9- | 21- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 65.3708- | 163.8708- | 2- | 12- | | 0-402939- | 07/31/76- | 15- | 16- | 11.6- | - | - | 6.8- | 40- | | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 10.40 |
| 02- | 65.3819- | 163.7569- | 2- | 13- | | 0-402940- | 07/31/76- | 15- | 16- | 14.7- | - | - | 7.7- | 25- | | -2- | 7- | 4- | 6- | - | 3- | 4- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 5.10 |
| 02- | 65.3861- | 163.6500- | 2- | 12- | | 0-402941- | 07/31/76- | 15- | 16- | 10.8- | - | - | 7.0- | 150- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 25.40 |
| 02- | 65.3764- | 163.5153- | 2- | 15- | | 0-402942- | 07/31/76- | 15- | 16- | - | - | - | - | - | | 6- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 5.40 |
| 02- | 65.3444- | 163.3431- | 2- | 12- | | 0-402943- | 07/31/76- | 16- | 13- | 11.0- | - | - | 7.6- | 25- | | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 8.00 |
| 02- | 65.3833- | 163.2428- | 2- | 13- | | 0-402945- | 07/31/76- | 16- | 13- | 11.8- | - | - | 7.8- | 7- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 10.20 |
| 02- | 65.3431- | 163.1097- | 2- | 12- | | 0-402946- | 07/31/76- | 16- | 13- | 10.0- | - | - | 7.8- | 9- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.40 |
| 02- | 65.3269- | 163.0472- | 2- | 12- | | 0-402947- | 07/31/76- | 16- | 13- | 9.6- | - | - | 6.0- | 9- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 6.00 |
| 02- | 65.3500- | 164.3542- | 2- | 13- | | 0-402948- | 07/31/76- | 17- | 13- | 14.4- | - | - | 7.3- | 78- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.30 |
| 02- | 65.3375- | 164.2458- | 2- | 13- | | 0-402949- | 07/31/76- | 17- | 15- | 14.5- | - | - | 7.1- | 34- | | -2- | 7- | 4- | 6- | - | 3- | 4- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.10 |
| 02- | 65.3333- | 164.1833- | 2- | 13- | | 0-402950- | 07/31/76- | 17- | 15- | 14.9- | - | - | 7.3- | 26- | | -2- | 7- | 4- | 6- | - | 3- | 4- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.00 |
| 02- | 65.8458- | 164.4750- | 2- | 12- | | 0-402951- | 07/31/76- | 19- | 14- | 10.2- | C- | - | - | 100- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 5.60 |
| 02- | 65.8458- | 164.4233- | 2- | 12- | | 0-402952- | 07/31/76- | 19- | 13- | 10.4- | C- | - | - | 220- | | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 4.60 |
| 02- | 65.9000- | 164.4000- | 2- | 12- | | 0-402953- | 07/31/76- | 19- | 13- | 10.8- | C- | - | - | 70- | | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.60 |
| 02- | 65.9139- | 164.4056- | 2- | 12- | | 0-402954- | 07/31/76- | 19- | 13- | 11.4- | C- | - | - | 100- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 5.10 |
| 02- | 65.9639- | 164.3889- | 2- | 12- | | 0-402955- | 07/31/76- | 19- | 16- | 11.4- | C- | S- | - | 70- | | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 4.60 |
| 02- | 65.9708- | 164.3139- | 2- | 12- | | 0-402956- | 07/31/76- | 19- | 16- | 11.2- | C- | - | - | 20- | | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.1200- | 164.2633- | 2- | 13- | | 0-402958- | 07/31/76- | 19- | 16- | 15.9- | - | S- | 7.6- | 73- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.90 |
| 02- | 66.1294- | 164.2100- | 2- | 13- | | 0-402959- | 07/31/76- | 19- | 16- | 16.4- | - | S- | 7.8- | 32- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.1356- | 164.2317- | 2- | 13- | | 0-402960- | 07/31/76- | 19- | 16- | 15.8- | - | S- | 7.5- | 47- | | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.2083- | 164.2903- | 2- | 12- | | 0-402961- | 07/31/76- | 19- | 16- | 10.8- | C- | - | - | 700- | | 6- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.90 |
| 02- | 66.1806- | 164.3050- | 2- | 13- | | 0-402962- | 07/31/76- | 19- | 16- | 11.2- | C- | - | - | 1500- | | 16- | 2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.1600- | 164.3700- | 2- | 12- | | 0-402964- | 07/31/76- | 19- | 16- | 11.4- | C- | - | - | 180- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.1583- | 164.4467- | 2- | 12- | | 0-402965- | 07/31/76- | 19- | 16- | 11.4- | C- | - | - | 220- | | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.20 |
| 02- | 66.1256- | 164.4100- | 2- | 12- | | 0-402966- | 07/31/76- | 20- | 16- | 10.6- | C- | - | - | 55- | | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.00 |
| 02- | 66.1600- | 164.5333- | 2- | 13- | | 0-402967- | 07/31/76- | 20- | 16- | 16.5- | - | S- | 8.4- | 155- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.2064- | 164.5153- | 2- | 13- | | 0-402968- | 07/31/76- | 20- | 16- | 11.8- | C- | - | - | 70- | | 0- | 2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.30 |
| 02- | 66.2197- | 164.4967- | 2- | 12- | | 0-402969- | 07/31/76- | 20- | 16- | 11.6- | C- | - | - | 70- | | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.20 |
| 02- | 66.2081- | 164.5367- | 2- | 12- | | 0-402970- | 07/31/76- | 20- | 16- | 11.8- | C- | - | - | 60- | | 89- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.80 |
| 02- | 66.2236- | 164.5500- | 2- | 12- | | 0-402971- | 07/31/76- | 20- | 16- | - | - | - | - | - | | 9- | 2- | 7- | 4- | 6- | - | - | - | - | 3- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.90 |
| 02- | 66.2733- | 164.5767- | 2- | 13- | | 0-402972- | 07/31/76- | 20- | 17- | 16.4- | - | S- | 8.2- | 2- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 3- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.4356- | 164.4950- | 2- | 13- | | 0-402976- | 07/31/76- | 20- | 16- | 15.5- | - | S- | 7.6- | 2- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.30 |
| 02- | 66.4167- | 164.3567- | 2- | 12- | | 0-402979- | 07/31/76- | 20- | 15- | 10.8- | C- | - | - | 110- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 0.90 |
| 02- | 66.4186- | 164.3075- | 2- | 15- | | 0-402980- | 07/31/76- | 20- | 15- | - | - | - | - | - | | 26- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.40 |
| 02- | 66.3614- | 164.3100- | 2- | 12- | | 0-402981- | 07/31/76- | 20- | 15- | 11.8- | C- | - | - | 45- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 3- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.90 |
| 02- | 66.3761- | 164.3508- | 2- | 12- | | 0-402982- | 07/31/76- | 20- | 15- | 11.4- | C- | - | - | 95- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.80 |
| 02- | 66.3167- | 164.4100- | 2- | 13- | | 0-402985- | 07/31/76- | 21- | 15- | 16.2- | C- | S- | 7.6- | 56- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.10 |
| 02- | 66.2633- | 164.4111- | 2- | 13- | | 0-402987- | 07/31/76- | 21- | 16- | 16.7- | - | - | 7.7- | 38- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.2267- | 164.3700- | 2- | 13- | | 0-402988- | 07/31/76- | 21- | 15- | 16.1- | - | S- | 7.3- | 35- | | -2- | 7- | 4- | 6- | - | 3- | 2- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.50 |
| 02- | 66.2294- | 164.3000- | 2- | 13- | | 0-402989- | 07/31/76- | 21- | 14- | 15.7- | - | S- | 7.5- | 118- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.1767- | 164.2000- | 2- | 13- | | 0-402990- | 07/31/76- | 21- | 14- | 16.2- | - | S- | 7.9- | 61- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.1667- | 164.0542- | 2- | 13- | | 0-402991- | 07/31/76- | 21- | 15- | 15.4- | - | S- | 7.5- | 72- | | -2- | 7- | 4- | 6- | - | 3- | 1- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.00 |
| 02- | 66.1211- | 164.1217- | 2- | 13- | | 0-402992- | 07/31/76- | 21- | 16- | 15.7- | - | S- | 7.6- | 2- | | -2- | 7- | 4- | 6- | - | 3- | 2- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.0767- | 164.2067- | 2- | 13- | | 0-402993- | 07/31/76- | 21- | 13- | 16.1- | - | S- | 7.5- | 14- | | -2- | 7- | 4- | 6- | - | 3- | 2- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.0100- | 164.2833- | 2- | 12- | | 0-402995- | 07/31/76- | 21- | 14- | 11.4- | C- | - | - | 60- | | 9- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.90 |
| 02- | 65.9978- | 164.2800- | 2- | 13- | | 0-402996- | 07/31/76- | 21- | 14- | 11.4- | C- | - | - | 45- | | 9- | 2- | 7- | 4- | 6- | - | 3- | 2- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 4.30 |
| 02- | 65.9389- | 164.2847- | 2- | 13- | | 0-402998- | 07/31/76- | 21- | 14- | 14.9- | - | S- | 7.5- | 23- | | -2- | 7- | 4- | 6- | - | 3- | 2- | - | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 65.3806- | 164.3736- | 2- | 13- | | 0-402934 | -5 | -5 | -5 | 37 | 26 | 37 | 5 | -10 | -15 | 2 | 15 |
| 02- | 65.3617- | 164.2500- | 2- | 13- | | 0-402935 | -5 | -5 | -5 | 33 | 30 | 39 | -5 | -10 | -15 | 2 | 13 |
| 02- | 65.3833- | 164.0750- | 2- | 13- | | 0-402937 | -5 | -5 | -5 | 56 | 26 | 39 | -5 | -10 | -15 | 3 | 31 |
| 02- | 65.3689- | 163.9733- | 2- | 13- | | 0-402938 | | | | | | | | | | -1 | 11 |
| 02- | 65.3708- | 163.8708- | 2- | 12- | | 0-402939 | -5 | -5 | -5 | 57 | -20 | 43 | 11 | -10 | -15 | 3 | 39 |
| 02- | 65.3819- | 163.7569- | 2- | 13- | | 0-402940 | -5 | -5 | -5 | 32 | 20 | 20 | -5 | -10 | -15 | 2 | 10 |
| 02- | 65.3861- | 163.6500- | 2- | 12- | | 0-402941 | -5 | -5 | 5 | 28 | -20 | -15 | 7 | -10 | -15 | 3 | 31 |
| 02- | 65.3764- | 163.5153- | 2- | 15- | | 0-402942 | -5 | -5 | -5 | 19 | 25 | -15 | -5 | -10 | -15 | 3 | 37 |
| 02- | 65.3444- | 163.3431- | 2- | 12- | | 0-402943 | -5 | -5 | -5 | 19 | 42 | 20 | 15 | 10 | -15 | 2 | 62 |
| 02- | 65.3833- | 163.2428- | 2- | 13- | | 0-402945 | | | | | | | | | | 4 | 56 |
| 02- | 65.3431- | 163.1097- | 2- | 12- | | 0-402946 | | | | | | | | | | 2 | 35 |
| 02- | 65.3269- | 163.0472- | 2- | 12- | | 0-402947 | -5 | -5 | -5 | 13 | 39 | 22 | -5 | -10 | -15 | 3 | 39 |
| 02- | 65.3500- | 164.3542- | 2- | 13- | | 0-402948 | -5 | -5 | -5 | 41 | 26 | 27 | -5 | -10 | -15 | -1 | 13 |
| 02- | 65.3375- | 164.2458- | 2- | 13- | | 0-402949 | -5 | -5 | -5 | 32 | 20 | 22 | -5 | -10 | -15 | 1 | 27 |
| 02- | 65.3333- | 164.1833- | 2- | 13- | | 0-402950 | -5 | -5 | -5 | 28 | 36 | 35 | -5 | -10 | -15 | 2 | 17 |
| 02- | 65.8458- | 164.4750- | 2- | 12- | | 0-402951 | | | | | | | | | | 2 | 44 |
| 02- | 65.8458- | 164.4233- | 2- | 12- | | 0-402952 | -5 | -5 | 5 | 35 | 22 | 33 | 7 | 32 | -15 | 3 | 42 |
| 02- | 65.9000- | 164.4000- | 2- | 12- | | 0-402953 | -5 | -5 | -5 | 22 | -20 | 22 | -5 | -10 | -15 | 2 | 26 |
| 02- | 65.9139- | 164.4056- | 2- | 12- | | 0-402954 | | | | | | | | | | 3 | 27 |
| 02- | 65.9639- | 164.3889- | 2- | 12- | | 0-402955 | -5 | -5 | -5 | 18 | 28 | 44 | 6 | 18 | -15 | 3 | 29 |
| 02- | 65.9708- | 164.3139- | 2- | 12- | | 0-402956 | -5 | -5 | -5 | 19 | -20 | 16 | 7 | -10 | -15 | 1 | 19 |
| 02- | 66.1200- | 164.2633- | 2- | 13- | | 0-402958 | -5 | -5 | -5 | 17 | 36 | 27 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.1294- | 164.2100- | 2- | 13- | | 0-402959 | -5 | -5 | -5 | 30 | -20 | 38 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.1356- | 164.2317- | 2- | 13- | | 0-402960 | -5 | -5 | -5 | 22 | 44 | 33 | -5 | -10 | -15 | 3 | 35 |
| 02- | 66.2083- | 164.2903- | 2- | 12- | | 0-402961 | -5 | -5 | -5 | 12 | -20 | 25 | -5 | -10 | -15 | 1 | 12 |
| 02- | 66.1806- | 164.3050- | 2- | 13- | | 0-402962 | -5 | -5 | -5 | 20 | -20 | 19 | -5 | -10 | -15 | 2 | 17 |
| 02- | 66.1600- | 164.3700- | 2- | 12- | | 0-402964 | -5 | -5 | -5 | 22 | -20 | 32 | -5 | -10 | -15 | -1 | 21 |
| 02- | 66.1583- | 164.4467- | 2- | 12- | | 0-402965 | -5 | 6 | -5 | 21 | -20 | 24 | -5 | -10 | -15 | 2 | 13 |
| 02- | 66.1256- | 164.4100- | 2- | 12- | | 0-402966 | -5 | -5 | -5 | 26 | -20 | 32 | -5 | -10 | -15 | -1 | 11 |
| 02- | 66.1600- | 164.5333- | 2- | 13- | | 0-402967 | -5 | -5 | -5 | 28 | -20 | 30 | -5 | -10 | -15 | 1 | 20 |
| 02- | 66.2064- | 164.5153- | 2- | 13- | | 0-402968 | -5 | -5 | -5 | 19 | 38 | 16 | -5 | -10 | -15 | 2 | 19 |
| 02- | 66.2197- | 164.4967- | 2- | 12- | | 0-402969 | -5 | -5 | -5 | 16 | 45 | 28 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.2081- | 164.5367- | 2- | 12- | | 0-402970 | -5 | -5 | -5 | 19 | 35 | 28 | -5 | -10 | -15 | 2 | 15 |
| 02- | 66.2236- | 164.5500- | 2- | 12- | | 0-402971 | -5 | -5 | -5 | 11 | -20 | 35 | -5 | -10 | -15 | 1 | 13 |
| 02- | 66.2733- | 164.5767- | 2- | 13- | | 0-402972 | -5 | -5 | -5 | 42 | 50 | 52 | -5 | -10 | -15 | 2 | 15 |
| 02- | 66.4356- | 164.4950- | 2- | 13- | | 0-402976 | -5 | -5 | -5 | 33 | -20 | 62 | -5 | -10 | -15 | 2 | 18 |
| 02- | 66.4167- | 164.3567- | 2- | 12- | | 0-402979 | | | | | | | | | | 1 | 10 |
| 02- | 66.4186- | 164.3075- | 2- | 15- | | 0-402980 | | | | | | | | | | 1 | 11 |
| 02- | 66.3614- | 164.3100- | 2- | 12- | | 0-402981 | -5 | -5 | -5 | 28 | 39 | 50 | -5 | -10 | -15 | 2 | 16 |
| 02- | 66.3761- | 164.3508- | 2- | 12- | | 0-402982 | -5 | -5 | -5 | 21 | -20 | 36 | -5 | -10 | -15 | 2 | 14 |
| 02- | 66.3167- | 164.4100- | 2- | 13- | | 0-402985 | -5 | -5 | 5 | 42 | -20 | 58 | -5 | -10 | -15 | 1 | 12 |
| 02- | 66.2633- | 164.4111- | 2- | 13- | | 0-402987 | | | | | | | | | | 2 | 34 |
| 02- | 66.2267- | 164.3700- | 2- | 13- | | 0-402988 | -5 | -5 | -5 | 34 | 24 | 37 | -5 | -10 | -15 | 1 | 17 |
| 02- | 66.2294- | 164.3000- | 2- | 13- | | 0-402989 | -5 | -5 | -5 | 37 | 28 | 41 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.1767- | 164.2000- | 2- | 13- | | 0-402990 | -5 | -5 | -5 | 30 | 43 | 43 | -5 | -10 | -15 | 1 | 19 |
| 02- | 66.1667- | 164.0542- | 2- | 13- | | 0-402991 | | | | | | | | | | -1 | 16 |
| 02- | 66.1211- | 164.1217- | 2- | 13- | | 0-402992 | -5 | -5 | -5 | 25 | 23 | 31 | -5 | -10 | -15 | 2 | 34 |
| 02- | 66.0767- | 164.2067- | 2- | 13- | | 0-402993 | -5 | -5 | -5 | 24 | -20 | 33 | -5 | -10 | -15 | 1 | 26 |
| 02- | 66.0100- | 164.2833- | 2- | 12- | | 0-402995 | -5 | -5 | -5 | 17 | 41 | 34 | 5 | 10 | -15 | 2 | 24 |
| 02- | 65.9978- | 164.2800- | 2- | 13- | | 0-402996 | -5 | -5 | -5 | 20 | 39 | 17 | -5 | -10 | -15 | 2 | 25 |
| 02- | 65.9389- | 164.2847- | 2- | 13- | | 0-402998 | -5 | -5 | -5 | 35 | 47 | 44 | -5 | -10 | -15 | 2 | 30 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS — Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02-65.3806-164.3730-2-13- | 0-402934 | 69450 | -0.16 | 722 | 9734 | 137 | 175 | 29.0 | 153 | 9.2 | 6 | 2.6 | 45170 | 9.4 | 12650 | | 0.6 |
| 02-65.3617-164.2500-2-13- | 0-402935 | 68790 | -0.20 | 842 | 8984 | 96 | 227 | 29.3 | 129 | 8.2 | 4 | 2.2 | 44110 | 6.2 | 12780 | | 0.4 |
| 02-65.3833-164.0750-2-13- | 0-402937 | 69670 | -0.12 | 1762 | 14380 | 101 | 286 | 35.4 | 124 | 16.2 | 5 | 2.3 | 49100 | 7.8 | 11170 | 30 | 0.4 |
| 02-65.3669-163.9733-2-13- | 0-402938 | | | | | | | | | | | | | | | | |
| 02-65.3708-163.8708-2-12- | 0-402939 | 52950 | -0.11 | 3164 | 11250 | 116 | -88 | 29.3 | 107 | 9.4 | 5 | 2.1 | 36980 | 6.1 | 13900 | 43 | 0.6 |
| 02-65.3819-163.7569-2-13- | 0-402940 | 54420 | -0.05 | 821 | 6749 | 58 | 361 | 21.1 | 75 | 6.3 | 5 | 1.3 | 24380 | 5.2 | 10210 | 26 | 0.5 |
| 02-65.3861-163.6500-2-12- | 0-402941 | 77480 | -0.05 | 346 | 16140 | 77 | -135 | 18.5 | 63 | 8.2 | 4 | 1.4 | 29490 | 4.4 | 12700 | 31 | 0.5 |
| 02-65.3764-163.5153-2-15- | 0-402942 | 81150 | -0.03 | 566 | 10560 | 128 | -110 | 19.9 | 98 | 6.0 | 5 | 1.8 | 37090 | 7.0 | 16360 | 46 | 0.6 |
| 02-65.3444-163.3431-2-12- | 0-402943 | 72700 | -0.02 | -159 | 34050 | 99 | -100 | 11.7 | 63 | 5.9 | 6 | 1.3 | 20320 | 7.6 | 15050 | 45 | 0.5 |
| 02-65.3833-163.2428-2-13- | 0-402945 | 65410 | -0.04 | 756 | 23690 | 241 | -173 | 18.7 | 74 | 5.6 | 7 | 2.4 | 23780 | 12.3 | 20570 | 93 | 0.7 |
| 02-65.3431-163.1097-2-12- | 0-402946 | | | | | | | | | | | | | | | | |
| 02-65.3269-163.0472-2-12- | 0-402947 | 86510 | -0.03 | 860 | 14040 | 123 | 134 | 15.1 | 84 | 4.6 | 5 | 1.9 | 31430 | 9.3 | 16420 | 52 | 0.6 |
| 02-65.3500-164.3542-2-13- | 0-402948 | 70080 | -0.04 | 917 | 11320 | 59 | 265 | 18.9 | 69 | 6.9 | 5 | 1.6 | 27130 | 5.0 | 15000 | 29 | 0.4 |
| 02-65.3375-164.2458-2-13- | 0-402949 | 73820 | -0.04 | 1059 | 9714 | 95 | 286 | 29.7 | 125 | 7.1 | 5 | 2.0 | 35830 | 5.4 | 12970 | 37 | 0.6 |
| 02-65.3333-164.1833-2-13- | 0-402950 | 72240 | -0.06 | 980 | 9377 | 60 | 272 | 18.9 | 87 | -4.2 | 4 | 1.7 | 26440 | 6.1 | 12560 | 32 | 0.4 |
| 02-65.8458-164.4750-2-12- | 0-402951 | 72700 | -0.05 | 861 | -1667 | 183 | -128 | 28.1 | 111 | 15.8 | 9 | 2.6 | 33930 | 10.9 | 17600 | 88 | 0.9 |
| 02-65.8458-164.4233-2-12- | 0-402952 | 64620 | -0.03 | 463 | 11320 | 189 | -70 | 17.6 | 93 | 17.3 | 9 | 2.7 | 29430 | 8.7 | 13160 | 91 | 0.7 |
| 02-65.9000-164.4000-2-12- | 0-402953 | 60870 | -0.04 | 523 | 7205 | 162 | -109 | 34.3 | 160 | 6.3 | 7 | 2.6 | 39980 | 13.2 | 10400 | 67 | 0.9 |
| 02-65.9139-164.4056-2-12- | 0-402954 | 56680 | -0.04 | 704 | 8403 | 63 | -117 | 19.0 | 79 | 3.7 | 6 | 1.1 | 25220 | 7.7 | 12920 | 38 | 0.6 |
| 02-65.9639-164.3889-2-12- | 0-402955 | 52660 | -0.02 | 576 | 7903 | 109 | -74 | 16.4 | 130 | 4.4 | 6 | 1.7 | 25350 | 15.8 | 10440 | 55 | 0.9 |
| 02-65.9708-164.3139-2-12- | 0-402956 | 52720 | -0.02 | 448 | 7057 | 59 | -82 | 9.7 | 96 | -24.0 | 5 | 1.2 | 16160 | 7.2 | 10380 | 29 | 0.5 |
| 02-66.1200-164.2633-2-13- | 0-402958 | 62570 | -0.03 | 656 | 10830 | 116 | -101 | 19.8 | 146 | 4.4 | 6 | 1.9 | 32050 | 11.2 | 15880 | 51 | 0.7 |
| 02-66.1294-164.2100-2-13- | 0-402959 | 75930 | -0.04 | 863 | 5767 | 74 | -102 | 18.3 | 125 | 5.1 | 4 | 1.9 | 29030 | 5.4 | 17700 | 35 | 0.5 |
| 02-66.1356-164.2317-2-13- | 0-402960 | 63180 | -0.03 | 586 | 8530 | 90 | 168 | 16.2 | 117 | 3.1 | 5 | 1.6 | 25270 | 8.3 | 10930 | 41 | 0.7 |
| 02-66.2083-164.2903-2-12- | 0-402961 | 35370 | -0.02 | 244 | 10930 | 81 | 814 | 9.2 | 593 | -1.3 | 5 | 1.2 | 16170 | 14.0 | 5629 | 38 | 0.6 |
| 02-66.1806-164.3050-2-13- | 0-402962 | 41930 | -0.02 | 354 | 9685 | 108 | 778 | 12.2 | 426 | 2.2 | 5 | 1.8 | 21100 | 15.0 | 9268 | 45 | 0.7 |
| 02-66.1600-164.3700-2-12- | 0-402964 | 54070 | -0.03 | 546 | 8079 | 67 | 710 | 13.0 | 102 | 4.0 | 4 | 1.4 | 21920 | 7.5 | 10620 | 34 | 0.4 |
| 02-66.1583-164.4467-2-12- | 0-402965 | 42370 | -0.02 | 435 | 8456 | 74 | 1119 | 18.9 | 137 | 3.0 | 4 | 1.5 | 19800 | 8.7 | 6207 | 34 | 0.6 |
| 02-66.1256-164.4100-2-12- | 0-402966 | 43830 | 0.04 | 401 | 8766 | 54 | | 10.5 | 116 | -19.4 | 5 | 1.1 | 21030 | 7.3 | 7681 | 28 | 0.4 |
| 02-66.1600-164.5333-2-13- | 0-402967 | 61230 | -0.03 | 567 | 10610 | 63 | 153 | 12.7 | 101 | 3.7 | 6 | 1.3 | 21130 | 5.2 | 10690 | 30 | 0.3 |
| 02-66.2064-164.5153-2-13- | 0-402968 | 53590 | -0.03 | 427 | 9927 | 98 | -90 | 20.9 | 182 | 3.6 | 5 | 1.6 | 28620 | 10.5 | 9362 | 42 | 0.7 |
| 02-66.2197-164.4967-2-12- | 0-402969 | 47240 | -0.03 | 321 | 10460 | 50 | -89 | 14.0 | 160 | -2.2 | 3 | 1.2 | 20780 | 7.4 | 10190 | 29 | 0.5 |
| 02-66.2081-164.5367-2-12- | 0-402970 | | -0.02 | | | 67 | | 12.7 | 242 | 2.2 | | 1.2 | 17840 | 7.1 | | 30 | 0.5 |
| 02-66.2236-164.5500-2-12- | 0-402971 | 36580 | -0.02 | 338 | 10730 | 54 | -59 | 10.4 | 329 | 1.6 | 4 | 1.0 | 15770 | 7.0 | 5117 | 26 | 0.4 |
| 02-66.2733-164.5767-2-13- | 0-402972 | 66970 | -0.04 | 754 | 10920 | 104 | -111 | 24.5 | 170 | 5.1 | 6 | 1.8 | 34060 | 9.0 | 10050 | 42 | 0.6 |
| 02-66.4356-164.4950-2-13- | 0-402976 | 71810 | -0.04 | 750 | 11580 | 68 | -114 | 30.3 | 148 | -3.6 | 5 | 1.6 | 31070 | 6.0 | 13420 | 30 | 0.4 |
| 02-66.4167-164.3567-2-12- | 0-402979 | -3767 | -0.10 | -805 | -4456 | -28 | -315 | 54.8 | 167 | -8.0 | -6 | | 25720 | -5.4 | -10720 | 23 | -0.4 |
| 02-66.4186-164.3075-2-15- | 0-402980 | 43690 | -0.03 | -218 | 19210 | 39 | -115 | 16.6 | 177 | -2.3 | 4 | 1.1 | 19600 | 4.3 | 8486 | 18 | 0.2 |
| 02-66.3614-164.3100-2-12- | 0-402981 | 50180 | -0.02 | 380 | 14580 | 79 | 99 | 22.2 | 176 | 2.8 | 4 | 1.7 | 27930 | 8.9 | 6308 | 36 | 0.4 |
| 02-66.3761-164.3508-2-12- | 0-402982 | 41480 | -0.02 | 300 | 15440 | 54 | 97 | 16.4 | 145 | -1.8 | 3 | 1.2 | 21310 | 7.0 | 6159 | 28 | 0.3 |
| 02-66.3167-164.4100-2-13- | 0-402985 | | -0.03 | | | 74 | | 24.4 | 149 | -2.7 | | 1.9 | 30020 | 6.6 | | 35 | 0.5 |
| 02-66.2633-164.4111-2-13- | 0-402987 | 71010 | -0.03 | 708 | 9609 | 73 | -90 | 18.6 | 113 | -26.1 | 6 | 1.5 | 23620 | 5.9 | 14480 | 37 | 0.5 |
| 02-66.2267-164.3700-2-13- | 0-402988 | 74670 | -0.04 | 758 | 9740 | 105 | 173 | 25.8 | 145 | 6.5 | 6 | 1.9 | 40440 | 8.6 | 11340 | 42 | 0.5 |
| 02-66.2294-164.3000-2-13- | 0-402989 | 63540 | -0.04 | 509 | 13990 | 84 | -109 | 18.7 | 109 | -3.1 | 5 | 1.4 | 25410 | 6.5 | 9430 | 34 | 0.5 |
| 02-66.1767-164.2000-2-13- | 0-402990 | | -0.03 | | | 80 | | 20.1 | 143 | 4.6 | | 1.6 | 29330 | 7.1 | | 38 | 0.6 |
| 02-66.1667-164.0542-2-13- | 0-402991 | 47150 | -0.04 | 529 | 9952 | 77 | -156 | 26.6 | 81 | -3.5 | 4 | 1.3 | 48890 | 0.0 | -8333 | 27 | 0.4 |
| 02-66.1211-164.1217-2-13- | 0-402992 | 71110 | -0.03 | 774 | 6648 | 113 | -99 | 23.9 | 149 | 5.2 | 6 | 2.0 | 32910 | 7.0 | 12440 | 43 | 0.7 |
| 02-66.0767-164.2067-2-13- | 0-402993 | 59110 | -0.03 | 624 | 8465 | 66 | -94 | 16.1 | 104 | -2.6 | 5 | 1.8 | 21850 | 7.1 | 9399 | 35 | 0.6 |
| 02-66.0100-164.2833-2-12- | 0-402995 | | -0.04 | | | 116 | | 22.7 | 115 | 5.1 | | 1.9 | 22560 | 10.8 | | 52 | 0.7 |
| 02-65.9978-164.2800-2-13- | 0-402996 | 53450 | -0.02 | 486 | 4703 | 84 | -73 | 10.2 | 93 | 4.0 | 6 | 1.4 | 16000 | 10.1 | 10490 | 40 | 0.6 |
| 02-65.9389-164.2847-2-13- | 0-402998 | 76310 | -0.03 | 824 | 7690 | 117 | -96 | 23.1 | 142 | 6.7 | 6 | 2.5 | 32410 | 8.6 | 14810 | 46 | 0.6 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER | | | | | | LABS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 65.3806- | 164.3736- | 2- | 13- | | 0-402934 | 16470 | 382 | 9215 | -52 | -4 | 26.6 | 6.4 | -421 | -1 | -1 | 15.5 | 5136 | 130 | 6.4 | -50 | 0.181 |
| 02- | 65.3617- | 164.2500- | 2- | 13- | | 0-402935 | 15660 | 449 | 9976 | -70 | -6 | 25.8 | 3.0 | -497 | -20 | -2 | 13.9 | 4946 | 135 | -4.7 | -777 | 0.230 |
| 02- | 65.3833- | 164.0750- | 2- | 13- | | 0-402937 | 18650 | 731 | 10170 | 86 | -3 | 25.6 | 5.1 | -411 | -1 | -1 | 14.3 | 4850 | 192 | 3.1 | 418 | 0.294 |
| 02- | 65.3609- | 163.9733- | 2- | 13- | | 0-402938 | | | | | | | | | | | | | | | | |
| 02- | 65.3708- | 163.8708- | 2- | 12- | | 0-402939 | 22910 | 854 | 6487 | -34 | -3 | 18.8 | 7.0 | -435 | 3 | -1 | 14.1 | 4179 | 306 | 4.3 | 201 | 0.738 |
| 02- | 65.3619- | 163.7569- | 2- | 13- | | 0-402940 | 14340 | 343 | 8771 | -45 | -1 | 14.9 | 7.4 | -512 | -3 | -1 | 7.8 | 3627 | 113 | 4.2 | 304 | 0.654 |
| 02- | 65.3861- | 163.6500- | 2- | 12- | | 0-402941 | 12680 | 632 | 12330 | 58 | -1 | 14.7 | 7.8 | -507 | -3 | -1 | 11.2 | 4156 | 101 | 3.4 | 227 | 2.268 |
| 02- | 65.3764- | 163.5153- | 2- | 15- | | 0-402942 | 14120 | 439 | 14770 | 61 | -1 | 14.9 | 8.9 | -372 | -1 | | 17.5 | 6009 | 102 | 4.1 | 145 | 0.309 |
| 02- | 65.3444- | 163.3431- | 2- | 12- | | 0-402943 | 18850 | 711 | 14380 | -24 | | 11.1 | 8.7 | -350 | -1 | | 16.5 | 4752 | 77 | 3.7 | 118 | 0.485 |
| 02- | 65.3833- | 163.2428- | 2- | 13- | | 0-402945 | 19390 | 602 | 26680 | 81 | -1 | 8.4 | 18.6 | -550 | -2 | -1 | 45.4 | 3607 | 52 | 4.9 | 210 | 0.225 |
| 02- | 65.3431- | 163.1097- | 2- | 12- | | 0-402946 | | | | | | | | | | | | | | | | |
| 02- | 65.3269- | 163.0472- | 2- | 12- | | 0-402947 | 13160 | 456 | 21940 | 46 | | 10.8 | 9.9 | -371 | -1 | | 32.6 | 5639 | 84 | 4.4 | 131 | 0.184 |
| 02- | 65.3500- | 164.3542- | 2- | 13- | | 0-402948 | 15660 | 675 | 8273 | 48 | -1 | 14.0 | 5.4 | -465 | 3 | -1 | 8.9 | 5406 | 136 | 2.9 | 154 | 0.371 |
| 02- | 65.3375- | 164.2456- | 2- | 13- | | 0-402949 | 16330 | 572 | 9422 | 73 | -1 | 19.6 | 8.0 | -494 | -2 | -1 | 11.3 | 5335 | 151 | 4.7 | 249 | 0.274 |
| 02- | 65.3333- | 164.1833- | 2- | 13- | | 0-402950 | 15960 | 429 | 10980 | -58 | -1 | 15.6 | 4.5 | -558 | -3 | -2 | 11.8 | 4552 | 135 | 4.6 | 177 | 0.254 |
| 02- | 65.8456- | 164.4750- | 2- | 12- | | 0-402951 | 13920 | 1042 | 7295 | 75 | 3 | 14.2 | 14.9 | -650 | -3 | -1 | 28.4 | 5698 | 153 | 6.5 | 196 | 0.197 |
| 02- | 65.8456- | 164.4233- | 2- | 12- | | 0-402952 | 14610 | 902 | 5291 | 46 | 4 | 13.3 | 15.9 | -340 | -1 | -1 | 25.9 | 4625 | 126 | 5.7 | 150 | 0.178 |
| 02- | 65.9000- | 164.4000- | 2- | 12- | | 0-402953 | 16210 | 1219 | 8796 | 62 | 2 | 16.4 | 12.9 | -516 | -1 | -1 | 21.6 | 5775 | 100 | 6.9 | 241 | 0.167 |
| 02- | 65.9139- | 164.4056- | 2- | 12- | | 0-402954 | 16960 | 868 | 10280 | -41 | -1 | 10.5 | 6.0 | -518 | -2 | -1 | 13.1 | 5420 | 89 | 4.7 | 141 | 0.389 |
| 02- | 65.9639- | 164.3869- | 2- | 12- | | 0-402955 | 16070 | 498 | 9885 | 51 | 1 | 12.8 | 10.2 | -279 | -1 | | 17.9 | 6470 | 88 | 6.5 | 121 | 0.257 |
| 02- | 65.9706- | 164.3139- | 2- | 12- | | 0-402956 | 16690 | 250 | 10340 | -22 | -1 | 9.6 | 5.5 | -278 | -1 | | 7.2 | 4903 | 89 | 3.7 | 139 | 0.375 |
| 02- | 66.1200- | 164.2633- | 2- | 13- | | 0-402958 | 15780 | 415 | 11130 | 50 | -1 | 17.8 | 9.7 | -366 | -1 | -1 | 14.4 | 5778 | 114 | 6.7 | -41 | 0.201 |
| 02- | 66.1294- | 164.2100- | 2- | 13- | | 0-402959 | 17620 | 385 | 8744 | -42 | -1 | 17.5 | 5.4 | -385 | -1 | -1 | 10.2 | 5555 | 141 | 3.8 | -111 | 0.275 |
| 02- | 66.1356- | 164.2317- | 2- | 13- | | 0-402960 | 19770 | 319 | 11530 | -27 | | 13.8 | 7.3 | -289 | -2 | -1 | 10.5 | 5745 | 115 | 4.6 | 132 | 0.248 |
| 02- | 66.2083- | 164.2903- | 2- | 12- | | 0-402961 | 8686 | 456 | 10100 | -16 | | 9.5 | 6.3 | -224 | | | 7.3 | 6122 | 60 | 4.9 | -99 | 0.397 |
| 02- | 66.1806- | 164.3050- | 2- | 13- | | 0-402962 | 15100 | 362 | 11210 | 45 | | 11.6 | 8.6 | -257 | -1 | | 11.1 | 5984 | 65 | 5.7 | | 0.252 |
| 02- | 66.1600- | 164.3700- | 2- | 12- | | 0-402964 | 16410 | 408 | 11300 | -34 | -1 | 11.5 | 4.8 | -347 | -1 | -1 | 10.9 | 4984 | 105 | 3.4 | 98 | 0.220 |
| 02- | 66.1583- | 164.4467- | 2- | 12- | | 0-402965 | 11340 | 570 | 11080 | 36 | | 9.7 | 5.8 | -290 | -1 | | 8.7 | 5521 | 69 | 3.9 | -80 | 0.253 |
| 02- | 66.1256- | 164.4100- | 2- | 12- | | 0-402966 | 10950 | 323 | 10320 | -23 | | 8.6 | 4.9 | -281 | 2 | | 7.1 | 4519 | 75 | 3.1 | 51 | 0.282 |
| 02- | 66.1600- | 164.5333- | 2- | 13- | | 0-402967 | 16950 | 386 | 10220 | 53 | | 11.7 | 5.0 | -313 | -2 | | 7.8 | 4679 | 106 | 3.7 | -72 | 0.308 |
| 02- | 66.2064- | 164.5153- | 2- | 13- | | 0-402968 | 12930 | 638 | 10690 | 46 | | 14.5 | 7.7 | -348 | -1 | | 10.2 | 6175 | 89 | 4.8 | -83 | 0.225 |
| 02- | 66.2197- | 164.4967- | 2- | 12- | | 0-402969 | 12460 | 584 | 10350 | -30 | | 11.2 | 4.4 | -346 | -1 | -1 | 6.5 | 4819 | 82 | 3.0 | | 0.338 |
| 02- | 66.2081- | 164.5367- | 2- | 12- | | 0-402970 | | | | 30 | | 9.9 | 5.4 | | | | 8.0 | | | 3.2 | 103 | 0.225 |
| 02- | 66.2236- | 164.5500- | 2- | 12- | | 0-402971 | 12320 | 422 | 9411 | -16 | | 8.8 | 4.4 | -214 | | | 6.0 | 5191 | 61 | 2.6 | -78 | 0.317 |
| 02- | 66.2733- | 164.5767- | 2- | 13- | | 0-402972 | 18350 | 407 | 10590 | 71 | -1 | 18.4 | 8.3 | -405 | -2 | | 10.0 | 6497 | 115 | 4.8 | 203 | 0.240 |
| 02- | 66.4356- | 164.4950- | 2- | 13- | | 0-402976 | 19900 | 428 | 9430 | -47 | -1 | 17.0 | 5.0 | -435 | -2 | -1 | 10.2 | 7176 | 145 | 3.6 | 279 | 0.225 |
| 02- | 66.4167- | 164.3567- | 2- | 12- | | 0-402979 | -5475 | 2831 | -165 | -107 | -3 | 13.5 | 4.1 | | -7 | -4 | -6.2 | -3199 | -27 | -3.8 | -627 | |
| 02- | 66.4186- | 164.3075- | 2- | 15- | | 0-402980 | 20760 | 567 | 11630 | -31 | | 9.1 | 3.4 | -433 | 4 | -1 | 3.7 | 6906 | 85 | 2.6 | 139 | 0.378 |
| 02- | 66.3614- | 164.3100- | 2- | 12- | | 0-402981 | 16920 | 393 | 10610 | -25 | 1 | 14.6 | 6.9 | -290 | -1 | | 9.0 | 6626 | 98 | 3.9 | -67 | 0.211 |
| 02- | 66.3701- | 164.3508- | 2- | 12- | | 0-402982 | 20230 | 495 | 10400 | -25 | | 10.6 | 4.2 | -287 | -1 | | 6.4 | 5879 | 86 | 2.6 | | 0.281 |
| 02- | 66.3167- | 164.4100- | 2- | 13- | | 0-402985 | | | | -34 | -1 | 16.5 | 6.5 | | -1 | -1 | 8.9 | | | 3.6 | -84 | 0.236 |
| 02- | 66.2633- | 164.4111- | 2- | 13- | | 0-402987 | 20030 | 333 | 11460 | 41 | -1 | 14.2 | 5.9 | -306 | -1 | | 9.2 | 6956 | 118 | 3.6 | 143 | 0.304 |
| 02- | 66.2267- | 164.3700- | 2- | 13- | | 0-402988 | 18720 | 435 | 9414 | -39 | -1 | 20.2 | 7.9 | -396 | -1 | 2 | 14.2 | 6837 | 140 | 4.4 | 292 | 0.176 |
| 02- | 66.2294- | 164.3000- | 2- | 13- | | 0-402989 | 14560 | 494 | 10080 | -43 | -1 | 14.8 | 5.4 | -423 | -1 | -1 | 10.0 | 5842 | 124 | 3.5 | 146 | 0.270 |
| 02- | 66.1767- | 164.2000- | 2- | 13- | | 0-402990 | | | | 58 | | 16.9 | 6.6 | | -1 | | 12.1 | | | 4.6 | 211 | 0.215 |
| 02- | 66.1667- | 164.0542- | 2- | 13- | | 0-402991 | 13250 | 2160 | 7792 | -50 | -1 | 11.1 | 4.8 | -875 | -2 | -1 | 8.0 | 4448 | 79 | 3.9 | 203 | 0.250 |
| 02- | 66.1211- | 164.1217- | 2- | 13- | | 0-402992 | 19380 | 375 | 9856 | -34 | -1 | 18.8 | 8.8 | -355 | -1 | -1 | 15.5 | 5971 | 123 | 4.6 | 145 | 0.168 |
| 02- | 66.0767- | 164.2067- | 2- | 13- | | 0-402993 | 15670 | 309 | 11190 | -35 | -1 | 12.9 | 5.2 | -319 | -1 | -1 | 9.3 | 5418 | 101 | 4.3 | | 0.290 |
| 02- | 66.0100- | 164.2833- | 2- | 12- | | 0-402995 | | | | -37 | 1 | 12.4 | 8.9 | | -2 | | 14.4 | | | 4.3 | -74 | 0.271 |
| 02- | 65.9976- | 164.2800- | 2- | 13- | | 0-402996 | 15580 | 297 | 9525 | -22 | | 9.9 | 7.2 | -248 | -1 | | 11.1 | 5439 | 86 | 4.5 | 112 | 0.387 |
| 02- | 65.9389- | 164.2847- | 2- | 13- | | 0-402998 | 18300 | 374 | 10080 | 73 | -1 | 19.7 | 8.9 | -351 | -1 | | 13.6 | 5761 | 139 | 5.2 | | 0.199 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 65.8944- | 164.2639- | 2- | 12- | | 0-402999- | 07/31/76- | 21- | 14- | 11.4- | C- | - | - | 37- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.10 |
| 02- | 65.9028- | 164.2194- | 2- | 12- | | 0-403000- | 07/31/76- | 21- | 14- | | -C- | - | - | 50- | | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 65.8014- | 164.2125- | 2- | 12- | | 0-403001- | 08/01/76- | 6- | 5- | 8.2- | - | - | 7.6- | 300- | | 0- | 3- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 65.7931- | 164.2625- | 2- | 12- | | 0-403002- | 08/01/76- | 7- | 5- | 8.6- | - | - | 7.2- | 250- | | 0- | 3- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 4.30 |
| 02- | 65.8528- | 164.2264- | 2- | 12- | | 0-403003- | 08/01/76- | 7- | 6- | 8.3- | - | - | 7.6- | 220- | | 6- | 3- | 6- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 65.8431- | 164.2750- | 2- | 12- | | 0-403004- | 08/01/76- | 7- | 8- | 8.6- | - | - | 7.6- | 200- | | 0- | 3- | 6- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.90 |
| 02- | 65.8208- | 164.1069- | 2- | 12- | | 0-403005- | 08/01/76- | 7- | 9- | 9.0- | - | - | 8.0- | 220- | | 0- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.20 |
| 02- | 65.8417- | 164.1028- | 2- | 12- | | 0-403006- | 08/01/76- | 7- | 8- | 9.0- | - | - | 7.6- | 190- | | 6- | 2- | 6- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.00 |
| 02- | 65.8819- | 164.0833- | 2- | 12- | | 0-403007- | 08/01/76- | 7- | 8- | 10.6- | - | - | 7.4- | 110- | | 0- | 3- | 6- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 65.9333- | 164.1653- | 2- | 13- | | 0-403008- | 08/01/76- | 7- | 9- | 10.1- | - | - | 8.2- | 70- | | 0- | 3- | 6- | 6- | 6- | | -3- | 1- | | -3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 65.9208- | 164.1306- | 2- | 12- | | 0-403009- | 08/01/76- | 7- | 10- | 9.6- | - | - | 7.4- | 60- | | 6- | 3- | 6- | 5- | 6- | 1- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.10 |
| 02- | 66.0167- | 164.1033- | 2- | 13- | | 0-403011- | 08/01/76- | 7- | 10- | 14.1- | | -S- | 7.8- | 72- | | | -3- | 6- | 6- | 6- | -3- | 2- | | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.0650- | 164.0867- | 2- | 13- | | 0-403012- | 08/01/76- | 7- | 10- | 14.3- | | -S- | 7.9- | 98- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 2.70 |
| 02- | 66.1375- | 163.9933- | 2- | 13- | | 0-403013- | 08/01/76- | 8- | 9- | 13.8- | | -S- | 7.8- | 359- | | | -2- | 6- | | -7- | -3- | 2- | | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.70 |
| 02- | 66.2250- | 163.9867- | 2- | 13- | | 0-403015- | 08/01/76- | 8- | 10- | 14.2- | | -S- | 6.4- | 43- | | | -2- | 7- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.20 |
| 02- | 66.2333- | 164.0233- | 2- | 13- | | 0-403016- | 08/01/76- | 8- | 10- | 14.4- | | -S- | 6.8- | 64- | | | -2- | 7- | 4- | 6- | -3- | 3- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.20 |
| 02- | 66.2508- | 164.1378- | 2- | 13- | | 0-403017- | 08/01/76- | 8- | 9- | 14.7- | | -S- | 7.3- | 142- | | | -2- | 7- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.70 |
| 02- | 66.2667- | 164.1433- | 2- | 13- | | 0-403018- | 08/01/76- | 8- | 10- | 14.6- | | -S- | 7.7- | 79- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.60 |
| 02- | 66.3267- | 164.1967- | 2- | 13- | | 0-403021- | 08/01/76- | 8- | 9- | 15.2- | | -S- | 7.8- | 40- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 2.00 |
| 02- | 66.3000- | 164.1667- | 2- | 13- | | 0-403022- | 08/01/76- | 8- | 9- | 14.3- | | -S- | 7.8- | 28- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.40 |
| 02- | 66.4158- | 164.1600- | 2- | 13- | | 0-403023- | 08/01/76- | 8- | 8- | 14.8- | | -S- | 7.3- | 128- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.00 |
| 02- | 66.4567- | 164.2267- | 2- | 13- | | 0-403024- | 08/01/76- | 8- | 9- | 13.2- | | -S- | 7.8- | 102- | | | -3- | 6- | 4- | 6- | -3- | 4- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.4533- | 164.1567- | 2- | 13- | | 0-403025- | 08/01/76- | 8- | 7- | 14.6- | | -S- | 7.8- | 75- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.4667- | 164.0472- | 2- | 13- | | 0-403026- | 08/01/76- | 8- | 9- | 14.3- | | -S- | 7.7- | 95- | | | -3- | 6- | 6- | 6- | -3- | 2- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.40 |
| 02- | 66.4600- | 163.9783- | 2- | 13- | | 0-403027- | 08/01/76- | 8- | 10- | 14.4- | | -S- | 7.8- | 43- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.30 |
| 02- | 66.4511- | 163.8428- | 2- | 13- | | 0-403028- | 08/01/76- | 9- | 10- | 14.2- | | -S- | 7.8- | 33- | | | -3- | 6- | 5- | 6- | -3- | 2- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.40 |
| 02- | 66.4664- | 163.7633- | 2- | 13- | | 0-403029- | 08/01/76- | 9- | 10- | 13.4- | | -S- | 7.0- | 196- | | | -3- | 6- | 6- | 6- | -3- | - | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.40 |
| 02- | 66.4056- | 163.9267- | 2- | 13- | | 0-403031- | 08/01/76- | 9- | 10- | 13.7- | | -S- | 7.9- | 49- | | | -3- | 6- | 6- | 6- | -3- | 2- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.20 |
| 02- | 66.4056- | 164.0333- | 2- | 13- | | 0-403032- | 08/01/76- | 8- | 10- | 13.9- | | -S- | 7.6- | 50- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.3806- | 163.9472- | 2- | 13- | | 0-403034- | 07/01/76- | 9- | 9- | 14.3- | | -S- | 8.6- | 57- | | | -3- | 6- | 6- | 6- | -3- | 2- | | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.40 |
| 02- | 66.3708- | 163.8708- | 2- | 13- | | 0-403035- | 07/01/76- | 9- | 9- | 10.3- | | -S- | 8.0- | 70- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.3208- | 163.8867- | 2- | 13- | | 0-403036- | 08/01/76- | 9- | 10- | 13.5- | | -S- | 8.0- | 147- | | | -3- | 6- | 4- | 6- | -3- | 2- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.3258- | 163.9317- | 2- | 13- | | 0-403037- | 08/01/76- | 9- | 10- | 13.9- | | -S- | 7.8- | 78- | | | -3- | 6- | 5- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.10 |
| 02- | 66.2939- | 163.9433- | 2- | 13- | | 0-403040- | 08/01/76- | 9- | 10- | 14.5- | | -S- | 7.7- | 132- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 1.90 |
| 02- | 66.1483- | 163.8900- | 2- | 13- | | 0-403044- | 08/01/76- | 9- | 10- | 13.2- | | -S- | 7.4- | 95- | | | -3- | 6- | 4- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 1.20 |
| 02- | 66.1203- | 163.9733- | 2- | 13- | | 0-403045- | 08/01/76- | 9- | 10- | 13.7- | | -S- | 7.1- | 20- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.60 |
| 02- | 66.0617- | 163.9500- | 2- | 13- | | 0-403046- | 08/01/76- | 11- | 12- | 14.6- | | -S- | 7.7- | 34- | | | -3- | 6- | 4- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.60 |
| 02- | 66.0667- | 163.9183- | 2- | 13- | | 0-403047- | 08/01/76- | 11- | 12- | 14.5- | | -S- | 7.3- | 57- | | | -3- | 6- | 5- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.60 |
| 02- | 66.1031- | 163.9078- | 2- | 12- | | 0-403048- | 08/01/76- | 11- | 12- | 14.6- | | -S- | 7.3- | 25- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.0900- | 163.7967- | 2- | 13- | | 0-403049- | 08/01/76- | 11- | 12- | 14.5- | | -S- | 7.2- | 62- | | | -3- | 6- | 5- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.0594- | 163.6967- | 2- | 13- | | 0-403051- | 08/01/76- | 11- | 14- | 14.1- | | -S- | 6.8- | 1782- | | | -3- | 6- | 6- | 6- | -3- | 2- | | - | - | - | - | - | - | - | - | - | - | 2.30 |
| 02- | 66.0250- | 163.6100- | 2- | 13- | | 0-403052- | 08/01/76- | 11- | 13- | 14.7- | | -S- | 7.6- | 76- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.90 |
| 02- | 66.0247- | 163.5883- | 2- | 12- | | 0-403053- | 08/01/76- | 11- | 14- | 12.6- | | - | 8.0- | 26- | | 6- | 3- | 6- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 2.40 |
| 02- | 66.0528- | 163.4900- | 2- | 12- | | 0-403055- | 08/01/76- | 11- | 14- | 12.6- | | - | 7.4- | 28- | | 0- | 3- | 7- | 5- | 6- | 2- | 2- | 2- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.0400- | 163.4733- | 2- | 12- | | 0-403056- | 08/01/76- | 11- | 14- | 13.2- | | - | 7.6- | 27- | | 0- | 3- | 6- | 6- | 6- | 2- | 2- | 2- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.00 |
| 02- | 66.0667- | 163.3550- | 2- | 13- | | 0-403057- | 08/01/76- | 11- | 13- | 14.2- | | -S- | 6.7- | 49- | | | -3- | 6- | 6- | 6- | -3- | 1- | | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 2.40 |
| 02- | 66.0400- | 163.2889- | 2- | 15- | | 0-403058- | 08/01/76- | 11- | 14- | | | - | | - | | 0- | 3- | 6- | 4- | 6- | | - | - | -2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 1.50 |
| 02- | 66.0325- | 163.2333- | 2- | 12- | | 0-403059- | 08/01/76- | 11- | 14- | 13.9- | | - | 7.5- | 40- | | 0- | 3- | 6- | 6- | 6- | 2- | 3- | 2- | 1- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 2.00 |
| 02- | 65.9619- | 163.3333- | 2- | 12- | | 0-403070- | 08/01/76- | 12- | 13- | 13.0- | | - | 7.4- | 170- | | 0- | 3- | 6- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 3.20 |
| 02- | 65.9833- | 163.2800- | 2- | 12- | | 0-403071- | 08/01/76- | 12- | 14- | 12.7- | | - | 7.4- | 260- | | 9- | 3- | 6- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 3- | 1- | -1- | - | - | - | - | 2.60 |
| 02- | 65.9444- | 163.4500- | 2- | 12- | | 0-403072- | 08/01/76- | 13- | 13- | 14.0- | | - | 7.6- | 160- | | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 1.90 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)): Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm): Be | Li |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02- | 65.8944- | 164.2639- | 2- | 12- | | 0-402999 | -5 | -5 | 5 | 20 | 41 | 16 | -5 | -10 | -15 | 1 | 7 |
| 02- | 65.9028- | 164.2194- | 2- | 12- | | 0-403000 | -5 | -5 | -5 | 26 | 52 | 28 | -5 | -10 | -15 | 2 | 29 |
| 02- | 65.8014- | 164.2125- | 2- | 12- | | 0-403001 | -5 | -5 | -5 | 33 | 43 | 29 | -5 | -10 | -15 | 2 | 27 |
| 02- | 65.7931- | 164.2625- | 2- | 12- | | 0-403002 | -5 | -5 | -5 | 20 | 53 | 39 | 5 | -10 | -15 | 1 | 24 |
| 02- | 65.8528- | 164.2264- | 2- | 12- | | 0-403003 | | | | | | | | | | 1 | 20 |
| 02- | 65.8431- | 164.2750- | 2- | 12- | | 0-403004 | -5 | -5 | -5 | 34 | 44 | 35 | 6 | -10 | -15 | 1 | 20 |
| 02- | 65.8208- | 164.1069- | 2- | 12- | | 0-403005 | -5 | -5 | -5 | 27 | 59 | 27 | -5 | -10 | -15 | 2 | 40 |
| 02- | 65.8417- | 164.1028- | 2- | 12- | | 0-403006 | -5 | -5 | -5 | 22 | 64 | 23 | -5 | -10 | -15 | 2 | 23 |
| 02- | 65.8819- | 164.0833- | 2- | 12- | | 0-403007 | -5 | -5 | -5 | 20 | 55 | 43 | -5 | -10 | -15 | 2 | 20 |
| 02- | 65.9333- | 164.1653- | 2- | 13- | | 0-403008 | -5 | -5 | -5 | 15 | -20 | 36 | -5 | -10 | -15 | 1 | 17 |
| 02- | 65.9208- | 164.1306- | 2- | 12- | | 0-403009 | -5 | -5 | -5 | 32 | -20 | 70 | -5 | -10 | -15 | 1 | 13 |
| 02- | 66.0167- | 164.1033- | 2- | 13- | | 0-403011 | -5 | -5 | -5 | 39 | 38 | 41 | -5 | -10 | -15 | 3 | 36 |
| 02- | 66.0650- | 164.0867- | 2- | 13- | | 0-403012 | -5 | -5 | -5 | 37 | -20 | 40 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.1375- | 163.9933- | 2- | 13- | | 0-403013 | -5 | -5 | -5 | 29 | 33 | 45 | -5 | -10 | -15 | 2 | 42 |
| 02- | 66.2250- | 163.9867- | 2- | 13- | | 0-403015 | -5 | -5 | -5 | 28 | 40 | 29 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.2333- | 164.0233- | 2- | 13- | | 0-403016 | -5 | -5 | -5 | 29 | 56 | 38 | 5 | -10 | -15 | 1 | 19 |
| 02- | 66.2506- | 164.1378- | 2- | 13- | | 0-403017 | -5 | -5 | 5 | 30 | 54 | 48 | 7 | -10 | -15 | 2 | 25 |
| 02- | 66.2667- | 164.1433- | 2- | 13- | | 0-403018 | -5 | -5 | -5 | 38 | 48 | 48 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.3267- | 164.1967- | 2- | 13- | | 0-403021 | -5 | -5 | -5 | 44 | 39 | 69 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.3600- | 164.1667- | 2- | 13- | | 0-403022 | -5 | -5 | -5 | 46 | 47 | 51 | -5 | -10 | -15 | 2 | 26 |
| 02- | 66.4156- | 164.1600- | 2- | 13- | | 0-403023 | -5 | -5 | -5 | 29 | 40 | 36 | -5 | -10 | -15 | 1 | 5 |
| 02- | 66.4567- | 164.2267- | 2- | 13- | | 0-403024 | -5 | -5 | -5 | 30 | 35 | 49 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.4533- | 164.1567- | 2- | 13- | | 0-403025 | -5 | -5 | -5 | 27 | 25 | 28 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.4667- | 164.0472- | 2- | 13- | | 0-403026 | -5 | -5 | -5 | 28 | 39 | 24 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.4600- | 163.9763- | 2- | 13- | | 0-403027 | -5 | -5 | -5 | 50 | -20 | 35 | 5 | -10 | -15 | 1 | 15 |
| 02- | 66.4511- | 163.8428- | 2- | 13- | | 0-403028 | -5 | -5 | -5 | 33 | 22 | 42 | 7 | -10 | -15 | 2 | 30 |
| 02- | 66.4664- | 163.7633- | 2- | 13- | | 0-403029 | -5 | -5 | -5 | 35 | -20 | 32 | -5 | -10 | -15 | 2 | 14 |
| 02- | 66.4056- | 163.9267- | 2- | 13- | | 0-403031 | -5 | -5 | -5 | 36 | -20 | 34 | -5 | -10 | -15 | -1 | 13 |
| 02- | 66.4056- | 164.0333- | 2- | 13- | | 0-403032 | -5 | -5 | -5 | 37 | -20 | 36 | -5 | -10 | -15 | 1 | 10 |
| 02- | 66.3806- | 163.9472- | 2- | 13- | | 0-403034 | -5 | -5 | -5 | 26 | -20 | 38 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.3706- | 163.8706- | 2- | 13- | | 0-403035 | -5 | 6 | -5 | 25 | 29 | 65 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.3206- | 163.8867- | 2- | 13- | | 0-403036 | -5 | -5 | -5 | 32 | -20 | 35 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.3256- | 163.9317- | 2- | 13- | | 0-403037 | -5 | -5 | -5 | 38 | -20 | 70 | -5 | -10 | -15 | 2 | 16 |
| 02- | 66.2939- | 163.9433- | 2- | 13- | | 0-403040 | | | | | | | | | | 2 | 16 |
| 02- | 66.1483- | 163.8900- | 2- | 13- | | 0-403044 | -5 | -5 | -5 | 21 | -20 | 31 | -5 | -10 | -15 | -1 | 4 |
| 02- | 66.1203- | 163.9733- | 2- | 13- | | 0-403045 | -5 | -5 | -5 | 23 | -20 | 20 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.0617- | 163.9500- | 2- | 13- | | 0-403046 | -5 | -5 | -5 | 25 | -20 | 21 | 5 | -10 | -15 | 2 | 24 |
| 02- | 66.0667- | 163.9183- | 2- | 13- | | 0-403047 | -5 | -5 | -5 | 33 | -20 | 26 | 10 | -10 | -15 | 2 | 16 |
| 02- | 66.1031- | 163.9078- | 2- | 12- | | 0-403048 | -5 | -5 | -5 | 24 | -20 | 34 | 6 | -10 | -15 | 2 | 25 |
| 02- | 66.0900- | 163.7967- | 2- | 13- | | 0-403049 | -5 | -5 | -5 | 32 | -20 | 34 | -5 | -10 | -15 | 1 | 23 |
| 02- | 66.0594- | 163.6967- | 2- | 13- | | 0-403051 | -5 | -5 | -5 | 38 | -20 | 56 | 11 | -10 | -15 | 2 | 16 |
| 02- | 66.0250- | 163.6100- | 2- | 13- | | 0-403052 | -5 | -5 | -5 | 24 | -20 | 27 | 8 | -10 | -15 | 2 | 13 |
| 02- | 66.0247- | 163.5863- | 2- | 12- | | 0-403053 | -5 | -5 | -5 | 21 | -20 | 32 | -5 | -10 | -15 | 1 | 13 |
| 02- | 66.0528- | 163.4900- | 2- | 12- | | 0-403055 | -5 | -5 | -5 | 20 | -20 | 28 | -5 | -10 | -15 | 2 | 16 |
| 02- | 66.0400- | 163.4733- | 2- | 12- | | 0-403056 | -5 | -5 | 5 | 25 | -20 | 22 | -5 | -10 | -15 | -1 | 12 |
| 02- | 66.0667- | 163.3550- | 2- | 13- | | 0-403057 | -5 | -5 | -5 | 36 | -20 | 44 | 6 | -10 | -15 | 1 | 14 |
| 02- | 66.0400- | 163.2889- | 2- | 15- | | 0-403058 | 7 | -5 | 6 | -10 | -20 | -15 | -5 | -10 | -15 | -1 | 8 |
| 02- | 66.0325- | 163.2333- | 2- | 12- | | 0-403059 | -5 | -5 | 6 | 20 | -20 | -15 | -5 | -10 | -15 | -1 | 5 |
| 02- | 65.9819- | 163.3333- | 2- | 12- | | 0-403070 | -5 | -5 | -5 | 18 | -20 | 45 | 14 | -10 | -15 | 2 | 22 |
| 02- | 65.9833- | 163.2800- | 2- | 12- | | 0-403071 | -5 | -5 | 5 | 24 | -20 | 45 | 15 | -10 | -15 | 2 | 30 |
| 02- | 65.9444- | 163.4500- | 2- | 12- | | 0-403072 | -5 | -5 | -5 | 29 | -20 | 34 | 5 | -10 | -15 | 2 | 25 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 65.8944- | 164.2639- | 2- | 12- | | 0-402999 | 59500 | -0.04 | 679 | 6997 | 62 | 188 | 19.2 | 87 | -3.5 | 4 | 1.6 | 44800 | 4.4 | 7683 | 29 | 0.4 |
| 02- | 65.9028- | 164.2194- | 2- | 12- | | 0-403000 | | -0.03 | | | 89 | | 14.7 | 110 | 3.8 | | 1.7 | 29040 | 7.9 | | 37 | 0.5 |
| 02- | 65.8014- | 164.2125- | 2- | 12- | | 0-403001 | 70630 | -0.02 | 811 | 20210 | 63 | -87 | 13.7 | 84 | 4.5 | 6 | 1.3 | 25690 | 4.6 | 14380 | 29 | 0.4 |
| 02- | 65.7931- | 164.2625- | 2- | 12- | | 0-403002 | 48920 | -0.03 | 302 | 23390 | 159 | -96 | 22.7 | 126 | 4.0 | 9 | 2.1 | 29730 | 19.8 | 11150 | 61 | 1.5 |
| 02- | 65.8528- | 164.2264- | 2- | 12- | | 0-403003 | 49540 | -0.04 | 627 | 11040 | 50 | -130 | 16.4 | 104 | -3.3 | 5 | 1.3 | 21020 | 6.8 | 14330 | 29 | 0.5 |
| 02- | 65.8431- | 164.2750- | 2- | 12- | | 0-403004 | | -0.02 | | | 53 | | 13.6 | 76 | 2.8 | | 1.1 | 20840 | 4.1 | | 26 | 0.4 |
| 02- | 65.8208- | 164.1069- | 2- | 12- | | 0-403005 | 62760 | -0.02 | 619 | 22730 | 58 | 61 | 15.8 | 99 | 3.5 | 5 | 1.3 | 26000 | 5.5 | 11340 | 31 | 0.4 |
| 02- | 65.8417- | 164.1028- | 2- | 12- | | 0-403006 | 43560 | -0.02 | 685 | 26850 | 68 | -71 | 13.8 | 91 | 2.9 | 4 | 1.3 | 21760 | 7.1 | 7547 | 29 | 0.5 |
| 02- | 65.8819- | 164.0833- | 2- | 12- | | 0-403007 | 48910 | -0.04 | -300 | 10510 | 93 | -131 | 40.0 | 117 | -3.1 | 5 | 1.7 | 40390 | 11.7 | -6651 | 42 | 0.7 |
| 02- | 65.9333- | 164.1653- | 2- | 13- | | 0-403008 | | 0.04 | | | 85 | | 20.2 | 148 | 3.3 | | 1.8 | 25160 | 10.1 | | 41 | 0.6 |
| 02- | 65.9208- | 164.1306- | 2- | 12- | | 0-403009 | 60310 | -0.03 | 458 | 15670 | 59 | 208 | 18.5 | 113 | -2.1 | 5 | 1.6 | 24620 | 5.5 | 9397 | 29 | 0.4 |
| 02- | 66.0167- | 164.1033- | 2- | 13- | | 0-403011 | 79670 | -0.04 | 1010 | 8674 | 122 | -107 | 25.9 | 154 | 6.3 | 6 | 2.1 | 36650 | 7.2 | 15670 | 48 | 0.7 |
| 02- | 66.0650- | 164.0867- | 2- | 13- | | 0-403012 | 76390 | -0.04 | 866 | 8119 | 67 | 131 | 19.5 | 95 | 5.5 | 5 | 1.9 | 28350 | 6.6 | 13730 | 34 | 0.5 |
| 02- | 66.1375- | 163.9933- | 2- | 13- | | 0-403013 | 73320 | -0.03 | 813 | 9250 | 83 | 112 | 22.4 | 130 | 4.5 | 6 | 1.5 | 32470 | 6.4 | 14930 | 42 | 0.5 |
| 02- | 66.2250- | 163.9667- | 2- | 13- | | 0-403015 | 59630 | 0.14 | 595 | 10170 | 67 | 3035 | 15.9 | 97 | 3.9 | 5 | 1.8 | 22550 | 4.8 | 11660 | 32 | 0.5 |
| 02- | 66.2333- | 164.0233- | 2- | 13- | | 0-403016 | 52720 | -0.02 | 452 | 15950 | 88 | -78 | 16.6 | 155 | 3.3 | 5 | 1.7 | 23580 | 7.8 | 6587 | 36 | 0.5 |
| 02- | 66.2506- | 164.1378- | 2- | 13- | | 0-403017 | 68240 | -0.04 | 665 | 12700 | 69 | 159 | 19.3 | 105 | 4.6 | 5 | 1.4 | 30450 | 6.3 | 15380 | 34 | 0.4 |
| 02- | 66.2667- | 164.1433- | 2- | 13- | | 0-403018 | 70370 | -0.03 | 724 | 11260 | 86 | 1050 | 24.2 | 136 | 5.7 | 6 | 1.9 | 34650 | 7.2 | 12370 | 40 | 0.6 |
| 02- | 66.3267- | 164.1967- | 2- | 13- | | 0-403021 | 61080 | -0.02 | 358 | 25450 | 62 | 167 | 21.8 | 145 | 2.8 | 4 | 1.4 | 30470 | 5.1 | 8640 | 28 | 0.3 |
| 02- | 66.3600- | 164.1667- | 2- | 13- | | 0-403022 | 73850 | -0.03 | 755 | 15380 | 86 | -98 | 24.5 | 178 | 5.2 | 6 | 2.2 | 36500 | 8 1 | 11000 | 44 | 0.6 |
| 02- | 66.4156- | 164.1600- | 2- | 13- | | 0-403023 | 56670 | -0.04 | -234 | 14190 | 52 | 205 | 20.1 | 109 | -3.4 | 4 | 1.2 | 24680 | 4.0 | 11830 | 27 | 0.4 |
| 02- | 66.4567- | 164.2267- | 2- | 13- | | 0-403024 | 58610 | -0.02 | 584 | 14800 | 80 | -76 | 19.0 | 155 | 2.8 | 6 | 1.6 | 27520 | 9.0 | 9755 | 39 | 0.5 |
| 02- | 66.4533- | 164.1567- | 2- | 13- | | 0-403025 | 70050 | 0.12 | 787 | 8807 | 63 | 339 | 14.3 | 103 | 4.6 | 5 | 1.4 | 25050 | 6.3 | 11220 | 32 | 0.5 |
| 02- | 66.4667- | 164.0472- | 2- | 13- | | 0-403026 | 57600 | -0.03 | 490 | 12810 | 98 | -84 | 16.5 | 119 | 3.2 | 5 | 1.8 | 27330 | 7.7 | 11830 | 39 | 0.5 |
| 02- | 66.4600- | 163.9783- | 2- | 13- | | 0-403027 | 67060 | 0.07 | 844 | 8870 | 50 | 202 | 18.9 | 111 | 5.8 | 4 | 1.6 | 27400 | 3.6 | 10180 | 30 | 0.3 |
| 02- | 66.4511- | 163.8428- | 2- | 13- | | 0-403028 | 62250 | -0.04 | 777 | 8893 | 56 | 3350 | 16.5 | 96 | -2.9 | 5 | 1.5 | 22540 | 6.6 | 13910 | 34 | 0.5 |
| 02- | 66.4664- | 163.7633- | 2- | 13- | | 0-403029 | 65040 | 0.04 | 758 | 7235 | 79 | 479 | 17.0 | 100 | 4.7 | 5 | 1.5 | 25970 | 4.9 | 12440 | 34 | 0.5 |
| 02- | 66.4056- | 163.9267- | 2- | 13- | | 0-403031 | 63170 | 0.06 | 641 | 11600 | 71 | 219 | 17.4 | 105 | -2.4 | 5 | 1.4 | 26190 | 4.9 | 9646 | 31 | 0.4 |
| 02- | 66.4056- | 164.0333- | 2- | 13- | | 0-403032 | 66900 | -0.03 | 579 | 10250 | 100 | 124 | 21.6 | 131 | 5.6 | 5 | 2.0 | 29600 | 8.8 | 10180 | 40 | 0.5 |
| 02- | 66.3806- | 163.9472- | 2- | 13- | | 0-403034 | 65850 | -0.04 | 628 | 11250 | 49 | -113 | 22.8 | 113 | -3.2 | 4 | 1.4 | 22900 | 5.7 | 10230 | 31 | 0.4 |
| 02- | 66.3708- | 163.8708- | 2- | 13- | | 0-403035 | 72380 | -0.03 | 678 | 10850 | 80 | 102 | 26.5 | 141 | 5.0 | 5 | 1.8 | 34390 | 7.2 | 18120 | 38 | 0.5 |
| 02- | 66.3208- | 163.8867- | 2- | 13- | | 0-403036 | 64800 | -0.03 | 604 | 13200 | 81 | 148 | 15.4 | 104 | 4.6 | 5 | 1.7 | 25080 | 6.6 | 11700 | 34 | 0.5 |
| 02- | 66.3256- | 163.9317- | 2- | 13- | | 0-403037 | 69330 | -0.04 | 529 | 12750 | 78 | 209 | 35.8 | 174 | -3.3 | 5 | 2.3 | 38150 | 7.5 | 9646 | 37 | 0.6 |
| 02- | 66.2939- | 163.9433- | 2- | 13- | | 0-403040 | 65430 | -0.04 | 481 | 24880 | 61 | -128 | 23.2 | 123 | 4.3 | 4 | 1.7 | 35330 | 5.2 | 10570 | 29 | 0.5 |
| 02- | 66.1483- | 163.8900- | 2- | 13- | | 0-403044 | 36800 | 0.07 | -260 | 6705 | 40 | 1171 | 24.5 | 82 | -3.5 | 4 | 1.0 | 27520 | 2.9 | 7793 | 18 | 0.3 |
| 02- | 66.1203- | 163.9733- | 2- | 13- | | 0-403045 | 72250 | -0.03 | 694 | 8253 | 76 | 210 | 15.9 | 103 | 5.2 | 6 | 1.6 | 22970 | 6.5 | 13550 | 34 | 0.5 |
| 02- | 66.0617- | 163.9500- | 2- | 13- | | 0-403046 | 72930 | -0.03 | 787 | 8077 | 101 | -94 | 23.7 | 140 | 5.4 | 6 | 2.0 | 32190 | 7.4 | 14110 | 45 | 0.7 |
| 02- | 66.0667- | 163.9183- | 2- | 13- | | 0-403047 | 62900 | 0.05 | 591 | 8568 | 68 | 235 | 11.1 | 112 | 3.5 | 4 | 1.6 | 20360 | 6.4 | 11980 | 35 | 0.4 |
| 02- | 66.1031- | 163.9078- | 2- | 12- | | 0-403048 | 64730 | 0.05 | 780 | 9069 | 99 | 262 | 11.9 | 100 | 4.4 | 5 | 1.6 | 20740 | 7.9 | 9712 | 35 | 0.5 |
| 02- | 66.0900- | 163.7967- | 2- | 13- | | 0-403049 | 73820 | -0.03 | 835 | 7110 | 72 | 189 | 16.0 | 95 | 4.9 | 5 | 1.6 | 28300 | 5.2 | 12470 | 32 | 0.4 |
| 02- | 66.0594- | 163.6967- | 2- | 13- | | 0-403051 | 64070 | -0.03 | 741 | 10750 | 102 | 3652 | 20.1 | 137 | 6.1 | 6 | 2.0 | 27840 | 8.2 | 11190 | 42 | 0.6 |
| 02- | 66.0250- | 163.6100- | 2- | 13- | | 0-403052 | 68020 | -0.05 | 676 | 7960 | 60 | 272 | 15.1 | 83 | 9.0 | 4 | 1.8 | 20530 | 5.0 | 14800 | 31 | 0.5 |
| 02- | 66.0247- | 163.5863- | 2- | 12- | | 0-403053 | 67260 | -0.03 | 794 | 5929 | 81 | 192 | 21.6 | 111 | 4.2 | 6 | 1.7 | 39060 | 7.7 | 11820 | 38 | 0.6 |
| 02- | 66.0528- | 163.4900- | 2- | 12- | | 0-403055 | 54530 | -0.03 | 588 | 8737 | 82 | -96 | 16.8 | 119 | -35.3 | 6 | 1.4 | 36340 | 9.1 | 8266 | 38 | 0.7 |
| 02- | 66.0400- | 163.4733- | 2- | 12- | | 0-403056 | 66400 | -0.04 | 644 | 5324 | 85 | 272 | 15.7 | 114 | 5.1 | 6 | 1.7 | 29360 | 7.1 | 11540 | 37 | 0.5 |
| 02- | 66.0667- | 163.3550- | 2- | 13- | | 0-403057 | 64570 | -0.04 | 651 | 10350 | 77 | 3387 | 16.3 | 85 | -2.9 | 5 | 2.1 | 22790 | 6.4 | 14590 | 32 | 0.5 |
| 02- | 66.0400- | 163.2889- | 2- | 15- | | 0-403058 | 45100 | -0.03 | 537 | 6701 | 54 | 413 | 18.9 | 78 | 3.5 | 5 | 1.9 | 105700 | 3.2 | 8812 | 28 | 0.4 |
| 02- | 66.0325- | 163.2333- | 2- | 12- | | 0-403059 | 50050 | -0.03 | 470 | 8925 | 57 | 168 | 13.7 | 86 | -37.0 | 5 | 1.2 | 64710 | 6.6 | 8777 | 29 | 0.4 |
| 02- | 65.9819- | 163.3333- | 2- | 12- | | 0-403070 | 49500 | -0.03 | 513 | 12520 | 130 | -92 | 25.3 | 92 | 5.4 | 5 | 1.9 | 38900 | 10.5 | 6051 | 52 | 0.8 |
| 02- | 65.9833- | 163.2800- | 2- | 12- | | 0-403071 | 58400 | -0.03 | 473 | 8295 | 94 | -98 | 21.3 | 96 | 4.8 | 5 | 1.6 | 33290 | 12.0 | 11540 | 46 | 0.6 |
| 02- | 65.9444- | 163.4500- | 2- | 12- | | 0-403072 | 55450 | -0.02 | 557 | 17570 | 72 | -69 | 18.1 | 96 | 4.8 | 5 | 1.6 | 31660 | 6.9 | 10780 | 34 | 0.5 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAS SAMPLE LOCATION NUMBER | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 65.8944- | 164.2639- | 2- | 12- | | 0-402999 | 14700 | 550 | 9589 | -48 | -1 | 12.6 | 4.3 | -470 | -2 | -1 | 8.9 | 4354 | 108 | 2.7 | 288 | 0.236 |
| 02- | 65.9028- | 164.2194- | 2- | 12- | | 0-403000 | | | | 39 | 1 | 14.0 | 7.3 | | -1 | -1 | 10.4 | | | 4.4 | -91 | 0.240 |
| 02- | 65.8014- | 164.2125- | 2- | 12- | | 0-403001 | 19700 | 518 | 11520 | 58 | 7 | 13.8 | 4.9 | -308 | -1 | | 8.7 | 6235 | 137 | 3.8 | -94 | 0.264 |
| 02- | 65.7931- | 164.2625- | 2- | 12- | | 0-403002 | 19880 | 1227 | 7693 | 52 | 2 | 13.6 | 11.5 | -434 | -1 | 2 | 16.3 | 7056 | 93 | 12.5 | 125 | 0.264 |
| 02- | 65.8526- | 164.2264- | 2- | 12- | | 0-403003 | 17400 | 856 | 9739 | -43 | 1 | 10.6 | 3.9 | -581 | -2 | -1 | 7.4 | 5039 | 100 | 4.3 | 229 | 0.351 |
| 02- | 65.8431- | 164.2750- | 2- | 12- | | 0-403004 | | | | -19 | 1 | 9.2 | 4.4 | | | | 7.4 | | | 2.8 | 112 | 0.257 |
| 02- | 65.8208- | 164.1069- | 2- | 12- | | 0-403005 | 26290 | 489 | 9676 | 50 | | 12.9 | 4.9 | -291 | -1 | | 7.8 | 4531 | 121 | 3.5 | -63 | 0.282 |
| 02- | 65.8417- | 164.1028- | 2- | 12- | | 0-403006 | 15480 | 411 | 8023 | 30 | | 10.5 | 5.6 | -267 | -1 | | 8.3 | 4797 | 84 | 3.8 | -53 | 0.241 |
| 02- | 65.8819- | 164.0833- | 2- | 12- | | 0-403007 | -6840 | 2043 | 7396 | -46 | -1 | 13.7 | 6.6 | -692 | -3 | -1 | 9.6 | 4274 | 104 | 3.8 | 94 | 0.313 |
| 02- | 65.9333- | 164.1653- | 2- | 13- | | 0-403008 | | | | 31 | 1 | 12.0 | 7.6 | | -1 | | 11.7 | | | 4.9 | 139 | 0.239 |
| 02- | 65.9208- | 164.1306- | 2- | 12- | | 0-403009 | 20600 | 417 | 11200 | -28 | | 12.9 | 5.1 | -323 | -1 | -2 | 7.5 | 6275 | 114 | 3.0 | -127 | 0.280 |
| 02- | 66.0167- | 164.1033- | 2- | 13- | | 0-403011 | 18280 | 404 | 9695 | 63 | -1 | 22.1 | 9.8 | -407 | -1 | -1 | 17.1 | 6245 | 146 | 5.3 | 231 | 0.146 |
| 02- | 66.0650- | 164.0867- | 2- | 13- | | 0-403012 | 17610 | 385 | 8980 | -38 | -1 | 17.2 | 5.2 | -369 | -2 | | 9.8 | 5298 | 147 | 3.1 | 181 | 0.276 |
| 02- | 66.1375- | 163.9933- | 2- | 13- | | 0-403013 | 23050 | 337 | 9780 | 60 | | 17.0 | 7.1 | -298 | -2 | | 11.2 | 6187 | 139 | 4.3 | 205 | 0.241 |
| 02- | 66.2250- | 163.9867- | 2- | 13- | | 0-403015 | 24440 | 342 | 10180 | -33 | -1 | 12.8 | 5.2 | -367 | -1 | -1 | 7.9 | 4908 | 125 | 3.4 | -90 | 0.278 |
| 02- | 66.2333- | 164.0233- | 2- | 13- | | 0-403016 | 17730 | 340 | 11640 | -23 | | 12.8 | 6.7 | -260 | -1 | | 10.7 | 6514 | 90 | 4.1 | 106 | 0.206 |
| 02- | 66.2500- | 164.1378- | 2- | 13- | | 0-403017 | 20950 | 459 | 9137 | -39 | 1 | 15.4 | 5.6 | -387 | -1 | | 8.9 | 5760 | 135 | 3.4 | 251 | 0.303 |
| 02- | 66.2667- | 164.1433- | 2- | 13- | | 0-403018 | 16820 | 456 | 10250 | -33 | 2 | 18.4 | 6.8 | -349 | -1 | -1 | 10.2 | 7420 | 144 | 4.2 | 171 | 0.255 |
| 02- | 66.3267- | 164.1967- | 2- | 13- | | 0-403021 | 29340 | 532 | 12920 | -25 | | 15.0 | 5.0 | -301 | 2 | | 6.4 | 8049 | 122 | 2.8 | | 0.313 |
| 02- | 66.3600- | 164.1667- | 2- | 13- | | 0-403022 | 21640 | 347 | 10960 | -34 | 1 | 20.9 | 8.1 | -344 | -1 | -1 | 11.7 | 8702 | 146 | 4.2 | -79 | 0.205 |
| 02- | 66.4156- | 164.1600- | 2- | 13- | | 0-403023 | 15380 | 474 | 10080 | -47 | -1 | 14.3 | 4.2 | -465 | -2 | -1 | 8.2 | 5326 | 109 | 3.1 | | 0.244 |
| 02- | 66.4567- | 164.2267- | 2- | 13- | | 0-403024 | 22370 | 437 | 11830 | 47 | | 14.6 | 6.6 | -263 | 1 | | 10.0 | 7837 | 116 | 4.0 | 121 | 0.250 |
| 02- | 66.4533- | 164.1567- | 2- | 13- | | 0-403025 | 19140 | 331 | 10030 | 52 | 1 | 14.9 | 5.5 | -305 | -1 | | 9.8 | 6569 | 126 | 3.6 | 139 | 0.255 |
| 02- | 66.4667- | 164.0472- | 2- | 13- | | 0-403026 | 15490 | 394 | 11590 | 36 | | 14.4 | 7.0 | -298 | -1 | | 10.9 | 5462 | 100 | 3.9 | -35 | 0.220 |
| 02- | 66.4600- | 163.9783- | 2- | 13- | | 0-403027 | 19600 | 330 | 7610 | -49 | -1 | 16.5 | 4.3 | -425 | -2 | | 8.9 | 5617 | 142 | 2.8 | | 0.258 |
| 02- | 66.4511- | 163.8428- | 2- | 13- | | 0-403028 | 21910 | 359 | 11460 | -38 | -1 | 14.0 | 4.8 | -378 | -13 | -1 | 8.8 | 4349 | 127 | 4.0 | -537 | 0.273 |
| 02- | 66.4664- | 163.7633- | 2- | 13- | | 0-403029 | 16310 | 251 | 9468 | 52 | | 15.1 | 6.1 | -282 | -1 | -1 | 11.1 | 5395 | 128 | 3.9 | 128 | 0.216 |
| 02- | 66.4056- | 163.9267- | 2- | 13- | | 0-403031 | 16350 | 336 | 9500 | -31 | | 14.1 | 5.2 | -328 | 3 | -1 | 7.0 | 6178 | 128 | 3.2 | 151 | 0.314 |
| 02- | 66.4056- | 164.0333- | 2- | 13- | | 0-403032 | 20490 | 322 | 9268 | 43 | -1 | 17.7 | 7.7 | -344 | -1 | -1 | 11.7 | 6088 | 122 | 4.4 | | 0.214 |
| 02- | 66.3806- | 163.9472- | 2- | 13- | | 0-403034 | 18160 | 421 | 10090 | -44 | -1 | 14.6 | 4.5 | -421 | -2 | -1 | 7.9 | 6726 | 118 | 3.6 | 285 | 0.304 |
| 02- | 66.3708- | 163.8708- | 2- | 13- | | 0-403035 | 19190 | 446 | 10280 | 53 | | 17.3 | 6.8 | -319 | -1 | | 10.0 | 7067 | 135 | 3.8 | 143 | 0.250 |
| 02- | 66.3208- | 163.8867- | 2- | 13- | | 0-403036 | 20670 | 335 | 11010 | -25 | | 13.8 | 6.1 | -279 | -1 | | 8.6 | 6409 | 118 | 3.5 | 127 | 0.291 |
| 02- | 66.3256- | 163.9317- | 2- | 13- | | 0-403037 | 19530 | 527 | 9077 | -41 | -1 | 20.7 | 8.0 | -448 | -1 | -1 | 11.6 | 7689 | 131 | 4.7 | 200 | 0.181 |
| 02- | 66.2939- | 163.9433- | 2- | 13- | | 0-403040 | 27560 | 548 | 12010 | -48 | -1 | 17.2 | 5.0 | -477 | -2 | -1 | 7.8 | 8208 | 150 | 3.2 | | 0.244 |
| 02- | 66.1483- | 163.8900- | 2- | 13- | | 0-403044 | 12260 | 222 | 4886 | -45 | -1 | 9.2 | 3.3 | -450 | -2 | -1 | 5.9 | 2964 | 70 | 1.9 | 214 | 0.203 |
| 02- | 66.1203- | 163.9733- | 2- | 13- | | 0-403045 | 17300 | 309 | 10770 | -31 | -1 | 14.5 | 5.7 | -334 | -1 | -1 | 9.9 | 5642 | 128 | 3.3 | -117 | 0.263 |
| 02- | 66.0017- | 163.9500- | 2- | 13- | | 0-403046 | 19760 | 351 | 9645 | 71 | -1 | 19.1 | 8.8 | -333 | -1 | | 14.5 | 5809 | 133 | 5.2 | -75 | 0.179 |
| 02- | 66.0667- | 163.9183- | 2- | 13- | | 0-403047 | 12810 | 296 | 11040 | -37 | -1 | 13.6 | 5.0 | -350 | -1 | -1 | 8.3 | 6030 | 102 | 2.9 | | 0.313 |
| 02- | 66.1031- | 163.9078- | 2- | 12- | | 0-403048 | 13760 | 309 | 11230 | 43 | 1 | 14.2 | 6.2 | -285 | -1 | | 9.5 | 5617 | 110 | 3.9 | 132 | 0.263 |
| 02- | 66.0900- | 163.7967- | 2- | 13- | | 0-403049 | 19530 | 400 | 9071 | 52 | 1 | 15.3 | 5.5 | -327 | 2 | | 9.0 | 5045 | 138 | 3.3 | 135 | 0.278 |
| 02- | 66.0594- | 163.6967- | 2- | 13- | | 0-403051 | 21470 | 378 | 11660 | 52 | 2 | 17.2 | 8.6 | -371 | -1 | | 14.0 | 5494 | 124 | 5.7 | -107 | 0.164 |
| 02- | 66.0250- | 163.6100- | 2- | 13- | | 0-403052 | 14340 | 312 | 8438 | -49 | 4 | 14.8 | 4.3 | -444 | -2 | -1 | 10.8 | 4607 | 134 | 3.1 | 223 | 0.269 |
| 02- | 66.0247- | 163.5883- | 2- | 12- | | 0-403053 | 16190 | 360 | 9319 | -33 | 1 | 14.9 | 6.5 | -324 | -1 | -1 | 10.6 | 5594 | 138 | 4.3 | 210 | 0.226 |
| 02- | 66.0528- | 163.4900- | 2- | 12- | | 0-403055 | 17360 | 505 | 9865 | -32 | -1 | 11.6 | 6.3 | -363 | -1 | -1 | 9.1 | 5784 | 107 | 4.5 | -76 | 0.286 |
| 02- | 66.0400- | 163.4733- | 2- | 12- | | 0-403056 | 13470 | 222 | 8468 | -37 | 1 | 15.7 | 6.4 | -377 | -1 | -1 | 9.8 | 4997 | 117 | 3.5 | 246 | 0.204 |
| 02- | 66.0667- | 163.3550- | 2- | 13- | | 0-403057 | 19330 | 361 | 11350 | -39 | -1 | 14.7 | 4.9 | -380 | -1 | | 8.6 | 4367 | 126 | 3.9 | | 0.279 |
| 02- | 66.0400- | 163.2889- | 2- | 15- | | 0-403058 | 13030 | 286 | 5916 | -42 | 1 | 10.0 | 5.1 | -310 | -2 | -1 | 6.8 | 3459 | 108 | 3.1 | 142 | 0.221 |
| 02- | 66.0325- | 163.2333- | 2- | 12- | | 0-403059 | 15440 | 339 | 7916 | -32 | -1 | 9.8 | 4.9 | -310 | -1 | -1 | 7.1 | 4219 | 95 | 3.0 | 115 | 0.282 |
| 02- | 65.9819- | 163.3333- | 2- | 12- | | 0-403070 | 12150 | 1388 | 5484 | 66 | 12 | 15.5 | 9.0 | -450 | -1 | -1 | 12.4 | 6632 | 99 | 5.7 | 172 | 0.258 |
| 02- | 65.9833- | 163.2800- | 2- | 12- | | 0-403071 | 12160 | 1429 | 4986 | -37 | 2 | 14.1 | 7.3 | -530 | -1 | | 11.0 | 5808 | 111 | 3.9 | 141 | 0.236 |
| 02- | 65.9444- | 163.4500- | 2- | 12- | | 0-403072 | 27140 | 636 | 7398 | 46 | 2 | 12.9 | 5.6 | -298 | 1 | | 10.3 | 6009 | 103 | 4.1 | -106 | 0.184 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (umho/cm) | SCINTILLOMETER (eU,ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 65.9658- | 163.4517- | 2- | 12- | | 0-403073- | 08/01/76- | 13- | 14- | 11.8- | - | - | 7.8- | 200- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 1.90 |
| 02- | 65.3650- | 164.4944- | 2- | 13- | | 0-403074- | 08/01/76- | 15- | 20- | 19.9- | - | - | 7.5- | 48- | -2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 2.70 |
| 02- | 65.3117- | 164.4922- | 2- | 13- | | 0-403075- | 08/01/76- | 15- | 21- | 18.2- | - | - | 7.2- | 150- | 13- | 2- | 7- | 4- | 6- | - | - | - | 4- | 3- | 3- | 1- | -1- | - | - | - | - | 5.20 |
| 02- | 65.3031- | 164.5000- | 2- | 12- | | 0-403076- | 08/01/76- | 15- | 20- | 16.3- | - | - | 7.0- | 80- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 1.50 |
| 02- | 65.2526- | 164.4806- | 2- | 13- | | 0-403077- | 08/01/76- | 16- | 22- | 17.2- | - | - | 8.0- | 25- | 33- | 2- | 7- | 4- | 6- | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | - | 4.30 |
| 02- | 65.2167- | 164.4817- | 2- | 12- | | 0-403078- | 08/01/76- | 16- | 23- | 14.1- | - | - | 7.6- | 45- | 132- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 1.10 |
| 02- | 65.2339- | 164.3408- | 2- | 12- | | 0-403079- | 08/01/76- | 16- | 22- | 17.3- | - | - | 7.2- | 250- | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 4.00 |
| 02- | 65.2481- | 164.2917- | 2- | 12- | | 0-403080- | 08/01/76- | 16- | 23- | 16.7- | - | - | 7.5- | 250- | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.60 |
| 02- | 65.1625- | 164.4361- | 2- | 12- | | 0-403081- | 08/01/76- | 16- | 21- | 14.1- | - | - | 7.3- | 65- | 46- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 3.70 |
| 02- | 65.1933- | 164.3917- | 2- | 12- | | 0-403082- | 08/01/76- | 16- | 22- | 12.1- | - | - | 7.7- | 50- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 5.30 |
| 02- | 65.1700- | 164.2789- | 2- | 12- | | 0-403083- | 08/01/76- | 16- | 20- | 14.1- | - | - | 7.3- | 40- | 19- | 2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 4.50 |
| 02- | 65.1569- | 164.3308- | 2- | 15- | | 0-403084- | 08/01/76- | 16- | 21- | | - | - | - | - | | -2- | 7- | 4- | 6- | - | - | - | - | - | -1- | 1- | -1- | - | - | - | - | 3.60 |
| 02- | 65.0961- | 164.3675- | 2- | 12- | | 0-403085- | 08/01/76- | 16- | 21- | 15.3- | - | - | 6.8- | 15- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 4.80 |
| 02- | 65.1764- | 164.1792- | 2- | 12- | | 0-403086- | 08/01/76- | 16- | 20- | 15.2- | - | - | 7.1- | 40- | 33- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 4.70 |
| 02- | 65.0956- | 164.4800- | 2- | 12- | | 0-403092- | 08/01/76- | 17- | 19- | 16.3- | - | - | 7.5- | 50- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 1- | -1- | - | - | - | - | 5.60 |
| 02- | 65.2272- | 163.9431- | 2- | 12- | | 0-403114- | 08/01/76- | 18- | 18- | 13.9- | - | - | 6.9- | 50- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 10.50 |
| 02- | 65.2267- | 163.8778- | 2- | 12- | | 0-403115- | 08/01/76- | 18- | 16- | 12.2- | - | - | 7.1- | 30- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 14.10 |
| 02- | 65.2572- | 164.0542- | 2- | 12- | | 0-403116- | 08/01/76- | 18- | 19- | 13.3- | - | - | 8.1- | 50- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 5.50 |
| 02- | 65.2714- | 164.0867- | 2- | 12- | | 0-403117- | 08/01/76- | 18- | 18- | 14.7- | - | - | 7.4- | 30- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 5.40 |
| 02- | 65.7950- | 163.9750- | 2- | 12- | | 0-403118- | 08/01/76- | 9- | 19- | 10.4- | - | - | 7.8- | 50- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 2.80 |
| 02- | 65.9056- | 163.9861- | 2- | 12- | | 0-403119- | 08/01/76- | 9- | 19- | 10.8- | - | - | 7.8- | 20- | 36- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 2.60 |
| 02- | 65.8719- | 163.9167- | 2- | 12- | | 0-403120- | 08/01/76- | 9- | 18- | 11.2- | - | - | 8.0- | 20- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 2.80 |
| 02- | 65.8606- | 163.9467- | 2- | 12- | | 0-403121- | 08/01/76- | 9- | 18- | 10.9- | - | - | 7.8- | 20- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 1- | -1- | - | - | - | - | 2.80 |
| 02- | 65.9272- | 163.9000- | 2- | 12- | | 0-403122- | 08/02/76- | 9- | 14- | 10.8- | - | - | 7.6- | 50- | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 65.9442- | 163.9311- | 2- | 12- | | 0-403123- | 08/02/76- | 9- | 13- | 11.2- | - | - | - | - | 9- | 2- | 7- | 4- | 6- | - | - | - | -4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 3.40 |
| 02- | 65.9733- | 163.8767- | 2- | 15- | | 0-403124- | 07/31/76- | 10- | 14- | | - | - | - | - | 6- | 3- | 7- | 4- | 6- | - | - | - | -4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 0.60 |
| 02- | 65.9806- | 163.9764- | 2- | 12- | | 0-403125- | 07/31/76- | 10- | 14- | 11.2- | - | - | 7.9- | 30- | 6- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 3- | 2- | 3- | 3- | -1- | - | - | - | - | 3.00 |
| 02- | 66.0167- | 163.8431- | 2- | 12- | | 0-403126- | 08/02/76- | 20- | 16- | 10.8- | - | - | 7.9- | 30- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 1.80 |
| 02- | 65.9806- | 163.7931- | 2- | 13- | | 0-403129- | 08/02/76- | 10- | 14- | 10.8- | - | - | 7.8- | 30- | 26- | 2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | - | 2.90 |
| 02- | 65.9383- | 163.7567- | 2- | 12- | | 0-403130- | 08/02/76- | 10- | 14- | 10.8- | - | - | 8.0- | 40- | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 3.10 |
| 02- | 65.9833- | 163.6750- | 2- | 12- | | 0-403131- | 08/02/76- | 10- | 14- | 11.2- | - | - | 7.9- | 50- | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 2.20 |
| 02- | 65.9761- | 163.5944- | 2- | 12- | | 0-403132- | 08/02/76- | 10- | 14- | 11.2- | - | - | 7.6- | 150- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 3.60 |
| 02- | 65.9467- | 163.5867- | 2- | 12- | | 0-403133- | 08/02/76- | 10- | 14- | 10.8- | - | - | 7.6- | 100- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 3.00 |
| 02- | 65.9194- | 163.6528- | 2- | 12- | | 0-403134- | 08/02/76- | 10- | 14- | 10.2- | - | - | 7.8- | 80- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 2.30 |
| 02- | 65.8958- | 163.6833- | 2- | 12- | | 0-403135- | 08/02/76- | 10- | 14- | 11.2- | - | - | 8.1- | 150- | 16- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 2.20 |
| 02- | 65.8706- | 163.7467- | 2- | 12- | | 0-403136- | 08/02/76- | 10- | 14- | 11.2- | - | - | 7.8- | 80- | 33- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 3.10 |
| 02- | 65.8639- | 163.7500- | 2- | 12- | | 0-403137- | 08/02/76- | 11- | 14- | 10.8- | - | - | 7.6- | 90- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -1- | - | - | - | - | 2.80 |
| 02- | 65.8614- | 163.8311- | 2- | 12- | | 0-403138- | 08/02/76- | 11- | 14- | 11.6- | - | - | 7.8- | 40- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 65.8017- | 163.8069- | 2- | 12- | | 0-403139- | 08/02/76- | 11- | 14- | 11.6- | - | - | 7.8- | 200- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 2- | 3- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 65.7911- | 163.8503- | 2- | 12- | | 0-403140- | 08/02/76- | 11- | 14- | 11.8- | - | - | - | 100- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 7.10 |
| 02- | 65.8514- | 163.6861- | 2- | 12- | | 0-403141- | 08/02/76- | 11- | 16- | 11.6- | - | - | 7.8- | 220- | 43- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 3- | 3- | 3- | -2- | - | - | - | - | 2.70 |
| 02- | 65.8194- | 163.6467- | 2- | 12- | | 0-403142- | 08/02/76- | 11- | 16- | 11.2- | - | - | 6.8- | 210- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.40 |
| 02- | 65.7606- | 163.6017- | 2- | 12- | | 0-403144- | 08/02/76- | 11- | 15- | 11.4- | - | - | 7.8- | 50- | 0- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 65.8119- | 163.5967- | 2- | 12- | | 0-403145- | 08/02/76- | 11- | 15- | 11.4- | - | - | 7.8- | 200- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.90 |
| 02- | 65.7928- | 163.4083- | 2- | 12- | | 0-403146- | 08/02/76- | 12- | 14- | 11.2- | - | - | 6.8- | 160- | 13- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 2- | 2- | 3- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 65.7881- | 163.3611- | 2- | 12- | | 0-403147- | 08/02/76- | 12- | 14- | 11.7- | - | - | 7.4- | 150- | 19- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 2- | 2- | 3- | 2- | -1- | - | - | - | - | 6.60 |
| 02- | 65.8389- | 163.4347- | 2- | 12- | | 0-403148- | 08/02/76- | 12- | 14- | 11.4- | - | - | 7.6- | 200- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 1.90 |
| 02- | 65.8356- | 163.5642- | 2- | 12- | | 0-403150- | 08/02/76- | 12- | 15- | 11.4- | - | - | - | 200- | 0- | 2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.40 |
| 02- | 65.9006- | 163.4714- | 2- | 12- | | 0-403151- | 08/02/76- | 12- | 15- | 11.4- | - | - | 7.8- | 50- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 65.8833- | 163.5400- | 2- | 12- | | 0-403152- | 08/02/76- | 12- | 15- | 11.6- | - | - | 7.6- | 200- | 6- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 2.00 |
| 02- | 65.8192- | 164.7356- | 2- | 12- | | 0-403155- | 08/02/76- | 13- | 16- | | - | - | - | - | 19- | 2- | 7- | 4- | 6- | - | - | - | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 3.80 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(2)

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 65.9656- | 163.4517- | 2- | 12- | | 0-403073 | -5 | -5 | -5 | 37 | -20 | 32 | -5 | -10 | -15 | -1 | 20 |
| 02- | 65.3650- | 164.4944- | 2- | 13- | | 0-403074 | -5 | -5 | -5 | 40 | 21 | 49 | -5 | -10 | -15 | 2 | 30 |
| 02- | 65.3117- | 164.4922- | 2- | 13- | | 0-403075 | -5 | -5 | -5 | 23 | 44 | 17 | -5 | -10 | -15 | 2 | 25 |
| 02- | 65.3031- | 164.5000- | 2- | 12- | | 0-403076 | | | | | | | | | | | |
| 02- | 65.2528- | 164.4806- | 2- | 13- | | 0-403077 | -5 | -5 | -5 | 27 | 31 | 29 | 12 | -10 | -15 | 2 | 27 |
| 02- | 65.2167- | 164.4817- | 2- | 12- | | 0-403078 | | | | | | | | | | -1 | 6 |
| 02- | 65.2339- | 164.3406- | 2- | 12- | | 0-403079 | -5 | -5 | -5 | 10 | 30 | 30 | -5 | -10 | -15 | 2 | 27 |
| 02- | 65.2481- | 164.2917- | 2- | 12- | | 0-403080 | | | | | | | | | | -1 | 2 |
| 02- | 65.1625- | 164.4361- | 2- | 12- | | 0-403081 | -5 | 6 | -5 | 22 | 24 | 18 | 9 | -10 | -15 | 2 | 33 |
| 02- | 65.1933- | 164.3917- | 2- | 12- | | 0-403082 | -5 | -5 | -5 | 22 | -20 | -15 | 12 | -10 | -15 | 3 | 51 |
| 02- | 65.1700- | 164.2789- | 2- | 12- | | 0-403083 | -5 | -5 | -5 | 19 | 43 | 27 | -5 | -10 | -15 | 2 | 27 |
| 02- | 65.1569- | 164.3306- | 2- | 15- | | 0-403084 | -5 | -5 | -5 | 18 | 43 | 28 | -5 | -10 | -15 | 1 | 24 |
| 02- | 65.0981- | 164.3675- | 2- | 12- | | 0-403085 | -5 | -5 | 5 | 24 | -20 | 19 | 11 | -10 | -15 | 2 | 39 |
| 02- | 65.1764- | 164.1792- | 2- | 12- | | 0-403086 | -5 | -5 | -5 | 45 | -20 | 75 | -5 | -10 | -15 | 2 | 72 |
| 02- | 65.0958- | 164.4800- | 2- | 12- | | 0-403092 | | | | | | | | | | -1 | 8 |
| 02- | 65.2272- | 163.9431- | 2- | 12- | | 0-403114 | -5 | -5 | 5 | 56 | 42 | 110 | 8 | -10 | -15 | 2 | 23 |
| 02- | 65.2267- | 163.8778- | 2- | 12- | | 0-403115 | -5 | -5 | -5 | 35 | 43 | 45 | -5 | -10 | -15 | 2 | 27 |
| 02- | 65.2572- | 164.0542- | 2- | 12- | | 0-403116 | -5 | -5 | -5 | 34 | 66 | 59 | 10 | -10 | -15 | 2 | 39 |
| 02- | 65.2714- | 164.0867- | 2- | 12- | | 0-403117 | -5 | -5 | 5 | 30 | 52 | 41 | -5 | -10 | -15 | 2 | 26 |
| 02- | 65.7950- | 163.9750- | 2- | 12- | | 0-403118 | -5 | -5 | -5 | 27 | 20 | 34 | -5 | -10 | -15 | 2 | 23 |
| 02- | 65.9056- | 163.9861- | 2- | 12- | | 0-403119 | -5 | -5 | -5 | 14 | 51 | 32 | -5 | -10 | -15 | 2 | 16 |
| 02- | 65.8719- | 163.9167- | 2- | 12- | | 0-403120 | -5 | -5 | -5 | 27 | -20 | 19 | -5 | -10 | -15 | 2 | 17 |
| 02- | 65.8606- | 163.9467- | 2- | 12- | | 0-403121 | -5 | -5 | -5 | 20 | 26 | 17 | -5 | -10 | -15 | 2 | 26 |
| 02- | 65.9272- | 163.9000- | 2- | 12- | | 0-403122 | -5 | -5 | -5 | 21 | 34 | 37 | -5 | -10 | -15 | 2 | 20 |
| 02- | 65.9442- | 163.9311- | 2- | 12- | | 0-403123 | -5 | -5 | 5 | 46 | -20 | -15 | 188 | -10 | 16 | -1 | 8 |
| 02- | 65.9733- | 163.8767- | 2- | 15- | | 0-403124 | -5 | -5 | -5 | 12 | 26 | -15 | -5 | 20 | 15 | -1 | 3 |
| 02- | 65.9806- | 163.9764- | 2- | 12- | | 0-403125 | -5 | -5 | -5 | 26 | 26 | 41 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.0167- | 163.8431- | 2- | 12- | | 0-403126 | | | | | | | | | | -1 | 7 |
| 02- | 65.9606- | 163.7931- | 2- | 13- | | 0-403129 | -5 | -5 | -5 | 22 | 53 | 20 | -5 | -10 | -15 | 1 | 21 |
| 02- | 65.9383- | 163.7567- | 2- | 12- | | 0-403130 | -5 | -5 | -5 | 30 | 42 | 33 | -5 | -10 | -15 | 1 | 25 |
| 02- | 65.9833- | 163.6750- | 2- | 12- | | 0-403131 | -5 | -5 | 10 | 13 | -20 | 42 | -5 | -10 | -15 | -1 | 11 |
| 02- | 65.9781- | 163.5944- | 2- | 12- | | 0-403132 | -5 | -5 | -5 | 31 | 37 | 43 | 6 | -10 | -15 | 2 | 31 |
| 02- | 65.9467- | 163.5867- | 2- | 12- | | 0-403133 | -5 | -5 | -5 | 12 | 23 | 39 | -5 | -10 | -15 | 1 | 19 |
| 02- | 65.9194- | 163.6528- | 2- | 12- | | 0-403134 | -5 | -5 | 8 | 22 | 61 | -15 | -5 | -10 | -15 | -1 | 4 |
| 02- | 65.8958- | 163.6833- | 2- | 12- | | 0-403135 | -5 | 6 | -5 | 21 | 30 | 30 | -5 | -10 | -15 | 1 | 21 |
| 02- | 65.8786- | 163.7467- | 2- | 12- | | 0-403136 | -5 | -5 | -5 | 16 | 41 | 42 | -5 | -10 | -15 | 1 | 29 |
| 02- | 65.8639- | 163.7500- | 2- | 12- | | 0-403137 | -5 | 5 | 5 | 41 | 27 | 54 | -5 | -10 | -15 | 1 | 15 |
| 02- | 65.8614- | 163.8311- | 2- | 12- | | 0-403138 | -5 | -5 | -5 | 26 | -20 | 36 | -5 | -10 | -15 | 2 | 24 |
| 02- | 65.8017- | 163.8069- | 2- | 12- | | 0-403139 | -5 | -5 | 5 | 21 | -20 | 23 | -5 | -10 | -15 | 1 | 49 |
| 02- | 65.7911- | 163.8583- | 2- | 12- | | 0-403140 | -5 | -5 | 7 | 50 | -20 | 71 | 9 | -10 | -15 | 3 | 24 |
| 02- | 65.8514- | 163.6861- | 2- | 12- | | 0-403141 | -5 | -5 | -5 | 35 | -20 | 37 | -5 | -10 | -15 | 2 | 35 |
| 02- | 65.8194- | 163.6467- | 2- | 12- | | 0-403142 | -5 | -5 | -5 | 21 | -20 | 18 | -5 | -10 | -15 | 1 | 53 |
| 02- | 65.7606- | 163.6017- | 2- | 12- | | 0-403144 | -5 | -5 | -5 | 16 | -20 | 54 | 7 | -10 | -15 | 1 | 21 |
| 02- | 65.8119- | 163.5967- | 2- | 12- | | 0-403145 | -5 | -5 | -5 | 31 | -20 | 27 | -5 | -10 | -15 | 1 | 41 |
| 02- | 65.7928- | 163.4063- | 2- | 12- | | 0-403146 | -5 | -5 | -5 | 32 | -20 | 58 | 9 | -10 | -15 | 3 | 30 |
| 02- | 65.7881- | 163.3611- | 2- | 12- | | 0-403147 | -5 | -5 | -5 | 30 | -20 | 51 | -5 | -10 | -15 | 3 | 29 |
| 02- | 65.8389- | 163.4347- | 2- | 12- | | 0-403148 | -5 | -5 | -5 | 35 | -20 | 18 | 5 | -10 | -15 | 2 | 63 |
| 02- | 65.8356- | 163.5642- | 2- | 12- | | 0-403150 | -5 | -5 | -5 | 25 | -20 | 34 | -5 | -10 | -15 | 2 | 52 |
| 02- | 65.9006- | 163.4714- | 2- | 12- | | 0-403151 | -5 | 8 | 5 | 45 | 22 | 54 | -5 | -10 | -15 | 1 | 27 |
| 02- | 65.8633- | 163.5400- | 2- | 12- | | 0-403152 | -5 | -5 | -5 | 22 | -20 | 39 | -5 | -10 | -15 | 2 | 22 |
| 02- | 65.8192- | 164.7356- | 2- | 12- | | 0-403155 | -5 | -5 | -5 | 28 | -20 | 27 | 6 | -10 | -15 | 2 | 28 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 65.9658- | 163.4517- | 2- | 12- | 0- | 403073 | 59230 | -0.02 | 432 | 17920 | 58 | -70 | 14.8 | 81 | -46.9 | 5 | 1.3 | 28360 | 6.6 | 12150 | 30 | 0.3 |
| 02- | 65.3650- | 164.4944- | 2- | 13- | 0- | 403074 | 73450 | 0.09 | 706 | 8176 | 116 | -99 | 23.4 | 144 | 4.6 | 6 | 1.9 | 34760 | 8.6 | 12860 | 47 | 0.7 |
| 02- | 65.3117- | 164.4922- | 2- | 13- | 0- | 403075 | 46110 | -0.03 | 1093 | 10530 | 76 | -87 | 11.8 | 54 | 3.2 | 5 | 1.5 | 16710 | 5.6 | 8264 | 40 | 0.5 |
| 02- | 65.3031- | 164.5000- | 2- | 12- | 0- | 403076 | 54190 | -0.09 | -600 | -3503 | 41 | -213 | 40.6 | -43 | -6.5 | 5 | -1.1 | 96280 | -4.5 | -7968 | 22 | -0.3 |
| 02- | 65.2528- | 164.4806- | 2- | 13- | 0- | 403077 | 61180 | -0.03 | 493 | 12060 | 107 | 133 | 12.2 | 79 | 3.3 | 7 | 1.6 | 24470 | 8.4 | 9417 | 49 | 0.7 |
| 02- | 65.2167- | 164.4817- | 2- | 12- | 0- | 403078 | 210800 | -1.69 | | -91550 | -483 | -3794 | 670.8 | -825 | | | | 190200 | -90.2 | | -164 | -6.8 |
| 02- | 65.2339- | 164.3408- | 2- | 12- | 0- | 403079 | 68170 | -0.03 | 457 | 12830 | 76 | -110 | 13.8 | 85 | -2.7 | 6 | 1.6 | 27830 | 10.0 | 11270 | 39 | 0.6 |
| 02- | 65.2481- | 164.2917- | 2- | 12- | 0- | 403080 | 12530 | | -276 | 8817 | | 454 | | | | 4 | | | | -4710 | | |
| 02- | 65.1625- | 164.4361- | 2- | 12- | 0- | 403081 | 61550 | -0.02 | 360 | 29050 | 71 | -85 | 8.6 | 45 | 3.2 | 6 | 1.4 | 17640 | 8.2 | 16250 | 30 | 0.6 |
| 02- | 65.1933- | 164.3917- | 2- | 12- | 0- | 403082 | 52590 | -0.02 | 235 | 28840 | 141 | -96 | 13.7 | 70 | 3.5 | 7 | 1.9 | 24940 | 12.4 | 14390 | 54 | 1.1 |
| 02- | 65.1700- | 164.2769- | 2- | 12- | 0- | 403083 | 57840 | -0.03 | 457 | 13980 | 122 | -117 | 16.3 | 80 | 5.5 | 6 | 1.6 | 26920 | 12.7 | 9587 | 67 | 0.8 |
| 02- | 65.1569- | 164.3308- | 2- | 15- | 0- | 403084 | 58980 | -0.03 | 487 | 6185 | 197 | -90 | 24.5 | 135 | 5.2 | 8 | 2.8 | 33900 | 11.8 | 10180 | 92 | 0.8 |
| 02- | 65.0981- | 164.3675- | 2- | 12- | 0- | 403085 | 58060 | 1.12 | 458 | 23700 | 125 | -133 | 16.4 | 75 | 6.2 | 7 | 1.7 | 31570 | 14.8 | 12710 | 51 | 1.0 |
| 02- | 65.1764- | 164.1792- | 2- | 12- | 0- | 403086 | 52030 | -0.03 | 410 | 9727 | 142 | -126 | 27.3 | 176 | 4.7 | 4 | 1.8 | 47010 | 6.8 | -5456 | 56 | 0.8 |
| 02- | 65.0958- | 164.4800- | 2- | 12- | 0- | 403092 | 78560 | -0.07 | 807 | 27670 | 57 | -249 | 19.0 | -35 | -5.4 | 8 | 2.3 | 19590 | 7.2 | 16560 | 42 | 0.7 |
| 02- | 65.2272- | 163.9431- | 2- | 12- | 0- | 403114 | 73590 | -0.03 | 1421 | 13870 | 104 | -90 | 40.0 | 93 | 12.0 | 6 | 2.0 | 33620 | 6.6 | 16560 | 51 | 0.8 |
| 02- | 65.2267- | 163.8778- | 2- | 12- | 0- | 403115 | 57480 | -0.02 | 1774 | 16790 | 132 | -71 | 10.6 | 58 | 4.6 | 9 | 0.9 | 21920 | 8.9 | 11430 | 61 | 0.5 |
| 02- | 65.2572- | 164.0542- | 2- | 12- | 0- | 403116 | 83070 | -0.04 | 799 | 9551 | 173 | -88 | 25.5 | 114 | 9.8 | 9 | 2.3 | 42250 | 10.9 | 14730 | 71 | 0.8 |
| 02- | 65.2714- | 164.0867- | 2- | 12- | 0- | 403117 | 74810 | -0.05 | 668 | 11530 | 102 | -122 | 28.0 | 69 | 8.5 | 6 | 1.9 | 39010 | 6.4 | 14980 | 45 | 0.5 |
| 02- | 65.7950- | 163.9750- | 2- | 12- | 0- | 403118 | 62620 | -0.03 | 670 | 10780 | 91 | 141 | 33.8 | 126 | 4.7 | 5 | 1.8 | 36950 | 7.6 | 11820 | 41 | 0.7 |
| 02- | 65.9056- | 163.9861- | 2- | 12- | 0- | 403119 | 65050 | -0.03 | 671 | 7028 | 56 | -99 | 13.1 | 84 | 4.5 | 6 | 1.8 | 22390 | 4.9 | 13170 | 34 | 0.4 |
| 02- | 65.8719- | 163.9167- | 2- | 12- | 0- | 403120 | 64820 | -0.04 | 618 | 7603 | 129 | 131 | 25.6 | 148 | 5.0 | 7 | 2.0 | 46750 | 9.7 | 9364 | 47 | 0.7 |
| 02- | 65.8606- | 163.9467- | 2- | 12- | 0- | 403121 | 71660 | -0.02 | 753 | 7172 | -6 | -96 | 16.4 | 122 | -2.2 | 5 | 0.3 | 26620 | 20.1 | 11830 | | 0.2 |
| 02- | 65.9272- | 163.9000- | 2- | 12- | 0- | 403122 | 65450 | -0.03 | 543 | 11890 | 141 | -105 | 28.7 | 139 | 4.7 | 7 | 2.2 | 34250 | 11.2 | 11130 | 49 | 0.8 |
| 02- | 65.9442- | 163.9311- | 2- | 12- | 0- | 403123 | 8305 | -0.05 | -378 | 7831 | 98 | 487 | 77.3 | -22 | -3.8 | -2 | -0.6 | 163300 | -2.5 | -7718 | 7 | -0.2 |
| 02- | 65.9733- | 163.8767- | 2- | 15- | 0- | 403124 | 8392 | -0.06 | -693 | -4036 | -13 | 633 | 210.2 | -27 | -4.7 | -3 | -0.7 | 165700 | -2.9 | -16640 | 14 | 0.3 |
| 02- | 65.9806- | 163.9764- | 2- | 12- | 0- | 403125 | 59310 | -0.02 | 604 | 8606 | 83 | -84 | 17.2 | 111 | 2.5 | 6 | 1.6 | 23130 | 10.7 | 9448 | 36 | 0.6 |
| 02- | 66.0167- | 163.8431- | 2- | 12- | 0- | 403126 | 36160 | -0.06 | -447 | 13460 | 87 | 489 | 41.4 | 102 | 8.6 | 4 | 1.9 | 50610 | -2.8 | -7318 | 30 | 0.5 |
| 02- | 65.9806- | 163.7931- | 2- | 13- | 0- | 403129 | 63680 | -0.04 | 492 | 6841 | 66 | -109 | 20.8 | 92 | 4.5 | 5 | 1.2 | 32110 | 6.6 | 10720 | 37 | 0.5 |
| 02- | 65.9383- | 163.7567- | 2- | 12- | 0- | 403130 | 51610 | -0.02 | 542 | 16120 | 98 | -73 | 18.6 | 140 | 3.2 | 6 | 1.7 | 26480 | 10.9 | 9009 | 44 | 0.6 |
| 02- | 65.9633- | 163.6750- | 2- | 12- | 0- | 403131 | 45790 | -0.04 | -361 | 12760 | 46 | -154 | 82.6 | 84 | -3.1 | 4 | 1.3 | 77630 | 5.3 | -8374 | 27 | 0.3 |
| 02- | 65.9761- | 163.5944- | 2- | 12- | 0- | 403132 | 64210 | -0.03 | 837 | 7306 | 134 | -111 | 31.3 | 138 | 5.6 | 6 | 2.1 | 37680 | 11.0 | 9943 | 53 | 0.8 |
| 02- | 65.9467- | 163.5867- | 2- | 12- | 0- | 403133 | 49510 | -0.04 | -311 | 7256 | 82 | -143 | 46.6 | 112 | -3.1 | 4 | 1.5 | 34050 | 7.8 | -6856 | 37 | 0.6 |
| 02- | 65.9194- | 163.6528- | 2- | 12- | 0- | 403134 | 30570 | -0.04 | -352 | 12200 | 77 | 231 | 83.9 | 77 | -37.7 | 3 | 2.2 | 109200 | 6.3 | -8619 | 35 | 0.6 |
| 02- | 65.8958- | 163.6833- | 2- | 12- | 0- | 403135 | 54890 | -0.03 | 567 | 31010 | 71 | 115 | 15.8 | 103 | -43.9 | 4 | 1.5 | 27700 | 5.7 | 8910 | 31 | 0.4 |
| 02- | 65.8786- | 163.7467- | 2- | 12- | 0- | 403136 | 65930 | -0.03 | 866 | 10990 | 130 | -97 | 28.7 | 164 | 8.2 | 6 | 2.2 | 38970 | 10.3 | 11910 | 50 | 0.8 |
| 02- | 65.8639- | 163.7500- | 2- | 12- | 0- | 403137 | 34030 | -0.04 | -469 | -3953 | 92 | -238 | 41.3 | 86 | -3.4 | -3 | 1.6 | 41080 | 6.0 | -11250 | 36 | 0.6 |
| 02- | 65.8614- | 163.8311- | 2- | 12- | 0- | 403138 | 67700 | -0.03 | 810 | 11170 | 100 | -90 | 21.4 | 131 | 4.6 | 7 | 2.0 | 33770 | 9.2 | 13450 | 46 | 0.7 |
| 02- | 65.8017- | 163.8069- | 2- | 12- | 0- | 403139 | 54600 | -0.02 | 1015 | 50180 | 57 | 136 | 13.2 | 73 | -24.5 | 5 | 1.3 | 22930 | 4.7 | 11640 | 29 | 0.4 |
| 02- | 65.7911- | 163.8583- | 2- | 12- | 0- | 403140 | 63440 | -0.03 | 887 | 17190 | 202 | -89 | 32.7 | 103 | 7.5 | 8 | 2.9 | 38490 | 10.1 | 13350 | 81 | 1.1 |
| 02- | 65.8514- | 163.6861- | 2- | 12- | 0- | 403141 | 74310 | -0.04 | 565 | 30620 | 72 | -109 | 19.3 | 107 | 4.8 | 5 | 1.4 | 28360 | 7.5 | 13550 | 37 | 0.4 |
| 02- | 65.8194- | 163.6467- | 2- | 12- | 0- | 403142 | 45890 | -0.02 | 590 | 85450 | 39 | -65 | 13.4 | 76 | 3.2 | 3 | 0.6 | 24800 | 3.2 | 11010 | 20 | 0.3 |
| 02- | 65.7600- | 163.6017- | 2- | 12- | 0- | 403144 | 60130 | -0.03 | 487 | 21570 | 53 | -102 | 31.4 | 160 | -33.2 | 5 | 1.5 | 38110 | 5.0 | 10360 | 28 | 0.2 |
| 02- | 65.8119- | 163.5967- | 2- | 12- | 0- | 403145 | 49390 | -0.03 | 1126 | 88570 | 63 | -77 | 18.2 | 117 | 4.9 | 3 | 1.2 | 26150 | 5.1 | 15360 | 28 | 0.4 |
| 02- | 65.7928- | 163.4063- | 2- | 12- | 0- | 403146 | 64410 | -0.03 | 817 | 17360 | 66 | -81 | 20.5 | 108 | 6.8 | 4 | 1.3 | 31210 | 6.6 | 16510 | 34 | 0.4 |
| 02- | 65.7881- | 163.3611- | 2- | 12- | 0- | 403147 | 62960 | -0.03 | 874 | 17730 | 168 | -97 | 26.4 | 87 | 6.5 | 7 | 2.2 | 41190 | 9.4 | 14450 | 69 | 0.9 |
| 02- | 65.8389- | 163.4347- | 2- | 12- | 0- | 403148 | 68800 | -0.02 | 868 | 31860 | 52 | -70 | 14.7 | 98 | 5.7 | 3 | 0.8 | 25970 | 4.6 | 15950 | 26 | 0.3 |
| 02- | 65.8356- | 163.5642- | 2- | 12- | 0- | 403150 | 57610 | -0.02 | 634 | 70140 | 43 | -69 | 18.7 | 103 | 4.1 | 3 | 1.2 | 28370 | 4.1 | 15110 | 20 | 0.3 |
| 02- | 65.9006- | 163.4714- | 2- | 12- | 0- | 403151 | 56120 | 0.11 | 1520 | 16380 | 49 | -80 | 19.5 | 75 | 6.4 | 4 | 1.8 | 27720 | 4.8 | 16280 | 28 | 0.4 |
| 02- | 65.8833- | 163.5400- | 2- | 12- | 0- | 403152 | 53720 | -0.02 | 914 | 38520 | 59 | -66 | 15.1 | 65 | 3.9 | 4 | 1.2 | 24970 | 5.3 | 12270 | 29 | 0.4 |
| 02- | 65.8192- | 164.7356- | 2- | 12- | 0- | 403155 | 63190 | -0.03 | 631 | 5888 | 91 | -102 | 22.6 | 85 | 6.3 | 6 | 1.6 | 30340 | 7.2 | 12940 | 39 | 0.5 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER | | | | | | LAS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 65.9658- | 163.4517- | 2- | 12- | 0- | 403073 | 24370 | 634 | 7241 | -21 | -2 | 11.7 | 4.7 | -291 | -1 | | 8.1 | 5768 | 106 | 4.0 | 154 | 0.235 |
| 02- | 65.3650- | 164.4944- | 2- | 13- | 0- | 403074 | 17700 | 522 | 9284 | 60 | 1 | 19.4 | 8.1 | -398 | -1 | -1 | 12.3 | 5533 | 141 | 4.2 | 179 | 0.220 |
| 02- | 65.3117- | 164.4922- | 2- | 13- | 0- | 403075 | 11370 | 799 | 9085 | -27 | | 9.0 | 6.6 | -357 | -1 | | 12.0 | 4019 | 91 | 4.0 | 140 | 0.433 |
| 02- | 65.3031- | 164.5000- | 2- | 12- | 0- | 403076 | -10370 | 392 | 8628 | -100 | -2 | 11.7 | 4.3 | -892 | -5 | -3 | 7.3 | 4825 | 133 | -3.2 | -172 | 0.205 |
| 02- | 65.2528- | 164.4806- | 2- | 13- | 0- | 403077 | 17390 | 1310 | 11930 | -26 | | 16.5 | 9.9 | -446 | -1 | | 19.4 | 5915 | 92 | 5.1 | -51 | 0.222 |
| 02- | 65.2167- | 164.4817- | 2- | 12- | 0- | 403078 | | 1474 | 46950 | | -47 | 108.8 | 12.3 | | -83 | -64 | | | -289 | -63.3 | -3781 | |
| 02- | 65.2339- | 164.3408- | 2- | 12- | 0- | 403079 | 15990 | 526 | 14890 | -36 | -1 | 13.8 | 6.6 | -379 | -1 | -1 | 11.4 | 4824 | 98 | 3.7 | | 0.351 |
| 02- | 65.2481- | 164.2917- | 2- | 12- | 0- | 403080 | -4498 | 708 | 1466 | | | | | -535 | | | | -1292 | 34 | | | |
| 02- | 65.1625- | 164.4361- | 2- | 12- | 0- | 403081 | 13650 | 716 | 15320 | -18 | | 10.5 | 7.1 | -284 | | 1 | 10.5 | 3057 | 59 | 4.8 | 109 | 0.352 |
| 02- | 65.1933- | 164.3917- | 2- | 12- | 0- | 403082 | 11570 | 1018 | 12920 | 48 | | 14.7 | 12.8 | -356 | -1 | 1 | 19.4 | 3715 | 55 | 7.8 | | 0.273 |
| 02- | 65.1700- | 164.2769- | 2- | 12- | 0- | 403083 | 18120 | 1243 | 13000 | -37 | -1 | 15.7 | 10.6 | -486 | -1 | | 20.6 | 4286 | 88 | 5.6 | | 0.218 |
| 02- | 65.1569- | 164.3306- | 2- | 15- | 0- | 403084 | 16520 | 1380 | 7631 | 62 | 2 | 14.9 | 16.0 | -444 | -1 | -1 | 27.0 | 4655 | 111 | 7.2 | 154 | 0.133 |
| 02- | 65.0981- | 164.3675- | 2- | 12- | 0- | 403085 | 18260 | 2266 | 12030 | -30 | -1 | 19.8 | 9.7 | -613 | -2 | -1 | 14.9 | 6356 | 70 | 8.4 | -129 | 0.322 |
| 02- | 65.1764- | 164.1792- | 2- | 12- | 0- | 403086 | 13870 | 2138 | 6804 | -30 | -1 | 27.7 | 10.6 | -551 | -1 | | 15.9 | 4812 | 86 | 6.3 | 158 | 0.296 |
| 02- | 65.0958- | 164.4800- | 2- | 12- | 0- | 403092 | -11150 | 697 | 20550 | -76 | -2 | 12.0 | 5.2 | -904 | -10 | -2 | 12.7 | 5382 | 88 | 5.8 | -402 | 0.441 |
| 02- | 65.2272- | 163.9431- | 2- | 12- | 0- | 403114 | 27550 | 518 | 9530 | 61 | -1 | 16.2 | 11.1 | -352 | -1 | | 15.5 | 5494 | 175 | 5.6 | 272 | 0.677 |
| 02- | 65.2267- | 163.8778- | 2- | 12- | 0- | 403115 | 15570 | 403 | 10040 | 49 | | 11.1 | 11.8 | -252 | 1 | -1 | 24.2 | 5896 | 152 | 6.6 | 137 | 0.563 |
| 02- | 65.2572- | 164.0542- | 2- | 12- | 0- | 403116 | 30360 | 505 | 6714 | 110 | -1 | 21.2 | 13.8 | -375 | -1 | | 23.3 | 6781 | 142 | 5.7 | 161 | 0.236 |
| 02- | 65.2714- | 164.0867- | 2- | 12- | 0- | 403117 | 26750 | 702 | 5961 | -56 | -1 | 17.4 | 7.8 | -589 | -2 | -2 | 13.6 | 5210 | 143 | 4.9 | | 0.397 |
| 02- | 65.7950- | 163.9750- | 2- | 12- | 0- | 403118 | 15510 | 1643 | 8884 | 84 | 1 | 16.1 | 7.8 | -578 | -2 | -1 | 11.3 | 4419 | 118 | 4.7 | 204 | 0.248 |
| 02- | 65.9056- | 163.9861- | 2- | 12- | 0- | 403119 | 14640 | 297 | 10340 | 49 | 1 | 12.5 | 5.8 | -343 | -1 | -1 | 9.5 | 4947 | 120 | 3.3 | -126 | 0.274 |
| 02- | 65.8719- | 163.9167- | 2- | 12- | 0- | 403120 | 17040 | 339 | 10630 | -38 | -1 | 16.8 | 8.8 | -368 | -2 | -1 | 13.4 | 5822 | 106 | 5.8 | 208 | 0.209 |
| 02- | 65.8606- | 163.9467- | 2- | 12- | 0- | 403121 | 16990 | 541 | 10850 | -27 | | -0.1 | 0.4 | -366 | -1 | -1 | 8.1 | 5823 | 123 | 1.9 | 134 | 0.346 |
| 02- | 65.9272- | 163.9000- | 2- | 12- | 0- | 403122 | 17850 | 631 | 10030 | -34 | -1 | 17.2 | 9.2 | -428 | -2 | | 13.0 | 6463 | 121 | 5.5 | 151 | 0.246 |
| 02- | 65.9442- | 163.9311- | 2- | 12- | 0- | 403123 | -7080 | 2319 | 984 | -72 | -1 | 3.3 | 2.3 | -848 | -2 | -1 | -2.8 | -1995 | 34 | -1.8 | -106 | |
| 02- | 65.9733- | 163.8767- | 2- | 15- | 0- | 403124 | -15420 | 7263 | 1231 | -88 | -1 | 4.3 | 3.4 | | -2 | -2 | 2.5 | -3997 | -37 | -2.0 | 253 | 0.240 |
| 02- | 65.9806- | 163.9764- | 2- | 12- | 0- | 403125 | 14400 | 542 | 10820 | -24 | | 12.2 | 6.2 | -315 | -2 | | 9.0 | 5709 | 97 | 5.0 | 121 | 0.333 |
| 02- | 66.0167- | 163.8431- | 2- | 12- | 0- | 403126 | 10400 | 1077 | 4735 | -60 | 3 | 11.7 | 5.3 | -850 | -3 | -2 | 9.6 | 3464 | 90 | 3.8 | 303 | 0.187 |
| 02- | 65.9806- | 163.7931- | 2- | 13- | 0- | 403129 | 14980 | 471 | 10610 | -41 | -1 | 14.4 | 5.1 | -402 | -1 | -1 | 8.8 | 5548 | 109 | 3.6 | 176 | 0.330 |
| 02- | 65.9383- | 163.7567- | 2- | 12- | 0- | 403130 | 18860 | 535 | 9919 | 45 | 1 | 12.9 | 7.5 | -282 | -1 | | 11.6 | 6060 | 109 | 5.0 | 141 | 0.267 |
| 02- | 65.9833- | 163.6750- | 2- | 12- | 0- | 403131 | 13720 | 3144 | 5544 | -47 | -1 | 10.9 | 4.5 | -859 | -1 | -1 | 6.9 | -1981 | 71 | 3.7 | 258 | 0.319 |
| 02- | 65.9761- | 163.5944- | 2- | 12- | 0- | 403132 | 19760 | 1322 | 8945 | 44 | 3 | 17.8 | 10.5 | -523 | -1 | -1 | 12.4 | 5857 | 106 | 6.4 | 232 | 0.290 |
| 02- | 65.9467- | 163.5867- | 2- | 12- | 0- | 403133 | 16810 | 2268 | 7724 | -44 | -1 | 14.6 | 5.5 | -718 | -1 | -1 | 10.1 | 4341 | 95 | 4.7 | 226 | 0.297 |
| 02- | 65.9194- | 163.6528- | 2- | 12- | 0- | 403134 | -8200 | 3838 | 4343 | -47 | -1 | 12.6 | 7.2 | -880 | -1 | -1 | 9.8 | -2023 | 73 | 4.8 | 226 | 0.235 |
| 02- | 65.8958- | 163.6833- | 2- | 12- | 0- | 403135 | 22380 | 1465 | 6797 | -27 | -2 | 12.3 | 4.9 | -463 | -1 | | 8.6 | 4630 | 97 | 3.5 | -49 | 0.256 |
| 02- | 65.8706- | 163.7467- | 2- | 12- | 0- | 403136 | 22420 | 796 | 8869 | 68 | 3 | 18.9 | 10.1 | -426 | -1 | | 15.6 | 6368 | 136 | 5.8 | | 0.199 |
| 02- | 65.8639- | 163.7500- | 2- | 12- | 0- | 403137 | -11770 | 4485 | 4750 | -50 | -1 | 13.4 | 5.2 | | -2 | -1 | 8.5 | -2615 | 43 | 4.5 | 220 | 0.329 |
| 02- | 65.8614- | 163.8311- | 2- | 12- | 0- | 403138 | 18110 | 642 | 10080 | 40 | 1 | 16.9 | 8.0 | -370 | -1 | -1 | 13.2 | 6049 | 130 | 4.7 | 197 | 0.242 |
| 02- | 65.8017- | 163.8069- | 2- | 12- | 0- | 403139 | 58360 | 602 | 8897 | -23 | -1 | 11.6 | 5.3 | -336 | -1 | | 6.6 | 4947 | 89 | 3.4 | 118 | 0.439 |
| 02- | 65.7911- | 163.8503- | 2- | 12- | 0- | 403140 | 27310 | 1035 | 5627 | -33 | 3 | 18.4 | 16.3 | -446 | -1 | -1 | 26.7 | 5536 | 117 | 7.3 | -91 | 0.266 |
| 02- | 65.8514- | 163.6861- | 2- | 12- | 0- | 403141 | 24750 | 666 | 8966 | 60 | 1 | 16.5 | 5.1 | -455 | -2 | | 10.2 | 6057 | 131 | 3.7 | | 0.265 |
| 02- | 65.8194- | 163.6467- | 2- | 12- | 0- | 403142 | 33920 | 497 | 5066 | 28 | | 9.9 | 3.4 | -269 | -1 | | 5.2 | 3325 | 88 | 2.1 | 103 | 0.269 |
| 02- | 65.7606- | 163.6017- | 2- | 12- | 0- | 403144 | 31650 | 1115 | 10110 | -31 | -1 | 17.1 | 5.3 | -453 | -2 | -1 | 5.9 | 8469 | 159 | 4.1 | 144 | 0.424 |
| 02- | 65.8119- | 163.5967- | 2- | 12- | 0- | 403145 | 69060 | 532 | 4926 | 33 | 1 | 12.6 | 5.1 | -327 | -1 | | 7.9 | 4281 | 100 | 2.8 | 129 | 0.241 |
| 02- | 65.7928- | 163.4063- | 2- | 12- | 0- | 403146 | 27740 | 908 | 4931 | 69 | 3 | 14.7 | 5.4 | -406 | -1 | | 8.3 | 5207 | 131 | 3.1 | -86 | 0.373 |
| 02- | 65.7881- | 163.3611- | 2- | 12- | 0- | 403147 | 20400 | 1332 | 7995 | 63 | | 18.1 | 12.6 | -448 | -1 | -1 | 19.8 | 5217 | 129 | 5.9 | 171 | 0.333 |
| 02- | 65.8389- | 163.4347- | 2- | 12- | 0- | 403148 | 31220 | 702 | 5321 | 72 | 2 | 12.9 | 4.9 | -323 | -1 | | 7.4 | 3982 | 145 | 2.6 | 147 | 0.257 |
| 02- | 65.8356- | 163.5642- | 2- | 12- | 0- | 403150 | 37080 | 580 | 3662 | 49 | 3 | 12.2 | 3.5 | -324 | -1 | | 6.4 | 3635 | 130 | 2.1 | 158 | 0.219 |
| 02- | 65.9006- | 163.4714- | 2- | 12- | 0- | 403151 | 26920 | 909 | 4195 | -33 | 7 | 12.3 | 4.5 | -439 | 3 | -1 | 6.3 | 4041 | 189 | 3.2 | -108 | 0.540 |
| 02- | 65.8833- | 163.5400- | 2- | 12- | 0- | 403152 | 23860 | 466 | 7033 | 59 | 2 | 11.3 | 4.7 | -265 | -1 | | 8.1 | 4659 | 117 | 3.1 | 159 | 0.247 |
| 02- | 65.8192- | 164.7356- | 2- | 12- | 0- | 403155 | 17200 | 1054 | 9587 | 49 | 1 | 14.0 | 7.6 | -459 | -1 | | 11.5 | 5400 | 119 | 4.1 | 118 | 0.330 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (umho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 65.8058- | 164.6375- | 2- | 12- | | 0-403156- | 08/02/76- | 13- | 16- | 11.2- | - | - | 7.6- | 50- | 26- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 3.30 |
| 02- | 65.2956- | 164.3333- | 2- | 13- | | 0-403164- | 08/02/76- | 15- | 15- | 12.3- | - | - | 7.7- | 50- | 6- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.60 |
| 02- | 65.2931- | 164.2833- | 2- | 13- | | 0-403165- | 08/02/76- | 15- | 15- | 14.7- | - | - | 7.6- | 38- | 6- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 1.10 |
| 02- | 65.2222- | 164.1847- | 2- | 13- | | 0-403166- | 08/02/76- | 15- | 15- | 12.1- | - | - | 6.9- | 60- | 0- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 4.30 |
| 02- | 65.2061- | 164.2683- | 2- | 13- | | 0-403167- | 08/02/76- | 15- | 15- | 13.7- | - | - | 7.8- | 25- | 26- | 2- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 1- | 2- | -1- | - | - | - | - | 6.30 |
| 02- | 65.2528- | 164.1708- | 2- | 12- | | 0-403169- | 08/02/76- | 15- | 15- | 13.3- | - | - | 7.0- | 25- | 39- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | -2- | -1- | - | - | - | - | - | 4.60 |
| 02- | 65.3414- | 164.0139- | 2- | 12- | | 0-403171- | 08/02/76- | 15- | 15- | 12.7- | - | - | 8.1- | 50- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 5.30 |
| 02- | 65.3261- | 163.9339- | 2- | 12- | | 0-403172- | 08/02/76- | 15- | 16- | 13.0- | - | - | 7.1- | 20- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 4.20 |
| 02- | 65.3258- | 163.8667- | 2- | 12- | | 0-403173- | 08/02/76- | 15- | 15- | 10.8- | - | - | 6.8- | 30- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 11.00 |
| 02- | 65.2928- | 163.8572- | 2- | 12- | | 0-403174- | 08/02/76- | 15- | 15- | 11.3- | - | - | 7.1- | 10- | 63- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 13.10 |
| 02- | 65.2772- | 163.7542- | 2- | 12- | | 0-403175- | 08/02/76- | 16- | 15- | 11.8- | - | - | 7.3- | 50- | 59- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | -2- | -1- | - | - | - | - | - | 13.00 |
| 02- | 65.2333- | 163.7500- | 2- | 12- | | 0-403176- | 08/02/76- | 16- | 16- | 10.5- | - | - | 6.6- | 50- | 53- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 7.90 |
| 02- | 65.3194- | 163.4306- | 2- | 12- | | 0-403201- | 08/02/76- | 17- | 16- | 11.7- | - | - | 7.5- | 60- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | -2- | -1- | - | - | - | - | - | 6.00 |
| 02- | 65.3108- | 163.7056- | 2- | 12- | | 0-403204- | 08/02/76- | 18- | 14- | 10.2- | - | - | 7.1- | 90- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 4.90 |
| 02- | 65.3358- | 163.6081- | 2- | 12- | | 0-403205- | 08/02/76- | 18- | 14- | 10.9- | - | - | 7.3- | 50- | 36- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 15.30 |
| 02- | 65.3744- | 163.4417- | 2- | 12- | | 0-403206- | 08/02/76- | 19- | 14- | 12.7- | - | - | 7.4- | 10- | 6- | 3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 8.30 |
| 02- | 65.3239- | 163.2514- | 2- | 12- | | 0-403210- | 08/02/76- | 19- | 13- | 11.6- | - | - | 7.3- | 36- | 36- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 9.50 |
| 02- | 65.3772- | 163.0728- | 2- | 12- | | 0-403229- | 08/02/76- | 21- | 15- | 11.3- | - | - | 7.9- | 40- | 19- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 11.60 |
| 02- | 65.4125- | 163.0050- | 2- | 12- | | 0-403230- | 08/02/76- | 21- | 14- | 10.5- | - | - | 7.1- | 30- | 0- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 9.40 |
| 02- | 65.4100- | 162.8733- | 2- | 13- | | 0-403231- | 08/02/76- | 21- | 15- | 13.2- | - | - | 7.7- | 20- | -3- | 7- | 4- | 6- | - | - | - | - | 4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 1.00 |
| 02- | 65.3750- | 162.9236- | 2- | 12- | | 0-403264- | 08/04/76- | 9- | 10- | - | - | - | - | - | 29- | 3- | 7- | 4- | 6- | 3- | 3- | 1- | -4- | 3- | 3- | 3- | -1- | - | - | - | - | - | 3.80 |
| 02- | 65.3375- | 162.9431- | 2- | 12- | | 0-403265- | 08/04/76- | 9- | 10- | 7.0- | - | - | 7.4- | 10- | 53- | 3- | 7- | 4- | 6- | 3- | 2- | 1- | 2- | 5- | 3- | 4- | 3- | -1- | - | - | - | - | 6.00 |
| 02- | 65.6444- | 162.9653- | 2- | 13- | | 0-406547- | 08/28/76- | 19- | 12- | 14.9- | - | -S- | 9.1- | 14- | -2- | 7- | 6- | 7- | -3- | 5- | -4- | 4- | 3- | 2- | -1- | - | - | - | - | - | - | - | 2.30 |
| 02- | 65.6833- | 162.9228- | 2- | 13- | | 0-406549- | 08/28/76- | 19- | 11- | 13.9- | - | -S- | 9.3- | 44- | -2- | 7- | 5- | 8- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 0.30 |
| 02- | 65.7692- | 163.1486- | 2- | 12- | | 0-406558- | 08/28/76- | 19- | 12- | 10.7- | - | - | 7.7- | 224- | 25- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 3- | 2- | -1- | - | - | - | - | - | 4.00 |
| 02- | 65.7639- | 163.1250- | 2- | 12- | | 0-406559- | 08/28/76- | 17- | 12- | 11.1- | - | - | 8.2- | 191- | 9- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 3- | 2- | -1- | - | - | - | - | - | 2.80 |
| 02- | 65.6667- | 163.0900- | 2- | 12- | | 0-406561- | 08/28/76- | 19- | 12- | 10.0- | - | - | 8.2- | 190- | 12- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | - | 3.10 |
| 02- | 65.6819- | 163.0350- | 2- | 12- | | 0-406562- | 08/28/76- | 19- | 12- | 10.7- | - | - | 8.2- | 121- | 19- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | - | 4.10 |
| 02- | 65.6375- | 163.0567- | 2- | 12- | | 0-406563- | 08/29/76- | 10- | 15- | 9.7- | - | - | 7.4- | 60- | 12- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | - | 5.60 |
| 02- | 65.6300- | 163.0400- | 2- | 12- | | 0-406564- | 08/29/76- | 10- | 15- | 10.2- | - | - | 7.8- | 74- | 6- | 2- | 7- | 6- | 6- | 2- | 2- | 5- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 4.50 |
| 02- | 65.6011- | 162.9642- | 2- | 12- | | 0-406565- | 08/29/76- | 10- | 15- | 10.0- | - | - | 7.9- | 60- | 6- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | - | 2.10 |
| 02- | 65.5772- | 162.9267- | 2- | 12- | | 0-406566- | 08/29/76- | 10- | 15- | 10.4- | - | - | 7.7- | 111- | 6- | 2- | 7- | 6- | 6- | 2- | 2- | 2- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | - | 1.70 |
| 02- | 65.5594- | 163.0017- | 2- | 12- | | 0-406567- | 08/29/76- | 10- | 15- | 9.7- | - | - | 7.4- | 54- | 45- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | - | 3.60 |
| 02- | 65.5389- | 162.9633- | 2- | 12- | | 0-406568- | 08/29/76- | 10- | 15- | 10.2- | - | - | 8.0- | 62- | 19- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | - | 1.80 |
| 02- | 65.5142- | 162.9761- | 2- | 13- | | 0-406569- | 08/29/76- | 10- | 15- | 12.0- | - | -S- | 8.3- | 13- | -2- | 7- | 5- | 6- | -2- | 4- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.10 |
| 02- | 65.5089- | 163.0139- | 2- | 13- | | 0-406570- | 08/29/76- | 10- | 15- | 12.2- | - | -S- | 7.9- | 24- | -2- | 7- | 6- | 6- | -2- | 4- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.40 |
| 02- | 65.5092- | 163.0406- | 2- | 13- | | 0-406571- | 08/29/76- | 10- | 15- | 12.4- | - | -S- | 8.2- | 12- | -2- | 7- | 5- | 6- | -2- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.20 |
| 02- | 65.4958- | 163.1097- | 2- | 13- | | 0-406572- | 08/29/76- | 10- | 15- | - | - | -S- | 7.9- | 27- | -2- | 7- | 5- | 6- | - | - | - | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 2.80 |
| 02- | 65.4842- | 163.2067- | 2- | 13- | | 0-406573- | 08/29/76- | 11- | 15- | 13.4- | - | -S- | 8.0- | 52- | -2- | 7- | 5- | 6- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.20 |
| 02- | 65.4533- | 163.1633- | 2- | 13- | | 0-406574- | 08/29/76- | 11- | 15- | 13.7- | - | -S- | 8.1- | 74- | -2- | 7- | 6- | 6- | -3- | 2- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.60 |
| 02- | 65.4667- | 163.0467- | 2- | 13- | | 0-406575- | 08/29/76- | 11- | 15- | 12.9- | - | -S- | 7.7- | 42- | -2- | 7- | 6- | 6- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 2.70 |
| 02- | 65.4767- | 163.0603- | 2- | 13- | | 0-406576- | 08/29/76- | 11- | 15- | 13.8- | - | -S- | 8.2- | 88- | -2- | 7- | 5- | 6- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 2.70 |
| 02- | 65.4403- | 162.9767- | 2- | 13- | | 0-406577- | 08/29/76- | 11- | 15- | 12.1- | - | -S- | 8.2- | 46- | -2- | 7- | 6- | 6- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.70 |
| 02- | 65.4425- | 162.9583- | 2- | 13- | | 0-406578- | 08/29/76- | 11- | 15- | 12.4- | - | -S- | 8.0- | 64- | -2- | 7- | 6- | 6- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | - | 3.30 |

## APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 65.8056- | 164.6375- | 2- | 12- | | 0-403156 | -5 | -5 | -5 | 40 | -20 | 23 | -5 | -10 | -15 | 2 | 40 |
| 02- | 65.2956- | 164.3333- | 2- | 13- | | 0-403164 | -5 | -5 | -5 | 19 | 30 | -15 | -5 | -10 | -15 | -1 | 4 |
| 02- | 65.2931- | 164.2833- | 2- | 13- | | 0-403165 | | | | | | | | | | -1 | 4 |
| 02- | 65.2222- | 164.1847- | 2- | 13- | | 0-403166 | -5 | -5 | -5 | 27 | -20 | -15 | -5 | -10 | -15 | 1 | 7 |
| 02- | 65.2061- | 164.2683- | 2- | 13- | | 0-403167 | -5 | -5 | 5 | 36 | -20 | 24 | 8 | -10 | -15 | 3 | 41 |
| 02- | 65.2528- | 164.1708- | 2- | 12- | | 0-403169 | -5 | -5 | -5 | 24 | -20 | 32 | -5 | -10 | -15 | 2 | 28 |
| 02- | 65.3414- | 164.0139- | 2- | 12- | | 0-403171 | -5 | -5 | -5 | 33 | 20 | 39 | 6 | -10 | -15 | 2 | 24 |
| 02- | 65.3261- | 163.9339- | 2- | 12- | | 0-403172 | -5 | -5 | -5 | 22 | 25 | 27 | -5 | -10 | -15 | 2 | 22 |
| 02- | 65.3258- | 163.8667- | 2- | 12- | | 0-403173 | -5 | 6 | 6 | 50 | -20 | 36 | 5 | -10 | -15 | 3 | 32 |
| 02- | 65.2928- | 163.8572- | 2- | 12- | | 0-403174 | -5 | -5 | 10 | 51 | -20 | 46 | 8 | -10 | -15 | 3 | 39 |
| 02- | 65.2772- | 163.7542- | 2- | 12- | | 0-403175 | -5 | -5 | 9 | 89 | -20 | 151 | 8 | -10 | -15 | 4 | 39 |
| 02- | 65.2333- | 163.7500- | 2- | 12- | | 0-403176 | -5 | 5 | -5 | 52 | -20 | 49 | 9 | -10 | -15 | 3 | 51 |
| 02- | 65.3194- | 163.4306- | 2- | 12- | | 0-403201 | | | | | | | | | | | |
| 02- | 65.3108- | 163.7056- | 2- | 12- | | 0-403204 | -5 | -5 | -5 | 22 | -20 | 27 | 9 | -10 | -15 | 3 | 67 |
| 02- | 65.3358- | 163.6081- | 2- | 12- | | 0-403205 | -5 | -5 | 10 | 70 | -20 | 120 | 5 | -10 | -15 | 3 | 15 |
| 02- | 65.3744- | 163.4417- | 2- | 12- | | 0-403206 | -5 | -5 | -5 | 32 | -20 | 48 | 20 | -10 | -15 | 2 | 26 |
| 02- | 65.3239- | 163.2514- | 2- | 12- | | 0-403210 | -5 | -5 | 5 | 16 | -20 | -15 | -5 | -10 | -15 | 3 | 43 |
| 02- | 65.3772- | 163.0728- | 2- | 12- | | 0-403229 | | | | | | | | | | 2 | 51 |
| 02- | 65.4125- | 163.0050- | 2- | 12- | | 0-403230 | | | | | | | | | | 2 | 48 |
| 02- | 65.4100- | 162.8733- | 2- | 13- | | 0-403231 | | | | | | | | | | -1 | 4 |
| 02- | 65.3750- | 162.9236- | 2- | 12- | | 0-403264 | | | | | | | | | | 3 | 26 |
| 02- | 65.3375- | 162.9431- | 2- | 12- | | 0-403265 | -5 | -5 | -5 | 16 | -20 | -15 | 10 | -10 | -15 | 2 | 30 |
| 02- | 65.6444- | 162.9653- | 2- | 13- | | 0-406547 | -5 | -5 | -5 | 32 | -20 | 31 | 6 | -10 | -15 | -1 | 4 |
| 02- | 65.6833- | 162.9228- | 2- | 13- | | 0-406549 | | | | | | | | | | -1 | 2 |
| 02- | 65.7092- | 163.1486- | 2- | 12- | | 0-406558 | -5 | -5 | -5 | 19 | -20 | 41 | -5 | -10 | -15 | 2 | 26 |
| 02- | 65.7639- | 163.1250- | 2- | 12- | | 0-406559 | -5 | -5 | -5 | 26 | -20 | -15 | -5 | -10 | -15 | 1 | 25 |
| 02- | 65.6667- | 163.0900- | 2- | 12- | | 0-406561 | -5 | -5 | -5 | 32 | -20 | 17 | -5 | -10 | -15 | 1 | 21 |
| 02- | 65.6819- | 163.0350- | 2- | 12- | | 0-406562 | -5 | -5 | -5 | 19 | -20 | 26 | 5 | -10 | -15 | 2 | 39 |
| 02- | 65.6375- | 163.0567- | 2- | 12- | | 0-406563 | -5 | -5 | -5 | 28 | -20 | 17 | 7 | -10 | -15 | 2 | 43 |
| 02- | 65.6300- | 163.0400- | 2- | 12- | | 0-406564 | -5 | -5 | -5 | 32 | -20 | 21 | 12 | -10 | -15 | 2 | 34 |
| 02- | 65.6011- | 162.9642- | 2- | 12- | | 0-406565 | -5 | -5 | -5 | 26 | -20 | 62 | -5 | -10 | -15 | -1 | 8 |
| 02- | 65.5772- | 162.9267- | 2- | 12- | | 0-406566 | -5 | -5 | -5 | 39 | -20 | 72 | 5 | -10 | -15 | -1 | 4 |
| 02- | 65.5594- | 163.0017- | 2- | 12- | | 0-406567 | -5 | -5 | -5 | 28 | -20 | 20 | 7 | -10 | -15 | 1 | 30 |
| 02- | 65.5369- | 162.9633- | 2- | 12- | | 0-406568 | -5 | -5 | -5 | 32 | 22 | 69 | -5 | -10 | -15 | -1 | 9 |
| 02- | 65.5142- | 162.9761- | 2- | 13- | | 0-406569 | -5 | -5 | -5 | 26 | -20 | 51 | -5 | -10 | -15 | 2 | 19 |
| 02- | 65.5089- | 163.0139- | 2- | 13- | | 0-406570 | -5 | -5 | -5 | 25 | -20 | 48 | 6 | -10 | -15 | 2 | 21 |
| 02- | 65.5092- | 163.0408- | 2- | 13- | | 0-406571 | -5 | 5 | -5 | 28 | -20 | 37 | -5 | -10 | -15 | 2 | 18 |
| 02- | 65.4958- | 163.1097- | 2- | 13- | | 0-406572 | -5 | -5 | -5 | 14 | -20 | -15 | 5 | -10 | -15 | 2 | 24 |
| 02- | 65.4842- | 163.2067- | 2- | 13- | | 0-406573 | -5 | -5 | -5 | 23 | -20 | 33 | 9 | -10 | -15 | 2 | 22 |
| 02- | 65.4533- | 163.1833- | 2- | 13- | | 0-406574 | -5 | -5 | -5 | 18 | -20 | 19 | -5 | -10 | -15 | 2 | 32 |
| 02- | 65.4667- | 163.0467- | 2- | 13- | | 0-406575 | -5 | -5 | 7 | 47 | -20 | 96 | -5 | -10 | -15 | 2 | 17 |
| 02- | 65.4767- | 163.0603- | 2- | 13- | | 0-406576 | -5 | -5 | -5 | 34 | -20 | 84 | -5 | -10 | -15 | 2 | 17 |
| 02- | 65.4403- | 162.9767- | 2- | 13- | | 0-406577 | -5 | -5 | -5 | 25 | -20 | 31 | 5 | -10 | -15 | 3 | 34 |
| 02- | 65.4425- | 162.9583- | 2- | 13- | | 0-406578 | -5 | -5 | 6 | 20 | -20 | -15 | 10 | -10 | -15 | 2 | 29 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | |
| | | | | | | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 65.8058- | 164.6375- | 2- | 12- | | 0-403156 | 71670 | -0.06 | 922 | 6196 | 80 | -109 | 26.4 | 100 | 6.3 | 5 | 1.5 | 34880 | 6.9 | 12980 | 38 | 0.5 |
| 02- | 65.2956- | 164.3333- | 2- | 13- | | 0-403164 | 21940 | -0.19 | -488 | -3084 | -30 | 502 | 31.0 | -51 | -6.7 | -3 | -1.5 | 27640 | -5.4 | -5665 | -29 | -0.5 |
| 02- | 65.2931- | 164.2833- | 2- | 13- | | 0-403165 | 21240 | -0.21 | -560 | -2436 | -37 | 751 | 29.0 | -52 | -6.6 | -4 | -1.7 | 35900 | -5.7 | -8641 | -29 | -0.6 |
| 02- | 65.2222- | 164.1847- | 2- | 13- | | 0-403166 | 60920 | -0.08 | 995 | 13220 | 64 | 186 | 19.8 | 60 | 5.9 | 5 | 1.4 | 23420 | 3.9 | 8996 | 33 | 0.5 |
| 02- | 65.2061- | 164.2683- | 2- | 13- | | 0-403167 | 77100 | -0.06 | 1076 | 15670 | 89 | -85 | 16.0 | 90 | 5.9 | 7 | 1.7 | 29970 | 5.5 | 11750 | 39 | 0.6 |
| 02- | 65.2528- | 164.1708- | 2- | 12- | | 0-403169 | 74040 | -0.07 | 849 | 11150 | 149 | -88 | 19.0 | 94 | 4.2 | 8 | 1.9 | 35640 | 9.6 | 12390 | 68 | 0.7 |
| 02- | 65.3414- | 164.0139- | 2- | 12- | | 0-403171 | 64000 | -0.07 | 1471 | 11110 | 76 | -93 | 19.5 | 59 | 4.7 | 5 | 1.4 | 28970 | 6.2 | 9602 | 40 | 0.4 |
| 02- | 65.3261- | 163.9339- | 2- | 12- | | 0-403172 | 50940 | -0.04 | 1897 | 11000 | 61 | 79 | 15.7 | 61 | 3.8 | 5 | 1.4 | 23390 | 5.9 | 8505 | 36 | 0.5 |
| 02- | 65.3258- | 163.8667- | 2- | 12- | | 0-403173 | 63550 | -0.05 | 2195 | 9516 | 78 | -95 | 14.9 | 60 | 7.0 | 6 | 1.5 | 24570 | 5.3 | 12550 | 45 | 0.5 |
| 02- | 65.2928- | 163.8572- | 2- | 12- | | 0-403174 | 63920 | -0.07 | 2059 | 14300 | 205 | -107 | 25.8 | 91 | 7.4 | 10 | 2.6 | 33360 | 6.7 | 14700 | 88 | 1.1 |
| 02- | 65.2772- | 163.7542- | 2- | 12- | | 0-403175 | 78120 | -0.08 | 1517 | 15010 | 140 | -117 | 58.4 | 59 | 7.2 | 10 | 2.2 | 35470 | 5.8 | 16200 | 73 | 0.9 |
| 02- | 65.2333- | 163.7500- | 2- | 12- | | 0-403176 | 80590 | -0.05 | 1282 | 19130 | 105 | -85 | 19.1 | 92 | 10.6 | 6 | 1.9 | 33610 | 5.9 | 17050 | 53 | 0.6 |
| 02- | 65.3194- | 163.4306- | 2- | 12- | | 0-403201 | 75270 | -0.46 | 2152 | 57800 | -68 | -398 | 46.5 | -114 | -15.6 | -9 | -3.3 | 112500 | -12.0 | -15560 | -65 | -1.2 |
| 02- | 65.3108- | 163.7056- | 2- | 12- | | 0-403204 | 53290 | -0.05 | 509 | 89660 | 40 | -115 | 10.0 | 45 | 5.9 | 4 | 1.1 | 17750 | 3.5 | 12030 | 27 | 0.4 |
| 02- | 65.3358- | 163.6081- | 2- | 12- | | 0-403205 | 59490 | -0.06 | 3545 | 15050 | 78 | 130 | 21.6 | 51 | 8.9 | 6 | 1.8 | 27580 | 3.8 | 14590 | 30 | 0.4 |
| 02- | 65.3744- | 163.4417- | 2- | 12- | | 0-403206 | 59740 | -0.04 | 1502 | 42230 | 77 | -82 | 12.7 | 41 | 5.3 | 7 | 1.3 | 20300 | 3.9 | 14160 | 40 | 0.5 |
| 02- | 65.3239- | 163.2514- | 2- | 12- | | 0-403210 | 71880 | -0.05 | 830 | 55040 | 228 | -133 | 11.2 | 42 | 5.5 | 7 | 2.6 | 30640 | 10.7 | 20260 | 107 | 0.7 |
| 02- | 65.3772- | 163.0728- | 2- | 12- | | 0-403229 | 89420 | -0.11 | -376 | 32820 | 152 | -219 | 17.8 | 66 | 4.8 | 7 | 2.1 | 24670 | 9.0 | 12410 | 82 | 0.4 |
| 02- | 65.4125- | 163.0050- | 2- | 12- | | 0-403230 | 96080 | -0.08 | 1036 | 30410 | 175 | -191 | 18.9 | -20 | 4.3 | 6 | 2.7 | 27880 | 9.2 | 20450 | 83 | 0.6 |
| 02- | 65.4100- | 162.8733- | 2- | 13- | | 0-403231 | 27100 | | -456 | -3314 | | 574 | | | | -4 | | | | -5332 | | |
| 02- | 65.3750- | 162.9236- | 2- | 12- | | 0-403264 | 102600 | -0.13 | 1545 | 22010 | 171 | -260 | 19.3 | -34 | -4.4 | 5 | 3.1 | 22930 | 9.3 | 23000 | 81 | -0.4 |
| 02- | 65.3375- | 162.9431- | 2- | 12- | | 0-403265 | 84350 | -0.05 | 794 | 26190 | 165 | -134 | 7.4 | 39 | 4.0 | 5 | 1.8 | 19460 | 8.4 | 17280 | 100 | 0.4 |
| 02- | 65.6444- | 162.9653- | 2- | 13- | | 0-406547 | 55670 | -0.10 | 570 | 17730 | 72 | 244 | 25.8 | 114 | -3.7 | 6 | 1.8 | 31580 | 4.4 | 11270 | 31 | 0.5 |
| 02- | 65.6833- | 162.9228- | 2- | 13- | | 0-406549 | 9491 | -0.21 | -503 | 16510 | -31 | 408 | 27.6 | -52 | -7.0 | -4 | -1.5 | 63900 | -5.5 | -4688 | -29 | -0.5 |
| 02- | 65.7692- | 163.1486- | 2- | 12- | | 0-406558 | 75860 | -0.06 | 847 | 16840 | 140 | -93 | 21.7 | 134 | 6.4 | 7 | 2.0 | 37320 | 10.4 | 13860 | 61 | 0.6 |
| 02- | 65.7639- | 163.1250- | 2- | 12- | | 0-406559 | 68970 | -0.09 | 589 | 8932 | 72 | -119 | 15.0 | 108 | 4.1 | 6 | 2.0 | 33020 | 7.6 | 12020 | 38 | 0.6 |
| 02- | 65.6667- | 163.0900- | 2- | 12- | | 0-406561 | 73000 | -0.06 | 848 | 8090 | 94 | 135 | 17.2 | 112 | 5.0 | 7 | 1.8 | 33980 | 7.5 | 13500 | 44 | 0.6 |
| 02- | 65.6819- | 163.0350- | 2- | 12- | | 0-406562 | 80220 | -0.06 | 851 | 11010 | 113 | -98 | 15.0 | 81 | 6.2 | 6 | 1.6 | 34430 | 5.9 | 12320 | 61 | 0.5 |
| 02- | 65.6375- | 163.0567- | 2- | 12- | | 0-406563 | 83260 | -0.07 | 1060 | 18600 | 222 | -118 | 19.6 | 125 | 6.9 | 8 | 2.6 | 40270 | 12.3 | 16010 | 107 | 0.7 |
| 02- | 65.6300- | 163.0400- | 2- | 12- | | 0-406564 | 77130 | -0.08 | 862 | 11710 | 130 | -118 | 17.4 | 106 | 5.0 | 5 | 1.8 | 35600 | 7.5 | 16690 | 60 | 0.5 |
| 02- | 65.6011- | 162.9642- | 2- | 12- | | 0-406565 | 71500 | -0.08 | 643 | 8410 | 75 | 190 | 31.4 | 181 | -3.1 | 5 | 1.4 | 35460 | 4.1 | 10600 | 40 | 0.4 |
| 02- | 65.5772- | 162.9267- | 2- | 12- | | 0-406566 | 54330 | -0.12 | 501 | 9413 | 43 | -126 | 23.4 | 101 | -4.3 | 5 | 1.3 | 29780 | -2.8 | -5761 | | -0.3 |
| 02- | 65.5594- | 163.0017- | 2- | 12- | | 0-406567 | 74180 | -0.06 | 686 | 9166 | 93 | -101 | 20.9 | 105 | 6.6 | 5 | 1.8 | 34710 | 8.0 | 13560 | 43 | 0.6 |
| 02- | 65.5389- | 162.9633- | 2- | 12- | | 0-406568 | 60740 | -0.12 | 497 | -1494 | 52 | 419 | 24.4 | 114 | -4.3 | 5 | 2.1 | 32100 | -3.3 | 11050 | 37 | -0.3 |
| 02- | 65.5142- | 162.9761- | 2- | 13- | | 0-406569 | 82800 | -0.07 | 787 | 14700 | 99 | 164 | 24.2 | 150 | 4.6 | 7 | 1.9 | 33370 | 7.3 | 11500 | 48 | 0.6 |
| 02- | 65.5089- | 163.0139- | 2- | 13- | | 0-406570 | 81120 | -0.08 | 748 | 12510 | 69 | -119 | 20.4 | 130 | 4.1 | 7 | 1.7 | 32880 | 6.4 | 10260 | 46 | 0.5 |
| 02- | 65.5092- | 163.0408- | 2- | 13- | | 0-406571 | 82420 | -0.09 | 797 | 13060 | 121 | 147 | 26.6 | 147 | 5.0 | 7 | 2.2 | 38630 | 8.4 | 12210 | 50 | 0.7 |
| 02- | 65.4958- | 163.1097- | 2- | 13- | | 0-406572 | 79620 | -0.06 | 676 | 17290 | 58 | 159 | 10.4 | 84 | 2.5 | 4 | 1.6 | 25220 | 5.6 | 15240 | 32 | 0.4 |
| 02- | 65.4842- | 163.2067- | 2- | 13- | | 0-406573 | 76600 | -0.06 | 790 | 10200 | 87 | -97 | 19.1 | 104 | 3.9 | 6 | 1.6 | 32310 | 7.3 | 11900 | 44 | 0.5 |
| 02- | 65.4533- | 163.1833- | 2- | 13- | | 0-406574 | 69170 | -0.05 | 662 | 8039 | 91 | -89 | 14.9 | 88 | 4.0 | 8 | 1.5 | 29320 | 7.7 | 12920 | 46 | 0.7 |
| 02- | 65.4667- | 163.0467- | 2- | 13- | | 0-406575 | 84280 | -0.07 | 630 | 12690 | 130 | -131 | 56.9 | 342 | -2.9 | 6 | 2.2 | 64330 | 8.3 | 7853 | 50 | 0.5 |
| 02- | 65.4767- | 163.0603- | 2- | 13- | | 0-406576 | 80160 | -0.08 | 679 | 13720 | 59 | -131 | 41.7 | 243 | -3.1 | 4 | 1.8 | 50060 | 5.6 | 9245 | 43 | 0.4 |
| 02- | 65.4403- | 162.9767- | 2- | 13- | | 0-406577 | 75600 | -0.05 | 684 | 9420 | 87 | -105 | 25.5 | 115 | 7.3 | 5 | 1.7 | 37360 | 7.0 | 13500 | 42 | 0.5 |
| 02- | 65.4425- | 162.9583- | 2- | 13- | | 0-406578 | 76610 | -0.06 | 707 | 17210 | 87 | 200 | 10.4 | 98 | -2.1 | 6 | 1.6 | 26360 | 7.1 | 13490 | 39 | 0.4 |

# APPENDIX I-B (continued). Elemental Concentrations for Sediment Samples-Chukchi Imuruk

(4)

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 65.8058- | 164.6375- | 2- | 12- | | 0-403156 | 21880 | 1816 | 7367 | -34 | 2 | 14.5 | 6.2 | -554 | -1 | -1 | 10.8 | 5616 | 151 | 3.6 | -124 | 0.306 |
| 02- | 65.2956- | 164.3333- | 2- | 13- | | 0-403164 | -7000 | 337 | 2911 | -116 | -5 | 8.1 | 2.4 | -723 | -5 | -3 | -6.2 | -1862 | 45 | -5.6 | 335 | |
| 02- | 65.2931- | 164.2833- | 2- | 13- | | 0-403165 | -9021 | 908 | 3513 | -118 | -5 | 7.3 | -1.7 | | -5 | -4 | -6.5 | -2476 | 46 | -6.0 | | |
| 02- | 65.2222- | 164.1847- | 2- | 13- | | 0-403166 | 17990 | 525 | 5992 | -39 | -2 | 12.3 | 6.4 | -432 | -1 | | 11.8 | 5444 | 114 | 4.0 | -107 | 0.364 |
| 02- | 65.2061- | 164.2683- | 2- | 13- | | 0-403167 | 27770 | 659 | 8078 | -32 | -1 | 14.9 | 8.6 | -357 | -1 | | 12.9 | 5790 | 154 | 4.9 | | 0.488 |
| 02- | 65.2528- | 164.1708- | 2- | 12- | | 0-403169 | 23290 | 468 | 7511 | -35 | -2 | 18.6 | 12.0 | -350 | -1 | | 19.6 | 6888 | 127 | 6.5 | | 0.235 |
| 02- | 65.3414- | 164.0139- | 2- | 12- | | 0-403171 | 17800 | 608 | 6862 | -40 | -2 | 13.6 | 4.7 | -411 | -1 | -1 | 9.3 | 4677 | 179 | 4.9 | 203 | 0.570 |
| 02- | 65.3261- | 163.9339- | 2- | 12- | | 0-403172 | 14590 | 632 | 8146 | -22 | -1 | 9.2 | 6.0 | -312 | -1 | | 8.6 | 3957 | 131 | 3.8 | 109 | 0.488 |
| 02- | 65.3258- | 163.8667- | 2- | 12- | | 0-403173 | 19670 | 1157 | 7739 | -30 | -1 | 11.1 | 8.1 | -440 | -1 | -1 | 12.9 | 4307 | 204 | 4.1 | 190 | 0.853 |
| 02- | 65.2928- | 163.8572- | 2- | 12- | | 0-403174 | 20430 | 1066 | 8366 | -38 | -2 | 14.4 | 19.3 | -507 | -2 | -1 | 33.4 | 4173 | 179 | 9.6 | 231 | 0.392 |
| 02- | 65.2772- | 163.7542- | 2- | 12- | | 0-403175 | 31470 | 1267 | 8810 | -46 | -2 | 14.5 | 13.5 | -556 | -1 | -1 | 21.3 | 4424 | 188 | 5.4 | 396 | 0.610 |
| 02- | 65.2333- | 163.7500- | 2- | 12- | | 0-403176 | 30980 | 593 | 11850 | 73 | -1 | 15.5 | 9.1 | -320 | -1 | -1 | 17.8 | 6013 | 161 | 5.2 | 180 | 0.444 |
| 02- | 65.3194- | 163.4306- | 2- | 12- | | 0-403201 | 48820 | 986 | 10850 | -275 | -12 | -13.0 | -3.0 | | -124 | -8 | -13.9 | -4478 | 181 | -12.9 | -4805 | |
| 02- | 65.3108- | 163.7056- | 2- | 12- | | 0-403204 | 54050 | 1151 | 9566 | -30 | -1 | 8.8 | 3.7 | -494 | -1 | | 5.5 | 3931 | 79 | 2.9 | -59 | 0.891 |
| 02- | 65.3358- | 163.6081- | 2- | 12- | | 0-403205 | 22360 | 600 | 6761 | 68 | -1 | 10.1 | 7.4 | -382 | -1 | | 10.9 | 3437 | 221 | 3.7 | 264 | 1.404 |
| 02- | 65.3744- | 163.4417- | 2- | 12- | | 0-403206 | 36180 | 881 | 9400 | 54 | -1 | 10.4 | 8.2 | -338 | | 1 | 12.6 | 4015 | 143 | 3.9 | -81 | 0.659 |
| 02- | 65.3239- | 163.2514- | 2- | 12- | | 0-403210 | 48760 | 899 | 20460 | -30 | -1 | 8.8 | 18.2 | 879 | -1 | | 39.0 | 4671 | 73 | 6.0 | | 0.244 |
| 02- | 65.3772- | 163.0728- | 2- | 12- | | 0-403229 | 16130 | 1078 | 25620 | -62 | -3 | 10.5 | 8.7 | -793 | -2 | -2 | 28.5 | 4221 | 81 | 4.0 | | 0.407 |
| 02- | 65.4125- | 163.0050- | 2- | 12- | | 0-403230 | 16990 | 973 | 28920 | 76 | -2 | 9.0 | 14.3 | 1010 | -1 | | 30.4 | 5134 | 73 | -1.9 | -133 | 0.309 |
| 02- | 65.4100- | 162.8733- | 2- | 13- | | 0-403231 | -7031 | 273 | 4592 | | | | | | | | | -1677 | 46 | | | |
| 02- | 65.3750- | 162.9236- | 2- | 12- | | 0-403264 | -11320 | 603 | 34820 | -77 | -3 | 7.3 | 9.8 | -834 | -3 | -2 | 27.7 | 3610 | 33 | -3.7 | 306 | 0.137 |
| 02- | 65.3375- | 162.9431- | 2- | 12- | | 0-403265 | 10890 | 661 | 27850 | 58 | -1 | 7.4 | 12.0 | 809 | -1 | -1 | 29.3 | 4294 | 54 | 5.6 | | 0.205 |
| 02- | 65.6444- | 162.9653- | 2- | 13- | | 0-406547 | 14760 | 651 | 6719 | -54 | -2 | 17.0 | 5.6 | -556 | -3 | -1 | 12.1 | 6811 | 118 | -2.7 | 310 | 0.190 |
| 02- | 65.6833- | 162.9228- | 2- | 13- | | 0-406549 | -6367 | 149 | 1344 | -128 | -5 | -0.6 | -1.4 | -627 | -7 | -3 | -6.4 | -1678 | -11 | -5.9 | -222 | |
| 02- | 65.7692- | 163.1486- | 2- | 12- | | 0-406558 | 23460 | 741 | 9746 | 62 | 2 | 17.4 | 10.9 | -374 | -1 | | 17.7 | 7342 | 149 | 6.2 | | 0.226 |
| 02- | 65.7639- | 163.1250- | 2- | 12- | | 0-406559 | 13980 | 348 | 10980 | -53 | -2 | 14.5 | 5.6 | -432 | -3 | -1 | 10.0 | 5519 | 125 | 3.8 | | 0.280 |
| 02- | 65.6667- | 163.0900- | 2- | 12- | | 0-406561 | 16900 | 347 | 11500 | -32 | -1 | 15.6 | 6.8 | -332 | -1 | -1 | 11.7 | 6870 | 134 | 4.9 | -85 | 0.265 |
| 02- | 65.6819- | 163.0350- | 2- | 12- | | 0-406562 | 18820 | 580 | 12530 | 53 | -1 | 14.6 | 6.6 | -360 | -1 | -1 | 15.3 | 5780 | 143 | 4.7 | 147 | 0.268 |
| 02- | 65.6375- | 163.0567- | 2- | 12- | | 0-406563 | 20910 | 620 | 15630 | 70 | -2 | 17.5 | 13.5 | -422 | -1 | -1 | 26.5 | 8043 | 134 | 6.2 | 153 | 0.211 |
| 02- | 65.6300- | 163.0400- | 2- | 12- | | 0-406564 | 18290 | 566 | 13230 | -44 | -2 | 15.0 | 6.9 | -440 | -1 | -1 | 15.2 | 6051 | 146 | 4.1 | | 0.296 |
| 02- | 65.6011- | 162.9642- | 2- | 12- | | 0-406565 | 15100 | 681 | 8880 | -46 | -2 | 17.0 | 4.9 | -507 | -2 | -1 | 9.6 | 7460 | 135 | 3.2 | 221 | 0.219 |
| 02- | 65.5772- | 162.9267- | 2- | 12- | | 0-406566 | 13410 | 695 | 6489 | -68 | -3 | 12.7 | -0.8 | -583 | -4 | -2 | 5.0 | 5414 | 103 | -3.3 | -225 | 0.340 |
| 02- | 65.5594- | 163.0017- | 2- | 12- | | 0-406567 | 20930 | 516 | 14420 | 54 | 1 | 16.1 | 7.4 | -352 | -1 | | 14.2 | 6059 | 120 | 4.5 | 159 | 0.268 |
| 02- | 65.5389- | 162.9633- | 2- | 12- | | 0-406568 | 16660 | 601 | 8023 | -69 | -3 | 13.7 | 2.9 | -593 | -3 | -2 | 7.9 | 5903 | 110 | -3.4 | 136 | 0.228 |
| 02- | 65.5142- | 162.9761- | 2- | 13- | | 0-406569 | 21500 | 550 | 14400 | -35 | 1 | 16.9 | 8.5 | -416 | -1 | | 15.6 | 8400 | 129 | 6.6 | 156 | 0.199 |
| 02- | 65.5089- | 163.0139- | 2- | 13- | | 0-406570 | 21070 | 561 | 13730 | -43 | -2 | 15.2 | -0.5 | -427 | -1 | | 14.1 | 8059 | 130 | 4.2 | 107 | 0.241 |
| 02- | 65.5092- | 163.0408- | 2- | 13- | | 0-406571 | 17610 | 543 | 13950 | -47 | -2 | 19.3 | 11.0 | -467 | -2 | -1 | 15.9 | 8009 | 120 | 5.1 | 191 | 0.201 |
| 02- | 65.4958- | 163.1097- | 2- | 13- | | 0-406572 | 13030 | 434 | 23080 | -34 | -1 | 11.5 | 4.3 | -396 | -7 | -1 | 8.6 | 6593 | 95 | 2.6 | -280 | 0.326 |
| 02- | 65.4842- | 163.2067- | 2- | 13- | | 0-406573 | 20900 | 494 | 13500 | 52 | -1 | 15.7 | 7.5 | -341 | -1 | | 13.1 | 7440 | 139 | 4.4 | 119 | 0.244 |
| 02- | 65.4533- | 163.1833- | 2- | 13- | | 0-406574 | 16630 | 675 | 11360 | -30 | -1 | 12.6 | 7.1 | -347 | -1 | | 12.2 | 7826 | 118 | 5.0 | 137 | 0.295 |
| 02- | 65.4667- | 163.0467- | 2- | 13- | | 0-406575 | 17680 | 1510 | 12260 | -41 | -2 | 25.0 | 9.2 | -577 | -1 | -1 | 13.1 | 10320 | 194 | 4.6 | | 0.206 |
| 02- | 65.4767- | 163.0603- | 2- | 13- | | 0-406576 | 22550 | 1302 | 12790 | -47 | -2 | 19.1 | 4.6 | -578 | -14 | -1 | 9.4 | 9669 | 175 | 5.0 | -541 | 0.287 |
| 02- | 65.4403- | 162.9767- | 2- | 13- | | 0-406577 | 23700 | 676 | 15900 | 58 | -1 | 15.2 | 7.5 | -378 | -1 | | 13.6 | 6880 | 131 | 4.2 | 101 | 0.272 |
| 02- | 65.4425- | 162.9583- | 2- | 13- | | 0-406578 | 16610 | 430 | 19670 | -31 | -1 | 12.3 | 6.6 | -362 | -1 | | 10.4 | 6331 | 103 | 4.7 | -9 | 0.317 |

# APPENDIX II

## RESULTS OF ELEMENTAL ANALYSES OF SAMPLES FROM THE AREA OF ALASKA PROPOSED FOR THE SELAWIK NATIONAL WILDLIFE REFUGE

### APPENDIX II-A

Selawik Field Data and Elemental Concentrations for Acidified Waters Analyzed for Uranium by Fluorometry or Delayed-Neutron Counting and for Twelve Additional Elements by Plasma-Source Emission Spectrography

### APPENDIX II-B

Selawik Field Data and Elemental Concentrations for Sediments Analyzed for Uranium by Delayed-Neutron Counting and for Forty-Two Additional Elements by X-Ray Fluorescence, Arc-Source Emission Spectrography, and Neutron Activation

APPENDIX II-A

SELAWIK

FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR ACIDIFIED WATERS ANALYZED FOR URANIUM BY FLUOROMETRY OR DELAYED-NEUTRON COUNTING AND FOR TWELVE ADDITIONAL ELEMENTS BY PLASMA-SOURCE EMISSION SPECTROGRAPHY

(Pages 74 through 91)

Note that two pages, numbered 1 and 2 in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

1 - Lists field data and uranium concentrations determined by fluorometry or delayed-neutron counting.
2 - Lists concentrations of 12 additional elements determined by plasma-source emission spectrography.

(See Appendix IV for Procedures and Codes to Listings)

# APPENDIX II-A. Elemental Concentrations for Water Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02- | 66.9844- | 158.7233- | 2- | 27- | | 0- | 404589- | 08/16/76- | 13- | 14- | 11.6- | C- | - | - | - | 26- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.9217- | 158.5528- | 2- | 27- | | 0- | 404591- | 08/16/76- | 13- | 14- | 10.7- | C- | - | - | - | 19- | 2- | 8- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.9492- | 158.5350- | 2- | 27- | | 0- | 404592- | 08/16/76- | 13- | 13- | 14.0- | C- | - | - | - | 13- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.21 |
| 02- | 66.9200- | 158.4808- | 2- | 27- | | 0- | 404593- | 08/16/76- | 13- | 14- | 11.2- | C- | - | - | - | 19- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.9617- | 158.4733- | 2- | 27- | | 0- | 404594- | 08/16/76- | 13- | 13- | 11.5- | C- | - | - | - | 6- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.22 |
| 02- | 66.9567- | 158.3950- | 2- | 27- | | 0- | 404595- | 08/16/76- | 14- | 13- | 12.1- | C- | - | - | - | 9- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.9467- | 158.3458- | 2- | 27- | | 0- | 404596- | 08/16/76- | 14- | 13- | 10.8- | C- | - | - | - | 19- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 66.6233- | 159.3667- | 2- | 29- | | 0- | 405161- | 08/22/76- | 9- | 11- | 14.6- | | -S- | 7.0- | 13- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.12 |
| 02- | 66.6433- | 159.3167- | 2- | 29- | | 0- | 405162- | 08/22/76- | 9- | 11- | 14.5- | | -S- | 7.1- | 17- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.08 |
| 02- | 66.5933- | 159.3933- | 2- | 29- | | 0- | 405163- | 08/22/76- | 9- | 11- | 14.8- | | -S- | 7.4- | 22- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.02 |
| 02- | 66.5733- | 159.3283- | 2- | 29- | | 0- | 405164- | 08/22/76- | 9- | 11- | 14.9- | | -S- | 7.4- | 26- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.01 |
| 02- | 66.5500- | 159.3633- | 2- | 29- | | 0- | 405165- | 08/22/76- | 9- | 11- | 14.3- | | -S- | 7.3- | 14- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.09 |
| 02- | 66.5367- | 159.3700- | 2- | 29- | | 0- | 405166- | 08/22/76- | 9- | 11- | 14.2- | | -S- | 7.2- | 20- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.18 |
| 02- | 66.5350- | 159.2733- | 2- | 29- | | 0- | 405167- | 08/22/76- | 7- | 11- | 13.5- | | -S- | 7.1- | 39- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 1- | 3- | -1- | - | - | - | - | 0.16 |
| 02- | 66.5539- | 159.2717- | 2- | 29- | | 0- | 405168- | 08/22/76- | 9- | 11- | 13.6- | | -S- | 7.2- | 39- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 1- | 3- | -1- | - | - | - | - | 0.32 |
| 02- | 66.6050- | 159.2558- | 2- | 29- | | 0- | 405169- | 08/22/76- | 9- | 10- | 15.1- | | -S- | 7.5- | 19- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.23 |
| 02- | 66.6178- | 159.2483- | 2- | 29- | | 0- | 405170- | 08/22/76- | 9- | 11- | 14.6- | | -S- | 7.3- | 23- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.27 |
| 02- | 66.6339- | 159.2633- | 2- | 29- | | 0- | 405171- | 08/22/76- | 9- | 11- | 14.7- | | -S- | 7.4- | 27- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.40* |
| 02- | 66.6467- | 159.1733- | 2- | 29- | | 0- | 405172- | 08/22/76- | 10- | 10- | 14.6- | | -S- | 7.3- | 17- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6272- | 159.1283- | 2- | 29- | | 0- | 405173- | 08/22/76- | 10- | 10- | 14.7- | | -S- | 7.4- | 23- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.55 |
| 02- | 66.5833- | 159.1200- | 2- | 29- | | 0- | 405174- | 08/22/76- | 10- | 11- | 14.6- | | -S- | 7.2- | 49- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.27 |
| 02- | 66.5267- | 159.1625- | 2- | 29- | | 0- | 405175- | 08/22/76- | 10- | 11- | 14.5- | | -S- | 7.5- | 28- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.09 |
| 02- | 66.5600- | 159.1017- | 2- | 29- | | 0- | 405176- | 08/22/76- | 10- | 11- | 14.4- | | -S- | 7.4- | 22- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.08 |
| 02- | 66.5133- | 159.1175- | 2- | 29- | | 0- | 405177- | 08/22/76- | 10- | 11- | 13.3- | | -S- | 7.3- | 63- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.13 |
| 02- | 66.4900- | 159.1400- | 2- | 29- | | 0- | 405178- | 08/22/76- | 10- | 11- | 14.2- | | -S- | 7.7- | 19- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.17 |
| 02- | 66.4500- | 159.1442- | 2- | 29- | | 0- | 405179- | 08/22/76- | 10- | 11- | 14.3- | | -S- | 7.4- | 22- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.11 |
| 02- | 66.4700- | 159.1392- | 2- | 29- | | 0- | 405180- | 08/22/76- | 10- | 10- | 14.2- | | -S- | 7.4- | 37- | | -7- | 2- | 6- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.10 |
| 02- | 66.4200- | 159.1617- | 2- | 29- | | 0- | 405181- | 08/22/76- | 10- | 10- | 14.1- | | -S- | 7.5- | 45- | | -2- | 7- | 6- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.43 |
| 02- | 66.3650- | 159.1383- | 2- | 29- | | 0- | 405182- | 08/22/76- | 10- | 11- | 14.2- | | -S- | 7.6- | 51- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.02 |
| 02- | 66.3667- | 159.1511- | 2- | 29- | | 0- | 405183- | 08/22/76- | 10- | 11- | 14.1- | | -S- | 7.5- | 19- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.10 |
| 02- | 66.3667- | 159.2467- | 2- | 29- | | 0- | 405184- | 08/22/76- | 10- | 11- | 14.2- | | -S- | 7.3- | 21- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.11 |
| 02- | 66.3700- | 159.2733- | 2- | 29- | | 0- | 405185- | 08/22/76- | 10- | 11- | 14.4- | | -S- | 7.3- | 25- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.16 |
| 02- | 66.3778- | 159.3183- | 2- | 29- | | 0- | 405186- | 08/22/76- | 10- | 11- | 14.5- | | -S- | 7.3- | 28- | | -2- | 7- | 6- | 7- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.37 |
| 02- | 66.3767- | 159.3667- | 2- | 29- | | 0- | 405187- | 08/22/76- | 10- | 11- | 13.8- | | -S- | 7.2- | 34- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4000- | 159.2467- | 2- | 29- | | 0- | 405188- | 08/22/76- | 10- | 11- | 13.5- | | -S- | 7.3- | 61- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.04 |
| 02- | 66.4150- | 159.2517- | 2- | 29- | | 0- | 405189- | 08/22/76- | 10- | 11- | 13.5- | | -S- | 7.3- | 67- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.33 |
| 02- | 66.4667- | 159.2658- | 2- | 29- | | 0- | 405190- | 08/22/76- | 10- | 11- | 14.2- | | -S- | 7.7- | 35- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.18 |
| 02- | 66.4694- | 159.2042- | 2- | 29- | | 0- | 405191- | 08/22/76- | 11- | 11- | 14.3- | | -S- | 7.6- | 44- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.76 |
| 02- | 66.4667- | 159.3567- | 2- | 29- | | 0- | 405192- | 08/22/76- | 11- | 11- | 13.2- | | -S- | 7.6- | 47- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 0.39 |
| 02- | 66.4917- | 159.2717- | 2- | 29- | | 0- | 405193- | 08/22/76- | 11- | 11- | 14.6- | | -S- | 8.8- | 51- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.17 |
| 02- | 66.5117- | 159.2858- | 2- | 29- | | 0- | 405194- | 08/22/76- | 11- | 11- | 14.5- | | -S- | 8.9- | 60- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.09 |
| 02- | 66.5000- | 159.3333- | 2- | 29- | | 0- | 405195- | 08/22/76- | 11- | 11- | 14.1- | | -S- | 9.0- | 31- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.04 |
| 02- | 66.4933- | 159.4150- | 2- | 29- | | 0- | 405196- | 08/22/76- | 11- | 11- | 14.1- | | -S- | 8.6- | 23- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.64 |
| 02- | 66.4539- | 159.6267- | 2- | 29- | | 0- | 405209- | 08/22/76- | 13- | 11- | 14.7- | | -S- | 7.7- | 22- | | -2- | 7- | - | - | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.26 |
| 02- | 66.4600- | 159.5792- | 2- | 29- | | 0- | 405210- | 08/22/76- | 13- | 12- | 14.2- | | -S- | 7.4- | 32- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.26 |
| 02- | 66.4583- | 159.5567- | 2- | 29- | | 0- | 405211- | 08/22/76- | 13- | 11- | 14.3- | | -S- | 7.5- | 37- | | -2- | 7- | 6- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.08 |
| 02- | 66.4700- | 159.4833- | 2- | 29- | | 0- | 405212- | 08/22/76- | 13- | 12- | 12.8- | | -S- | 7.4- | 55- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.07 |
| 02- | 66.4500- | 159.4717- | 2- | 29- | | 0- | 405213- | 08/22/76- | 13- | 11- | 13.2- | | -S- | 7.5- | 70- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.51 |
| 02- | 66.4283- | 159.3533- | 2- | 29- | | 0- | 405214- | 08/22/76- | 14- | 12- | 14.2- | | -S- | 7.4- | 24- | | -2- | 7- | 5- | 7- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4083- | 159.3050- | 2- | 29- | | 0- | 405215- | 08/22/76- | 14- | 12- | 14.4- | | -S- | 7.5- | 30- | | -2- | 7- | 5- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.02 |
| 02- | 66.4183- | 159.4517- | 2- | 29- | | 0- | 405216- | 08/22/76- | 14- | 12- | 14.6- | | -S- | 7.3- | 136- | | -2- | 7- | 6- | 8- | | -3- | 1- | | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 0.23 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

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| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.9844- | 158.7233- | 2- | 27- | | 0-404589 | 81840 | -55 | -25 | -4 | 12447 | 13545 | 253 | -25 | -25 | 148 | 199 | 192 |
| 02- | 66.9217- | 158.5528- | 2- | 27- | | 0-404591 | 30706 | -55 | -25 | -4 | 7646 | 5363 | 858 | -25 | -25 | 7 | 199 | 106 |
| 02- | 66.9492- | 158.5350- | 2- | 27- | | 0-404592 | 31245 | -55 | -25 | -4 | 10159 | 5516 | 939 | -25 | -25 | 12 | 199 | 67 |
| 02- | 66.9200- | 158.4808- | 2- | 27- | | 0-404593 | 27202 | -55 | -25 | -4 | 1518 | 7111 | 110 | -25 | -25 | 9 | 199 | 57 |
| 02- | 66.9617- | 158.4733- | 2- | 27- | | 0-404594 | 26886 | 58 | -25 | -4 | 1159 | 7165 | 97 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.9567- | 158.3950- | 2- | 27- | | 0-404595 | 106000 | 72 | -25 | -4 | 97156 | 18094 | 2483 | -25 | 284 | 59 | 199 | 139 |
| 02- | 66.9467- | 158.3458- | 2- | 27- | | 0-404596 | 120000 | -55 | -25 | -4 | 119000 | 21113 | 2947 | -25 | 414 | 102 | 199 | 322 |
| 02- | 66.6233- | 159.3667- | 2- | 29- | | 0-405161 | 4629 | -55 | -25 | -4 | 6974 | 1797 | 49 | -25 | -25 | 37 | 199 | 179 |
| 02- | 66.6433- | 159.3167- | 2- | 29- | | 0-405162 | 2846 | 137 | -25 | -4 | 5302 | 1184 | 39 | -25 | 45 | 20 | 199 | -50 |
| 02- | 66.5933- | 159.3933- | 2- | 29- | | 0-405163 | 2924 | 149 | -25 | -4 | 5313 | 1258 | 35 | -25 | -25 | 12 | 199 | -50 |
| 02- | 66.5733- | 159.3283- | 2- | 29- | | 0-405164 | 5567 | -55 | -25 | -4 | 2723 | 1723 | 41 | -25 | -25 | 15 | 199 | 126 |
| 02- | 66.5500- | 159.3633- | 2- | 29- | | 0-405165 | 3339 | -55 | -25 | -4 | 4324 | 1828 | 53 | -25 | -25 | 25 | 199 | 69 |
| 02- | 66.5367- | 159.3700- | 2- | 29- | | 0-405166 | 13615 | -55 | -25 | -4 | 5346 | 4815 | 107 | -25 | -25 | 21 | 199 | 169 |
| 02- | 66.5350- | 159.2733- | 2- | 29- | | 0-405167 | 9266 | -55 | -25 | -4 | 4078 | 3628 | 82 | -25 | 66 | 28 | 199 | 157 |
| 02- | 66.5539- | 159.2717- | 2- | 29- | | 0-405168 | 4056 | -55 | -25 | -4 | 5062 | 2331 | 58 | -25 | 54 | 52 | 199 | 102 |
| 02- | 66.6050- | 159.2558- | 2- | 29- | | 0-405169 | 5656 | 60 | -25 | -4 | 6492 | 2189 | 98 | -25 | 38 | 54 | 199 | 71 |
| 02- | 66.6178- | 159.2483- | 2- | 29- | | 0-405170 | 7681 | -55 | -25 | -4 | 3482 | 2082 | 39 | -25 | -25 | 17 | 199 | 96 |
| 02- | 66.6339- | 159.2633- | 2- | 29- | | 0-405171 | 7039 | -55 | -25 | -4 | 3147 | 1994 | 38 | -25 | -25 | 13 | 199 | -50 |
| 02- | 66.6467- | 159.1733- | 2- | 29- | | 0-405172 | 4610 | -55 | -25 | -4 | 1886 | 1201 | 26 | -25 | 29 | 13 | 199 | -50 |
| 02- | 66.6272- | 159.1283- | 2- | 29- | | 0-405173 | 5466 | -55 | -25 | -4 | 1794 | 1266 | 28 | -25 | -25 | 12 | 199 | 64 |
| 02- | 66.5833- | 159.1200- | 2- | 29- | | 0-405174 | 16542 | -55 | -25 | -4 | 787 | 6375 | 20 | -25 | -25 | 7 | 199 | 136 |
| 02- | 66.5267- | 159.1625- | 2- | 29- | | 0-405175 | 7442 | -55 | -25 | -4 | 3278 | 2687 | 43 | -25 | 43 | 31 | 199 | 208 |
| 02- | 66.5600- | 159.1017- | 2- | 29- | | 0-405176 | 6072 | -55 | -25 | -4 | 2927 | 2370 | 44 | -25 | 33 | 23 | 199 | 116 |
| 02- | 66.5133- | 159.1175- | 2- | 29- | | 0-405177 | 15870 | 58 | -25 | -4 | 4500 | 5378 | 196 | -25 | 113 | 47 | 199 | 126 |
| 02- | 66.4900- | 159.1400- | 2- | 29- | | 0-405178 | 5202 | 62 | -25 | -4 | 2502 | 2171 | 44 | -25 | 145 | 47 | 199 | 180 |
| 02- | 66.4500- | 159.1442- | 2- | 29- | | 0-405179 | 4101 | -55 | -25 | -4 | 3574 | 2482 | 58 | -25 | 103 | 43 | 199 | 107 |
| 02- | 66.4700- | 159.1392- | 2- | 29- | | 0-405180 | 8560 | -55 | -25 | -4 | 6378 | 2860 | 229 | -25 | 110 | 20 | 199 | 155 |
| 02- | 66.4200- | 159.1617- | 2- | 29- | | 0-405181 | 16567 | -55 | -25 | -4 | 3250 | 3371 | 148 | -25 | 97 | 28 | 199 | 148 |
| 02- | 66.3650- | 159.1383- | 2- | 29- | | 0-405182 | 22790 | -55 | -25 | -4 | 4545 | 4751 | 187 | -25 | 69 | 49 | 199 | 121 |
| 02- | 66.3867- | 159.1511- | 2- | 29- | | 0-405183 | 4936 | -55 | -25 | -4 | 3721 | 1922 | 66 | -25 | 69 | 26 | 199 | 74 |
| 02- | 66.3667- | 159.2467- | 2- | 29- | | 0-405184 | 6206 | -55 | -25 | -4 | 4111 | 2198 | 70 | -25 | 105 | 50 | 199 | 173 |
| 02- | 66.3700- | 159.2733- | 2- | 29- | | 0-405185 | 6344 | -55 | -25 | -4 | 1905 | 2135 | 52 | -25 | 62 | 15 | 199 | 89 |
| 02- | 66.3778- | 159.3183- | 2- | 29- | | 0-405186 | 6887 | -55 | -25 | -4 | 1679 | 2303 | 52 | -25 | 89 | 6 | 199 | 112 |
| 02- | 66.3767- | 159.3667- | 2- | 29- | | 0-405187 | 11575 | -55 | -25 | -4 | 3465 | 3048 | 59 | -25 | 53 | 24 | 199 | 65 |
| 02- | 66.4000- | 159.2467- | 2- | 29- | | 0-405188 | 17085 | -55 | -25 | -4 | 1184 | 4886 | 21 | -25 | 72 | 7 | 199 | 203 |
| 02- | 66.4150- | 159.2517- | 2- | 29- | | 0-405189 | 19409 | 76 | -25 | -4 | 1148 | 5533 | 20 | -25 | -25 | 5 | 199 | 158 |
| 02- | 66.4667- | 159.2658- | 2- | 29- | | 0-405190 | 7727 | -55 | -25 | -4 | 1320 | 3361 | 40 | -25 | 67 | 7 | 199 | 79 |
| 02- | 66.4694- | 159.2042- | 2- | 29- | | 0-405191 | 8496 | 62 | -25 | -4 | 1496 | 3443 | 44 | -25 | 87 | 23 | 199 | 100 |
| 02- | 66.4667- | 159.3567- | 2- | 29- | | 0-405192 | 16350 | -55 | -25 | -4 | 11630 | 5639 | 371 | -25 | 120 | 99 | 199 | 160 |
| 02- | 66.4917- | 159.2717- | 2- | 29- | | 0-405193 | 13001 | -55 | -25 | -4 | 1454 | 3298 | 92 | -25 | 41 | 10 | 199 | 118 |
| 02- | 66.5117- | 159.2858- | 2- | 29- | | 0-405194 | 11372 | 68 | 26 | -4 | 1438 | 3039 | 75 | -25 | 61 | 27 | 199 | -50 |
| 02- | 66.5000- | 159.3333- | 2- | 29- | | 0-405195 | 8059 | -55 | 28 | -4 | 1597 | 2068 | 19 | 32 | 70 | 21 | 199 | -50 |
| 02- | 66.4933- | 159.4150- | 2- | 29- | | 0-405196 | 5434 | -55 | 30 | -4 | 3212 | 2623 | 36 | 39 | 90 | 29 | 199 | -50 |
| 02- | 66.4539- | 159.6267- | 2- | 29- | | 0-405209 | 3039 | -55 | 36 | -4 | 2926 | 919 | 38 | 44 | 96 | 20 | 199 | -50 |
| 02- | 66.4600- | 159.5792- | 2- | 29- | | 0-405210 | 6369 | -55 | 30 | -4 | 2431 | 2183 | 42 | 46 | 101 | 33 | 199 | -50 |
| 02- | 66.4583- | 159.5567- | 2- | 29- | | 0-405211 | 12816 | -55 | 36 | -4 | 5784 | 4300 | 92 | 41 | 123 | 62 | 199 | -50 |
| 02- | 66.4700- | 159.4833- | 2- | 29- | | 0-405212 | 15024 | 73 | -25 | -4 | 11077 | 5633 | 187 | 32 | 96 | 49 | 199 | -50 |
| 02- | 66.4500- | 159.4717- | 2- | 29- | | 0-405213 | 13828 | -55 | 27 | -4 | 13507 | 5572 | 202 | 30 | 109 | 49 | 199 | -50 |
| 02- | 66.4283- | 159.3533- | 2- | 29- | | 0-405214 | 5898 | 70 | -25 | -4 | 3105 | 1995 | 34 | -25 | 53 | 23 | 199 | -50 |
| 02- | 66.4063- | 159.3050- | 2- | 29- | | 0-405215 | 7066 | -55 | 32 | -4 | 4210 | 2601 | 49 | 30 | 78 | 29 | 199 | -50 |
| 02- | 66.4183- | 159.4517- | 2- | 29- | | 0-405216 | 45160 | -55 | -25 | -4 | 1384 | 9956 | 81 | -25 | 92 | 30 | 199 | -50 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb |
| 02-66.4000- | 159.4117- | 2-29- | | | | 0-405217- | 08/22/76- | 14- | 12-14.5- | | -S- | | 7.2- | 116- | | -2-7-5-7- | | -3-1- | | -4-4-2-3- | | -1- | - | - | - | - | 0.14 |
| 02-66.4300- | 159.5867- | 2-29- | | | | 0-405218- | 08/22/76- | 14- | 14-14.8- | | -S- | | 8.1- | 40- | | -2-7-5-7- | | -3-1- | | -4-4-2-3- | | -1- | - | - | - | - | 0.03 |
| 02-66.4000- | 159.5783- | 2-29- | | | | 0-405219- | 08/22/76- | 14- | 13-14.8- | | -S- | | 7.5- | 39- | | -2-7-6-8- | | -3-1- | | -4-4-2-3- | | -1- | - | - | - | - | 0.05 |
| 02-66.8569- | 159.7933- | 2-27- | | | | 0-405293- | 08/23/76- | 10- | 13-12.8- | | - - | | 8.3- | 69- | | -2-7-4-6-2-3-1-2-1-3-2-2- | | | | | | -1- | - | - | - | - | 0.44 |
| 02-66.8811- | 159.8300- | 2-27- | | | | 0-405294- | 08/23/76- | 10- | 13-13.2- | | - - | | 7.9- | 85- | | -2-7-4-6-2-3-1-2-4-3-2-2- | | | | | | -1- | - | - | - | - | 0.01 |
| 02-66.8783- | 159.7217- | 2-29- | | | | 0-405296- | 08/23/76- | 10- | 13-12.8- | | -S- | | 8.8- | 153- | | -2-7-4-6- | | -3-1- | | -4-3-2-3- | | -1- | - | - | - | - | 0.01 |
| 02-66.8367- | 159.7217- | 2-29- | | | | 0-405297- | 08/23/76- | 10- | 13-12.6- | | -S- | | 8.5- | 170- | | -2-7-4-6- | | -3-1- | | -4-3-2-3- | | -1- | - | - | - | - | 0.22 |
| 02-66.8936- | 159.5233- | 2-27- | | | | 0-405300- | 08/23/76- | 11- | 13-12.3- | | - - | | 7.8- | 41- | | -2-7-4-6-2-3-1-2-4-3-2-3- | | | | | | -1- | - | - | - | - | 0.08 |
| 02-66.8383- | 159.4600- | 2-27- | | | | 0-405301- | 08/23/76- | 11- | 13-13.2- | | - - | | 8.5- | 94- | | -2-7-4-6-1-2-1-2-4-3-2-3- | | | | | | -1- | - | - | - | - | 0.10* |
| 02-66.8367- | 159.5500- | 2-27- | | | | 0-405302- | 08/23/76- | 11- | 13-13.6- | | - - | | 8.2- | 153- | | -2-7-4-6-2-3-1-2-4-3-2-3- | | | | | | -1- | - | - | - | - | 0.26 |
| 02-66.8961- | 159.4267- | 2-27- | | | | 0-405303- | 08/23/76- | 11- | 13-12.7- | | - - | | 8.0- | 48- | | -2-7-4-6-2-3-1-2-1-2-2-3- | | | | | | -1- | - | - | - | - | 0.01 |
| 02-66.8883- | 159.3933- | 2-27- | | | | 0-405304- | 08/23/76- | 11- | 12-12.5- | | - - | | 8.4- | 83- | | -2-7-4-6-2-3-1-2-4-3-2-3- | | | | | | -1- | - | - | - | - | 0.01 |
| 02-66.8467- | 159.3850- | 2-27- | | | | 0-405305- | 08/23/76- | 11- | 12-12.4- | | - - | | 8.3- | 59- | | -2-7-4-6-2-3-1-2-1-3-2-3- | | | | | | -1- | - | - | - | - | 0.01 |
| 02-66.8472- | 159.2333- | 2-27- | | | | 0-405306- | 08/23/76- | 11- | 11-12.9- | | - - | | 8.3- | 96- | | -2-7-4-6-2-3-1-2-1-2-2-3- | | | | | | -1- | - | - | - | - | 0.15 |
| 02-66.8694- | 159.2267- | 2-27- | | | | 0-405307- | 08/23/76- | 11- | 11-13.5- | | - - | | 8.6- | 87- | | -2-7-4-6-2-3-1-2-1-2-1-3- | | | | | | -1- | - | - | - | - | 0.02 |
| 02-66.8892- | 159.1433- | 2-27- | | | | 0-405308- | 08/23/76- | 11- | 11- 9.6- | | - - | | 8.9- | 162- | | -2-7-4-6-2-3-1-2-4-3-1-3- | | | | | | -1- | - | - | - | - | 0.51 |
| 02-66.8483- | 159.1600- | 2-27- | | | | 0-405309- | 08/23/76- | 11- | 11-10.5- | | - - | | 8.7- | 125- | | -2-7-4-6-2-3-1-2-1-2-1-3- | | | | | | -1- | - | - | - | - | 0.22 |
| 02-66.8444- | 159.0472- | 2-27- | | | | 0-405310- | 08/23/76- | 11- | 11-10.8- | | - - | | 8.5- | 141- | | -2-7-4-6-2-3-1-2-1-2-1-3- | | | | | | -1- | - | - | - | - | 0.16 |
| 02-66.8967- | 159.0400- | 2-27- | | | | 0-405311- | 08/23/76- | 12- | 11-11.0- | | - - | | 8.5- | 163- | | -2-7-4-6-2-3-1-2-1-2-1-3- | | | | | | -1- | - | - | - | - | 0.02 |
| 02-66.9600- | 158.7006- | 2-29- | | | | 0-405315- | 08/23/76- | 12- | 11-11.4- | | -S- | | 8.6- | 287- | | -2-7-4-6- | | -3-1- | | -1-2-1-3- | | -1- | - | - | - | - | 0.16 |
| 02-66.9367- | 158.6850- | 2-29- | | | | 0-405316- | 08/23/76- | 12- | 11-11.8- | | -S- | | 8.2- | 195- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 0.60 |
| 02-66.9625- | 158.6264- | 2-29- | | | | 0-405317- | 08/23/76- | 12- | 12-12.1- | | -S- | | 8.6- | 214- | | -2-7-4-6- | | -3-1- | | -1-2-1-3- | | -1- | - | - | - | - | 0.72 |
| 02-66.9489- | 158.6367- | 2-29- | | | | 0-405318- | 08/23/76- | 12- | 12- 5.8- | | -S- | | 8.7- | 127- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 0.03 |
| 02-66.9261- | 158.6750- | 2-29- | | | | 0-405319- | 08/23/76- | 12- | 11- 8.9- | | -S- | | 8.5- | 141- | | -2-7-4-6- | | -3-1- | | -1-2-3-3- | | -1- | - | - | - | - | 0.16 |
| 02-66.9500- | 158.4811- | 2-29- | | | | 0-405320- | 08/23/76- | 12- | 11-13.8- | | -S- | | 8.5- | 14- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 0.30* |
| 02-66.9000- | 158.0250- | 2-29- | | | | 0-405323- | 08/23/76- | 12- | 11-15.4- | | -S- | | 7.8- | 16- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 1.01 |
| 02-66.8650- | 158.0233- | 2-29- | | | | 0-405324- | 08/23/76- | 12- | 11-16.1- | | -S- | | 7.5- | 2- | | -2-7- - - | | -3-1- | | -1-3-2-3- | | -1- | - | - | - | - | 0.05 |
| 02-66.8433- | 158.0175- | 2-29- | | | | 0-405325- | 08/23/76- | 13- | 11-16.5- | | -S- | | 9.3- | 28- | | -2-7-4-6- | | -3-1- | | -4-3-1-2- | | -1- | - | - | - | - | 0.88 |
| 02-66.8072- | 158.0333- | 2-29- | | | | 0-405326- | 08/23/76- | 13- | 14-16.0- | | -S- | | 8.6- | 23- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.81 |
| 02-66.8133- | 158.0667- | 2-29- | | | | 0-405327- | 08/23/76- | 13- | 14-18.0- | | -S- | | 8.6- | 66- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.02 |
| 02-66.8189- | 158.1383- | 2-29- | | | | 0-405328- | 08/23/76- | 13- | 14-15.9- | | -S- | | 8.4- | 66- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.01 |
| 02-66.8167- | 158.2000- | 2-29- | | | | 0-405329- | 08/23/76- | 13- | 14-15.9- | | -S- | | 8.5- | 38- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.01 |
| 02-66.8194- | 158.2500- | 2-29- | | | | 0-405330- | 08/23/76- | 13- | 14-15.7- | | -S- | | 8.4- | 65- | | -2-7-4-6- | | -3-1- | | -4-3-1-2- | | -1- | - | - | - | - | 0.18 |
| 02-66.8400- | 158.2367- | 2-29- | | | | 0-405331- | 08/23/76- | 12- | 11-17.2- | | -S- | | 8.3- | 56- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 0.02 |
| 02-66.8342- | 158.1439- | 2-29- | | | | 0-405332- | 08/23/76- | 12- | 11-15.9- | | -S- | | 8.2- | 37- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 0.07 |
| 02-66.8464- | 158.0600- | 2-29- | | | | 0-405333- | 08/23/76- | 12- | 11-15.8- | | -S- | | 7.8- | 21- | | -2-7-4-6- | | -3-1- | | -1-2-2-3- | | -1- | - | - | - | - | 1.20 |
| 02-66.8733- | 158.0800- | 2-29- | | | | 0-405334- | 08/23/76- | 13- | 14-18.0- | | -S- | | 9.9- | 65- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.17 |
| 02-66.8761- | 158.1350- | 2-29- | | | | 0-405335- | 08/23/76- | 13- | 14-15.9- | | -S- | | 9.1- | 48- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.19 |
| 02-66.8792- | 158.2017- | 2-29- | | | | 0-405336- | 08/23/76- | 13- | 14-15.7- | | -S- | | 9.2- | 75- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.01 |
| 02-66.8900- | 158.2042- | 2-29- | | | | 0-405337- | 08/23/76- | 13- | 14-15.4- | | -S- | | 9.9- | 131- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.02 |
| 02-66.8933- | 158.1367- | 2-29- | | | | 0-405338- | 08/23/76- | 13- | 14-12.9- | | -S- | | 8.8- | 155- | | -2-7-4-6- | | -3-1- | | -4-3-1-2- | | -1- | - | - | - | - | 0.25 |
| 02-66.8917- | 158.0733- | 2-29- | | | | 0-405345- | 08/23/76- | 14- | 16-16.0- | | -S- | | 9.4- | 133- | | -2-7- - - | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.10 |
| 02-66.8950- | 158.2950- | 2-29- | | | | 0-405350- | 08/23/76- | 14- | 16-15.5- | | -S- | | 8.7- | 71- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.05 |
| 02-66.8722- | 158.2767- | 2-29- | | | | 0-405351- | 08/23/76- | 14- | 16-15.9- | | -S- | | 9.1- | 15- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.04 |
| 02-66.8678- | 158.3900- | 2-27- | | | | 0-405353- | 08/23/76- | 14- | 16-12.0- | | - - | | 8.8- | 122- | | -2-7-4-6-2-3-1-2-1-2-1-2- | | | | | | -1- | - | - | - | - | 0.02 |
| 02-66.8433- | 158.3700- | 2-27- | | | | 0-405354- | 08/23/76- | 14- | 16-11.8- | | - - | | 7.9- | 75- | | -2-7-4-6-2-3-1-2-1-2-1-2- | | | | | | -1- | - | - | - | - | 0.51 |
| 02-66.8989- | 158.5083- | 2-27- | | | | 0-405355- | 08/23/76- | 15- | 16-11.7- | | - - | | 8.1- | 96- | | -2-7-4-6-2-3-1-2-1-2-1-2- | | | | | | -1- | - | - | - | - | 0.01 |
| 02-66.9067- | 158.5567- | 2-27- | | | | 0-405356- | 08/23/76- | 15- | 16-12.2- | | - - | | 8.4- | 79- | | -2-7-4-6-2-3-1-2-1-2-1-2- | | | | | | -1- | - | - | - | - | 0.03 |
| 02-66.8703- | 158.5608- | 2-27- | | | | 0-405357- | 08/23/76- | 15- | 16-12.6- | | - - | | 8.5- | 114- | | -2-7-4-6-2-3-1-2-1-2-1-2- | | | | | | -1- | - | - | - | - | 0.21 |
| 02-66.8442- | 158.5753- | 2-27- | | | | 0-405358- | 08/23/76- | 15- | 16-11.8- | | - - | | 8.3- | 127- | | -2-7-4-6-2-3-1-2-1-2-1-2- | | | | | | -1- | - | - | - | - | 0.30 |
| 02-66.8700- | 158.5322- | 2-29- | | | | 0-405359- | 08/23/76- | 15- | 16-15.2- | | -S- | | 7.3- | 2- | | -2-7-4-6- | | -3-1- | | -1-2-1-2- | | -1- | - | - | - | - | 0.37 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Concentrations reported in weight parts per billion (ppb) | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.4000- | 159.4117- | 2- | 29- | | 0-405217 | | | | | | | | | | | | |
| 02- | 66.4306- | 159.5867- | 2- | 29- | | 0-405218 | 13185 | 113 | 29 | -4 | 6322 | 4479 | 61 | -25 | 86 | 28 | 199 | -50 |
| 02- | 66.4000- | 159.5783- | 2- | 29- | | 0-405219 | 12618 | -55 | 28 | -4 | 6737 | 4457 | 64 | 33 | 96 | 56 | 199 | -50 |
| 02- | 66.8569- | 159.7933- | 2- | 27- | | 0-405293 | 40730 | 107 | -25 | -4 | -25 | 10603 | -3 | 42 | 113 | 12 | 199 | -50 |
| 02- | 66.8811- | 159.6300- | 2- | 27- | | 0-405294 | 44615 | 97 | -25 | -4 | 33 | 12561 | -3 | 51 | 146 | 18 | 199 | -50 |
| 02- | 66.8783- | 159.7217- | 2- | 29- | | 0-405296 | 30843 | 91 | -25 | -4 | -25 | 9130 | 4 | 46 | 111 | 14 | 199 | -50 |
| 02- | 66.8367- | 159.7217- | 2- | 29- | | 0-405297 | 24355 | 94 | -25 | -4 | -25 | 7337 | 6 | 74 | 89 | 12 | 199 | -50 |
| 02- | 66.8936- | 159.5233- | 2- | 27- | | 0-405300 | 22461 | 96 | -25 | -4 | -25 | 9529 | 4 | 96 | 105 | 15 | 199 | -50 |
| 02- | 66.8383- | 159.4600- | 2- | 27- | | 0-405301 | | | | | | | | | | | | |
| 02- | 66.8367- | 159.5500- | 2- | 27- | | 0-405302 | 10283 | -55 | 37 | -4 | 3899 | 3475 | 5 | 79 | 139 | 20 | 199 | -50 |
| 02- | 66.8961- | 159.4267- | 2- | 27- | | 0-405303 | 22027 | 100 | 28 | -4 | 38 | 6947 | -3 | 87 | 167 | 19 | 199 | -50 |
| 02- | 66.8883- | 159.3933- | 2- | 27- | | 0-405304 | 21643 | 110 | -25 | -4 | 40 | 6714 | 6 | 62 | 126 | 16 | 199 | -50 |
| 02- | 66.8467- | 159.3850- | 2- | 27- | | 0-405305 | 29596 | 94 | 31 | -4 | 32 | 7736 | 4 | 58 | 141 | 16 | 199 | -50 |
| 02- | 66.8472- | 159.2333- | 2- | 27- | | 0-405306 | 38659 | 111 | 31 | -4 | 32 | 10422 | 8 | 41 | 165 | 21 | 199 | -50 |
| 02- | 66.8894- | 159.2267- | 2- | 27- | | 0-405307 | 36825 | 87 | 27 | -4 | -25 | 9769 | 5 | 55 | 135 | 19 | 199 | -50 |
| 02- | 66.8692- | 159.1433- | 2- | 27- | | 0-405308 | 23622 | 79 | -25 | -4 | -25 | 6302 | -3 | 54 | 129 | 15 | 199 | -50 |
| 02- | 66.8483- | 159.1600- | 2- | 27- | | 0-405309 | 24648 | 71 | 30 | -4 | -25 | 6249 | -3 | 42 | 131 | 17 | 199 | -50 |
| 02- | 66.8444- | 159.0472- | 2- | 27- | | 0-405310 | 25024 | 79 | -25 | -4 | -25 | 6128 | 5 | 70 | 101 | 11 | 199 | -50 |
| 02- | 66.8967- | 159.0400- | 2- | 27- | | 0-405311 | 25239 | -55 | -25 | -4 | -25 | 6250 | 4 | 71 | 94 | 11 | 199 | -50 |
| 02- | 66.9600- | 158.7006- | 2- | 29- | | 0-405315 | 57514 | 94 | 31 | -4 | 47 | 7026 | -3 | -25 | 141 | 13 | 199 | -50 |
| 02- | 66.9367- | 158.6850- | 2- | 29- | | 0-405316 | 55794 | 77 | 30 | -4 | 47 | 7232 | -3 | -25 | 151 | 18 | 199 | -50 |
| 02- | 66.9625- | 158.6264- | 2- | 29- | | 0-405317 | 52992 | 88 | 26 | -4 | -25 | 7078 | -3 | -25 | 131 | 17 | 199 | -50 |
| 02- | 66.9489- | 158.6367- | 2- | 29- | | 0-405318 | 34351 | 90 | 26 | -4 | 36 | 6462 | 9 | 36 | 139 | 17 | 199 | -50 |
| 02- | 66.9261- | 158.6750- | 2- | 29- | | 0-405319 | 34943 | 87 | -25 | -4 | 34 | 6584 | 6 | 35 | 139 | 17 | 199 | -50 |
| 02- | 66.9500- | 158.4811- | 2- | 29- | | 0-405320 | | | | | | | | | | | | |
| 02- | 66.9000- | 158.0250- | 2- | 29- | | 0-405323 | 3808 | 56 | 41 | -4 | 43 | 542 | -3 | 65 | 136 | 15 | 199 | -50 |
| 02- | 66.8650- | 158.0233- | 2- | 29- | | 0-405324 | 1703 | 70 | 36 | -4 | 114 | 410 | 17 | 68 | 136 | 21 | 278 | -50 |
| 02- | 66.8433- | 158.0175- | 2- | 29- | | 0-405325 | 5308 | -55 | 37 | -4 | 39 | 200 | 5 | 65 | 138 | 15 | 199 | -50 |
| 02- | 66.8072- | 158.0333- | 2- | 29- | | 0-405326 | 4379 | -55 | 43 | -4 | 31 | 360 | -3 | 68 | 111 | 12 | 199 | -50 |
| 02- | 66.8133- | 158.0667- | 2- | 29- | | 0-405327 | 8090 | 62 | 39 | -4 | 68 | 1700 | 11 | 52 | 161 | 14 | 199 | -50 |
| 02- | 66.8189- | 158.1383- | 2- | 29- | | 0-405328 | 5190 | 74 | 40 | -4 | 37 | 1393 | 5 | 81 | 149 | 15 | 199 | -50 |
| 02- | 66.8167- | 158.2000- | 2- | 29- | | 0-405329 | 9101 | 96 | 36 | -4 | 38 | 2266 | 6 | 63 | 144 | 14 | 199 | -50 |
| 02- | 66.8194- | 158.2500- | 2- | 29- | | 0-405330 | 27536 | 76 | 37 | -4 | 28625 | 5470 | 910 | 56 | 229 | 93 | 199 | -50 |
| 02- | 66.8400- | 158.2367- | 2- | 29- | | 0-405331 | 6638 | 65 | -25 | -4 | 1428 | 1459 | 28 | -25 | 53 | 11 | 199 | -50 |
| 02- | 66.8342- | 158.1439- | 2- | 29- | | 0-405332 | 44117 | 101 | 31 | -4 | 972 | 7465 | 74 | -25 | 111 | 21 | 199 | -50 |
| 02- | 66.8464- | 158.0800- | 2- | 29- | | 0-405333 | 24992 | 98 | -25 | -4 | 62984 | 19469 | 1297 | 45 | 288 | 251 | 199 | 311 |
| 02- | 66.8733- | 158.0800- | 2- | 29- | | 0-405334 | 13461 | 67 | -25 | -4 | 1709 | 2314 | 36 | -25 | -25 | 25 | 199 | -50 |
| 02- | 66.8701- | 158.1350- | 2- | 29- | | 0-405335 | 9833 | -55 | 28 | -4 | 529 | 1201 | 21 | 36 | 49 | 20 | 199 | -50 |
| 02- | 66.8792- | 158.2017- | 2- | 29- | | 0-405336 | 15028 | 81 | 31 | -4 | 949 | 1474 | 17 | 27 | 69 | 17 | 199 | -50 |
| 02- | 66.8900- | 158.2042- | 2- | 29- | | 0-405337 | 28558 | 81 | 33 | -4 | 827 | 2196 | 10 | -25 | 87 | 19 | 199 | -50 |
| 02- | 66.8933- | 158.1367- | 2- | 29- | | 0-405338 | 31548 | 65 | -25 | -4 | 1575 | 3258 | 45 | -25 | 41 | 21 | 199 | -50 |
| 02- | 66.8917- | 158.0733- | 2- | 29- | | 0-405345 | 22592 | 77 | -25 | -4 | 364 | 3383 | 24 | -25 | 77 | 13 | 199 | -50 |
| 02- | 66.8950- | 158.2950- | 2- | 29- | | 0-405350 | 13632 | 66 | 42 | -4 | 254 | 1347 | 11 | 41 | 93 | 17 | 199 | -50 |
| 02- | 66.8722- | 158.2767- | 2- | 29- | | 0-405351 | 3647 | 57 | 37 | -4 | 213 | 359 | 11 | 48 | 67 | 17 | 199 | -50 |
| 02- | 66.8678- | 158.3900- | 2- | 27- | | 0-405353 | 38202 | 87 | -25 | -4 | 47 | 6365 | -3 | 62 | 99 | 13 | 199 | -50 |
| 02- | 66.8433- | 158.3700- | 2- | 27- | | 0-405354 | 45548 | 116 | -25 | -4 | 4520 | 8372 | 226 | -25 | 145 | 186 | 199 | -50 |
| 02- | 66.8989- | 158.5063- | 2- | 27- | | 0-405355 | 1821 | 58 | -25 | -4 | 773 | 615 | 6 | 44 | 56 | 14 | 199 | -50 |
| 02- | 66.9067- | 158.5567- | 2- | 27- | | 0-405356 | 49368 | 98 | -25 | -4 | 1806 | 8628 | 113 | -25 | 123 | 21 | 199 | -50 |
| 02- | 66.8703- | 158.5608- | 2- | 27- | | 0-405357 | 60960 | 108 | -25 | -4 | 2222 | 10519 | 141 | -25 | 82 | 23 | 199 | -50 |
| 02- | 66.8442- | 158.5753- | 2- | 27- | | 0-405358 | 51128 | 112 | -25 | -4 | 1801 | 8774 | 109 | -25 | 43 | 18 | 199 | -50 |
| 02- | 66.8700- | 158.5322- | 2- | 29- | | 0-405359 | 343 | 68 | 26 | -4 | 192 | 165 | 10 | 38 | 42 | 12 | 199 | -50 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (H) UNITS IN ppb |
| 02- | 66.8953- | 158.6492- | 2- | 27- | | 0- | 405360- | 08/23/76- | 15- | 16-12.1- | - | - | 8.2- | 89- | | -2- | 7- | - | -2- | 3- | 3- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.8994- | 158.6928- | 2- | 27- | | 0- | 405361- | 08/23/76- | 15- | 16-12.4- | - | - | 7.7- | 207- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | -1- | - | - | - | - | - | 0.27 |
| 02- | 66.8669- | 158.7133- | 2- | 27- | | 0- | 405362- | 08/23/76- | 15- | 16-12.9- | - | - | 7.9- | 156- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 3- | 2- | -1- | - | - | - | - | - | 0.11 |
| 02- | 66.8736- | 158.6733- | 2- | 27- | | 0- | 405363- | 08/23/76- | 15- | 16-12.1- | - | - | 8.1- | 165- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 3- | 1- | - | - | - | - | - | - | 0.27 |
| 02- | 66.8400- | 158.7367- | 2- | 27- | | 0- | 405364- | 08/23/76- | 15- | 16-12.0- | - | - | 8.3- | 171- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.52 |
| 02- | 66.8714- | 158.7806- | 2- | 27- | | 0- | 405365- | 08/23/76- | 15- | 16-12.0- | - | - | 8.1- | 132- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.60 |
| 02- | 66.8939- | 158.7775- | 2- | 27- | | 0- | 405366- | 08/23/76- | 15- | 16-11.9- | - | - | 8.4- | 172- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 1.17 |
| 02- | 66.9094- | 158.8233- | 2- | 27- | | 0- | 405367- | 08/23/76- | 15- | 16-12.1- | - | - | 7.9- | 156- | | -2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 3- | 2- | -1- | - | - | - | - | - | 1.09 |
| 02- | 66.8958- | 158.9158- | 2- | 27- | | 0- | 405369- | 08/23/76- | 15- | 17-10.4- | - | - | 8.7- | 271- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.23 |
| 02- | 66.8697- | 158.8825- | 2- | 27- | | 0- | 405370- | 08/23/76- | 15- | 17-11.2- | - | - | 8.4- | 231- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 3- | 2- | -1- | - | - | - | - | - | 0.16 |
| 02- | 66.8442- | 158.7633- | 2- | 27- | | 0- | 405371- | 08/23/76- | 15- | 17-11.7- | - | - | 8.2- | 221- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 0.16 |
| 02- | 66.8358- | 158.8933- | 2- | 27- | | 0- | 405372- | 08/23/76- | 15- | 18-11.9- | - | - | 8.0- | 172- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 0.23 |
| 02- | 66.8392- | 158.9667- | 2- | 27- | | 0- | 405373- | 08/23/76- | 15- | 16-12.3- | - | - | 7.9- | 203- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02- | 66.8706- | 158.9450- | 2- | 29- | | 0- | 405374- | 08/23/76- | 15- | 16-15.9- | | -S- | 8.8- | 32- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 0.05 |
| 02- | 66.9092- | 158.9242- | 2- | 29- | | 0- | 405375- | 08/23/76- | 15- | 16-14.5- | | -S- | 7.9- | 87- | | -2- | 7- | - | - | | -3- | 1- | | -1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.8822- | 158.9792- | 2- | 29- | | 0- | 405376- | 08/23/76- | 15- | 18-11.8- | | -S- | 7.2- | 18- | | -2- | 7- | 4- | 6- | | -3- | 1- | | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.7983- | 159.0333- | 2- | 29- | | 0- | 405377- | 08/23/76- | 15- | 18-16.2- | | -S- | 7.0- | 26- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 2- | 1- | -1- | - | - | - | - | - | 0.48 |
| 02- | 66.7792- | 159.0200- | 2- | 29- | | 0- | 405378- | 08/23/76- | 15- | 18-16.3- | | -S- | 7.3- | 26- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | 0.83 |
| 02- | 66.8017- | 159.1300- | 2- | 29- | | 0- | 405379- | 08/23/76- | 15- | 18-16.1- | | -S- | 7.0- | 10- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.7700- | 159.1533- | 2- | 29- | | 0- | 405380- | 08/23/76- | 15- | 18-15.8- | C | -S- | 7.5- | 312- | | -2- | 7- | - | - | | -3- | 1- | | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.7633- | 159.2606- | 2- | 29- | | 0- | 405381- | 08/23/76- | 15- | 18-16.4- | | -S- | 8.1- | 14- | | -2- | 7- | - | - | | -3- | 1- | | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.8003- | 159.2517- | 2- | 29- | | 0- | 405382- | 08/23/76- | 15- | 18-16.0- | | -S- | 7.7- | 46- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.7967- | 159.3667- | 2- | 29- | | 0- | 405383- | 08/23/76- | 16- | 18-16.4- | | -S- | 8.1- | 17- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.7600- | 159.3667- | 2- | 29- | | 0- | 405384- | 08/23/76- | 16- | 18-14.4- | | -S- | 7.6- | 28- | | -2- | 7- | 6- | 6- | | -3- | 1- | | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 0.29 |
| 02- | 66.3733- | 158.9900- | 2- | 29- | | 0- | 405416- | 08/24/76- | 10- | 14-15.5- | | -S- | 9.4- | 71- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.79 |
| 02- | 66.3742- | 158.9558- | 2- | 29- | | 0- | 405417- | 08/24/76- | 10- | 15-16.0- | | -S- | 9.2- | 69- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.3700- | 158.8656- | 2- | 29- | | 0- | 405418- | 08/24/76- | 10- | 15-16.6- | | -S- | 8.7- | 39- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3633- | 158.7875- | 2- | 29- | | 0- | 405419- | 08/24/76- | 10- | 15-16.0- | | -S- | 8.4- | 44- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3825- | 158.7108- | 2- | 29- | | 0- | 405420- | 08/24/76- | 10- | 15-14.0- | | -S- | 8.5- | 55- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3733- | 158.6600- | 2- | 29- | | 0- | 405421- | 08/24/76- | | 15-13.7- | | -S- | 8.3- | 63- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3933- | 158.6792- | 2- | 29- | | 0- | 405422- | 08/24/76- | 11- | 16-14.1- | | -S- | 7.6- | 28- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.28 |
| 02- | 66.4103- | 158.7194- | 2- | 29- | | 0- | 405423- | 08/24/76- | 11- | 16-13.8- | | -S- | 7.2- | 35- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10 |
| 02- | 66.4233- | 158.6367- | 2- | 29- | | 0- | 405424- | 08/24/76- | 11- | 15-14.4- | | -S- | 7.8- | 90- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.4250- | 158.7167- | 2- | 29- | | 0- | 405425- | 08/24/76- | 11- | 15-14.0- | | -S- | 7.4- | 86- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.4656- | 158.6500- | 2- | 27- | | 0- | 405426- | 08/24/76- | 11- | 15-14.2- | - | - | 8.7- | 127- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 2- | 2- | 1- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02- | 66.4533- | 158.7472- | 2- | 27- | | 0- | 405427- | 08/24/76- | 11- | 15-13.9- | - | - | 8.2- | 105- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 2- | 1- | 2- | -1- | - | - | - | - | - | 0.09 |
| 02- | 66.4667- | 158.7692- | 2- | 29- | | 0- | 405428- | 08/24/76- | 11- | 15-14.3- | | -S- | 9.9- | 32- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.05 |
| 02- | 66.4333- | 158.7967- | 2- | 29- | | 0- | 405429- | 08/24/76- | 11- | 15-14.0- | | -S- | 8.7- | 56- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.4039- | 158.8050- | 2- | 29- | | 0- | 405430- | 08/24/76- | 11- | 15-16.4- | | -S- | 9.1- | 69- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.31 |
| 02- | 66.4042- | 158.8861- | 2- | 29- | | 0- | 405431- | 08/24/76- | 11- | 15-15.8- | | -S- | 8.4- | 75- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.23 |
| 02- | 66.3933- | 158.9433- | 2- | 29- | | 0- | 405432- | 08/24/76- | 11- | 15-14.1- | | -S- | 7.9- | 11- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.3972- | 158.9917- | 2- | 29- | | 0- | 405433- | 08/24/76- | 11- | 15-14.2- | | -S- | 7.8- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4258- | 158.9892- | 2- | 29- | | 0- | 405434- | 08/24/76- | 11- | 15-14.4- | | -S- | 8.1- | 57- | | -2- | 7- | 5- | 6- | | -3- | 2- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.20 |
| 02- | 66.4233- | 158.9392- | 2- | 29- | | 0- | 405435- | 08/24/76- | 11- | 15-14.2- | | -S- | 7.8- | 65- | | -2- | 7- | 5- | 6- | | -3- | 3- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.17 |
| 02- | 66.4272- | 158.8892- | 2- | 29- | | 0- | 405436- | 08/24/76- | 11- | 15-14.4- | | -S- | 7.9- | 24- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02- | 66.4600- | 158.8717- | 2- | 29- | | 0- | 405437- | 08/24/76- | 11- | 15-14.3- | | -S- | 7.6- | 30- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4708- | 158.9500- | 2- | 29- | | 0- | 405438- | 08/24/76- | 11- | 15-14.4- | | -S- | 8.7- | 51- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.29 |
| 02- | 66.4606- | 158.9883- | 2- | 29- | | 0- | 405439- | 08/24/76- | 11- | 15-14.4- | | -S- | 9.2- | 42- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4975- | 158.9906- | 2- | 29- | | 0- | 405440- | 08/24/76- | 11- | 15-14.7- | | -S- | 8.4- | 35- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4975- | 158.9467- | 2- | 29- | | 0- | 405441- | 08/24/76- | 11- | 15-14.2- | | -S- | 8.0- | 46- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.5192- | 158.9556- | 2- | 29- | | 0- | 405442- | 08/24/76- | 11- | 15-14.5- | C | -S- | 8.2- | 31- | | -2- | 7- | - | - | | -3- | 1- | | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

(2)

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.8953- | 158.6492- | 2- | 27- | | 0-405360 | 42663 | 123 | -25 | -4 | 1442 | 10335 | 36 | -25 | 101 | 15 | 199 | -50 |
| 02- | 66.8994- | 158.6926- | 2- | 27- | | 0-405361 | 36695 | 94 | -25 | -4 | 1251 | 8687 | 34 | -25 | 87 | 17 | 199 | -50 |
| 02- | 66.8609- | 158.7133- | 2- | 27- | | 0-405362 | 43320 | 106 | -25 | -4 | 3033 | 10177 | 172 | -25 | 83 | 29 | 199 | -50 |
| 02- | 66.8736- | 158.6733- | 2- | 27- | | 0-405363 | 37587 | 88 | -25 | -4 | 1297 | 8822 | 38 | -25 | 79 | 16 | 199 | -50 |
| 02- | 66.8400- | 158.7367- | 2- | 27- | | 0-405364 | 59571 | 127 | -25 | -4 | 1880 | 13481 | 51 | -25 | 115 | 20 | 199 | -50 |
| 02- | 66.8714- | 158.7808- | 2- | 27- | | 0-405365 | 70816 | 157 | -25 | -4 | 3683 | 14469 | 181 | -25 | 103 | 37 | 199 | -50 |
| 02- | 66.8939- | 158.7775- | 2- | 27- | | 0-405366 | 72222 | 136 | -25 | -4 | 2372 | 15630 | 144 | -25 | 94 | 29 | 199 | 68 |
| 02- | 66.9094- | 158.8233- | 2- | 27- | | 0-405367 | 48535 | 122 | -25 | -4 | 4442 | 11190 | 195 | 38 | 71 | 61 | 199 | -50 |
| 02- | 66.8958- | 158.9158- | 2- | 27- | | 0-405369 | 56267 | 128 | 26 | -4 | 1267 | 12573 | 92 | 53 | 102 | 40 | 199 | -50 |
| 02- | 66.8697- | 158.8825- | 2- | 27- | | 0-405370 | 43042 | 110 | -25 | -4 | 655 | 9664 | 52 | 43 | 81 | 22 | 199 | -50 |
| 02- | 66.8442- | 158.7633- | 2- | 27- | | 0-405371 | 31900 | 79 | 26 | -4 | 4463 | 8469 | 200 | 68 | 84 | 96 | 199 | -50 |
| 02- | 66.8358- | 158.8933- | 2- | 27- | | 0-405372 | 35040 | 118 | -25 | -4 | 9834 | 10850 | 553 | 78 | 107 | 181 | 199 | 152 |
| 02- | 66.8392- | 158.9667- | 2- | 27- | | 0-405373 | 29541 | 121 | -25 | -4 | 2651 | 7945 | 124 | 52 | 80 | 99 | 199 | 252 |
| 02- | 66.8706- | 158.9450- | 2- | 29- | | 0-405374 | 5064 | 66 | 40 | -4 | 675 | 1337 | 4 | 66 | 66 | 15 | 199 | 92 |
| 02- | 66.9092- | 158.9242- | 2- | 29- | | 0-405375 | 11299 | 64 | 96 | -4 | 968 | 2369 | 25 | 75 | 74 | 21 | 199 | 94 |
| 02- | 66.8822- | 158.9792- | 2- | 29- | | 0-405376 | 962 | -55 | 37 | 6 | 945 | 322 | 17 | 61 | 56 | 23 | 199 | -50 |
| 02- | 66.7963- | 159.0333- | 2- | 29- | | 0-405377 | 3826 | 63 | 41 | -4 | 687 | 738 | 17 | 62 | 86 | 15 | 199 | -50 |
| 02- | 66.7792- | 159.0200- | 2- | 29- | | 0-405378 | 4107 | 70 | 48 | -4 | 898 | 916 | 12 | 68 | 97 | 14 | 199 | -50 |
| 02- | 66.8017- | 159.1300- | 2- | 29- | | 0-405379 | 1496 | 99 | 30 | -4 | 721 | 446 | 19 | 62 | 58 | 13 | 199 | -50 |
| 02- | 66.7700- | 159.1533- | 2- | 29- | | 0-405380 | 41251 | 114 | 71 | -4 | 473 | 7991 | 22 | 84 | 104 | 21 | 199 | 64 |
| 02- | 66.7633- | 159.2606- | 2- | 29- | | 0-405381 | 2135 | 83 | 44 | -4 | 1181 | 545 | 15 | 69 | 62 | 16 | 199 | -50 |
| 02- | 66.8003- | 159.2517- | 2- | 29- | | 0-405382 | 5910 | -55 | 38 | -4 | 705 | 1131 | 34 | 65 | 62 | 17 | 199 | -50 |
| 02- | 66.7967- | 159.3667- | 2- | 29- | | 0-405383 | 2642 | 69 | 44 | -4 | 1453 | 868 | 20 | 77 | 84 | 18 | 199 | -50 |
| 02- | 66.7600- | 159.3667- | 2- | 29- | | 0-405384 | 3483 | 58 | 33 | -4 | 4263 | 1256 | 36 | 76 | 50 | 15 | 199 | -50 |
| 02- | 66.3733- | 158.9900- | 2- | 29- | | 0-405416 | 9629 | 94 | -25 | -4 | 25568 | 7935 | 372 | 97 | 180 | 162 | 199 | 166 |
| 02- | 66.3742- | 158.9558- | 2- | 29- | | 0-405417 | 8078 | 96 | -25 | -4 | 18515 | 6384 | 254 | 78 | 125 | 104 | 199 | 90 |
| 02- | 66.3700- | 158.8658- | 2- | 29- | | 0-405418 | 4607 | 56 | 32 | -4 | 2442 | 1632 | 73 | 76 | 50 | 23 | 199 | -50 |
| 02- | 66.3833- | 158.7875- | 2- | 29- | | 0-405419 | 4222 | -55 | -25 | -4 | 1964 | 1453 | 66 | -25 | -25 | 5 | 199 | -50 |
| 02- | 66.3825- | 158.7108- | 2- | 29- | | 0-405420 | 4050 | 65 | -25 | -4 | 1340 | 1862 | 27 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.3733- | 158.6600- | 2- | 29- | | 0-405421 | 4556 | -55 | -25 | -4 | 1544 | 2053 | 32 | -25 | -25 | 5 | 199 | -50 |
| 02- | 66.3933- | 158.6792- | 2- | 29- | | 0-405422 | 2427 | -55 | -25 | -4 | 3211 | 1014 | 51 | -25 | -25 | 11 | 199 | -50 |
| 02- | 66.4103- | 158.7194- | 2- | 29- | | 0-405423 | 2744 | -55 | -25 | -4 | 3366 | 1118 | 55 | -25 | -25 | 14 | 199 | 77 |
| 02- | 66.4233- | 158.6367- | 2- | 29- | | 0-405424 | 8342 | -55 | -25 | -4 | 1060 | 2809 | 44 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.4250- | 158.7167- | 2- | 29- | | 0-405425 | 9954 | -55 | -25 | -4 | 1097 | 3182 | 46 | -25 | -25 | 8 | 199 | -50 |
| 02- | 66.4656- | 158.6500- | 2- | 27- | | 0-405426 | 13687 | 94 | -25 | -4 | 2536 | 3617 | 138 | -25 | -25 | 55 | 199 | 97 |
| 02- | 66.4533- | 158.7472- | 2- | 27- | | 0-405427 | 13136 | 65 | -25 | -4 | 1419 | 3090 | 82 | -25 | -25 | 25 | 199 | -50 |
| 02- | 66.4667- | 158.7692- | 2- | 29- | | 0-405428 | 8625 | 72 | -25 | -4 | 1149 | 2900 | 28 | -25 | -25 | 10 | 199 | -50 |
| 02- | 66.4333- | 158.7967- | 2- | 29- | | 0-405429 | 9822 | -55 | -25 | -4 | 1269 | 3161 | 29 | -25 | -25 | 12 | 199 | -50 |
| 02- | 66.4039- | 158.8050- | 2- | 29- | | 0-405430 | 11937 | -55 | -25 | -4 | 4774 | 3702 | 71 | -25 | -25 | 37 | 199 | -50 |
| 02- | 66.4042- | 158.8861- | 2- | 29- | | 0-405431 | 9409 | 72 | -25 | -4 | 4308 | 3067 | 60 | -25 | -25 | 48 | 199 | 78 |
| 02- | 66.3933- | 158.9433- | 2- | 29- | | 0-405432 | | | | | | | | | | | | |
| 02- | 66.3972- | 158.9917- | 2- | 29- | | 0-405433 | 1326 | 61 | -25 | -4 | 2064 | 544 | 17 | -25 | -25 | 9 | 199 | 75 |
| 02- | 66.4258- | 158.9892- | 2- | 29- | | 0-405434 | 6912 | -55 | -25 | -4 | 2354 | 2149 | 182 | -25 | -25 | 33 | 199 | 61 |
| 02- | 66.4233- | 158.9392- | 2- | 29- | | 0-405435 | 6911 | 74 | -25 | -4 | 2635 | 2221 | 184 | -25 | -25 | 18 | 199 | -50 |
| 02- | 66.4272- | 158.8892- | 2- | 29- | | 0-405436 | 5052 | 65 | -25 | -4 | 5748 | 1862 | 89 | -25 | -25 | 38 | 199 | 79 |
| 02- | 66.4600- | 158.8717- | 2- | 29- | | 0-405437 | 3122 | -55 | -25 | -4 | 3672 | 1212 | 61 | -25 | -25 | 14 | 199 | -50 |
| 02- | 66.4708- | 158.9500- | 2- | 29- | | 0-405438 | 7588 | -55 | -25 | -4 | 1221 | 1980 | 37 | -25 | -25 | 11 | 199 | -50 |
| 02- | 66.4606- | 158.9883- | 2- | 29- | | 0-405439 | 6021 | 70 | -25 | -4 | 1171 | 1937 | 36 | -25 | -25 | 25 | 199 | 72 |
| 02- | 66.4975- | 158.9906- | 2- | 29- | | 0-405440 | 5234 | -55 | -25 | -4 | 1219 | 1932 | 30 | -25 | -25 | 12 | 199 | -50 |
| 02- | 66.4975- | 158.9467- | 2- | 29- | | 0-405441 | 4646 | -55 | -25 | -4 | 1665 | 1999 | 34 | -25 | -25 | 17 | 199 | -50 |
| 02- | 66.5192- | 158.9556- | 2- | 29- | | 0-405442 | 4462 | -55 | -25 | -4 | 1470 | 1176 | 29 | -25 | -25 | 10 | 199 | -50 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02- | 66.5117- | 158.9794- | 2- | 29- | | 0-405443- | 08/24/76- | 11- | 15- | 14.4- | C- | S- | 8.0- | 56- | | -2- | 7- | - | - | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.5100- | 158.9000- | 2- | 29- | | 0-405444- | 08/24/76- | 11- | 16- | 14.1- | | -S- | 8.2- | 54- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.15 |
| 02- | 66.4922- | 158.8650- | 2- | 29- | | 0-405445- | 08/24/76- | 11- | 16- | 13.8- | | -S- | 7.8- | 75- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.4917- | 158.8042- | 2- | 29- | | 0-405446- | 08/24/76- | 11- | 16- | 14.8- | | -S- | 7.9- | 14- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10 |
| 02- | 66.5133- | 158.7967- | 2- | 29- | | 0-405447- | 08/24/76- | 11- | 16- | 14.8- | | -S- | 8.2- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.5231- | 158.7192- | 2- | 29- | | 0-405448- | 08/24/76- | 12- | 16- | 14.1- | | -S- | 7.6- | 41- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.4917- | 158.7300- | 2- | 29- | | 0-405449- | 08/24/76- | 12- | 16- | 13.8- | | -S- | 7.8- | 29- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.4922- | 158.6417- | 2- | 29- | | 0-405450- | 08/24/76- | 12- | 16- | 14.6- | | -S- | 7.9- | 28- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.5242- | 158.6333- | 2- | 29- | | 0-405451- | 08/24/76- | 12- | 16- | 14.0- | | -S- | 8.0- | 35- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.07 |
| 02- | 66.5464- | 158.6419- | 2- | 29- | | 0-405452- | 08/24/76- | 12- | 16- | 15.5- | C- | S- | 7.7- | 43- | | -2- | 7- | 5- | 6- | -3- | 3- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.31 |
| 02- | 66.5531- | 158.7242- | 2- | 29- | | 0-405453- | 08/24/76- | 12- | 16- | 14.9- | | -S- | 7.2- | 50- | | -2- | 7- | 5- | 6- | -3- | 3- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.5586- | 158.8125- | 2- | 29- | | 0-405454- | 08/24/76- | 12- | 16- | 14.6- | | -S- | 8.8- | 55- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.5533- | 158.8558- | 2- | 29- | | 0-405455- | 08/24/76- | 12- | 16- | 14.6- | | -S- | 8.8- | 66- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.5489- | 158.9350- | 2- | 29- | | 0-405456- | 08/24/76- | 12- | 16- | 14.5- | | -S- | 8.6- | 54- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.20* |
| 02- | 66.5461- | 158.9894- | 2- | 29- | | 0-405457- | 08/24/76- | 12- | 16- | 14.0- | | -S- | 8.2- | 95- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.5756- | 158.9833- | 2- | 29- | | 0-405458- | 08/24/76- | 12- | 16- | 14.8- | | -S- | 8.3- | 15- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.20 |
| 02- | 66.5767- | 158.9500- | 2- | 29- | | 0-405459- | 08/24/76- | 12- | 16- | 14.2- | | -S- | 7.9- | 21- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.09 |
| 02- | 66.5761- | 158.8600- | 2- | 29- | | 0-405460- | 08/24/76- | 12- | 16- | 13.8- | | -S- | 8.2- | 12- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.09 |
| 02- | 66.5747- | 158.8000- | 2- | 29- | | 0-405461- | 08/24/76- | 12- | 16- | 14.6- | | -S- | 7.8- | 37- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.50* |
| 02- | 66.5722- | 158.7100- | 2- | 29- | | 0-405462- | 08/24/76- | 12- | 16- | 14.2- | | -S- | 7.2- | 45- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.15 |
| 02- | 66.5647- | 158.6700- | 2- | 29- | | 0-405463- | 08/24/76- | 12- | 16- | 14.0- | | -S- | 7.4- | 60- | | -2- | 7- | - | - | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.31 |
| 02- | 66.5933- | 158.6333- | 2- | 29- | | 0-405464- | 08/24/76- | 12- | 16- | 14.2- | C- | S- | 6.8- | 12- | | -2- | 7- | - | - | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.6167- | 158.7167- | 2- | 29- | | 0-405465- | 08/24/76- | 12- | 16- | 14.5- | | -S- | 7.4- | 20- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.6011- | 158.7939- | 2- | 29- | | 0-405466- | 08/24/76- | 12- | 16- | 14.7- | | -S- | 7.3- | 38- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.6000- | 158.8733- | 2- | 29- | | 0-405467- | 08/24/76- | 12- | 16- | 14.2- | | -S- | 7.2- | 55- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.08 |
| 02- | 66.6042- | 158.9300- | 2- | 29- | | 0-405468- | 08/24/76- | 12- | 16- | 14.0- | | -S- | 7.5- | 27- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.32 |
| 02- | 66.6072- | 158.9833- | 2- | 29- | | 0-405469- | 08/24/76- | 12- | 16- | 14.7- | | -S- | 7.9- | 29- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.32 |
| 02- | 66.6417- | 158.9692- | 2- | 29- | | 0-405470- | 08/24/76- | 12- | 16- | 14.0- | | -S- | 8.0- | 33- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.6417- | 158.9333- | 2- | 27- | | 0-405471- | 08/24/76- | 13- | 16- | 15.2- | | -S- | 7.7- | 154- | | -2- | 7- | 5- | 6- | -3- | 3- | 1- | 2- | 2- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.44 |
| 02- | 66.6422- | 158.8956- | 2- | 27- | | 0-405472- | 08/24/76- | 13- | 16- | 14.9- | | -S- | 7.4- | 120- | | -2- | 7- | 5- | 6- | -3- | 3- | 1- | 2- | 2- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.14 |
| 02- | 66.6333- | 158.8000- | 2- | 29- | | 0-405473- | 08/24/76- | 13- | 16- | 14.7- | | -S- | 9.1- | 22- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.6392- | 158.7425- | 2- | 29- | | 0-405474- | 08/24/76- | 13- | 16- | 14.2- | | -S- | 8.6- | 20- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.38 |
| 02- | 66.6439- | 158.6658- | 2- | 29- | | 0-405475- | 08/24/76- | 13- | 16- | 14.8- | | -S- | 9.0- | 25- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.18 |
| 02- | 66.6553- | 158.6583- | 2- | 29- | | 0-405476- | 08/24/76- | 13- | 16- | 14.3- | | -S- | 8.2- | 55- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.6594- | 158.7250- | 2- | 29- | | 0-405477- | 08/24/76- | 13- | 16- | 14.0- | | -S- | 7.9- | 46- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.6700- | 158.7850- | 2- | 29- | | 0-405478- | 08/24/76- | 13- | 16- | 13.9- | | -S- | 8.6- | 60- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.53 |
| 02- | 66.6639- | 158.8708- | 2- | 29- | | 0-405479- | 08/24/76- | 13- | 16- | 15.3- | | -S- | 8.1- | 33- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.6556- | 158.9267- | 2- | 29- | | 0-405480- | 08/24/76- | 13- | 18- | 15.4- | | -S- | 9.3- | 112- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.6517- | 158.9856- | 2- | 29- | | 0-405481- | 08/24/76- | 13- | 18- | 15.6- | | -S- | 8.9- | 98- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.6889- | 158.9986- | 2- | 29- | | 0-405482- | 08/24/76- | 13- | 18- | 15.2- | | -S- | 9.2- | 110- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.30* |
| 02- | 66.6892- | 158.9542- | 2- | 29- | | 0-405483- | 08/24/76- | 13- | 18- | 15.3- | | -S- | 9.7- | 85- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.6976- | 158.8725- | 2- | 29- | | 0-405484- | 08/24/76- | 13- | 18- | 15.0- | | -S- | 9.6- | 100- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.7000- | 158.8017- | 2- | 29- | | 0-405485- | 08/24/76- | 13- | 18- | 15.6- | | -S- | 9.6- | 76- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.6967- | 158.7217- | 2- | 29- | | 0-405486- | 08/24/76- | 13- | 18- | 14.3- | | -S- | 9.0- | 38- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.21 |
| 02- | 66.6950- | 158.6467- | 2- | 29- | | 0-405487- | 08/24/76- | 13- | 18- | 14.4- | | -S- | 8.7- | 42- | | -2- | 7- | - | - | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.7122- | 158.6558- | 2- | 29- | | 0-405488- | 08/24/76- | 13- | 18- | 14.0- | | -S- | 9.2- | 32- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.40* |
| 02- | 66.7167- | 158.7050- | 2- | 29- | | 0-405489- | 08/24/76- | 13- | 18- | 15.2- | | -S- | 8.2- | 71- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.7233- | 158.7889- | 2- | 29- | | 0-405490- | 08/24/76- | 13- | 18- | 15.0- | | -S- | 8.0- | 65- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 2- | 2- | -1- | - | - | - | - | - | 0.05 |
| 02- | 66.7753- | 158.0133- | 2- | 27- | | 0-405491- | 08/24/76- | 16- | 22- | 13.8- | | - | 6.0- | 62- | | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.7700- | 158.0667- | 2- | 27- | | 0-405492- | 08/24/76- | 14- | 22- | 14.2- | | - | 6.3- | 70- | | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.7681- | 158.1333- | 2- | 27- | | 0-405493- | 08/24/76- | 16- | 22- | 13.7- | | - | 6.8- | 66- | | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | - | 0.43 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.5117- | 158.9794- | 2- | 29- | | 0-405443 | 4281 | -55 | -25 | -4 | 1399 | 1117 | 27 | -25 | -25 | 8 | 199 | -50 |
| 02- | 66.5100- | 158.9000- | 2- | 29- | | 0-405444 | 6654 | 57 | -25 | -4 | 1563 | 1783 | 25 | -25 | -25 | 6 | 199 | -50 |
| 02- | 66.4922- | 158.8650- | 2- | 29- | | 0-405445 | | | | | | | | | | | | |
| 02- | 66.4917- | 158.8042- | 2- | 29- | | 0-405446 | 2230 | -55 | -25 | -4 | 2319 | 773 | 30 | -25 | -25 | 10 | 199 | 55 |
| 02- | 66.5133- | 158.7967- | 2- | 29- | | 0-405447 | 2171 | 56 | -25 | -4 | 2250 | 741 | 30 | -25 | -25 | 9 | 199 | 76 |
| 02- | 66.5231- | 158.7192- | 2- | 29- | | 0-405448 | 5251 | 67 | -25 | -4 | 2066 | 1623 | 39 | -25 | -25 | 3 | 199 | 70 |
| 02- | 66.4917- | 158.7300- | 2- | 29- | | 0-405449 | | | | | | | | | | | | |
| 02- | 66.4922- | 158.6417- | 2- | 29- | | 0-405450 | 4236 | 62 | -25 | -4 | 3953 | 1576 | 59 | -25 | -25 | 22 | 199 | 102 |
| 02- | 66.5242- | 158.6333- | 2- | 29- | | 0-405451 | 5462 | -55 | -25 | -4 | 4386 | 1804 | 69 | -25 | -25 | 26 | 199 | -50 |
| 02- | 66.5464- | 158.6419- | 2- | 29- | | 0-405452 | 6746 | 96 | -25 | -4 | 16063 | 4498 | 276 | -25 | 37 | 54 | 199 | 52 |
| 02- | 66.5531- | 158.7242- | 2- | 29- | | 0-405453 | 8004 | 90 | -25 | -4 | 14732 | 4584 | 264 | -25 | -25 | 65 | 199 | 93 |
| 02- | 66.5566- | 158.8125- | 2- | 29- | | 0-405454 | | | | | | | | | | | | |
| 02- | 66.5533- | 158.8556- | 2- | 29- | | 0-405455 | | | | | | | | | | | | |
| 02- | 66.5469- | 158.9350- | 2- | 29- | | 0-405456 | | | | | | | | | | | | |
| 02- | 66.5461- | 158.9894- | 2- | 29- | | 0-405457 | 10738 | 56 | -25 | -4 | 1075 | 2189 | 23 | -25 | -25 | 3 | 199 | 78 |
| 02- | 66.5756- | 158.9633- | 2- | 29- | | 0-405458 | 3051 | 76 | -25 | -4 | 1392 | 801 | 30 | -25 | -25 | 12 | 199 | 115 |
| 02- | 66.5767- | 158.9500- | 2- | 29- | | 0-405459 | 2960 | -55 | -25 | -4 | 1330 | 810 | 25 | -25 | -25 | 11 | 199 | -50 |
| 02- | 66.5761- | 158.8800- | 2- | 29- | | 0-405460 | 4997 | 86 | -25 | -4 | 1569 | 942 | 31 | -25 | -25 | 17 | 199 | 118 |
| 02- | 66.5747- | 158.8000- | 2- | 29- | | 0-405461 | 5429 | -55 | -25 | -4 | 2948 | 1567 | 32 | -25 | -25 | 10 | 199 | 76 |
| 02- | 66.5722- | 158.7100- | 2- | 29- | | 0-405462 | 9340 | 76 | -25 | -4 | 3388 | 1924 | 40 | -25 | -25 | 15 | 199 | -50 |
| 02- | 66.5647- | 158.6700- | 2- | 29- | | 0-405463 | 5366 | 78 | -25 | -4 | 3077 | 1574 | 40 | -25 | 64 | 22 | 199 | 97 |
| 02- | 66.5933- | 158.6333- | 2- | 29- | | 0-405464 | 2144 | 89 | -25 | -4 | 3364 | 980 | 69 | -25 | 64 | 22 | 199 | 121 |
| 02- | 66.6167- | 158.7167- | 2- | 29- | | 0-405465 | 3647 | 68 | -25 | -4 | 3635 | 1150 | 77 | -25 | 67 | 27 | 199 | 69 |
| 02- | 66.6011- | 158.7939- | 2- | 29- | | 0-405466 | 8362 | 106 | -25 | -4 | 5441 | 1732 | 65 | -25 | 50 | 34 | 199 | -50 |
| 02- | 66.6000- | 158.8733- | 2- | 29- | | 0-405467 | 8749 | -55 | -25 | -4 | 5506 | 1795 | 65 | -25 | 106 | 36 | 199 | -50 |
| 02- | 66.6042- | 158.9300- | 2- | 29- | | 0-405468 | 10132 | 91 | -25 | -4 | 6145 | 2063 | 80 | -25 | 89 | 38 | 199 | 143 |
| 02- | 66.6072- | 158.9833- | 2- | 29- | | 0-405469 | 5857 | 84 | -25 | -4 | 2235 | 1298 | 40 | -25 | 68 | 18 | 199 | 58 |
| 02- | 66.6417- | 158.9892- | 2- | 29- | | 0-405470 | 5173 | 83 | -25 | -4 | 1978 | 1186 | 36 | -25 | 56 | 12 | 199 | 156 |
| 02- | 66.6417- | 158.9333- | 2- | 27- | | 0-405471 | 34559 | 88 | -25 | -4 | 1857 | 5425 | 94 | -25 | 74 | 18 | 199 | 149 |
| 02- | 66.6422- | 158.8958- | 2- | 27- | | 0-405472 | 58297 | 148 | -25 | -4 | 2867 | 8144 | 140 | -25 | 61 | 20 | 199 | 103 |
| 02- | 66.6333- | 158.8000- | 2- | 29- | | 0-405473 | 4029 | 84 | -25 | -4 | 724 | 1074 | 24 | -25 | -25 | 5 | 199 | 91 |
| 02- | 66.6392- | 158.7425- | 2- | 29- | | 0-405474 | 4635 | 61 | -25 | -4 | 798 | 1143 | 18 | -25 | -25 | 13 | 199 | 142 |
| 02- | 66.6439- | 158.6656- | 2- | 29- | | 0-405475 | 5460 | 84 | -25 | -4 | 905 | 1228 | 24 | -25 | 47 | 12 | 199 | -50 |
| 02- | 66.6553- | 158.6583- | 2- | 29- | | 0-405476 | 13020 | 110 | -25 | -4 | 1317 | 2153 | 36 | -25 | -25 | 13 | 199 | 59 |
| 02- | 66.6594- | 158.7250- | 2- | 29- | | 0-405477 | 12761 | 101 | -25 | -4 | 1080 | 2012 | 33 | -25 | 42 | 15 | 199 | -50 |
| 02- | 66.6700- | 158.7850- | 2- | 29- | | 0-405478 | 12585 | 96 | -25 | -4 | 1159 | 2092 | 34 | -25 | 52 | 11 | 199 | 73 |
| 02- | 66.6639- | 158.8706- | 2- | 29- | | 0-405479 | 6088 | 88 | -25 | -4 | 2325 | 1423 | 40 | -25 | -25 | 6 | 199 | -50 |
| 02- | 66.6556- | 158.9267- | 2- | 29- | | 0-405480 | 36378 | 123 | -25 | -4 | 611 | 5966 | 42 | -25 | 116 | 20 | 199 | 60 |
| 02- | 66.6517- | 158.9856- | 2- | 29- | | 0-405481 | 28225 | 92 | -25 | -4 | 672 | 4195 | 37 | -25 | 81 | 26 | 199 | 53 |
| 02- | 66.6869- | 158.9986- | 2- | 29- | | 0-405482 | 22150 | 110 | -25 | -4 | 343 | 3433 | 28 | -25 | 67 | 10 | 199 | 97 |
| 02- | 66.6892- | 158.9542- | 2- | 29- | | 0-405483 | 17655 | 56 | -25 | -4 | 519 | 3107 | 14 | -25 | -25 | 3 | 199 | 196 |
| 02- | 66.6978- | 158.8725- | 2- | 29- | | 0-405484 | | | | | | | | | | | | |
| 02- | 66.7000- | 158.8017- | 2- | 29- | | 0-405485 | 19365 | 60 | -25 | -4 | 521 | 3343 | 9 | -25 | -25 | 3 | 199 | 208 |
| 02- | 66.6967- | 158.7217- | 2- | 29- | | 0-405486 | 9136 | -55 | -25 | -4 | 1070 | 1816 | 25 | -25 | -25 | 3 | 199 | 214 |
| 02- | 66.6950- | 158.6467- | 2- | 29- | | 0-405487 | 9558 | -55 | -25 | -4 | 924 | 1600 | 22 | -25 | -25 | 6 | 199 | 109 |
| 02- | 66.7122- | 158.6556- | 2- | 29- | | 0-405488 | 7743 | 76 | 68 | -4 | 865 | 1417 | 22 | 85 | 222 | 28 | 199 | 91 |
| 02- | 66.7167- | 158.7050- | 2- | 29- | | 0-405489 | 13089 | 64 | -25 | -4 | 1275 | 2379 | 31 | -25 | -25 | 10 | 199 | -50 |
| 02- | 66.7233- | 158.7889- | 2- | 29- | | 0-405490 | 42558 | 96 | 58 | -4 | 3803 | 6938 | 108 | -25 | 241 | 43 | 199 | 136 |
| 02- | 66.7753- | 158.0133- | 2- | 27- | | 0-405491 | 30625 | 105 | 146 | -4 | 2676 | 5003 | 80 | 146 | 521 | 64 | 199 | 79 |
| 02- | 66.7700- | 158.0667- | 2- | 27- | | 0-405492 | 17727 | -55 | -25 | -4 | 4711 | 4305 | 40 | -25 | 92 | 14 | 199 | 107 |
| 02- | 66.7661- | 158.1333- | 2- | 27- | | 0-405493 | 15161 | -55 | -25 | -4 | 4069 | 3822 | 32 | -25 | -25 | 6 | 199 | 57 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (#) UNITS IN ppb |
| 02- | 66.7800- | 158.2192- | 2- | 29- | | 0-405494- | 08/24/76- | 16- | 22- | 13.9- | | -S- | 8.9- | 68- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.06 |
| 02- | 66.7519- | 158.2100- | 2- | 29- | | 0-405495- | 08/24/76- | 16- | 22- | 15.7- | | -S- | 9.1- | 55- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.73 |
| 02- | 66.7453- | 158.1533- | 2- | 29- | | 0-405496- | 08/24/76- | 16- | 21- | 15.2- | | -S- | 9.0- | 76- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.7419- | 158.0672- | 2- | 29- | | 0-405497- | 08/24/76- | 16- | 21- | 14.2- | | -S- | 7.5- | 21- | | -2- | 7- | - | - | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.39 |
| 02- | 66.7411- | 158.0167- | 2- | 29- | | 0-405498- | 08/24/76- | 16- | 21- | 14.0- | | -S- | 7.2- | 36- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7261- | 158.0275- | 2- | 27- | | 0-405499- | 08/24/76- | 16- | 20- | 14.2- | | - | - | 6.6- | 60- | -2- | 7- | 5- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.73 |
| 02- | 66.7167- | 158.0783- | 2- | 27- | | 0-405500- | 08/24/76- | 16- | 21- | 13.6- | | - | - | 6.8- | 75- | -2- | 7- | 5- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 66.7267- | 158.1400- | 2- | 27- | | 0-405501- | 08/24/76- | 16- | 21- | 12.8- | | - | - | 7.2- | 68- | -2- | 7- | 5- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.38 |
| 02- | 66.7228- | 158.1989- | 2- | 29- | | 0-405502- | 08/24/76- | 17- | 21- | 16.7- | | -S- | 7.7- | 38- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.42 |
| 02- | 66.7000- | 158.2322- | 2- | 29- | | 0-405503- | 08/24/76- | 17- | 21- | 16.4- | | -S- | 7.5- | 44- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.12 |
| 02- | 66.6933- | 158.1183- | 2- | 29- | | 0-405504- | 08/24/76- | 17- | 21- | 16.8- | | -S- | 7.6- | 52- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.19 |
| 02- | 66.6825- | 158.0950- | 2- | 29- | | 0-405505- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 7.6- | 23- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.6919- | 158.0086- | 2- | 29- | | 0-405506- | 08/24/76- | 17- | 21- | 15.0- | | -S- | 7.8- | 40- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 66.6642- | 158.0206- | 2- | 27- | | 0-405507- | 08/24/76- | 17- | 21- | 14.8- | | - | - | 7.6- | 104- | -2- | 7- | 4- | 6- | -3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.08 |
| 02- | 66.6669- | 158.0639- | 2- | 27- | | 0-405508- | 08/24/76- | 17- | 21- | 14.6- | | - | - | 7.2- | 110- | -2- | 7- | 4- | 6- | -3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6639- | 158.1475- | 2- | 27- | | 0-405509- | 08/24/76- | 17- | 21- | 14.6- | | - | - | 7.8- | 126- | -2- | 7- | 4- | 6- | -3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6728- | 158.1950- | 2- | 29- | | 0-405510- | 08/24/76- | 17- | 21- | 15.3- | | -S- | 8.3- | 35- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6389- | 158.2367- | 2- | 29- | | 0-405511- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 8.0- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 66.6292- | 158.1392- | 2- | 29- | | 0-405512- | 08/24/76- | 17- | 21- | 15.2- | | -S- | 8.1- | 42- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.6375- | 158.0600- | 2- | 29- | | 0-405513- | 08/24/76- | 17- | 21- | 15.8- | | -S- | 7.3- | 18- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6228- | 158.0000- | 2- | 29- | | 0-405514- | 08/24/76- | 17- | 21- | 15.2- | | -S- | 7.2- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.23 |
| 02- | 66.6117- | 158.0067- | 2- | 29- | | 0-405515- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 7.6- | 28- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.07 |
| 02- | 66.5917- | 158.0933- | 2- | 29- | | 0-405516- | 08/24/76- | 17- | 21- | 15.2- | | -S- | 10.7- | 61- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.6133- | 158.1200- | 2- | 29- | | 0-405517- | 08/24/76- | 17- | 21- | 15.8- | | -S- | 10.1- | 82- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.6025- | 158.1822- | 2- | 29- | | 0-405518- | 08/24/76- | 17- | 21- | 14.8- | | -S- | 8.8- | 76- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 66.5822- | 158.1917- | 2- | 29- | | 0-405519- | 08/24/76- | 17- | 21- | 15.7- | | -S- | 8.6- | 76- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 66.5833- | 158.1333- | 2- | 29- | | 0-405520- | 08/24/76- | 17- | 21- | 15.0- | | -S- | 8.9- | 47- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 66.5667- | 158.1000- | 2- | 29- | | 0-405521- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 8.2- | 56- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.5508- | 158.0200- | 2- | 27- | | 0-405523- | 08/24/76- | 17- | 21- | 13.6- | | - | - | 6.0- | 40- | -2- | 7- | 5- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.16 |
| 02- | 66.5600- | 158.0561- | 2- | 27- | | 0-405524- | 08/24/76- | 17- | 21- | 13.6- | | - | - | 6.8- | 28- | -2- | 7- | 5- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.5564- | 158.1656- | 2- | 29- | | 0-405525- | 08/24/76- | 17- | 21- | 14.6- | | -S- | 6.8- | 15- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.33 |
| 02- | 66.5617- | 158.2167- | 2- | 29- | | 0-405526- | 08/24/76- | 17- | 21- | 14.8- | | -S- | 6.9- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.27 |
| 02- | 66.5292- | 158.2267- | 2- | 29- | | 0-405527- | 08/24/76- | 17- | 21- | 15.0- | | -S- | 7.2- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.5308- | 158.1617- | 2- | 27- | | 0-405528- | 08/24/76- | 18- | 21- | 13.8- | | - | - | 4.2- | 28- | -2- | 7- | 5- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.08 |
| 02- | 66.5200- | 158.0667- | 2- | 27- | | 0-405529- | 08/24/76- | 18- | 21- | 12.6- | | - | - | 7.6- | 25- | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.5111- | 158.0083- | 2- | 27- | | 0-405530- | 08/24/76- | 18- | 21- | 13.6- | | - | - | 5.0- | 20- | -2- | 7- | 4- | 6- | -3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.14 |
| 02- | 66.4928- | 158.0183- | 2- | 29- | | 0-405531- | 08/24/76- | 18- | 21- | 15.8- | | -S- | 7.5- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4819- | 158.0583- | 2- | 29- | | 0-405532- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.0- | 30- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 66.4808- | 158.1503- | 2- | 29- | | 0-405533- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.6- | 33- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4600- | 158.2000- | 2- | 29- | | 0-405534- | 08/24/76- | 18- | 21- | 15.9- | | -S- | 7.7- | 32- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 66.4667- | 158.2167- | 2- | 29- | | 0-405535- | 08/24/76- | 18- | 21- | 15.8- | | -S- | 7.2- | 46- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.4608- | 158.1500- | 2- | 29- | | 0-405536- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.6- | 59- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 66.4533- | 158.0767- | 2- | 29- | | 0-405537- | 08/24/76- | 18- | 21- | 16.1- | | -S- | 7.7- | 68- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.06 |
| 02- | 66.4556- | 158.0250- | 2- | 29- | | 0-405538- | 08/24/76- | 18- | 21- | 16.3- | | -S- | 7.0- | 52- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.4428- | 158.0233- | 2- | 29- | | 0-405539- | 08/24/76- | 18- | 21- | 16.0- | | -S- | 7.5- | 60- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 66.4442- | 158.0883- | 2- | 29- | | 0-405540- | 08/24/76- | 18- | 21- | 15.0- | | -S- | 7.7- | 30- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.09 |
| 02- | 66.4425- | 158.1400- | 2- | 29- | | 0-405541- | 08/24/76- | 18- | 21- | 14.9- | | -S- | 7.2- | 44- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.11 |
| 02- | 66.4389- | 158.2181- | 2- | 29- | | 0-405542- | 08/24/76- | 18- | 21- | 15.4- | | -S- | 7.6- | 38- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.73 |
| 02- | 66.4067- | 158.2417- | 2- | 29- | | 0-405543- | 08/24/76- | 18- | 21- | 15.4- | | -S- | 7.4- | 30- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.47 |
| 02- | 66.4100- | 158.1458- | 2- | 29- | | 0-405544- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.0- | 28- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.83 |
| 02- | 66.3944- | 158.1033- | 2- | 29- | | 0-405545- | 08/24/76- | 18- | 21- | 15.0- | | -S- | 7.2- | 38- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 1.18 |

## APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.7800- | 158.2192- | 2- | 29- | | 0-405494 | 5636 | -55 | -25 | -4 | 803 | 1573 | 31 | -25 | 27 | 6 | 199 | -50 |
| 02- | 66.7519- | 158.2100- | 2- | 29- | | 0-405495 | 4596 | -55 | -25 | -4 | 735 | 1484 | 27 | -25 | -25 | 5 | 199 | -50 |
| 02- | 66.7453- | 158.1533- | 2- | 29- | | 0-405496 | 3207 | -55 | -25 | -4 | 979 | 764 | 11 | -25 | -25 | 9 | 199 | 60 |
| 02- | 66.7419- | 158.0872- | 2- | 29- | | 0-405497 | 2734 | -55 | -25 | -4 | 793 | 654 | 9 | -25 | -25 | 5 | 199 | -50 |
| 02- | 66.7411- | 158.0167- | 2- | 29- | | 0-405498 | 2555 | -55 | -25 | -4 | 836 | 681 | 10 | -25 | -25 | 3 | 199 | -50 |
| 02- | 66.7261- | 158.0275- | 2- | 27- | | 0-405499 | 7816 | 84 | -25 | -4 | 4137 | 2555 | 131 | -25 | 33 | 12 | 199 | 62 |
| 02- | 66.7167- | 158.0783- | 2- | 27- | | 0-405500 | 8456 | 57 | -25 | -4 | 3503 | 2639 | 45 | -25 | 36 | 13 | 199 | -50 |
| 02- | 66.7267- | 158.1400- | 2- | 27- | | 0-405501 | 13639 | 84 | -25 | -4 | 6115 | 3594 | 210 | 27 | 76 | 33 | 199 | -50 |
| 02- | 66.7228- | 158.1989- | 2- | 29- | | 0-405502 | 7526 | -55 | -25 | -4 | 16652 | 4292 | 257 | -25 | 69 | 38 | 199 | 57 |
| 02- | 66.7000- | 158.2322- | 2- | 29- | | 0-405503 | 6154 | 58 | -25 | -4 | 13939 | 3475 | 213 | -25 | 106 | 33 | 199 | -50 |
| 02- | 66.6933- | 158.1183- | 2- | 29- | | 0-405504 | 5452 | 63 | -25 | -4 | 13788 | 3496 | 197 | 39 | 104 | 94 | 199 | 114 |
| 02- | 66.6625- | 158.0958- | 2- | 29- | | 0-405505 | 3219 | -55 | -25 | -4 | 2102 | 1030 | 33 | -25 | -25 | 19 | 199 | -50 |
| 02- | 66.6919- | 158.0086- | 2- | 29- | | 0-405506 | 4108 | -55 | -25 | -4 | 2410 | 1192 | 36 | -25 | -25 | 23 | 199 | -50 |
| 02- | 66.6642- | 158.0208- | 2- | 27- | | 0-405507 | 12544 | -55 | -25 | -4 | 1617 | 3226 | 110 | 29 | 41 | 16 | 199 | -50 |
| 02- | 66.6689- | 158.0639- | 2- | 27- | | 0-405508 | 22334 | 66 | -25 | -4 | 2418 | 4978 | 140 | -25 | 41 | 25 | 199 | -50 |
| 02- | 66.6639- | 158.1475- | 2- | 27- | | 0-405509 | 17248 | 56 | -25 | -4 | 2218 | 4220 | 182 | -25 | 41 | 19 | 199 | 68 |
| 02- | 66.6728- | 158.1950- | 2- | 29- | | 0-405510 | 5746 | 59 | -25 | -4 | 1240 | 1574 | 21 | -25 | 49 | 18 | 199 | -50 |
| 02- | 66.6389- | 158.2367- | 2- | 29- | | 0-405511 | 6342 | 77 | -25 | -4 | 1326 | 1828 | 26 | -25 | 50 | 17 | 199 | -50 |
| 02- | 66.6292- | 158.1392- | 2- | 29- | | 0-405512 | 5860 | 59 | -25 | -4 | 1227 | 1600 | 24 | -25 | 38 | 18 | 199 | -50 |
| 02- | 66.6375- | 158.0600- | 2- | 29- | | 0-405513 | 3473 | 78 | 28 | -4 | 3130 | 1404 | 40 | -25 | 61 | 39 | 199 | -50 |
| 02- | 66.6228- | 158.0000- | 2- | 29- | | 0-405514 | 2741 | -55 | 36 | -4 | 2560 | 1131 | 37 | 33 | 96 | 40 | 199 | -50 |
| 02- | 66.6117- | 158.0067- | 2- | 29- | | 0-405515 | 3429 | 60 | -25 | -4 | 2885 | 1342 | 36 | -25 | 36 | 35 | 199 | -50 |
| 02- | 66.5917- | 158.0933- | 2- | 29- | | 0-405516 | 5424 | -55 | -25 | -4 | 1062 | 2389 | 20 | -25 | 54 | 14 | 199 | -50 |
| 02- | 66.6133- | 158.1200- | 2- | 29- | | 0-405517 | 5036 | 85 | -25 | -4 | 831 | 2124 | 17 | -25 | 43 | 14 | 199 | -50 |
| 02- | 66.6025- | 158.1822- | 2- | 29- | | 0-405518 | 5255 | 68 | -25 | -4 | 857 | 2234 | 20 | -25 | 62 | 12 | 199 | -50 |
| 02- | 66.5822- | 158.1917- | 2- | 29- | | 0-405519 | 4482 | 88 | 33 | -4 | 2113 | 1736 | 23 | 38 | 93 | 19 | 199 | -50 |
| 02- | 66.5833- | 158.1333- | 2- | 29- | | 0-405520 | 3795 | 75 | 31 | -4 | 1824 | 1522 | 19 | -25 | 64 | 16 | 199 | -50 |
| 02- | 66.5667- | 158.1000- | 2- | 29- | | 0-405521 | 3994 | -55 | 28 | -4 | 1917 | 1598 | 18 | 37 | 90 | 17 | 199 | -50 |
| 02- | 66.5508- | 158.0200- | 2- | 27- | | 0-405523 | 2877 | -55 | 26 | -4 | 6591 | 1716 | 61 | 29 | 81 | 38 | 199 | -50 |
| 02- | 66.5600- | 158.0561- | 2- | 27- | | 0-405524 | 3141 | -55 | 26 | -4 | 7089 | 1799 | 62 | 27 | 66 | 37 | 199 | -50 |
| 02- | 66.5564- | 158.1656- | 2- | 29- | | 0-405525 | 1789 | -55 | 32 | -4 | 3174 | 1100 | 51 | 30 | 67 | 34 | 199 | -50 |
| 02- | 66.5617- | 158.2167- | 2- | 29- | | 0-405526 | 1993 | 76 | 29 | -4 | 3506 | 1183 | 51 | -25 | 70 | 29 | 199 | -50 |
| 02- | 66.5292- | 158.2267- | 2- | 29- | | 0-405527 | 1896 | -55 | 34 | -4 | 3060 | 1103 | 48 | 35 | 75 | 29 | 199 | -50 |
| 02- | 66.5306- | 158.1617- | 2- | 27- | | 0-405528 | 1821 | 60 | 27 | -4 | 3758 | 1069 | 50 | 33 | 83 | 29 | 199 | -50 |
| 02- | 66.5200- | 158.0667- | 2- | 27- | | 0-405529 | 2616 | 67 | 26 | -4 | 5424 | 1462 | 67 | 35 | 95 | 38 | 199 | -50 |
| 02- | 66.5111- | 158.0083- | 2- | 27- | | 0-405530 | 2352 | 83 | 29 | -4 | 7284 | 1517 | 70 | -25 | 77 | 42 | 199 | -50 |
| 02- | 66.4928- | 158.0183- | 2- | 29- | | 0-405531 | 3066 | 70 | 34 | -4 | 905 | 1342 | 25 | 29 | 74 | 19 | 199 | -50 |
| 02- | 66.4819- | 158.0583- | 2- | 29- | | 0-405532 | 2661 | 67 | 41 | -4 | 957 | 1312 | 32 | 42 | 76 | 19 | 199 | -50 |
| 02- | 66.4808- | 158.1503- | 2- | 29- | | 0-405533 | 3173 | 90 | 34 | -4 | 952 | 1529 | 24 | -25 | 70 | 20 | 199 | -50 |
| 02- | 66.4800- | 158.2000- | 2- | 29- | | 0-405534 | 4393 | 82 | 33 | -4 | 1302 | 2016 | 28 | 34 | 83 | 24 | 199 | -50 |
| 02- | 66.4667- | 158.2167- | 2- | 29- | | 0-405535 | 4835 | 76 | 38 | -4 | 1146 | 1836 | 30 | 30 | 99 | 22 | 199 | -50 |
| 02- | 66.4608- | 158.1500- | 2- | 29- | | 0-405536 | 3541 | 64 | 40 | -4 | 1013 | 1691 | 18 | 43 | 105 | 24 | 199 | -50 |
| 02- | 66.4533- | 158.0767- | 2- | 29- | | 0-405537 | 10601 | 56 | 36 | -4 | 2342 | 3399 | 71 | 34 | 102 | 34 | 199 | -50 |
| 02- | 66.4558- | 158.0250- | 2- | 29- | | 0-405538 | 8479 | 116 | 34 | -4 | 1923 | 2923 | 58 | -25 | 89 | 25 | 199 | -50 |
| 02- | 66.4428- | 158.0233- | 2- | 29- | | 0-405539 | 9929 | 71 | 32 | -4 | 2179 | 3494 | 68 | -25 | 83 | 23 | 199 | -50 |
| 02- | 66.4442- | 158.0883- | 2- | 29- | | 0-405540 | 6293 | 93 | 36 | -4 | 4174 | 2350 | 45 | 36 | 97 | 36 | 199 | -50 |
| 02- | 66.4425- | 158.1400- | 2- | 29- | | 0-405541 | 5631 | -55 | 42 | -4 | 4479 | 2265 | 45 | 35 | 102 | 40 | 199 | -50 |
| 02- | 66.4389- | 158.2161- | 2- | 29- | | 0-405542 | 4060 | 77 | 37 | -4 | 2653 | 1464 | 28 | 26 | 100 | 25 | 199 | -50 |
| 02- | 66.4067- | 158.2417- | 2- | 29- | | 0-405543 | 4457 | 105 | 36 | -4 | 3645 | 1560 | 76 | -25 | 98 | 31 | 199 | -50 |
| 02- | 66.4100- | 158.1456- | 2- | 29- | | 0-405544 | 5731 | 72 | 45 | -4 | 4827 | 2010 | 104 | 41 | 120 | 30 | 199 | -50 |
| 02- | 66.3944- | 158.1033- | 2- | 29- | | 0-405545 | 2467 | 61 | 45 | -4 | 2862 | 1114 | 47 | 30 | 94 | 25 | 199 | -50 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb |
| 02- | 66.4000- | 158.0300- | 2- | 29- | | 0- | 405546- | 08/24/76- | 18- | 21- | 14.0- | -S- | 7.0- | 20- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.88 |
| 02- | 66.3833- | 158.0767- | 2- | 29- | | 0- | 405548- | 08/24/76- | 18- | 20- | 15.0- | -S- | 7.3- | 59- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.28 |
| 02- | 66.3683- | 158.1667- | 2- | 29- | | 0- | 405549- | 08/24/76- | 18- | 20- | 15.2- | -S- | 7.0- | 48- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.28 |
| 02- | 66.3803- | 158.2000- | 2- | 29- | | 0- | 405550- | 08/24/76- | 18- | 21- | 15.6- | -S- | 7.4- | 52- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 3- | 2- | -1- | - | - | - | - | 0.36 |
| 02- | 66.3722- | 158.3000- | 2- | 29- | | 0- | 405551- | 08/24/76- | 18- | 20- | 15.2- | -S- | 7.7- | 103- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.36 |
| 02- | 66.4058- | 158.3167- | 2- | 29- | | 0- | 405552- | 08/24/76- | 18- | 20- | 15.9- | -S- | 7.6- | 98- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.61 |
| 02- | 66.4050- | 158.3533- | 2- | 29- | | 0- | 405553- | 08/24/76- | 18- | 20- | 15.6- | -S- | 7.4- | 101- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.3728- | 158.3833- | 2- | 29- | | 0- | 405554- | 08/24/76- | 19- | 20- | 14.9- | -S- | 7.1- | 20- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.06 |
| 02- | 66.3733- | 158.4656- | 2- | 29- | | 0- | 405555- | 08/24/76- | 19- | 20- | 15.0- | -S- | 7.0- | 18- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.07 |
| 02- | 66.4000- | 158.4500- | 2- | 29- | | 0- | 405556- | 08/24/76- | 19- | 20- | 15.6- | -S- | 7.4- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.4044- | 158.5000- | 2- | 29- | | 0- | 405557- | 08/24/76- | 19- | 20- | 15.4- | -S- | 7.3- | 35- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.27 |
| 02- | 66.3867- | 158.5367- | 2- | 29- | | 0- | 405558- | 08/24/76- | 19- | 20- | 15.8- | -S- | 7.0- | 46- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 66.3817- | 158.5833- | 2- | 29- | | 0- | 405559- | 08/24/76- | 19- | 20- | 15.2- | -S- | 7.6- | 47- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 66.4067- | 158.5883- | 2- | 29- | | 0- | 405560- | 08/24/76- | 19- | 20- | 14.9- | -S- | 6.8- | 22- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7208- | 159.3625- | 2- | 29- | | 0- | 405566- | 08/25/76- | 9- | 13- | 14.5- | -S- | 7.6- | 23- | | -2- | 7- | 6- | 6- | -3- | 1- | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.33 |
| 02- | 66.6900- | 159.3367- | 2- | 29- | | 0- | 405567- | 08/25/76- | 9- | 14- | 14.8- | -S- | 7.5- | 26- | | -2- | 7- | 6- | 6- | -3- | 1- | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.02 |
| 02- | 66.6778- | 159.2600- | 2- | 29- | | 0- | 405568- | 08/25/76- | 9- | 16- | 14.7- | -S- | 7.7- | 40- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7167- | 159.2383- | 2- | 29- | | 0- | 405569- | 08/25/76- | 9- | 16- | 15.2- | -S- | 7.8- | 33- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.09 |
| 02- | 66.7136- | 159.1333- | 2- | 29- | | 0- | 405570- | 08/25/76- | 10- | 17- | 15.4- | -S- | 7.8- | 29- | | -2- | 7- | 6- | 6- | - | -3- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.23 |
| 02- | 66.6850- | 159.1125- | 2- | 29- | | 0- | 405571- | 08/25/76- | 10- | 17- | 14.8- | -S- | 7.8- | 39- | | -2- | 7- | - | - | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 1.32 |
| 02- | 66.6867- | 159.0533- | 2- | 29- | | 0- | 405572- | 08/25/76- | 10- | 18- | 15.0- | -S- | 7.9- | 48- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 66.7200- | 159.0317- | 2- | 29- | | 0- | 405573- | 08/25/76- | 10- | 18- | 15.2- | -S- | 7.7- | 22- | | -2- | 7- | - | - | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.16 |
| 02- | 66.7297- | 158.9367- | 2- | 29- | | 0- | 405574- | 08/25/76- | 10- | 18- | 15.1- | -S- | 6.7- | 14- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.20 |
| 02- | 66.7500- | 158.9400- | 2- | 29- | | 0- | 405575- | 08/25/76- | 10- | 17- | 14.9- | -S- | 6.5- | 14- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.16 |
| 02- | 66.7803- | 158.9456- | 2- | 29- | | 0- | 405576- | 08/25/76- | 10- | 17- | 15.0- | -S- | 6.9- | 30- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.02 |
| 02- | 66.8167- | 158.9358- | 2- | 29- | | 0- | 405577- | 08/25/76- | 10- | 17- | 15.0- | -S- | 7.5- | 49- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 66.8275- | 158.8958- | 2- | 29- | | 0- | 405578- | 08/25/76- | 10- | 17- | 15.2- | -S- | 7.8- | 41- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 66.8097- | 158.8875- | 2- | 27- | | 0- | 405579- | 08/25/76- | 10- | 17- | 12.6- | - | - | 8.0- | 110- | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.10 |
| 02- | 66.7889- | 158.8986- | 2- | 27- | | 0- | 405580- | 08/25/76- | 10- | 17- | 13.7- | - | - | 7.9- | 68- | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.21 |
| 02- | 66.8039- | 158.7950- | 2- | 29- | | 0- | 405581- | 08/25/76- | 10- | 17- | 14.9- | -S- | 6.9- | 5- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7903- | 158.8028- | 2- | 29- | | 0- | 405582- | 08/25/76- | 10- | 17- | 15.1- | -S- | 6.7- | 14- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7972- | 158.7042- | 2- | 27- | | 0- | 405583- | 08/25/76- | 10- | 17- | 13.3- | - | - | 7.5- | 48- | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.09 |
| 02- | 66.8078- | 158.6567- | 2- | 27- | | 0- | 405584- | 08/25/76- | 10- | 17- | 14.1- | - | - | 6.9- | 73- | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.8139- | 158.6033- | 2- | 27- | | 0- | 405585- | 08/25/76- | 10- | 17- | 13.7- | - | - | 8.2- | 67- | -2- | 7- | 4- | 6- | -2- | 2- | 1- | 2- | 1- | 2- | 1- | 1- | - | - | - | - | - | 0.52 |
| 02- | 66.8361- | 158.6433- | 2- | 27- | | 0- | 405586- | 08/25/76- | 10- | 17- | 13.3- | - | - | 8.8- | 43- | -2- | 7- | 4- | 6- | -2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.23 |
| 02- | 66.7806- | 158.7158- | 2- | 27- | | 0- | 405587- | 08/25/76- | 10- | 17- | 12.0- | - | - | 8.1- | 35- | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.04 |
| 02- | 66.7506- | 158.7200- | 2- | 27- | | 0- | 405588- | 08/25/76- | 10- | 17- | 13.5- | - | - | 7.3- | 59- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.17 |
| 02- | 66.7528- | 158.7806- | 2- | 29- | | 0- | 405589- | 08/25/76- | 11- | 17- | 15.8- | -S- | 7.5- | 17- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.13 |
| 02- | 66.7569- | 158.9000- | 2- | 29- | | 0- | 405590- | 08/25/76- | 11- | 17- | 15.0- | -S- | 7.2- | 28- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.07 |
| 02- | 66.7206- | 158.8733- | 2- | 29- | | 0- | 405591- | 08/25/76- | 11- | 17- | 15.6- | -S- | 7.3- | 42- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.28 |
| 02- | 66.7267- | 158.5783- | 2- | 29- | | 0- | 405592- | 08/25/76- | 11- | 17- | 16.0- | -S- | 7.5- | 35- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7258- | 158.5125- | 2- | 29- | | 0- | 405593- | 08/25/76- | 11- | 17- | 15.6- | -S- | 7.7- | 54- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7222- | 158.4425- | 2- | 29- | | 0- | 405594- | 08/25/76- | 11- | 17- | 15.9- | -S- | 7.6- | 11- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.01 |
| 02- | 66.7156- | 158.3533- | 2- | 27- | | 0- | 405595- | 08/25/76- | 11- | 17- | 14.2- | - | - | 8.5- | 61- | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.12 |
| 02- | 66.7200- | 158.2894- | 2- | 27- | | 0- | 405596- | 08/25/76- | 11- | 18- | 13.3- | - | - | 7.8- | 71- | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.05 |
| 02- | 66.7433- | 158.3000- | 2- | 29- | | 0- | 405597- | 08/25/76- | 11- | 18- | 16.4- | -S- | 7.6- | 38- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.17 |
| 02- | 66.7775- | 158.3050- | 2- | 29- | | 0- | 405598- | 08/25/76- | 11- | 18- | 16.0- | -S- | 8.1- | 60- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.54 |
| 02- | 66.7808- | 158.3656- | 2- | 29- | | 0- | 405599- | 08/25/76- | 11- | 18- | 15.4- | -S- | 8.4- | 44- | | -2- | 7- | 4- | 6- | -3- | 3- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.03 |
| 02- | 66.7567- | 158.3533- | 2- | 29- | | 0- | 405600- | 08/25/76- | 11- | 18- | 15.8- | -S- | 8.4- | 51- | | -2- | 7- | 6- | 6- | -3- | 2- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.04 |
| 02- | 66.7597- | 158.4444- | 2- | 29- | | 0- | 406001- | 08/25/76- | 11- | 18- | 15.6- | -S- | 8.2- | 49- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.08 |
| 02- | 66.7806- | 158.4489- | 2- | 29- | | 0- | 406002- | 08/25/76- | 11- | 18- | 15.5- | -S- | 8.2- | 25- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | 0.07 |

## APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

(2)

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.4000- | 158.0300- | 2- | 29- | 0- | 405546 | 2591 | -55 | 35 | -4 | 2934 | 1137 | 40 | -25 | 119 | 26 | 199 | -50 |
| 02- | 66.3833- | 158.0767- | 2- | 29- | 0- | 405548 | 3236 | 63 | 42 | -4 | 3530 | 1394 | 48 | 45 | 122 | 25 | 199 | -50 |
| 02- | 66.3683- | 158.1667- | 2- | 29- | 0- | 405549 | 10120 | 61 | 42 | -4 | 2103 | 2899 | 37 | 41 | 131 | 27 | 199 | -50 |
| 02- | 66.3803- | 158.2000- | 2- | 29- | 0- | 405550 | 9001 | 89 | 37 | -4 | 1767 | 2397 | 36 | 39 | 110 | 19 | 199 | -50 |
| 02- | 66.3722- | 158.3000- | 2- | 29- | 0- | 405551 | 10171 | 90 | 36 | -4 | 2114 | 2680 | 38 | 32 | 104 | 24 | 199 | -50 |
| 02- | 66.4056- | 158.3167- | 2- | 29- | 0- | 405552 | 11731 | 75 | 38 | -4 | 7635 | 4927 | 114 | 43 | 136 | 35 | 199 | -50 |
| 02- | 66.4058- | 158.3533- | 2- | 29- | 0- | 405553 | 14355 | 60 | 37 | -4 | 9573 | 6226 | 150 | 35 | 140 | 43 | 199 | -50 |
| 02- | 66.3728- | 158.3833- | 2- | 29- | 0- | 405554 | 3180 | 63 | 33 | -4 | 4528 | 1430 | 77 | 39 | 67 | 24 | 199 | -50 |
| 02- | 66.3733- | 158.4656- | 2- | 29- | 0- | 405555 | 3422 | 79 | 54 | -4 | 4653 | 1510 | 83 | 42 | 109 | 37 | 199 | -50 |
| 02- | 66.4000- | 158.4500- | 2- | 29- | 0- | 405556 | 2810 | 67 | 41 | -4 | 4063 | 1299 | 71 | 38 | 105 | 30 | 199 | -50 |
| 02- | 66.4044- | 158.5000- | 2- | 29- | 0- | 405557 | 6068 | 85 | 37 | -4 | 1325 | 1846 | 41 | 30 | 104 | 21 | 199 | -50 |
| 02- | 66.3867- | 158.5307- | 2- | 29- | 0- | 405558 | 5697 | 76 | 46 | -4 | 1093 | 1668 | 34 | 43 | 107 | 26 | 199 | -50 |
| 02- | 66.3817- | 158.5833- | 2- | 29- | 0- | 405559 | 7034 | 77 | 28 | -4 | 1235 | 2021 | 39 | -25 | 72 | 24 | 199 | -50 |
| 02- | 66.4067- | 158.5883- | 2- | 29- | 0- | 405560 | 6499 | 71 | 44 | -4 | 1190 | 1884 | 37 | 40 | 110 | 26 | 199 | -50 |
| 02- | 66.7208- | 159.3625- | 2- | 29- | 0- | 405566 | 4295 | -55 | 41 | -4 | 2264 | 1508 | 17 | 40 | 100 | 31 | 199 | -50 |
| 02- | 66.6900- | 159.3367- | 2- | 29- | 0- | 405567 | 6741 | 88 | 45 | -4 | 1415 | 1937 | 32 | 37 | 90 | 33 | 199 | -50 |
| 02- | 66.6778- | 159.2600- | 2- | 29- | 0- | 405568 | 8424 | 104 | 50 | -4 | 1644 | 1675 | 26 | 40 | 115 | 31 | 199 | -50 |
| 02- | 66.7167- | 159.2383- | 2- | 29- | 0- | 405569 | 6791 | 93 | 50 | -4 | 2847 | 1528 | 51 | 41 | 128 | 35 | 199 | -50 |
| 02- | 66.7136- | 159.1333- | 2- | 29- | 0- | 405570 | 4196 | 86 | 55 | 15 | 1278 | 1361 | 48 | -25 | 83 | 20 | 199 | -50 |
| 02- | 66.6850- | 159.1125- | 2- | 29- | 0- | 405571 | 20776 | 92 | -25 | -4 | 46941 | 14143 | 542 | -25 | 195 | 113 | 199 | 189 |
| 02- | 66.6867- | 159.0533- | 2- | 29- | 0- | 405572 | 8247 | 60 | -25 | -4 | 1553 | 1876 | 18 | -25 | -25 | 16 | 199 | -50 |
| 02- | 66.7200- | 159.0317- | 2- | 29- | 0- | 405573 | 6171 | -55 | -25 | -4 | 3281 | 1301 | 36 | -25 | -25 | 27 | 199 | -50 |
| 02- | 66.7297- | 158.9367- | 2- | 29- | 0- | 405574 | 3571 | 59 | -25 | -4 | 2359 | 894 | 33 | -25 | -25 | 18 | 199 | -50 |
| 02- | 66.7500- | 158.9400- | 2- | 29- | 0- | 405575 | 4702 | 59 | -25 | -4 | 1878 | 1087 | 22 | -25 | -25 | 18 | 199 | -50 |
| 02- | 66.7803- | 158.9458- | 2- | 29- | 0- | 405576 | 6851 | 59 | -25 | -4 | 1181 | 1834 | 19 | -25 | 34 | 15 | 199 | -50 |
| 02- | 66.8167- | 158.9358- | 2- | 29- | 0- | 405577 | 15337 | -55 | -25 | -4 | 2081 | 2530 | 48 | -25 | 53 | 13 | 199 | -50 |
| 02- | 66.8275- | 158.8958- | 2- | 29- | 0- | 405578 | 10989 | 58 | -25 | -4 | 30281 | 2770 | 839 | -25 | 114 | 30 | 199 | -50 |
| 02- | 66.8097- | 158.8875- | 2- | 27- | 0- | 405579 | 9717 | -55 | -25 | -4 | 20087 | 2491 | 743 | -25 | 58 | 30 | 199 | -50 |
| 02- | 66.7889- | 158.8986- | 2- | 27- | 0- | 405580 | 11931 | 61 | -25 | -4 | 23575 | 2666 | 787 | -25 | 73 | 24 | 199 | -50 |
| 02- | 66.8039- | 158.7950- | 2- | 29- | 0- | 405581 | 1984 | -55 | -25 | -4 | 1565 | 682 | 34 | -25 | -25 | 17 | 199 | -50 |
| 02- | 66.7903- | 158.8028- | 2- | 29- | 0- | 405582 | 3333 | -55 | -25 | -4 | 1452 | 829 | 23 | -25 | -25 | 18 | 199 | -50 |
| 02- | 66.7972- | 158.7042- | 2- | 27- | 0- | 405583 | 38296 | 119 | 112 | -4 | 1856 | 8054 | 66 | 94 | 455 | 61 | 199 | -50 |
| 02- | 66.8078- | 158.6567- | 2- | 27- | 0- | 405584 | 29088 | 62 | -25 | -4 | 28 | 7013 | -3 | 64 | 137 | 17 | 199 | -50 |
| 02- | 66.8139- | 158.6033- | 2- | 27- | 0- | 405585 | 31462 | 58 | -25 | -4 | 4969 | 8026 | 147 | -25 | 99 | 73 | 199 | 109 |
| 02- | 66.8361- | 158.6433- | 2- | 27- | 0- | 405586 | 44254 | 71 | -25 | -4 | 5464 | 10866 | 148 | -25 | 124 | 62 | 199 | 60 |
| 02- | 66.7806- | 158.7158- | 2- | 27- | 0- | 405587 | 68301 | 133 | -25 | -4 | 3400 | 13637 | 195 | -25 | 142 | 38 | 199 | 61 |
| 02- | 66.7506- | 158.7200- | 2- | 27- | 0- | 405588 | 30871 | 64 | -25 | -4 | 3853 | 6947 | 218 | -25 | 90 | 67 | 199 | 70 |
| 02- | 66.7528- | 158.7806- | 2- | 29- | 0- | 405589 | 3665 | 58 | -25 | -4 | 564 | 879 | 19 | -25 | 83 | 13 | 199 | 86 |
| 02- | 66.7569- | 158.9000- | 2- | 29- | 0- | 405590 | 7560 | -55 | -25 | -4 | 1349 | 1541 | 20 | -25 | 63 | 11 | 199 | 150 |
| 02- | 66.7206- | 158.8733- | 2- | 29- | 0- | 405591 | 9098 | -55 | 42 | -4 | 7970 | 3231 | 115 | 44 | 189 | 36 | 199 | 128 |
| 02- | 66.7267- | 158.5783- | 2- | 29- | 0- | 405592 | 6107 | 70 | -25 | -4 | 1842 | 2045 | 42 | -25 | -25 | 17 | 199 | -50 |
| 02- | 66.7258- | 158.5125- | 2- | 29- | 0- | 405593 | 9733 | 70 | -25 | -4 | 2178 | 2107 | 70 | -25 | 51 | 17 | 199 | -50 |
| 02- | 66.7222- | 158.4425- | 2- | 29- | 0- | 405594 | 2940 | 68 | -25 | -4 | 1345 | 695 | 22 | -25 | 30 | 17 | 199 | -50 |
| 02- | 66.7156- | 158.3533- | 2- | 27- | 0- | 405595 | 29156 | 93 | -25 | -4 | 3416 | 4345 | 70 | -25 | -25 | 24 | 199 | -50 |
| 02- | 66.7200- | 158.2894- | 2- | 27- | 0- | 405596 | 8269 | 91 | -25 | -4 | 1090 | 1976 | 49 | -25 | 41 | 24 | 199 | -50 |
| 02- | 66.7433- | 158.3000- | 2- | 29- | 0- | 405597 | 9994 | 81 | -25 | -4 | 834 | 2148 | 12 | -25 | -25 | 14 | 199 | -50 |
| 02- | 66.7775- | 158.3050- | 2- | 29- | 0- | 405598 | 23923 | 88 | -25 | -4 | 71549 | 14438 | 958 | -25 | 218 | 727 | 199 | 181 |
| 02- | 66.7806- | 158.3656- | 2- | 29- | 0- | 405599 | 33396 | 81 | -25 | -4 | 4487 | 4945 | 103 | 31 | 44 | 31 | 199 | -50 |
| 02- | 66.7567- | 158.3533- | 2- | 29- | 0- | 405600 | 8742 | 57 | -25 | -4 | 8041 | 3348 | 174 | 33 | 55 | 155 | 199 | -50 |
| 02- | 66.7597- | 158.4444- | 2- | 29- | 0- | 406001 | 10065 | -55 | -25 | -4 | 588 | 2326 | 21 | 39 | 29 | 14 | 199 | -50 |
| 02- | 66.7808- | 158.4489- | 2- | 29- | 0- | 406002 | 6178 | -55 | -25 | -4 | 551 | 860 | 16 | 48 | -25 | 12 | 199 | -50 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02- | 66.7733- | 158.5133- | 2-29- | | | 0-406003- | 08/25/76- | 11- | 18- | 16.2- | | -S- | 9.9- | 44- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.7517- | 158.5083- | 2-29- | | | 0-406004- | 08/25/76- | 11- | 18- | 16.1- | | -S- | 9.3- | 24- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.7500- | 158.5833- | 2-29- | | | 0-406005- | 08/25/76- | 11- | 18- | 15.6- | | -S- | 8.4- | 22- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.7800- | 158.5800- | 2-29- | | | 0-406006- | 08/25/76- | 11- | 18- | 15.4- | | -S- | 9.1- | 63- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.7817- | 158.6561- | 2-29- | | | 0-406007- | 08/25/76- | 11- | 18- | 15.6- | | -S- | 8.9- | 21- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.7533- | 158.6500- | 2-29- | | | 0-406008- | 08/25/76- | 11- | 18- | 15.9- | | -S- | 7.3- | 9- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.25 |
| 02- | 66.8058- | 158.4961- | 2-29- | | | 0-406009- | 08/25/76- | 12- | 18- | 16.0- | | -S- | 7.2- | 46- | | -2- | 7- | 6- | 6- | -3- | 2- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.08 |
| 02- | 66.8400- | 158.5017- | 2-29- | | | 0-406010- | 08/25/76- | 12- | 18- | 15.4- | | -S- | 7.6- | 2- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.20 |
| 02- | 66.8689- | 158.4439- | 2-29- | | | 0-406011- | 08/25/76- | 12- | 18- | 15.2- | C- | S- | 7.0- | 11- | | -2- | 7- | 6- | 6- | -3- | 3- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.8358- | 158.4417- | 2-29- | | | 0-406012- | 08/25/76- | 12- | 18- | 15.4- | | -S- | 7.1- | 51- | | -2- | 7- | 6- | 6- | -3- | 2- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.05 |
| 02- | 66.8133- | 158.4433- | 2-29- | | | 0-406013- | 08/25/76- | 12- | 18- | 17.4- | | -S- | 7.9- | 49- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.7967- | 158.3625- | 2-29- | | | 0-406014- | 08/25/76- | 12- | 18- | 15.9- | | -S- | 8.1- | 90- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.8108- | 158.2989- | 2-29- | | | 0-406015- | 08/25/76- | 15- | 18- | 17.8- | | -S- | 10.0- | 93- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.32 |
| 02- | 66.8433- | 158.2867- | 2-29- | | | 0-406016- | 08/25/76- | 15- | 18- | 15.5- | | -S- | 9.3- | 112- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.17 |
| 02- | 66.6936- | 158.2833- | 2-29- | | | 0-406017- | 08/25/76- | 15- | 18- | 18.3- | | -S- | 9.2- | 32- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.15 |
| 02- | 66.6667- | 158.3061- | 2-29- | | | 0-406018- | 08/25/76- | 15- | 16- | 16.7- | | -S- | 8.3- | 38- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.30 |
| 02- | 66.6706- | 158.3467- | 2-29- | | | 0-406019- | 08/25/76- | 15- | 18- | 17.1- | | -S- | 8.2- | 37- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.13 |
| 02- | 66.6917- | 158.3692- | 2-29- | | | 0-406020- | 08/25/76- | 15- | 18- | 16.4- | | -S- | 7.8- | 27- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.26 |
| 02- | 66.6967- | 158.4500- | 2-29- | | | 0-406021- | 08/25/76- | 15- | 18- | 16.1- | | -S- | 7.2- | 32- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | - | 0.14 |
| 02- | 66.6728- | 158.4442- | 2-29- | | | 0-406022- | 08/25/76- | 15- | 18- | 16.4- | | -S- | 7.3- | 8- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.05 |
| 02- | 66.6753- | 158.4933- | 2-29- | | | 0-406023- | 08/25/76- | 15- | 18- | 16.0- | | -S- | 7.4- | 82- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.6900- | 158.5192- | 2-29- | | | 0-406024- | 08/25/76- | 15- | 18- | 16.6- | | -S- | 8.0- | 30- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.6933- | 158.5667- | 2-29- | | | 0-406025- | 08/25/76- | 15- | 17- | 16.1- | | -S- | 7.7- | 47- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.08 |
| 02- | 66.6667- | 158.5772- | 2-29- | | | 0-406026- | 08/25/76- | 15- | 18- | 17.2- | | -S- | 7.6- | 69- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.36 |
| 02- | 66.3333- | 159.0083- | 2-29- | | | 0-406027- | 08/26/76- | 6- | 10- | 14.8- | | -S- | 8.5- | 17- | | -2- | 7- | - | - | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.17 |
| 02- | 66.3533- | 158.9283- | 2-29- | | | 0-406028- | 08/26/76- | 6- | 10- | 14.8- | | -S- | 8.2- | 24- | | -2- | 7- | 5- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | - | 0.17 |
| 02- | 66.3258- | 158.9489- | 2-29- | | | 0-406029- | 08/26/76- | 6- | 10- | 14.6- | | -S- | 7.1- | 19- | | -2- | 7- | - | - | -3- | 1- | -4- | 4- | 2- | 3- | | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.2861- | 159.0125- | 2-29- | | | 0-406030- | 08/26/76- | 9- | 10- | 14.5- | | -S- | 7.0- | 26- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.17 |
| 02- | 66.2736- | 159.0111- | 2-29- | | | 0-406031- | 08/26/76- | 6- | 10- | 13.5- | | -S- | 10.7- | 103- | | -2- | 7- | 6- | 7- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.2444- | 159.0639- | 2-29- | | | 0-406034- | 08/26/76- | 9- | 10- | 14.1- | | -S- | 8.6- | 62- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.04 |
| 02- | 66.1875- | 159.0042- | 2-29- | | | 0-406035- | 08/26/76- | 6- | 10- | 13.8- | | -S- | 8.2- | 55- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.10 |
| 02- | 66.2083- | 159.0592- | 2-29- | | | 0-406038- | 08/26/76- | 7- | 10- | 14.2- | | -S- | 8.2- | 66- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.02 |
| 02- | 66.1653- | 159.0492- | 2-29- | | | 0-406039- | 08/26/76- | 7- | 10- | 12.3- | | -S- | 10.1- | 124- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 2.22 |
| 02- | 66.1403- | 159.0028- | 2-29- | | | 0-406042- | 08/22/76- | 7- | 7- | 14.0- | | -S- | 8.7- | 61- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.1367- | 159.0433- | 2-27- | | | 0-406046- | 08/26/76- | 7- | 8- | 9.0- | | -S- | 7.2- | 114- | | -2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.3367- | 158.8567- | 2-29- | | | 0-406083- | 08/26/76- | 10- | 14- | 14.2- | | -S- | 7.8- | 63- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.01 |
| 02- | 66.3422- | 158.7792- | 2-29- | | | 0-406084- | 08/26/76- | 10- | 14- | 14.2- | | -S- | 7.4- | 77- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.06 |
| 02- | 66.3183- | 158.8058- | 2-29- | | | 0-406085- | 08/26/76- | 10- | 13- | 14.3- | | -S- | 7.7- | 73- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | - | 0.10* |
| 02- | 66.3086- | 158.8606- | 2-29- | | | 0-406086- | 08/26/76- | 11- | 14- | 14.2- | | -S- | 7.3- | 107- | | -2- | 7- | 5- | 7- | -3- | 1- | -2- | 2- | 2- | 2- | | -1- | - | - | - | - | - | 0.09 |
| 02- | 66.6467- | 158.6067- | 2-27- | | | 0-406128- | 08/26/76- | 16- | 17- | 13.7- | - | - | 6.3- | 24- | | 4- | 2- | 7- | 6- | 8- | 2- | 3- | 3- | 2- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.6106- | 158.5833- | 2-27- | | | 0-406129- | 08/26/76- | 16- | 17- | 12.4- | - | - | 6.7- | 19- | | 15- | 2- | 7- | 5- | 8- | 2- | 3- | 3- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.5867- | 158.5608- | 2-29- | | | 0-406130- | 08/26/76- | 16- | 17- | 16.8- | - | S- | 7.0- | 14- | | | -2- | 7- | - | - | -3- | 1- | -3- | 3- | 2- | 2- | | -1- | - | - | - | - | - | 0.03 |
| 02- | 66.6403- | 158.5000- | 2-27- | | | 0-406131- | 08/26/76- | 16- | 16- | 12.6- | - | - | 6.7- | 21- | | 10- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.22 |
| 02- | 66.6078- | 158.5050- | 2-27- | | | 0-406132- | 08/26/76- | 16- | 16- | 13.6- | - | - | 7.1- | 42- | | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.16 |
| 02- | 66.5825- | 158.5058- | 2-27- | | | 0-406133- | 08/26/76- | 16- | 16- | 12.7- | - | - | 6.7- | 12- | | 2- | 2- | 7- | 5- | 8- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.16 |
| 02- | 66.6142- | 158.4333- | 2-27- | | | 0-406134- | 08/26/76- | 16- | 16- | 12.7- | - | - | 6.3- | 21- | | 2- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.06 |
| 02- | 66.6367- | 158.4358- | 2-27- | | | 0-406135- | 08/26/76- | 16- | 16- | 11.9- | - | - | 6.9- | 32- | | 8- | 2- | 7- | - | - | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6472- | 158.3931- | 2-27- | | | 0-406136- | 08/26/76- | 16- | 17- | 11.3- | - | - | 7.1- | 16- | | 4- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.6075- | 158.3558- | 2-27- | | | 0-406137- | 08/26/76- | 16- | 16- | 10.2- | - | - | 6.7- | 23- | | 4- | 2- | 7- | 5- | 8- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.6333- | 158.2925- | 2-27- | | | 0-406138- | 08/26/76- | 16- | 16- | 11.0- | - | - | 7.0- | 32- | | 10- | 2- | 7- | 6- | 8- | 2- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.6100- | 158.2833- | 2-27- | | | 0-406139- | 08/26/76- | 16- | 17- | 9.7- | - | - | 6.4- | 21- | | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.01 |

## APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB. SAMPLE LOCATION NUMBER | Concentrations reported in weight parts per billion (ppb) | | | | | | | | | | | |
| | | | | | | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.7733- | 158.5133- | 2- | 29- | | 0-406003 | 11048 | 61 | -25 | -4 | 3181 | 1567 | 206 | 43 | 26 | 28 | 199 | -50 |
| 02- | 66.7517- | 158.5083- | 2- | 29- | | 0-406004 | 5574 | -55 | -25 | -4 | 863 | 796 | 70 | 50 | -25 | 11 | 199 | -50 |
| 02- | 66.7500- | 158.5833- | 2- | 29- | | 0-406005 | 3775 | -55 | -25 | -4 | 379 | 851 | 12 | 53 | 27 | 15 | 199 | -50 |
| 02- | 66.7800- | 158.5800- | 2- | 29- | | 0-406006 | 8350 | 66 | -25 | -4 | 292 | 804 | 11 | 33 | -25 | 10 | 199 | -50 |
| 02- | 66.7817- | 158.6561- | 2- | 29- | | 0-406007 | 12232 | -55 | -25 | -4 | 5481 | 2417 | 117 | 51 | 33 | 33 | 199 | -50 |
| 02- | 66.7533- | 158.6500- | 2- | 29- | | 0-406008 | 1956 | -55 | -25 | -4 | 702 | 356 | 17 | 50 | 37 | 12 | 199 | -50 |
| 02- | 66.8058- | 158.4961- | 2- | 29- | | 0-406009 | 9658 | 57 | 26 | -4 | 1112 | 1207 | 25 | 57 | 38 | 17 | 199 | -50 |
| 02- | 66.8400- | 158.5017- | 2- | 29- | | 0-406010 | 2445 | -55 | -25 | -4 | 704 | 334 | -3 | 39 | -25 | 12 | 199 | -50 |
| 02- | 66.8689- | 158.4439- | 2- | 29- | | 0-406011 | 2777 | -55 | -25 | -4 | 1669 | 604 | 7 | 52 | 35 | 10 | 199 | -50 |
| 02- | 66.8358- | 158.4417- | 2- | 29- | | 0-406012 | 9097 | 67 | 26 | -4 | 2998 | 1805 | 45 | 46 | 32 | 15 | 199 | -50 |
| 02- | 66.8133- | 158.4433- | 2- | 29- | | 0-406013 | 8208 | 74 | -25 | -4 | 1054 | 1099 | 20 | 27 | -25 | 15 | 199 | -50 |
| 02- | 66.7967- | 158.3625- | 2- | 29- | | 0-406014 | 13538 | 91 | -25 | -4 | 1169 | 3202 | 14 | 43 | 35 | 10 | 199 | -50 |
| 02- | 66.8108- | 158.2989- | 2- | 29- | | 0-406015 | 22750 | 57 | -25 | -4 | 14086 | 4756 | 173 | 64 | 100 | 132 | 199 | 77 |
| 02- | 66.8433- | 158.2867- | 2- | 29- | | 0-406016 | 13877 | 80 | -25 | -4 | 2843 | 2275 | 37 | 48 | 26 | 43 | 199 | -50 |
| 02- | 66.6936- | 158.2833- | 2- | 29- | | 0-406017 | 4846 | 78 | 31 | -4 | 2127 | 1520 | 30 | 53 | 57 | 18 | 199 | -50 |
| 02- | 66.6667- | 158.3061- | 2- | 29- | | 0-406018 | 3777 | -55 | -25 | -4 | 779 | 1371 | 9 | 57 | 48 | 16 | 199 | -50 |
| 02- | 66.6706- | 158.3467- | 2- | 29- | | 0-406019 | 7157 | 82 | 31 | -4 | 3545 | 2472 | 35 | 64 | 55 | 33 | 199 | -50 |
| 02- | 66.6917- | 158.3692- | 2- | 29- | | 0-406020 | 3983 | -55 | 33 | -4 | 2036 | 950 | 27 | 59 | 69 | 16 | 199 | -50 |
| 02- | 66.6967- | 158.4500- | 2- | 29- | | 0-406021 | 5048 | -55 | 26 | -4 | 3142 | 1266 | 71 | 57 | 51 | 14 | 199 | -50 |
| 02- | 66.6728- | 158.4442- | 2- | 29- | | 0-406022 | 1211 | -55 | -25 | -4 | 427 | 370 | -3 | 43 | 26 | 7 | 199 | -50 |
| 02- | 66.6753- | 158.4933- | 2- | 29- | | 0-406023 | 9518 | 75 | 31 | -4 | 2088 | 1969 | 38 | 65 | 56 | 16 | 199 | -50 |
| 02- | 66.6900- | 158.5192- | 2- | 29- | | 0-406024 | 5208 | -55 | -25 | -4 | 2813 | 1361 | 34 | 52 | 45 | 17 | 199 | -50 |
| 02- | 66.6933- | 158.5667- | 2- | 29- | | 0-406025 | 7331 | 59 | -25 | -4 | 964 | 1926 | 11 | 52 | 32 | 14 | 199 | -50 |
| 02- | 66.6667- | 158.5772- | 2- | 29- | | 0-406026 | 16189 | 80 | -25 | -4 | 24437 | 6695 | 446 | 53 | 106 | 40 | 199 | -50 |
| 02- | 66.3333- | 159.0083- | 2- | 29- | | 0-406027 | 2931 | -55 | -25 | 51 | 2060 | 1020 | 39 | 53 | 29 | 16 | 199 | 53 |
| 02- | 66.3533- | 158.9283- | 2- | 29- | | 0-406028 | 2541 | -55 | -25 | 11 | 2020 | 974 | 27 | 47 | 32 | 14 | 199 | -50 |
| 02- | 66.3258- | 158.9489- | 2- | 29- | | 0-406029 | 3328 | 83 | 40 | -4 | 3000 | 1309 | 37 | 77 | 80 | 32 | 199 | -50 |
| 02- | 66.2861- | 159.0125- | 2- | 29- | | 0-406030 | 2751 | 80 | 27 | -4 | 2808 | 1147 | 44 | 52 | 39 | 22 | 199 | -50 |
| 02- | 66.2736- | 159.0111- | 2- | 29- | | 0-406031 | | | | | | | | | | | | |
| 02- | 66.2444- | 159.0639- | 2- | 29- | | 0-406034 | 7025 | -55 | -25 | -4 | 3950 | 2699 | 90 | 51 | 36 | 50 | 199 | -50 |
| 02- | 66.1875- | 159.0042- | 2- | 29- | | 0-406035 | 5955 | -55 | 26 | -4 | 3537 | 2925 | 91 | 61 | 44 | 19 | 199 | -50 |
| 02- | 66.2083- | 159.0592- | 2- | 29- | | 0-406038 | 5633 | 64 | -25 | -4 | 1030 | 2233 | 22 | 53 | 33 | 14 | 199 | -50 |
| 02- | 66.1653- | 159.0492- | 2- | 29- | | 0-406039 | 51884 | 173 | -25 | -4 | 105000 | 32135 | 2146 | 100 | 489 | 82 | 199 | 428 |
| 02- | 66.1403- | 159.0028- | 2- | 29- | | 0-406042 | 5402 | 75 | -25 | -4 | 1630 | 2374 | 61 | 70 | 52 | 9 | 199 | -50 |
| 02- | 66.1367- | 159.0433- | 2- | 27- | | 0-406046 | 17190 | 65 | -25 | -4 | 87 | 5458 | -3 | 106 | 69 | 7 | 199 | -50 |
| 02- | 66.3367- | 158.8567- | 2- | 29- | | 0-406083 | 6134 | 76 | -25 | -4 | 3327 | 3347 | 23 | 76 | 41 | 45 | 199 | 65 |
| 02- | 66.3422- | 158.7792- | 2- | 29- | | 0-406084 | 6242 | 77 | 29 | -4 | 619 | 3455 | -3 | 60 | 76 | 10 | 199 | -50 |
| 02- | 66.3183- | 158.8058- | 2- | 29- | | 0-406085 | 7059 | 65 | 34 | -4 | 43 | 2937 | -3 | 90 | 85 | 19 | 199 | -50 |
| 02- | 66.3086- | 158.8606- | 2- | 29- | | 0-406086 | 7886 | 79 | 33 | -4 | 1410 | 3363 | 47 | 80 | 69 | 14 | 199 | -50 |
| 02- | 66.6467- | 158.6067- | 2- | 27- | | 0-406128 | 6352 | 59 | 29 | -4 | 10144 | 2334 | 210 | 59 | 79 | 37 | 199 | 92 |
| 02- | 66.6106- | 158.5833- | 2- | 27- | | 0-406129 | 5806 | 69 | 26 | -4 | 9806 | 2185 | 196 | 65 | 65 | 36 | 199 | -50 |
| 02- | 66.5867- | 158.5608- | 2- | 29- | | 0-406130 | 2093 | 83 | 30 | -4 | 2682 | 874 | 23 | 75 | 77 | 15 | 199 | -50 |
| 02- | 66.6403- | 158.5000- | 2- | 27- | | 0-406131 | 6125 | 59 | 34 | -4 | 52424 | 4579 | 282 | 85 | 190 | 156 | 199 | 104 |
| 02- | 66.6078- | 158.5050- | 2- | 27- | | 0-406132 | 10695 | 67 | 26 | -4 | 8833 | 3328 | 108 | 64 | 56 | 24 | 199 | -50 |
| 02- | 66.5825- | 158.5058- | 2- | 27- | | 0-406133 | 8415 | 86 | -25 | -4 | 8189 | 2893 | 104 | 65 | 40 | 19 | 199 | -50 |
| 02- | 66.6142- | 158.4333- | 2- | 27- | | 0-406134 | 11910 | 95 | -25 | -4 | 9737 | 3625 | 143 | 57 | 58 | 24 | 199 | -50 |
| 02- | 66.6367- | 158.4358- | 2- | 27- | | 0-406135 | 11019 | 85 | -25 | -4 | 9377 | 3379 | 123 | 63 | 78 | 39 | 199 | -50 |
| 02- | 66.6472- | 158.3931- | 2- | 27- | | 0-406136 | 6259 | -55 | 31 | -4 | 13330 | 2620 | 114 | 89 | 106 | 46 | 199 | -50 |
| 02- | 66.6075- | 158.3558- | 2- | 27- | | 0-406137 | 6911 | 73 | 33 | -4 | 13355 | 2677 | 116 | 81 | 97 | 41 | 199 | -50 |
| 02- | 66.6333- | 158.2925- | 2- | 27- | | 0-406138 | 8132 | 96 | 26 | -4 | 16597 | 3425 | 145 | 71 | 99 | 57 | 199 | -50 |
| 02- | 66.6100- | 158.2833- | 2- | 27- | | 0-406139 | 7291 | 71 | 28 | -4 | 15095 | 2990 | 134 | 77 | 79 | 38 | 199 | -50 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (μmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02 | 66.5567 | 158.2967 | 2 | 27 | 0 | 406140 | 08/26/76 | 16 | 18 | 13.4 | - | - | 5.2 | 23 | 10 | 2 | 7 | 5 | 6 | 2 | 2 | 5 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.5250 | 158.2989 | 2 | 27 | 0 | 406141 | 08/26/76 | 16 | 18 | 13.1 | - | - | 5.9 | 27 | 4 | 2 | 7 | 6 | 6 | 1 | 2 | 3 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.5792 | 158.2800 | 2 | 27 | 0 | 406142 | 08/26/76 | 16 | 18 | 13.7 | - | - | 6.4 | 27 | 15 | 2 | 7 | - | - | 1 | 2 | 5 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.5400 | 158.3458 | 2 | 27 | 0 | 406143 | 08/26/76 | 16 | 18 | 12.9 | - | - | 6.4 | 14 | 2 | 2 | 7 | 6 | 6 | 1 | 2 | 5 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.5203 | 158.3767 | 2 | 27 | 0 | 406144 | 08/26/76 | 16 | 18 | 13.1 | - | - | 7.0 | 37 | 4 | 2 | 7 | 3 | 6 | 1 | 2 | 5 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.5225 | 158.4408 | 2 | 27 | 0 | 406145 | 08/26/76 | 16 | 18 | 10.4 | - | - | 7.4 | 27 | 0 | 2 | 7 | 5 | 6 | 2 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.5500 | 158.4433 | 2 | 27 | 0 | 406146 | 08/26/76 | 16 | 18 | 9.9 | - | - | 7.3 | 44 | 2 | 2 | 7 | 3 | 6 | 2 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.03 |
| 02 | 66.5792 | 158.4458 | 2 | 27 | 0 | 406147 | 08/26/76 | 17 | 18 | 11.3 | - | - | 7.4 | 21 | 2 | 2 | 7 | 5 | 6 | 2 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.03 |
| 02 | 66.5806 | 158.3842 | 2 | 27 | 0 | 406148 | 08/26/76 | 17 | 18 | 11.3 | - | - | 7.7 | 31 | 10 | 2 | 7 | 5 | 6 | 2 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.04 |
| 02 | 66.5372 | 158.5278 | 2 | 29 | 0 | 406149 | 08/26/76 | 17 | 19 | 16.4 | | S | 7.3 | 15 | | 2 | 7 | - | - | - | 3 | 1 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.03 |
| 02 | 66.5253 | 158.4917 | 2 | 27 | 0 | 406150 | 08/26/76 | 17 | 19 | 12.7 | - | - | 7.1 | 21 | 10 | 2 | 7 | 5 | 6 | 2 | 2 | 1 | 1 | 3 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.5417 | 158.5928 | 2 | 29 | 0 | 406151 | 08/26/76 | 17 | 19 | 16.6 | | S | 6.0 | 17 | | 2 | 7 | 4 | 6 | | 3 | 1 | | 4 | 3 | 1 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.5258 | 158.5925 | 2 | 27 | 0 | 406152 | 08/26/76 | 17 | 19 | 16.5 | - | - | 7.3 | 118 | 2 | 2 | 7 | 4 | 6 | 3 | 2 | 1 | 1 | 1 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.5000 | 158.5933 | 2 | 27 | 0 | 406153 | 08/26/76 | 17 | 20 | 15.7 | - | - | 7.1 | 142 | 2 | 2 | 7 | 4 | 6 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | | 1 | - | - | - | - | 0.17 |
| 02 | 66.4642 | 158.5792 | 2 | 27 | 0 | 406154 | 08/26/76 | 17 | 19 | 14.2 | - | - | 7.6 | 87 | 2 | 2 | 7 | 5 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.08 |
| 02 | 66.4675 | 158.5281 | 2 | 27 | 0 | 406155 | 08/26/76 | 17 | 19 | 14.9 | - | - | 7.3 | 42 | 10 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.20 |
| 02 | 66.4825 | 158.5006 | 2 | 27 | 0 | 406156 | 08/26/76 | 17 | 19 | 12.7 | - | - | 8.0 | 121 | 2 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.33 |
| 02 | 66.4922 | 158.4467 | 2 | 27 | 0 | 406157 | 08/26/76 | 17 | 19 | 14.6 | - | - | 7.7 | 47 | 10 | 2 | 7 | 4 | 6 | 3 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.03 |
| 02 | 66.4617 | 158.4467 | 2 | 27 | 0 | 406158 | 08/26/76 | 17 | 21 | 14.9 | - | - | 7.9 | 66 | 8 | 2 | 7 | 4 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.4933 | 158.3700 | 2 | 27 | 0 | 406159 | 08/26/76 | 17 | 20 | 14.3 | - | - | 7.4 | 127 | 15 | 2 | 7 | 5 | 6 | 3 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.04 |
| 02 | 66.4894 | 158.2942 | 2 | 27 | 0 | 406160 | 08/26/76 | 17 | 21 | 13.7 | - | - | 8.1 | 41 | 0 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 2 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.07 |
| 02 | 66.4672 | 158.3667 | 2 | 27 | 0 | 406161 | 08/26/76 | 17 | 21 | 13.7 | - | - | 7.7 | 147 | 2 | 2 | 7 | - | - | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.03 |
| 02 | 66.4558 | 158.3153 | 2 | 27 | 0 | 406162 | 08/26/76 | 17 | 20 | 14.2 | - | - | 7.2 | 21 | 4 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 2 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.4350 | 158.2858 | 2 | 27 | 0 | 406163 | 08/26/76 | 17 | 20 | 13.2 | - | - | 7.2 | 21 | 4 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.15 |
| 02 | 66.4258 | 158.3550 | 2 | 27 | 0 | 406164 | 08/26/76 | 17 | 20 | 13.9 | - | - | 7.7 | 77 | 10 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 2 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.4244 | 158.4200 | 2 | 27 | 0 | 406165 | 08/26/76 | 17 | 21 | 14.2 | - | - | 7.2 | 21 | 4 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 2 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.3508 | 158.2750 | 2 | 27 | 0 | 406166 | 08/26/76 | 17 | 21 | 14.1 | - | - | 8.1 | 101 | 2 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 3 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.15 |
| 02 | 66.4342 | 158.5083 | 2 | 29 | 0 | 406167 | 08/26/76 | 17 | 20 | 16.4 | | S | 8.4 | 34 | | 2 | 7 | 3 | 8 | | 3 | 1 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.4258 | 158.5800 | 2 | 29 | 0 | 406168 | 08/26/76 | 17 | 20 | 15.9 | | S | 8.2 | 47 | | 2 | 7 | 6 | 8 | | 3 | 1 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.3422 | 158.0858 | 2 | 29 | 0 | 406169 | 08/26/76 | 17 | 20 | 16.4 | | S | 7.8 | 31 | | 2 | 7 | 3 | 7 | | 3 | 1 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.3200 | 158.0725 | 2 | 29 | 0 | 406170 | 08/26/76 | 17 | 21 | 16.0 | | S | 8.1 | 20 | | 2 | 7 | 6 | 8 | | 3 | 1 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.04 |
| 02 | 66.3244 | 158.1392 | 2 | 27 | 0 | 406172 | 08/26/76 | 17 | 21 | 16.2 | - | - | 6.7 | 12 | 4 | 2 | 7 | 5 | 6 | 2 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.3383 | 158.1525 | 2 | 27 | 0 | 406173 | 08/26/76 | 17 | 20 | 15.9 | - | - | 7.1 | 34 | 21 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.3167 | 158.2339 | 2 | 27 | 0 | 406178 | 08/26/76 | 18 | 19 | 15.5 | - | - | 7.0 | 32 | 8 | 2 | 7 | 5 | 6 | 3 | 2 | 1 | 1 | 2 | 3 | 3 | 2 | | 1 | - | - | - | - | 0.17 |
| 02 | 66.3400 | 158.2583 | 2 | 27 | 0 | 406179 | 08/26/76 | 18 | 19 | 15.0 | - | - | 7.0 | 41 | 0 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 3 | 2 | | 1 | - | - | - | - | 0.18 |
| 02 | 66.3567 | 158.7175 | 2 | 29 | 0 | 406210 | 08/27/76 | 10 | 13 | 15.0 | | S | 7.9 | 64 | | 2 | 7 | 6 | 8 | | 3 | 1 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.3492 | 158.6633 | 2 | 29 | 0 | 406211 | 08/27/76 | 10 | 14 | 14.5 | | S | 9.1 | 62 | | 2 | 7 | 5 | 7 | | 3 | 2 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.3358 | 158.6033 | 2 | 27 | 0 | 406212 | 08/27/76 | 10 | 14 | 13.2 | - | - | 6.3 | 60 | 10 | 2 | 7 | 5 | 6 | 3 | 2 | 1 | 1 | 3 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.09 |
| 02 | 66.3350 | 158.5292 | 2 | 27 | 0 | 406213 | 08/27/76 | 10 | 18 | 12.3 | - | - | 6.1 | 57 | 4 | 2 | 7 | 5 | 6 | 3 | 2 | 1 | 1 | 3 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.17 |
| 02 | 66.3222 | 158.7222 | 2 | 27 | 0 | 406214 | 08/27/76 | 10 | 18 | 13.4 | - | - | 7.9 | 160 | 10 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.10 |
| 02 | 66.3150 | 158.6525 | 2 | 27 | 0 | 406215 | 08/27/76 | 10 | 18 | 14.0 | - | - | 7.9 | 211 | 0 | 2 | 7 | 4 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.29 |
| 02 | 66.3117 | 158.5633 | 2 | 27 | 0 | 406216 | 08/27/76 | 10 | 18 | 13.2 | - | - | 8.2 | 147 | 15 | 2 | 7 | 5 | 6 | 3 | 2 | 1 | 1 | 1 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.3044 | 158.5267 | 2 | 27 | 0 | 406217 | 08/27/76 | 10 | 18 | 13.2 | - | - | 7.7 | 94 | 4 | 2 | 7 | 3 | 6 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.18 |
| 02 | 66.3067 | 158.4633 | 2 | 27 | 0 | 406219 | 08/27/76 | 10 | 18 | 13.7 | - | - | 7.7 | 142 | 8 | 2 | 7 | 4 | 7 | 3 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.3167 | 158.3767 | 2 | 27 | 0 | 406247 | 08/27/76 | 11 | 17 | 10.7 | - | - | 6.8 | 29 | 4 | 2 | 7 | 6 | 8 | 2 | 3 | 5 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.03 |
| 02 | 66.3367 | 158.3833 | 2 | 27 | 0 | 406248 | 08/27/76 | 11 | 17 | 10.9 | - | - | 6.9 | 40 | 4 | 2 | 7 | 5 | 8 | 2 | 3 | 2 | 1 | 5 | 3 | 2 | 1 | - | - | - | - | - | - | 0.19 |
| 02 | 66.3556 | 158.4117 | 2 | 27 | 0 | 406249 | 08/27/76 | 11 | 17 | 11.0 | - | - | 6.4 | 42 | 8 | 2 | 7 | 5 | 8 | 2 | 3 | 2 | 1 | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.02 |
| 02 | 66.3267 | 158.2942 | 2 | 29 | 0 | 406250 | 08/27/76 | 11 | 17 | 15.0 | | S | 7.3 | 19 | | 2 | 7 | - | - | | 3 | 2 | | 4 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.22 |
| 02 | 66.3375 | 159.0847 | 2 | 29 | 0 | 406251 | 08/27/76 | 11 | 14 | 15.3 | | S | 10.2 | 101 | | 2 | 7 | 6 | 8 | | 3 | 1 | | 2 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.22 |
| 02 | 66.3192 | 159.1333 | 2 | 29 | 0 | 406252 | 08/27/76 | 11 | 15 | 15.9 | | S | 9.5 | 128 | | 2 | 7 | 6 | 7 | | 3 | 2 | | 2 | 4 | 2 | 2 | | 1 | - | - | - | - | 0.01 |
| 02 | 66.2919 | 159.1458 | 2 | 29 | 0 | 406253 | 08/27/76 | 11 | 16 | 15.9 | | S | 8.6 | 42 | | 2 | 7 | - | - | | 3 | 2 | | 2 | 3 | 2 | 2 | | 1 | - | - | - | - | 0.04 |

## APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

②

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02-66.5567-158.2967-2-27- | 0-406140 | 5220 | 87 | -25 | -4 | 11063 | 2544 | 95 | 59 | 37 | 47 | 199 | -50 |
| 02-66.5250-158.2989-2-27- | 0-406141 | 4135 | 59 | -25 | -4 | 10072 | 1986 | 88 | 54 | 55 | 36 | 199 | -50 |
| 02-66.5792-158.2800-2-27- | 0-406142 | 5342 | 71 | 29 | -4 | 9483 | 2588 | 67 | 64 | 59 | 36 | 199 | -50 |
| 02-66.5400-158.3458-2-27- | 0-406143 | 4784 | 96 | 28 | -4 | 8259 | 2207 | 57 | 70 | 72 | 37 | 199 | -50 |
| 02-66.5203-158.3767-2-27- | 0-406144 | 4433 | 71 | -25 | -4 | 7973 | 2173 | 58 | 57 | 51 | 31 | 199 | -50 |
| 02-66.5225-158.4408-2-27- | 0-406145 | 5142 | 73 | -25 | -4 | 6918 | 2259 | 63 | 76 | 57 | 41 | 199 | -50 |
| 02-66.5500-158.4433-2-27- | 0-406146 | 4909 | 77 | 30 | -4 | 5876 | 2000 | 59 | 65 | 46 | 29 | 199 | -50 |
| 02-66.5792-158.4458-2-27- | 0-406147 | 5672 | 87 | 26 | -4 | 6169 | 2204 | 56 | 71 | 55 | 25 | 199 | -50 |
| 02-66.5806-158.3842-2-27- | 0-406148 | 5294 | -55 | 26 | -4 | 6247 | 2174 | 57 | 59 | 55 | 28 | 199 | -50 |
| 02-66.5372-158.5278-2-29- | 0-406149 | 2565 | 99 | 36 | -4 | 4191 | 1051 | 50 | 78 | 70 | 23 | 199 | -50 |
| 02-66.5253-158.4917-2-27- | 0-406150 | 3026 | -55 | -25 | -4 | 4558 | 1388 | 49 | 68 | 44 | 17 | 199 | -50 |
| 02-66.5417-158.5928-2-29- | 0-406151 | 1826 | 85 | -25 | -4 | 2012 | 942 | 34 | 45 | 26 | 13 | 199 | -50 |
| 02-66.5258-158.5925-2-27- | 0-406152 | 2334 | -55 | 30 | -4 | 2553 | 1182 | 40 | 58 | 35 | 17 | 199 | -50 |
| 02-66.5000-158.5933-2-27- | 0-406153 | 16879 | 102 | -25 | -4 | 155 | 3496 | 30 | 85 | 34 | 11 | 199 | -50 |
| 02-66.4642-158.5792-2-27- | 0-406154 | 19730 | 89 | -25 | -4 | 652 | 3844 | 58 | 43 | -25 | 24 | 199 | -50 |
| 02-66.4675-158.5281-2-27- | 0-406155 | 15248 | 66 | -25 | -4 | 685 | 3162 | 61 | 58 | -25 | 24 | 199 | -50 |
| 02-66.4825-158.5006-2-27- | 0-406156 | 14616 | 82 | 33 | -4 | 271 | 3123 | 37 | 72 | 42 | 13 | 199 | -50 |
| 02-66.4922-158.4467-2-27- | 0-406157 | 18531 | 83 | 28 | -4 | 556 | 4058 | 47 | 67 | 46 | 20 | 199 | -50 |
| 02-66.4617-158.4467-2-27- | 0-406158 | 16410 | 122 | -25 | -4 | 237 | 3276 | 37 | 54 | 47 | 13 | 199 | -50 |
| 02-66.4933-158.3700-2-27- | 0-406159 | 17442 | 101 | -25 | -4 | 924 | 3655 | 74 | 60 | -25 | 32 | 199 | -50 |
| 02-66.4894-158.2942-2-27- | 0-406160 | 19630 | 84 | -25 | -4 | 755 | 4426 | 63 | 51 | 68 | 33 | 199 | -50 |
| 02-66.4672-158.3667-2-27- | 0-406161 | 20666 | 91 | -25 | -4 | 1635 | 4635 | 118 | 72 | 65 | 43 | 199 | -50 |
| 02-66.4558-158.3153-2-27- | 0-406162 | 24869 | 121 | 30 | -4 | 1798 | 5265 | 130 | 64 | 83 | 44 | 199 | -50 |
| 02-66.4350-158.2858-2-27- | 0-406163 | 14956 | 104 | 27 | -4 | 976 | 3378 | 81 | 81 | 61 | 26 | 199 | -50 |
| 02-66.4258-158.3550-2-27- | 0-406164 | 21320 | 98 | 29 | -4 | 703 | 4472 | 73 | 68 | 87 | 24 | 199 | -50 |
| 02-66.4244-158.4200-2-27- | 0-406165 | 23485 | 69 | -25 | -4 | 374 | 4864 | 58 | 55 | 31 | 16 | 199 | -50 |
| 02-66.3506-158.2750-2-27- | 0-406166 | 20925 | 117 | -25 | -4 | 5002 | 5743 | 150 | 77 | 99 | 169 | 199 | -50 |
| 02-66.4342-158.5063-2-29- | 0-406167 | 4977 | 67 | 36 | -4 | 1104 | 2186 | 19 | 82 | 67 | 15 | 199 | -50 |
| 02-66.4258-158.5800-2-29- | 0-406168 | 3841 | 75 | 41 | -4 | 940 | 1687 | 16 | 72 | 50 | 14 | 199 | -50 |
| 02-66.3422-158.0858-2-29- | 0-406169 | 3619 | 88 | 39 | -4 | 2420 | 1387 | 23 | 78 | 70 | 22 | 199 | -50 |
| 02-66.3200-158.0725-2-29- | 0-406170 | 3234 | 88 | 35 | -4 | 2178 | 1232 | 20 | 70 | 90 | 18 | 199 | -50 |
| 02-66.3244-158.1392-2-27- | 0-406172 | 13995 | 88 | 30 | -4 | 230 | 3334 | 13 | 82 | 75 | 16 | 199 | -50 |
| 02-66.3383-158.1525-2-27- | 0-406173 | 20266 | 106 | 28 | -4 | 231 | 4357 | 17 | 59 | 87 | 16 | 199 | -50 |
| 02-66.3167-158.2339-2-27- | 0-406178 | 19507 | 108 | 28 | -4 | 3183 | 4820 | 212 | 64 | 94 | 16 | 199 | -50 |
| 02-66.3400-158.2583-2-27- | 0-406179 | 19257 | 117 | 30 | -4 | 3488 | 5030 | 231 | 92 | 92 | 20 | 199 | -50 |
| 02-66.3567-158.7175-2-29- | 0-406210 | 6318 | 105 | 37 | -4 | 3048 | 3343 | 21 | 93 | 97 | 19 | 199 | -50 |
| 02-66.3492-158.6633-2-29- | 0-406211 | 5860 | 93 | 38 | -4 | 952 | 2465 | 69 | 67 | 72 | 19 | 199 | -50 |
| 02-66.3358-158.6033-2-27- | 0-406212 | 7663 | 119 | 40 | -4 | 9279 | 3653 | 297 | 91 | 98 | 24 | 199 | -50 |
| 02-66.3350-158.5292-2-27- | 0-406213 | 7373 | 108 | 38 | -4 | 7759 | 3339 | 167 | 82 | 87 | 21 | 199 | -50 |
| 02-66.3222-158.7222-2-27- | 0-406214 | 15859 | 95 | 31 | -4 | 6401 | 5628 | 225 | 87 | 89 | 121 | 199 | -50 |
| 02-66.3150-158.6525-2-27- | 0-406215 | 21638 | 126 | -25 | -4 | 27889 | 11408 | 735 | 113 | 210 | 470 | 199 | 76 |
| 02-66.3117-158.5633-2-27- | 0-406216 | 17084 | 116 | 30 | -4 | 4101 | 5131 | 151 | 77 | 74 | 92 | 199 | -50 |
| 02-66.3044-158.5267-2-27- | 0-406217 | 14862 | 121 | 28 | -4 | 2920 | 4472 | 134 | 83 | 60 | 69 | 199 | -50 |
| 02-66.3067-158.4633-2-27- | 0-406219 | 16980 | 105 | 29 | -4 | 4512 | 5509 | 167 | 95 | 85 | 92 | 199 | -50 |
| 02-66.3167-158.3767-2-27- | 0-406247 | 4279 | 134 | 38 | -4 | 13956 | 2392 | 434 | 105 | 119 | 35 | 199 | -50 |
| 02-66.3367-158.3833-2-27- | 0-406248 | 3858 | 90 | 32 | -4 | 17795 | 3280 | 309 | 95 | 104 | 33 | 199 | 56 |
| 02-66.3556-158.4117-2-27- | 0-406249 | 3462 | 82 | 44 | -4 | 12153 | 2237 | 258 | 90 | 97 | 32 | 199 | -50 |
| 02-66.3267-158.2942-2-29- | 0-406250 | 2027 | 94 | 40 | -4 | 1271 | 869 | 30 | 89 | 81 | 15 | 199 | -50 |
| 02-66.3375-159.0847-2-29- | 0-406251 | 10373 | 114 | -25 | -4 | 6092 | 4893 | 156 | 76 | 79 | 77 | 199 | -50 |
| 02-66.3192-159.1333-2-29- | 0-406252 | 9562 | 110 | 46 | -4 | 1622 | 4024 | 33 | 81 | 77 | 17 | 199 | -50 |
| 02-66.2919-159.1458-2-29- | 0-406253 | 16911 | 109 | 28 | -4 | 1833 | 6420 | 29 | 98 | 67 | 31 | 199 | 56 |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (ϕ) UNITS IN ppb |
| 02- | 66.2667- | 159.1667- | 2- | 29- | | 0- | 406254- | 08/27/76- | 12- | 16- | 15.4- | -S- | 10.2- | 89- | | -2- | 7- | 5- | 6- | -3- | 2- | -2- | 4- | 2- | 2- | -1- | - | - | - | - | 0.17 |
| 02- | 66.2417- | 159.1283- | 2- | 27- | | 0- | 406255- | 08/27/76- | 12- | 16- | 12.2- | - - | 9.3- | 94- | | 2- | 2- | 7- | - | -3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.25 |
| 02- | 66.2300- | 159.2430- | 2- | 27- | | 0- | 406256- | 08/27/76- | 12- | 15- | 12.0- | - - | 9.2- | 104- | | 0- | 2- | 7- | 5- | 6- | 3- | 2- | 4- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.20 |
| 02- | 66.1983- | 159.2669- | 2- | 27- | | 0- | 406257- | 08/27/76- | 12- | 17- | 12.4- | - - | 8.9- | 87- | | 4- | 2- | 7- | 5- | 6- | 3- | 2- | 4- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.10 |
| 02- | 66.2022- | 159.3392- | 2- | 27- | | 0- | 406258- | 08/27/76- | 12- | 17- | 12.0- | - - | 9.1- | 114- | | 8- | 2- | 7- | 3- | 6- | 3- | 3- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.1667- | 159.3133- | 2- | 27- | | 0- | 406259- | 08/27/76- | 12- | 16- | 11.7- | - - | 8.7- | 107- | | 8- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2058- | 159.4433- | 2- | 27- | | 0- | 406260- | 08/27/76- | 12- | 17- | 12.2- | - - | 9.2- | 94- | | 0- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.1617- | 159.4567- | 2- | 27- | | 0- | 406261- | 08/27/76- | 12- | 16- | 12.7- | - - | 8.7- | 114- | | 2- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.17 |
| 02- | 66.1583- | 159.5261- | 2- | 27- | | 0- | 406262- | 08/27/76- | 12- | 17- | 12.4- | - - | 8.8- | 118- | | 4- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 66.2267- | 159.1475- | 2- | 29- | | 0- | 406265- | 08/27/76- | 12- | 14- | 16.5- | -S- | 11.2- | 171- | | -2- | 7- | 5- | 8- | -3- | 1- | -2- | 3- | 2- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 66.1975- | 159.1600- | 2- | 29- | | 0- | 406266- | 08/27/76- | 12- | 16- | 16.6- | C-S- | 9.3- | 67- | | -2- | 7- | - | - | -2- | 3- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.18 |
| 02- | 66.1800- | 159.1825- | 2- | 29- | | 0- | 406267- | 08/27/76- | 12- | 16- | 15.8- | C-S- | 8.5- | 195- | | -2- | 7- | - | - | -3- | 1- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.50* |
| 02- | 66.1633- | 159.1600- | 2- | 29- | | 0- | 406268- | 08/27/76- | 12- | 16- | 15.2- | -S- | 8.8- | 342- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.19 |
| 02- | 66.1383- | 159.1739- | 2- | 29- | | 0- | 406269- | 08/27/76- | 12- | 16- | 15.8- | -S- | 9.3- | 42- | | -2- | 7- | 6- | 6- | -3- | 2- | -1- | 3- | 2- | 2- | -1- | - | - | - | - | 0.49 |
| 02- | 66.1433- | 159.2389- | 2- | 29- | | 0- | 406273- | 08/27/76- | 12- | 16- | 14.7- | -S- | 7.9- | 77- | | -2- | 7- | 6- | 8- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.58 |
| 02- | 66.1633- | 159.2303- | 2- | 29- | | 0- | 406274- | 08/27/76- | 12- | 17- | 15.2- | -S- | 8.1- | 114- | | -2- | 7- | - | - | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.43 |
| 02- | 66.1886- | 159.2392- | 2- | 29- | | 0- | 406275- | 08/27/76- | 12- | 16- | 15.2- | -S- | 7.9- | 121- | | -2- | 7- | 6- | 8- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.98 |
| 02- | 66.3633- | 159.5767- | 2- | 29- | | 0- | 406301- | 08/27/76- | 15- | 15- | 17.6- | -S- | 8.0- | 136- | | -2- | 7- | 5- | 6- | -3- | 4- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 6.38 |
| 02- | 66.3633- | 159.5186- | 2- | 29- | | 0- | 406302- | 08/27/76- | 15- | 17- | 15.8- | -S- | 7.8- | 88- | | -2- | 7- | 6- | 8- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.33 |
| 02- | 66.3303- | 159.5333- | 2- | 29- | | 0- | 406303- | 08/27/76- | 15- | 17- | 15.4- | -S- | 8.0- | 117- | | -2- | 7- | 6- | 7- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.19 |
| 02- | 66.3639- | 159.4772- | 2- | 29- | | 0- | 406304- | 08/27/76- | 15- | 16- | 16.2- | -S- | 7.7- | 112- | | -2- | 7- | 6- | 7- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.19 |
| 02- | 66.3583- | 159.4375- | 2- | 29- | | 0- | 406305- | 08/27/76- | 15- | 16- | 16.2- | -S- | 7.4- | 94- | | -2- | 7- | 6- | 6- | -3- | 4- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.49 |
| 02- | 66.3367- | 159.4900- | 2- | 29- | | 0- | 406306- | 08/27/76- | 15- | 17- | 16.4- | -S- | 7.4- | 42- | | -2- | 7- | - | - | -3- | 1- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.02 |
| 02- | 66.3183- | 159.4200- | 2- | 29- | | 0- | 406307- | 08/27/76- | 15- | 17- | 16.2- | -S- | 7.5- | 35- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.20* |
| 02- | 66.3167- | 159.3406- | 2- | 27- | | 0- | 406309- | 08/27/76- | 15- | 16- | 14.4- | - - | 7.2- | 87- | | 21- | 2- | 7- | 3- | 6- | 3- | 3- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.72 |
| 02- | 66.2900- | 159.3367- | 2- | 27- | | 0- | 406310- | 08/27/76- | 15- | 16- | 13.9- | - - | 7.2- | 109- | | 8- | 2- | 7- | - | -3- | 2- | 2- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 3.30 |
| 02- | 66.2739- | 159.3683- | 2- | 27- | | 0- | 406311- | 08/27/76- | 15- | 16- | 15.1- | - - | 6.4- | 90- | | 21- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.05 |
| 02- | 66.2550- | 159.3783- | 2- | 27- | | 0- | 406312- | 08/27/76- | 15- | 16- | 14.4- | - - | 7.4- | 87- | | 17- | 2- | 7- | 6- | 6- | 3- | 2- | 1- | 2- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.37 |
| 02- | 66.2567- | 159.4350- | 2- | 27- | | 0- | 406313- | 08/27/76- | 15- | 16- | 14.2- | - - | 7.2- | 90- | | 17- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.34 |
| 02- | 66.2883- | 159.2694- | 2- | 29- | | 0- | 406314- | 08/27/76- | 16- | 15- | 16.1- | -S- | 7.9- | 63- | | -2- | 7- | 6- | 8- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.08 |
| 02- | 66.2908- | 159.2219- | 2- | 29- | | 0- | 406315- | 08/27/76- | 16- | 16- | 17.1- | C-S- | 8.1- | 47- | | -2- | 7- | - | - | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.20* |
| 02- | 66.3133- | 159.2200- | 2- | 29- | | 0- | 406316- | 08/27/76- | 16- | 16- | 15.3- | -S- | 7.5- | 33- | | -2- | 7- | 5- | 6- | -3- | 4- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.23 |
| 02- | 66.3367- | 159.2300- | 2- | 29- | | 0- | 406317- | 08/27/76- | 16- | 16- | 15.4- | -S- | 7.2- | 28- | | -2- | 7- | 6- | 6- | -3- | 5- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.20* |
| 02- | 66.2900- | 159.4283- | 2- | 29- | | 0- | 406318- | 08/27/76- | 16- | 16- | 16.7- | -S- | 7.6- | 55- | | -2- | 7- | 6- | 6- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.03 |
| 02- | 66.2733- | 159.4358- | 2- | 29- | | 0- | 406319- | 08/27/76- | 16- | 16- | 16.4- | -S- | 7.9- | 77- | | -2- | 7- | 5- | 6- | -3- | 2- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | 0.10 |
| 02- | 66.2258- | 159.4883- | 2- | 29- | | 0- | 406320- | 08/27/76- | 16- | 15- | 16.5- | -S- | 8.0- | 68- | | -2- | 7- | 6- | 8- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.04 |
| 02- | 66.2300- | 159.3700- | 2- | 29- | | 0- | 406321- | 08/27/76- | 16- | 16- | 16.4- | -S- | 7.9- | 72- | | -2- | 7- | 6- | 6- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | 0.20 |
| 02- | 66.2925- | 159.5500- | 2- | 27- | | 0- | 406322- | 08/27/76- | 16- | 16- | 12.2- | - - | 7.8- | 119- | | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 2- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.74 |
| 02- | 66.2533- | 159.5839- | 2- | 27- | | 0- | 406325- | 08/27/76- | 16- | 16- | 12.7- | - - | 7.7- | 124- | | 4- | 2- | 7- | 6- | 6- | 2- | 2- | 2- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 0.70* |

# APPENDIX II-A (continued). Elemental Concentrations for Water Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 66.2667- | 159.1667- | 2- | 29- | | 0-406254 | 11557 | 143 | 30 | -4 | 8404 | 5896 | 277 | 92 | 86 | 114 | 199 | 133 |
| 02- | 66.2417- | 159.1283- | 2- | 27- | | 0-406255 | 6022 | 112 | 31 | -4 | 3986 | 2265 | 62 | 82 | 38 | 35 | 199 | -50 |
| 02- | 66.2300- | 159.2436- | 2- | 27- | | 0-406256 | 9833 | 89 | -25 | -4 | 278 | 2199 | 12 | 68 | -25 | 8 | 199 | -50 |
| 02- | 66.1983- | 159.2669- | 2- | 27- | | 0-406257 | 12223 | 90 | -25 | -4 | 1733 | 4707 | 57 | 81 | 55 | 30 | 199 | -50 |
| 02- | 66.2022- | 159.3392- | 2- | 27- | | 0-406258 | 18840 | 57 | -25 | -4 | 1963 | 6812 | 70 | -25 | 131 | 31 | 199 | -50 |
| 02- | 66.1667- | 159.3133- | 2- | 27- | | 0-406259 | 13021 | -55 | -25 | -4 | 1220 | 4718 | 47 | -25 | 96 | 20 | 199 | -50 |
| 02- | 66.2058- | 159.4433- | 2- | 27- | | 0-406260 | 14048 | 77 | -25 | -4 | 1934 | 5546 | 63 | -25 | 112 | 30 | 199 | -50 |
| 02- | 66.1617- | 159.4567- | 2- | 27- | | 0-406261 | 14888 | -55 | -25 | -4 | 3785 | 5842 | 101 | 29 | 127 | 70 | 199 | -50 |
| 02- | 66.1583- | 159.5261- | 2- | 27- | | 0-406262 | 12597 | -55 | -25 | -4 | 2024 | 4856 | 66 | 32 | 118 | 41 | 199 | -50 |
| 02- | 66.2267- | 159.1475- | 2- | 29- | | 0-406265 | 19489 | -55 | -25 | -4 | 2957 | 10413 | 90 | 40 | 132 | 77 | 199 | 78 |
| 02- | 66.1975- | 159.1600- | 2- | 29- | | 0-406266 | 10486 | -55 | 39 | -4 | 1479 | 3277 | 28 | 53 | 150 | 25 | 199 | -50 |
| 02- | 66.1800- | 159.1825- | 2- | 29- | | 0-406267 | 25155 | 64 | 37 | -4 | 1338 | 7194 | 57 | 46 | 158 | 30 | 199 | -50 |
| 02- | 66.1633- | 159.1600- | 2- | 29- | | 0-406268 | 10560 | 75 | 55 | -4 | 8712 | 5002 | 128 | 78 | 204 | 44 | 199 | -50 |
| 02- | 66.1383- | 159.1739- | 2- | 29- | | 0-406269 | 58354 | 72 | 35 | -4 | 3218 | 15270 | 637 | -25 | 200 | 44 | 199 | -50 |
| 02- | 66.1433- | 159.2389- | 2- | 29- | | 0-406273 | 9844 | -55 | 58 | -4 | 4966 | 4185 | 80 | 84 | 201 | 37 | 199 | -50 |
| 02- | 66.1633- | 159.2383- | 2- | 29- | | 0-406274 | 10757 | 60 | 60 | -4 | 8680 | 5182 | 111 | 94 | 241 | 60 | 199 | -50 |
| 02- | 66.1886- | 159.2392- | 2- | 29- | | 0-406275 | 9047 | -55 | 49 | -4 | 4701 | 3886 | 74 | 55 | 154 | 32 | 199 | -50 |
| 02- | 66.3633- | 159.5767- | 2- | 29- | | 0-406301 | 40007 | 135 | 34 | -4 | 134000 | 31631 | 2659 | 102 | 630 | 44 | 199 | 469 |
| 02- | 66.3633- | 159.5186- | 2- | 29- | | 0-406302 | 11668 | 58 | 46 | -4 | 3244 | 4128 | 60 | 79 | 148 | 26 | 199 | -50 |
| 02- | 66.3303- | 159.5333- | 2- | 29- | | 0-406303 | 14220 | 108 | 57 | -4 | 3933 | 4913 | 79 | 83 | 168 | 29 | 199 | -50 |
| 02- | 66.3639- | 159.4772- | 2- | 29- | | 0-406304 | 14765 | 59 | 38 | -4 | 17140 | 7338 | 310 | 68 | 184 | 80 | 199 | -50 |
| 02- | 66.3583- | 159.4375- | 2- | 29- | | 0-406305 | 12502 | 63 | 56 | -4 | 11202 | 5456 | 243 | 80 | 235 | 26 | 199 | -50 |
| 02- | 66.3367- | 159.4900- | 2- | 29- | | 0-406306 | 5877 | 75 | 71 | -4 | 4464 | 2351 | 54 | 102 | 240 | 33 | 297 | -50 |
| 02- | 66.3183- | 159.4200- | 2- | 29- | | 0-406307 | | | | | | | | | | | | |
| 02- | 66.3167- | 159.3406- | 2- | 27- | | 0-406309 | 14102 | 96 | 50 | -4 | 12968 | 7926 | 372 | 88 | 251 | 144 | 199 | -50 |
| 02- | 66.2900- | 159.3367- | 2- | 27- | | 0-406310 | 20178 | 76 | -25 | -4 | 12412 | 9857 | 309 | 64 | 141 | 202 | 199 | -50 |
| 02- | 66.2739- | 159.3683- | 2- | 27- | | 0-406311 | 13372 | 57 | -25 | -4 | 7859 | 6666 | 248 | 37 | 61 | 74 | 199 | -50 |
| 02- | 66.2550- | 159.3783- | 2- | 27- | | 0-406312 | 10142 | -55 | -25 | -4 | 5448 | 4944 | 199 | -25 | 47 | 58 | 199 | -50 |
| 02- | 66.2567- | 159.4350- | 2- | 27- | | 0-406313 | 16904 | -55 | -25 | -4 | 11011 | 8478 | 359 | -25 | 61 | 89 | 199 | -50 |
| 02- | 66.2883- | 159.2694- | 2- | 29- | | 0-406314 | 7906 | -55 | -25 | -4 | 1146 | 2475 | 32 | -25 | 55 | 9 | 199 | -50 |
| 02- | 66.2908- | 159.2219- | 2- | 29- | | 0-406315 | 7395 | -55 | -25 | -4 | 852 | 2326 | 24 | -25 | 33 | 9 | 199 | -50 |
| 02- | 66.3133- | 159.2200- | 2- | 29- | | 0-406316 | 6125 | -55 | -25 | -4 | 10059 | 3240 | 339 | -25 | 63 | 267 | 199 | -50 |
| 02- | 66.3367- | 159.2300- | 2- | 29- | | 0-406317 | 4267 | -55 | -25 | -4 | 5739 | 1706 | 182 | -25 | 33 | 30 | 199 | -50 |
| 02- | 66.2900- | 159.4283- | 2- | 29- | | 0-406318 | 6694 | -55 | -25 | -4 | 2802 | 2888 | 38 | -25 | 46 | 13 | 199 | -50 |
| 02- | 66.2733- | 159.4358- | 2- | 29- | | 0-406319 | 10420 | -55 | -25 | -4 | 4938 | 4551 | 93 | 30 | 65 | 40 | 199 | -50 |
| 02- | 66.2258- | 159.4883- | 2- | 29- | | 0-406320 | 7991 | -55 | -25 | -4 | 1236 | 2934 | 38 | 26 | 49 | 19 | 199 | -50 |
| 02- | 66.2300- | 159.3700- | 2- | 29- | | 0-406321 | 7445 | -55 | -25 | -4 | 1063 | 2708 | 36 | -25 | 28 | 11 | 199 | 73 |
| 02- | 66.2925- | 159.5500- | 2- | 27- | | 0-406322 | 13550 | 59 | -25 | -4 | 15178 | 9144 | 274 | 36 | 93 | 44 | 199 | 95 |
| 02- | 66.2533- | 159.5839- | 2- | 27- | | 0-406325 | 18321 | -55 | -25 | -4 | 24316 | 11515 | 456 | 37 | 161 | 47 | 199 | 223 |

APPENDIX II-B

SELAWIK

FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SEDIMENTS

ANALYZED FOR URANIUM BY DELAYED-NEUTRON COUNTING AND FOR

FORTY-TWO ADDITIONAL ELEMENTS BY X-RAY FLUORESCENCE,

ARC-SOURCE EMISSION SPECTROGRAPHY, AND NEUTRON ACTIVATION

(Pages 94 through 129)

Note that four pages, numbered 1 through 4 in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

1 - Lists field data and uranium concentrations determined by delayed-neutron counting.
2 - Lists concentrations of 11 elements determined by x-ray fluorescence and arc-source emission spectrography.
3 and 4 - List concentrations of 31 elements determined by neutron activation analysis and computed U/Th ratios.

(See Appendix IV for Procedures and Codes to Listings)

# APPENDIX II-B Elemental Concentrations for Sediment Samples-Selawik

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SONTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.9844- | 158.7233- | 2- | 12- | | 0-404589- | 08/16/76- | 13- | 14- | 11.6- | C- | - | - | - | - | 26- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 66.9217- | 158.5528- | 2- | 12- | | 0-404591- | 08/16/76- | 13- | 14- | 10.7- | C- | - | - | - | - | 19- | 2- | 8- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.9492- | 158.5350- | 2- | 12- | | 0-404592- | 08/16/76- | 13- | 13- | 14.0- | C- | - | - | - | - | 13- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.9200- | 158.4808- | 2- | 12- | | 0-404593- | 08/16/76- | 13- | 14- | 11.2- | C- | - | - | - | - | 19- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.9617- | 158.4733- | 2- | 12- | | 0-404594- | 08/16/76- | 13- | 13- | 11.5- | C- | - | - | - | - | 6- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.9507- | 158.3950- | 2- | 12- | | 0-404595- | 08/16/76- | 14- | 13- | 12.1- | C- | - | - | - | - | 9- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.9467- | 158.3458- | 2- | 12- | | 0-404596- | 08/16/76- | 14- | 13- | 10.8- | C- | - | - | - | - | 19- | 2- | 7- | 4- | 8- | 1- | 2- | 1- | 1- | 5- | 1- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.6233- | 159.3667- | 2- | 13- | | 0-405161- | 08/22/76- | 9- | 11- | 14.6- | -S- | 7.0- | | 13- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.6433- | 159.3167- | 2- | 13- | | 0-405162- | 08/22/76- | 9- | 11- | 14.5- | -S- | 7.1- | | 17- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.5933- | 159.3933- | 2- | 13- | | 0-405163- | 08/22/76- | 9- | 11- | 14.8- | -S- | 7.4- | | 22- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.5733- | 159.3283- | 2- | 13- | | 0-405164- | 08/22/76- | 9- | 11- | 14.9- | -S- | 7.4- | | 26- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.40 |
| 02- | 66.5500- | 159.3633- | 2- | 13- | | 0-405165- | 08/22/76- | 9- | 11- | 14.3- | -S- | 7.3- | | 14- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 2.90 |
| 02- | 66.5367- | 159.3700- | 2- | 13- | | 0-405166- | 08/22/76- | 9- | 11- | 14.2- | -S- | 7.2- | | 20- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.5350- | 159.2733- | 2- | 13- | | 0-405167- | 08/22/76- | 7- | 11- | 13.5- | -S- | 7.1- | | 39- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 1- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.5539- | 159.2717- | 2- | 13- | | 0-405168- | 08/22/76- | 9- | 11- | 13.6- | -S- | 7.2- | | 39- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 1- | 3- | -1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.6050- | 159.2558- | 2- | 13- | | 0-405169- | 08/22/76- | 9- | 10- | 15.1- | -S- | 7.5- | | 19- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 2.90 |
| 02- | 66.6178- | 159.2483- | 2- | 13- | | 0-405170- | 08/22/76- | 9- | 11- | 14.6- | -S- | 7.3- | | 23- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.00 |
| 02- | 66.6339- | 159.2633- | 2- | 13- | | 0-405171- | 08/22/76- | 9- | 11- | 14.7- | -S- | 7.4- | | 27- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.6467- | 159.1733- | 2- | 13- | | 0-405172- | 08/22/76- | 10- | 10- | 14.6- | -S- | 7.3- | | 17- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.40 |
| 02- | 66.6272- | 159.1283- | 2- | 13- | | 0-405173- | 08/22/76- | 10- | 10- | 14.7- | -S- | 7.4- | | 23- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.40 |
| 02- | 66.5833- | 159.1200- | 2- | 13- | | 0-405174- | 08/22/76- | 10- | 11- | 14.6- | -S- | 7.2- | | 49- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 2.60 |
| 02- | 66.5267- | 159.1625- | 2- | 13- | | 0-405175- | 08/22/76- | 10- | 11- | 14.5- | -S- | 7.5- | | 28- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.5600- | 159.1017- | 2- | 13- | | 0-405176- | 08/22/76- | 10- | 11- | 14.4- | -S- | 7.4- | | 22- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.5133- | 159.1175- | 2- | 13- | | 0-405177- | 08/22/76- | 10- | 11- | 13.3- | -S- | 7.3- | | 63- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.4900- | 159.1400- | 2- | 13- | | 0-405178- | 08/22/76- | 10- | 11- | 14.2- | -S- | 7.7- | | 19- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 2.90 |
| 02- | 66.4500- | 159.1442- | 2- | 13- | | 0-405179- | 08/22/76- | 10- | 11- | 14.3- | -S- | 7.4- | | 22- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 2.40 |
| 02- | 66.4700- | 159.1392- | 2- | 13- | | 0-405180- | 08/22/76- | 10- | 10- | 14.2- | -S- | 7.4- | | 37- | | -7- | 2- | 6- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.4200- | 159.1617- | 2- | 13- | | 0-405181- | 08/22/76- | 10- | 10- | 14.1- | -S- | 7.5- | | 45- | | -2- | 7- | 6- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.3650- | 159.1383- | 2- | 13- | | 0-405182- | 08/22/76- | 10- | 11- | 14.2- | -S- | 7.6- | | 51- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.40 |
| 02- | 66.3867- | 159.1511- | 2- | 13- | | 0-405183- | 08/22/76- | 10- | 11- | 14.1- | -S- | 7.5- | | 19- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.3667- | 159.2467- | 2- | 13- | | 0-405184- | 08/22/76- | 10- | 11- | 14.2- | -S- | 7.3- | | 21- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.00 |
| 02- | 66.3700- | 159.2733- | 2- | 13- | | 0-405185- | 08/22/76- | 10- | 11- | 14.4- | -S- | 7.3- | | 25- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.3778- | 159.3183- | 2- | 13- | | 0-405186- | 08/22/76- | 10- | 11- | 14.5- | -S- | 7.3- | | 28- | | -2- | 7- | 6- | 7- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.3767- | 159.3667- | 2- | 13- | | 0-405187- | 08/22/76- | 10- | 11- | 13.8- | -S- | 7.2- | | 34- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.4000- | 159.2467- | 2- | 13- | | 0-405188- | 08/22/76- | 10- | 11- | 13.5- | -S- | 7.3- | | 61- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.4150- | 159.2517- | 2- | 13- | | 0-405189- | 08/22/76- | 10- | 11- | 13.5- | -S- | 7.3- | | 67- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.4667- | 159.2658- | 2- | 13- | | 0-405190- | 08/22/76- | 10- | 11- | 14.2- | -S- | 7.7- | | 35- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.00 |
| 02- | 66.4694- | 159.2042- | 2- | 13- | | 0-405191- | 08/22/76- | 11- | 11- | 14.3- | -S- | 7.6- | | 44- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.4667- | 159.3567- | 2- | 13- | | 0-405192- | 08/22/76- | 11- | 11- | 13.2- | -S- | 7.6- | | 47- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.4917- | 159.2717- | 2- | 13- | | 0-405193- | 08/22/76- | 11- | 11- | 14.6- | -S- | 8.8- | | 51- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.00 |
| 02- | 66.5117- | 159.2658- | 2- | 13- | | 0-405194- | 08/22/76- | 11- | 11- | 14.5- | -S- | 8.9- | | 60- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 2.90 |
| 02- | 66.5000- | 159.3333- | 2- | 13- | | 0-405195- | 08/22/76- | 11- | 11- | 14.1- | -S- | 9.0- | | 31- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.4933- | 159.4150- | 2- | 13- | | 0-405196- | 08/22/76- | 11- | 11- | 14.1- | -S- | 8.6- | | 23- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.4600- | 159.5792- | 2- | 13- | | 0-405210- | 08/22/76- | 13- | 12- | 14.2- | -S- | 7.4- | | 32- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.90 |
| 02- | 66.4583- | 159.5567- | 2- | 13- | | 0-405211- | 08/22/76- | 13- | 11- | 14.3- | -S- | 7.5- | | 37- | | -2- | 7- | 6- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.40 |
| 02- | 66.4700- | 159.4833- | 2- | 13- | | 0-405212- | 08/22/76- | 13- | 12- | 12.8- | -S- | 7.4- | | 55- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.4500- | 159.4717- | 2- | 13- | | 0-405213- | 08/22/76- | 13- | 11- | 13.2- | -S- | 7.5- | | 70- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.20 |
| 02- | 66.4283- | 159.3533- | 2- | 13- | | 0-405214- | 08/22/76- | 14- | 12- | 14.2- | -S- | 7.4- | | 24- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.50 |
| 02- | 66.4083- | 159.3050- | 2- | 13- | | 0-405215- | 08/22/76- | 14- | 12- | 14.4- | -S- | 7.5- | | 30- | | -2- | 7- | 5- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 2.80 |
| 02- | 66.4183- | 159.4517- | 2- | 13- | | 0-405216- | 08/22/76- | 14- | 12- | 14.6- | -S- | 7.3- | | 136- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.30 |
| 02- | 66.4000- | 159.4117- | 2- | 13- | | 0-405217- | 08/22/76- | 14- | 12- | 14.5- | -S- | 7.2- | | 116- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | - | - | 3.60 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(2)

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.9844- | 158.7233- | 2- | 12- | | 0-404589 | -5 | -5 | 6 | 14 | -20 | 17 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.9217- | 158.5528- | 2- | 12- | | 0-404591 | -5 | -5 | -5 | 29 | 31 | 31 | -5 | -10 | -15 | -1 | 13 |
| 02- | 66.9492- | 158.5350- | 2- | 12- | | 0-404592 | -5 | -5 | -5 | 30 | 30 | 35 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.9200- | 158.4800- | 2- | 12- | | 0-404593 | -5 | -5 | 5 | 31 | 27 | 31 | -5 | -10 | -15 | 1 | 5 |
| 02- | 66.9617- | 158.4733- | 2- | 12- | | 0-404594 | -5 | -5 | 6 | 27 | -20 | -15 | -5 | -10 | -15 | 1 | 10 |
| 02- | 66.9567- | 158.3950- | 2- | 12- | | 0-404595 | -5 | -5 | -5 | 33 | 31 | 22 | -5 | -10 | -15 | 2 | 36 |
| 02- | 66.9467- | 158.3450- | 2- | 12- | | 0-404596 | -5 | -5 | -5 | 31 | -20 | 81 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.6233- | 159.3667- | 2- | 13- | | 0-405161 | -5 | -5 | -5 | 33 | -20 | 46 | -5 | -10 | -15 | 2 | 20 |
| 02- | 66.6433- | 159.3167- | 2- | 13- | | 0-405162 | | | | | | | | | | 2 | 27 |
| 02- | 66.5933- | 159.3933- | 2- | 13- | | 0-405163 | -5 | 6 | -5 | 36 | 20 | 45 | 5 | -10 | -15 | 2 | 28 |
| 02- | 66.5733- | 159.3283- | 2- | 13- | | 0-405164 | -5 | -5 | -5 | 32 | -20 | 36 | 8 | -10 | -15 | 1 | 21 |
| 02- | 66.5500- | 159.3633- | 2- | 13- | | 0-405165 | -5 | -5 | -5 | 29 | 33 | 25 | 7 | -10 | -15 | 1 | 18 |
| 02- | 66.5367- | 159.3700- | 2- | 13- | | 0-405166 | -5 | -5 | -5 | 38 | 26 | 43 | 9 | -10 | -15 | 2 | 29 |
| 02- | 66.5350- | 159.2733- | 2- | 13- | | 0-405167 | -5 | -5 | -5 | 25 | 49 | 32 | -5 | -10 | -15 | 2 | 34 |
| 02- | 66.5539- | 159.2717- | 2- | 13- | | 0-405168 | -5 | -5 | -5 | 39 | -20 | 30 | -5 | -10 | -15 | 2 | 22 |
| 02- | 66.6050- | 159.2550- | 2- | 13- | | 0-405169 | -5 | -5 | -5 | 13 | -20 | 21 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.6178- | 159.2483- | 2- | 13- | | 0-405170 | -5 | -5 | -5 | 19 | 25 | 31 | -5 | -10 | -15 | 1 | 18 |
| 02- | 66.6339- | 159.2633- | 2- | 13- | | 0-405171 | -5 | -5 | -5 | 31 | 28 | -15 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.6467- | 159.1733- | 2- | 13- | | 0-405172 | -5 | -5 | -5 | 35 | 24 | 20 | 6 | -10 | -15 | 2 | 31 |
| 02- | 66.6272- | 159.1283- | 2- | 13- | | 0-405173 | -5 | -5 | -5 | 35 | -20 | 23 | 8 | -10 | -15 | 2 | 30 |
| 02- | 66.5833- | 159.1200- | 2- | 13- | | 0-405174 | -5 | -5 | -5 | 34 | -20 | 25 | -5 | -10 | -15 | 1 | 9 |
| 02- | 66.5267- | 159.1625- | 2- | 13- | | 0-405175 | -5 | -5 | -5 | 35 | 30 | 39 | 5 | -10 | -15 | 2 | 29 |
| 02- | 66.5600- | 159.1017- | 2- | 13- | | 0-405176 | -5 | 5 | -5 | 29 | -20 | 51 | 9 | -10 | -15 | 2 | 33 |
| 02- | 66.5133- | 159.1175- | 2- | 13- | | 0-405177 | -5 | -5 | -5 | 35 | 25 | 34 | 12 | -10 | -15 | 2 | 39 |
| 02- | 66.4900- | 159.1400- | 2- | 13- | | 0-405178 | -5 | 6 | -5 | 33 | 40 | 27 | 5 | -10 | -15 | 1 | 41 |
| 02- | 66.4500- | 159.1442- | 2- | 13- | | 0-405179 | -5 | -5 | -5 | 31 | 45 | 32 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.4700- | 159.1392- | 2- | 13- | | 0-405180 | -5 | -5 | -5 | 28 | 25 | 28 | 8 | -10 | -15 | 2 | 26 |
| 02- | 66.4200- | 159.1617- | 2- | 13- | | 0-405181 | -5 | -5 | -5 | -10 | -20 | 27 | -5 | -10 | -15 | 2 | 26 |
| 02- | 66.3650- | 159.1383- | 2- | 13- | | 0-405182 | -5 | -5 | -5 | 15 | -20 | 24 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.3867- | 159.1511- | 2- | 13- | | 0-405183 | -5 | -5 | -5 | 29 | -20 | 27 | 7 | -10 | -15 | 1 | 21 |
| 02- | 66.3667- | 159.2467- | 2- | 13- | | 0-405184 | -5 | 5 | -5 | 30 | -20 | 44 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.3700- | 159.2733- | 2- | 13- | | 0-405185 | -5 | -5 | 5 | 36 | -20 | 33 | 6 | -10 | -15 | 2 | 34 |
| 02- | 66.3778- | 159.3183- | 2- | 13- | | 0-405186 | -5 | -5 | -5 | 21 | 24 | 30 | 7 | -10 | -15 | 2 | 33 |
| 02- | 66.3767- | 159.3667- | 2- | 13- | | 0-405187 | -5 | -5 | -5 | 20 | -20 | 22 | 11 | -10 | -15 | 2 | 30 |
| 02- | 66.4000- | 159.2467- | 2- | 13- | | 0-405188 | -5 | 6 | -5 | 27 | -20 | 36 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.4150- | 159.2517- | 2- | 13- | | 0-405189 | -5 | -5 | -5 | 39 | -20 | 36 | 17 | -10 | -15 | 2 | 24 |
| 02- | 66.4667- | 159.2658- | 2- | 13- | | 0-405190 | -5 | -5 | 5 | 31 | -20 | 28 | 8 | -10 | -15 | 1 | 18 |
| 02- | 66.4694- | 159.2042- | 2- | 13- | | 0-405191 | -5 | -5 | -5 | 34 | -20 | 29 | 5 | -10 | -15 | 2 | 26 |
| 02- | 66.4667- | 159.3567- | 2- | 13- | | 0-405192 | -5 | -5 | -5 | 42 | -20 | 47 | 15 | -10 | -15 | 2 | 33 |
| 02- | 66.4917- | 159.2717- | 2- | 13- | | 0-405193 | -5 | -5 | -5 | 23 | -20 | 24 | -5 | -10 | -15 | 1 | 22 |
| 02- | 66.5117- | 159.2858- | 2- | 13- | | 0-405194 | -5 | -5 | -5 | 22 | 29 | 18 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.5000- | 159.3333- | 2- | 13- | | 0-405195 | -5 | -5 | -5 | 45 | -20 | 33 | 7 | -10 | -15 | 2 | 18 |
| 02- | 66.4933- | 159.4150- | 2- | 13- | | 0-405196 | -5 | -5 | -5 | 28 | 33 | 22 | 5 | -10 | -15 | 2 | 20 |
| 02- | 66.4600- | 159.5792- | 2- | 13- | | 0-405210 | -5 | -5 | -5 | 45 | -20 | 49 | 6 | -10 | -15 | 1 | 16 |
| 02- | 66.4583- | 159.5567- | 2- | 13- | | 0-405211 | -5 | -5 | -5 | -10 | -20 | 20 | 11 | -10 | -15 | 1 | 11 |
| 02- | 66.4700- | 159.4833- | 2- | 13- | | 0-405212 | | | | | | | | | | 1 | 22 |
| 02- | 66.4500- | 159.4717- | 2- | 13- | | 0-405213 | -5 | -5 | -5 | 35 | 27 | 32 | -5 | -10 | -15 | 2 | 33 |
| 02- | 66.4283- | 159.3533- | 2- | 13- | | 0-405214 | -5 | -5 | 6 | 38 | -20 | 46 | 5 | -10 | -15 | 2 | 35 |
| 02- | 66.4083- | 159.3050- | 2- | 13- | | 0-405215 | -5 | -5 | -5 | 31 | -20 | -15 | -5 | -10 | -15 | 1 | 11 |
| 02- | 66.4183- | 159.4517- | 2- | 13- | | 0-405216 | -5 | -5 | -5 | 33 | -20 | 39 | -5 | -10 | -15 | 2 | 32 |
| 02- | 66.4000- | 159.4117- | 2- | 13- | | 0-405217 | -5 | -5 | -5 | 27 | -20 | 40 | 5 | -10 | -15 | 2 | 25 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.9844- | 158.7233- | 2- | 12- | 0- | 404589 | 68900 | -0.05 | 516 | 12300 | 100 | -101 | 15.1 | 64 | 3.7 | 7 | 1.6 | 32600 | 12.5 | 13800 | 51 | 0.8 |
| 02- | 66.9217- | 158.5528- | 2- | 12- | 0- | 404591 | 73880 | -0.06 | 601 | 10600 | 65 | -110 | 15.3 | 113 | -2.0 | 5 | 1.3 | 27820 | 7.4 | 13100 | 35 | 0.5 |
| 02- | 66.9492- | 158.5350- | 2- | 12- | 0- | 404592 | 88970 | -0.07 | 793 | 7847 | 125 | -110 | 19.3 | 102 | 5.7 | 7 | 1.8 | 30720 | 7.7 | 21740 | 50 | 0.8 |
| 02- | 66.9200- | 158.4808- | 2- | 12- | 0- | 404593 | 52670 | -0.09 | 562 | 7667 | 77 | -116 | 21.5 | 67 | -3.4 | 5 | 0.9 | 61070 | -2.3 | 12130 | 29 | -0.7 |
| 02- | 66.9617- | 158.4733- | 2- | 12- | 0- | 404594 | 63100 | -0.07 | 635 | 9530 | 84 | -105 | 22.4 | 74 | 4.7 | 6 | 1.4 | 57240 | 5.7 | 12200 | 43 | 0.5 |
| 02- | 66.9567- | 158.3950- | 2- | 12- | 0- | 404595 | 80540 | -0.05 | 817 | 9636 | 78 | -101 | 13.9 | 63 | -2.0 | 7 | 1.3 | 30780 | 7.8 | 19620 | 43 | 0.5 |
| 02- | 66.9467- | 158.3458- | 2- | 12- | 0- | 404596 | 55160 | -0.06 | 959 | 12510 | 102 | 175 | 21.0 | 369 | 3.9 | 6 | 1.9 | 29680 | 9.3 | 8258 | 39 | 0.7 |
| 02- | 66.6233- | 159.3667- | 2- | 13- | 0- | 405161 | 85940 | -0.10 | 925 | 6856 | 78 | -126 | 16.5 | 97 | 7.9 | 6 | 1.4 | 28490 | 5.9 | 21000 | 39 | 0.5 |
| 02- | 66.6433- | 159.3167- | 2- | 13- | 0- | 405162 | 87800 | -0.07 | 1020 | 6500 | 86 | -106 | 20.2 | 140 | 5.2 | 7 | 2.0 | 31950 | 5.9 | 17600 | 42 | 0.6 |
| 02- | 66.5933- | 159.3933- | 2- | 13- | 0- | 405163 | 79260 | -0.07 | 805 | 9758 | 70 | -110 | 16.0 | 88 | 5.0 | 7 | 1.7 | 24250 | 6.4 | 13230 | 41 | 0.5 |
| 02- | 66.5733- | 159.3283- | 2- | 13- | 0- | 405164 | 73650 | -0.08 | 722 | 9952 | 115 | -120 | 19.5 | 110 | 5.0 | 6 | 1.9 | 30740 | 9.2 | 16840 | 51 | 0.8 |
| 02- | 66.5500- | 159.3633- | 2- | 13- | 0- | 405165 | 79360 | -0.10 | 772 | 8160 | 80 | -130 | 17.7 | 97 | 3.6 | 5 | 1.5 | 26130 | 5.2 | 14140 | 33 | 0.6 |
| 02- | 66.5367- | 159.3700- | 2- | 13- | 0- | 405166 | 81600 | -0.06 | 897 | 10600 | 89 | -108 | 20.4 | 128 | 6.6 | 7 | 1.5 | 31700 | 7.2 | 17000 | 44 | 0.6 |
| 02- | 66.5350- | 159.2733- | 2- | 13- | 0- | 405167 | 76280 | -0.06 | 772 | 10800 | 70 | -109 | 18.0 | 79 | 4.5 | 6 | 1.5 | 27550 | 5.4 | 16360 | 38 | 0.5 |
| 02- | 66.5539- | 159.2717- | 2- | 13- | 0- | 405168 | 85790 | -0.08 | 1019 | 7854 | 105 | -112 | 22.1 | 129 | 6.9 | 6 | 2.2 | 32910 | 6.9 | 14540 | 49 | 0.6 |
| 02- | 66.6050- | 159.2558- | 2- | 13- | 0- | 405169 | 56810 | -0.05 | 488 | 11340 | 70 | -97 | 11.7 | 80 | -1.9 | 5 | 1.2 | 19560 | 7.2 | 8686 | 40 | 0.5 |
| 02- | 66.6178- | 159.2403- | 2- | 13- | 0- | 405170 | 74500 | -0.07 | 882 | 11000 | 92 | -114 | 17.3 | 96 | 4.5 | 6 | 1.7 | 25320 | 8.5 | 13600 | 49 | 0.6 |
| 02- | 66.6339- | 159.2633- | 2- | 13- | 0- | 405171 | 72180 | -0.06 | 636 | 11830 | 84 | -103 | 13.1 | 68 | 4.6 | 7 | 1.6 | 22460 | 7.4 | 13030 | 44 | 0.5 |
| 02- | 66.6467- | 159.1733- | 2- | 13- | 0- | 405172 | 87370 | -0.09 | 874 | 9719 | 135 | -124 | 25.4 | 126 | 7.3 | 7 | 2.1 | 33430 | 11.9 | 16950 | 57 | 0.9 |
| 02- | 66.6272- | 159.1283- | 2- | 13- | 0- | 405173 | 85160 | -0.09 | 869 | 8067 | 85 | -127 | 17.4 | 104 | -3.3 | 6 | 1.6 | 26430 | 6.5 | 15580 | 45 | 0.5 |
| 02- | 66.5833- | 159.1200- | 2- | 13- | 0- | 405174 | 60900 | -0.08 | 720 | 12100 | 72 | -107 | 22.5 | 80 | 5.5 | 5 | 1.7 | 27180 | 5.0 | 11300 | 36 | 0.4 |
| 02- | 66.5267- | 159.1625- | 2- | 13- | 0- | 405175 | 88770 | -0.07 | 1020 | 7382 | 83 | -108 | 20.3 | 102 | -2.6 | 7 | 1.8 | 29810 | 6.1 | 17730 | 41 | 0.6 |
| 02- | 66.5600- | 159.1017- | 2- | 13- | 0- | 405176 | 86970 | -0.08 | 871 | 8224 | 122 | -122 | 27.2 | 134 | 6.4 | 6 | 2.4 | 37080 | 8.7 | 15380 | 51 | 0.6 |
| 02- | 66.5133- | 159.1175- | 2- | 13- | 0- | 405177 | 87570 | -0.09 | 749 | 9602 | 67 | -134 | 19.4 | 116 | 5.5 | 5 | 1.3 | 31740 | 4.8 | 16500 | 38 | 0.6 |
| 02- | 66.4900- | 159.1400- | 2- | 13- | 0- | 405178 | 65400 | -0.05 | 976 | 30500 | 76 | 448 | 16.2 | 170 | 3.6 | 5 | 1.5 | 27250 | 7.7 | 13200 | 41 | 0.6 |
| 02- | 66.4500- | 159.1442- | 2- | 13- | 0- | 405179 | 67260 | -0.08 | 791 | 11110 | 60 | -122 | 17.0 | 78 | 4.8 | 6 | 1.5 | 21810 | 3.7 | 16580 | 30 | -0.2 |
| 02- | 66.4700- | 159.1392- | 2- | 13- | 0- | 405180 | 75150 | -0.07 | 739 | 12100 | 130 | -118 | 19.5 | 114 | 4.9 | 7 | 2.2 | 30880 | 10.1 | 13210 | 55 | 0.8 |
| 02- | 66.4200- | 159.1617- | 2- | 13- | 0- | 405181 | 56650 | -0.05 | 437 | 11470 | 86 | -104 | 11.2 | 59 | 3.0 | 6 | 1.6 | 20430 | 9.1 | 9697 | 41 | 0.6 |
| 02- | 66.3650- | 159.1383- | 2- | 13- | 0- | 405182 | 62200 | -0.04 | 554 | 11800 | 103 | -95 | 13.7 | 82 | 2.1 | 7 | 1.8 | 23680 | 11.8 | 11300 | 54 | 0.7 |
| 02- | 66.3867- | 159.1511- | 2- | 13- | 0- | 405183 | 74460 | -0.06 | 708 | 11680 | 84 | -107 | 14.4 | 72 | 6.3 | 7 | 1.3 | 23330 | 6.0 | 14290 | 42 | 0.6 |
| 02- | 66.3667- | 159.2467- | 2- | 13- | 0- | 405184 | 79380 | -0.07 | 925 | 8692 | 109 | -110 | 19.0 | 126 | 5.2 | 6 | 1.9 | 29200 | 7.0 | 15340 | 47 | 0.8 |
| 02- | 66.3700- | 159.2733- | 2- | 13- | 0- | 405185 | 81820 | -0.09 | 835 | 10300 | 80 | -123 | 17.3 | 85 | 5.2 | 5 | 1.4 | 26890 | 6.5 | 14460 | 40 | 0.5 |
| 02- | 66.3778- | 159.3183- | 2- | 13- | 0- | 405186 | 81700 | -0.06 | 800 | 8730 | 87 | -104 | 18.3 | 103 | 5.0 | 7 | 1.7 | 27230 | 6.5 | 12800 | 42 | 0.6 |
| 02- | 66.3767- | 159.3667- | 2- | 13- | 0- | 405187 | 75940 | -0.06 | 658 | 10640 | 76 | -107 | 11.1 | 64 | -2.1 | 7 | 1.6 | 20960 | 8.1 | 14670 | 41 | 0.5 |
| 02- | 66.4000- | 159.2467- | 2- | 13- | 0- | 405188 | 88430 | -0.08 | 1101 | 10030 | 104 | -112 | 24.2 | 125 | 7.0 | 8 | 2.4 | 39130 | 6.5 | 17490 | 46 | 0.6 |
| 02- | 66.4150- | 159.2517- | 2- | 13- | 0- | 405189 | 84160 | -0.09 | 887 | 7359 | 82 | -121 | 18.9 | 98 | 6.6 | 5 | 1.9 | 30570 | 5.1 | 14260 | 41 | 0.4 |
| 02- | 66.4667- | 159.2658- | 2- | 13- | 0- | 405190 | 76200 | | 728 | 10700 | | -105 | | | | 7 | | | | 13200 | | |
| 02- | 66.4694- | 159.2042- | 2- | 13- | 0- | 405191 | 72880 | -0.05 | 715 | 10820 | 86 | -114 | 13.4 | 92 | 5.3 | 6 | 1.6 | 24310 | 8.4 | 12960 | 41 | 0.6 |
| 02- | 66.4667- | 159.3567- | 2- | 13- | 0- | 405192 | 97940 | -0.06 | 1183 | 6375 | 86 | -105 | 26.0 | 124 | 7.1 | 6 | 1.6 | 38640 | 4.9 | 18850 | 45 | 0.7 |
| 02- | 66.4917- | 159.2717- | 2- | 13- | 0- | 405193 | 60660 | -0.03 | 496 | 13320 | 76 | -86 | 12.1 | 127 | 3.0 | 6 | 1.4 | 23820 | 7.0 | 11200 | 42 | 0.5 |
| 02- | 66.5117- | 159.2858- | 2- | 13- | 0- | 405194 | 60800 | -0.04 | 561 | 12360 | 110 | -97 | 16.2 | 149 | 3.6 | 6 | 1.5 | 28060 | 8.2 | 11050 | 47 | 0.6 |
| 02- | 66.5000- | 159.3333- | 2- | 13- | 0- | 405195 | 84720 | -0.06 | 839 | 8719 | 72 | -119 | 19.8 | 108 | -3.2 | 5 | 1.6 | 32730 | 5.1 | 17420 | 38 | 0.5 |
| 02- | 66.4933- | 159.4150- | 2- | 13- | 0- | 405196 | 78390 | -0.05 | 1004 | 8995 | 82 | -105 | 21.1 | 110 | 5.9 | 6 | 1.7 | 30980 | 6.6 | 11990 | 41 | 0.6 |
| 02- | 66.4600- | 159.5792- | 2- | 13- | 0- | 405210 | 49510 | -0.03 | 491 | 10700 | 86 | -80 | 6.9 | 67 | 2.5 | 7 | 1.5 | 15530 | 10.6 | 7493 | 42 | 0.6 |
| 02- | 66.4583- | 159.5567- | 2- | 13- | 0- | 405211 | 78390 | -0.07 | 986 | 12870 | 125 | -127 | 23.5 | 129 | 6.1 | 7 | 2.0 | 41210 | 7.8 | 13730 | 52 | 0.8 |
| 02- | 66.4700- | 159.4833- | 2- | 13- | 0- | 405212 | 87500 | -0.07 | 836 | 5561 | 82 | -119 | 22.0 | 90 | 7.2 | 6 | 1.5 | 32270 | -2.2 | 13050 | 39 | 0.5 |
| 02- | 66.4500- | 159.4717- | 2- | 13- | 0- | 405213 | 92760 | -0.06 | 1053 | 7459 | 92 | -104 | 28.1 | 134 | 7.0 | 7 | 1.7 | 36420 | 5.2 | 17510 | 44 | 0.6 |
| 02- | 66.4283- | 159.3533- | 2- | 13- | 0- | 405214 | 79740 | -0.05 | 897 | 12150 | 84 | -97 | 15.4 | 98 | 5.1 | 7 | 1.7 | 28440 | 6.7 | 16090 | 45 | 0.5 |
| 02- | 66.4063- | 159.3050- | 2- | 13- | 0- | 405215 | | -0.07 | | | 99 | | 19.4 | 110 | 6.3 | | 2.3 | 29960 | 6.9 | | 46 | 0.6 |
| 02- | 66.4183- | 159.4517- | 2- | 13- | 0- | 405216 | 83740 | -0.07 | 888 | 7469 | 74 | -118 | 17.2 | 115 | 7.1 | 5 | 1.7 | 30630 | 5.0 | 15780 | 41 | 0.5 |
| 02- | 66.4000- | 159.4117- | 2- | 13- | 0- | 405217 | 77690 | -0.04 | 714 | 9950 | 81 | -101 | 16.5 | 79 | 4.0 | 7 | 1.6 | 27260 | 6.9 | 16840 | 42 | 0.5 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(4)

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 66.9844- | 158.7233- | 2- | 12- | | 0-404589 | 18200 | 691 | 15700 | 68 | -1 | 14.2 | 8.3 | -357 | | -1 | 12.7 | 6510 | 101 | 6.1 | 117 | 0.268 |
| 02- | 66.9217- | 158.5528- | 2- | 12- | | 0-404591 | 19490 | 801 | 14370 | -27 | -1 | 13.5 | 5.7 | -419 | -1 | | 9.5 | 4986 | 127 | 3.2 | -92 | 0.316 |
| 02- | 66.9492- | 158.5350- | 2- | 12- | | 0-404592 | 24810 | 447 | 15260 | 87 | -2 | 19.1 | 10.3 | -379 | -1 | -1 | 15.1 | 5894 | 129 | 5.9 | 130 | 0.192 |
| 02- | 66.9200- | 158.4808- | 2- | 12- | | 0-404593 | 12950 | 782 | 7922 | -56 | -2 | 11.8 | 4.1 | -570 | -1 | -1 | 9.3 | 3199 | 97 | -9.7 | -91 | 0.280 |
| 02- | 66.9617- | 158.4733- | 2- | 12- | | 0-404594 | 16800 | 535 | 9600 | 55 | -2 | 13.8 | 7.4 | -419 | -1 | | 12.6 | 4920 | 112 | 5.0 | -37 | 0.230 |
| 02- | 66.9567- | 158.3950- | 2- | 12- | | 0-404595 | 21530 | 545 | 15320 | -26 | -1 | 14.8 | 6.5 | -351 | -1 | | 11.5 | 5868 | 124 | 4.1 | 127 | 0.270 |
| 02- | 66.9467- | 158.3458- | 2- | 12- | | 0-404596 | 18630 | 795 | 9075 | -27 | -1 | 15.6 | 7.6 | -424 | -1 | -1 | 11.8 | 5811 | 119 | 5.0 | -30 | 0.229 |
| 02- | 66.6233- | 159.3667- | 2- | 13- | | 0-405161 | 22310 | 316 | 10770 | -53 | -3 | 19.1 | 4.4 | -474 | -1 | -1 | 11.0 | 6125 | 166 | 4.5 | 257 | 0.282 |
| 02- | 66.6433- | 159.3167- | 2- | 13- | | 0-405162 | 21100 | 368 | 11300 | 70 | -2 | 19.2 | 7.4 | -385 | -1 | | 14.6 | 6660 | 162 | 3.8 | 165 | 0.219 |
| 02- | 66.5933- | 159.3933- | 2- | 13- | | 0-405163 | 18300 | 446 | 12830 | -33 | -2 | 15.3 | 6.8 | -391 | -1 | -1 | 11.0 | 5382 | 134 | 4.0 | 98 | 0.291 |
| 02- | 66.5733- | 159.3283- | 2- | 13- | | 0-405164 | 18200 | 441 | 13350 | -37 | -2 | 18.4 | 8.8 | -431 | -1 | -1 | 14.5 | 5933 | 135 | 5.3 | 198 | 0.234 |
| 02- | 66.5500- | 159.3633- | 2- | 13- | | 0-405165 | 21650 | 312 | 10530 | -53 | -3 | 16.9 | 4.4 | -470 | -10 | -1 | 10.2 | 6017 | 146 | 4.0 | -404 | 0.284 |
| 02- | 66.5367- | 159.3700- | 2- | 13- | | 0-405166 | 22200 | 559 | 13000 | 74 | -2 | 17.9 | 7.4 | -400 | -1 | -1 | 13.6 | 6080 | 137 | 5.7 | 177 | 0.228 |
| 02- | 66.5350- | 159.2733- | 2- | 13- | | 0-405167 | 23920 | 710 | 12520 | -31 | -1 | 15.4 | 6.4 | -415 | -1 | | 11.3 | 6676 | 151 | 4.6 | | 0.292 |
| 02- | 66.5539- | 159.2717- | 2- | 13- | | 0-405168 | 20820 | 323 | 10840 | -39 | -2 | 20.5 | 8.9 | -407 | -1 | | 15.7 | 5927 | 150 | 5.4 | 179 | 0.197 |
| 02- | 66.6050- | 159.2558- | 2- | 13- | | 0-405169 | 19750 | 379 | 15240 | -27 | -1 | 11.4 | 4.1 | -316 | | | 9.1 | 5557 | 89 | 3.1 | -69 | 0.319 |
| 02- | 66.6178- | 159.2463- | 2- | 13- | | 0-405170 | 18600 | 383 | 12800 | 73 | -2 | 16.2 | 7.5 | -378 | -1 | | 12.3 | 6390 | 122 | 4.9 | 167 | 0.244 |
| 02- | 66.6339- | 159.2633- | 2- | 13- | | 0-405171 | 17220 | 410 | 12930 | 56 | -1 | 13.3 | -0.3 | -353 | 6 | | 9.9 | 6152 | 125 | 4.4 | 130 | 0.333 |
| 02- | 66.6467- | 159.1733- | 2- | 13- | | 0-405172 | 22280 | 383 | 12990 | 77 | -2 | 21.2 | 10.6 | -443 | -1 | -1 | 16.6 | 6231 | 144 | 6.3 | 228 | 0.205 |
| 02- | 66.6272- | 159.1283- | 2- | 13- | | 0-405173 | 23310 | 367 | 12180 | -47 | -2 | 17.6 | 5.2 | -439 | -2 | | 12.5 | 6637 | 141 | 4.4 | -99 | 0.272 |
| 02- | 66.5833- | 159.1200- | 2- | 13- | | 0-405174 | 13400 | 400 | 8480 | -36 | -2 | 14.8 | 5.9 | -426 | -1 | -1 | 10.4 | 4710 | 117 | 2.9 | -151 | 0.250 |
| 02- | 66.5267- | 159.1625- | 2- | 13- | | 0-405175 | 22330 | 496 | 11130 | -33 | -2 | 17.6 | 6.5 | -402 | -1 | | 11.2 | 5823 | 167 | 4.6 | -99 | 0.286 |
| 02- | 66.5600- | 159.1017- | 2- | 13- | | 0-405176 | 25670 | 515 | 12800 | 56 | -2 | 21.6 | 8.4 | -462 | -1 | -1 | 15.5 | 6530 | 160 | 5.1 | 215 | 0.213 |
| 02- | 66.5133- | 159.1175- | 2- | 13- | | 0-405177 | 26910 | 545 | 12940 | -49 | -2 | 18.4 | 4.7 | -506 | -10 | -1 | 10.8 | 6291 | 159 | 3.9 | -415 | 0.296 |
| 02- | 66.4900- | 159.1400- | 2- | 13- | | 0-405178 | 27400 | 607 | 12600 | 42 | -1 | 13.7 | 6.4 | -337 | | | 10.6 | 6370 | 131 | 3.6 | 119 | 0.274 |
| 02- | 66.4500- | 159.1442- | 2- | 13- | | 0-405179 | 20430 | 326 | 8745 | -44 | -2 | 13.3 | 4.6 | -452 | -1 | -1 | 9.4 | 4876 | 129 | 4.7 | 202 | 0.255 |
| 02- | 66.4700- | 159.1392- | 2- | 13- | | 0-405180 | 20240 | 426 | 13860 | 59 | -2 | 18.0 | 11.0 | -403 | -1 | -1 | 14.5 | 6382 | 116 | 7.0 | 151 | 0.228 |
| 02- | 66.4200- | 159.1617- | 2- | 13- | | 0-405181 | 15420 | 468 | 15710 | -27 | -1 | 11.4 | 5.5 | -347 | -1 | | 9.7 | 5830 | 87 | 4.5 | 101 | 0.340 |
| 02- | 66.3650- | 159.1383- | 2- | 13- | | 0-405182 | 16400 | 555 | 15600 | -21 | -1 | 12.8 | 8.2 | -326 | | -1 | 13.2 | 6560 | 106 | 5.3 | 145 | 0.258 |
| 02- | 66.3867- | 159.1511- | 2- | 13- | | 0-405183 | 17450 | 423 | 12870 | -29 | -2 | 14.4 | 6.4 | -367 | -1 | | 10.5 | 6346 | 132 | 4.7 | 134 | 0.305 |
| 02- | 66.3667- | 159.2467- | 2- | 13- | | 0-405184 | 19060 | 369 | 12880 | 72 | -2 | 18.6 | 9.4 | -392 | -1 | -1 | 15.5 | 5951 | 137 | 5.6 | 158 | 0.194 |
| 02- | 66.3700- | 159.2733- | 2- | 13- | | 0-405185 | 20030 | 398 | 11880 | -44 | -2 | 16.5 | 4.5 | -444 | -2 | -1 | 10.6 | 5382 | 143 | 3.9 | 163 | 0.292 |
| 02- | 66.3776- | 159.3183- | 2- | 13- | | 0-405186 | 19600 | 402 | 12400 | -30 | -2 | 17.1 | 7.0 | -367 | -1 | -1 | 13.0 | 6290 | 151 | 3.6 | 146 | 0.238 |
| 02- | 66.3767- | 159.3667- | 2- | 13- | | 0-405187 | 17880 | 379 | 14820 | 40 | -1 | 13.6 | 6.6 | -353 | -1 | -1 | 10.7 | 5795 | 117 | 6.0 | 89 | 0.308 |
| 02- | 66.4000- | 159.2467- | 2- | 13- | | 0-405188 | 19250 | 422 | 10910 | 74 | -2 | 22.1 | 8.9 | -422 | -1 | -1 | 17.0 | 5640 | 161 | 5.6 | | 0.188 |
| 02- | 66.4150- | 159.2517- | 2- | 13- | | 0-405189 | 27630 | 389 | 11270 | -47 | -2 | 17.3 | 4.5 | -452 | -2 | -1 | 12.4 | 5867 | 163 | -2.6 | -107 | 0.258 |
| 02- | 66.4667- | 159.2658- | 2- | 13- | | 0-405190 | 23000 | 456 | 13800 | | | | | -368 | | | | 6420 | 134 | | | |
| 02- | 66.4694- | 159.2042- | 2- | 13- | | 0-405191 | 15790 | 417 | 13140 | -36 | -1 | 14.4 | 6.4 | -397 | -7 | | 9.9 | 5349 | 139 | 3.4 | -119 | 0.333 |
| 02- | 66.4667- | 159.3567- | 2- | 13- | | 0-405192 | 24280 | 463 | 9768 | 114 | -1 | 21.5 | 7.4 | -420 | -8 | | 17.2 | 6442 | 201 | 5.2 | 241 | 0.192 |
| 02- | 66.4917- | 159.2717- | 2- | 13- | | 0-405193 | 16160 | 645 | 13610 | 33 | | 13.2 | 5.8 | -309 | -7 | -1 | 10.0 | 6320 | 105 | 4.5 | 102 | 0.300 |
| 02- | 66.5117- | 159.2858- | 2- | 13- | | 0-405194 | 19620 | 582 | 13770 | 28 | -1 | 15.5 | 7.7 | -340 | -6 | | 12.8 | 5741 | 109 | 5.1 | 111 | 0.227 |
| 02- | 66.5000- | 159.3333- | 2- | 13- | | 0-405195 | 19030 | 636 | 9977 | -45 | -2 | 17.4 | 5.3 | -480 | -2 | -1 | 12.3 | 5550 | 155 | 3.4 | | 0.260 |
| 02- | 66.4933- | 159.4150- | 2- | 13- | | 0-405196 | 18260 | 397 | 11090 | 66 | -1 | 17.3 | 7.2 | -390 | -7 | -1 | 12.4 | 5843 | 152 | 4.1 | 240 | 0.250 |
| 02- | 66.4600- | 159.5792- | 2- | 13- | | 0-405210 | 13720 | 345 | 13830 | 33 | | 9.0 | 8.0 | -260 | 1 | | 9.5 | 6864 | 78 | 4.5 | 90 | 0.411 |
| 02- | 66.4583- | 159.5567- | 2- | 13- | | 0-405211 | 21540 | 543 | 10450 | -46 | 2 | 20.7 | 10.9 | -508 | -7 | -1 | 14.9 | 6496 | 144 | 5.8 | 272 | 0.228 |
| 02- | 66.4700- | 159.4833- | 2- | 13- | | 0-405212 | 23030 | 540 | 9813 | 67 | -2 | 18.8 | 5.4 | -486 | -2 | -1 | 9.8 | 5279 | 177 | 5.0 | -58 | 0.327 |
| 02- | 66.4500- | 159.4717- | 2- | 13- | | 0-405213 | 22750 | 523 | 10130 | -37 | 1 | 20.2 | 7.7 | -417 | 11 | -1 | 13.8 | 6714 | 174 | 4.4 | 164 | 0.232 |
| 02- | 66.4283- | 159.3533- | 2- | 13- | | 0-405214 | 26930 | 512 | 12050 | -29 | 1 | 15.5 | 6.5 | -362 | -4 | | 12.6 | 6022 | 143 | 3.6 | 441 | 0.278 |
| 02- | 66.4083- | 159.3050- | 2- | 13- | | 0-405215 | | | | -42 | -2 | 17.2 | 8.8 | | -9 | -1 | 12.6 | | | 4.8 | -127 | 0.222 |
| 02- | 66.4183- | 159.4517- | 2- | 13- | | 0-405216 | 22280 | 462 | 10260 | 108 | -2 | 17.7 | 4.9 | -462 | | -1 | 11.1 | 6021 | 156 | 4.0 | | 0.297 |
| 02- | 66.4000- | 159.4117- | 2- | 13- | | 0-405217 | 18610 | 522 | 12580 | 39 | -1 | 14.8 | 6.8 | -361 | -8 | | 11.1 | 6499 | 139 | 3.7 | 140 | 0.324 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (θ) UNITS IN ppb |
| 02- | 66.4306- | 159.5867- | 2- | 13- | | 0-405218- | 08/22/76- | 14- | 14.8- | | -S- | | 8.1- | 40- | | -2- | 7- | 5- | 7- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 3.10 |
| 02- | 66.4000- | 159.5783- | 2- | 13- | | 0-405219- | 08/22/76- | 14- | 13.8- | | -S- | | 7.5- | 39- | | -2- | 7- | 6- | 8- | -3- | 1- | -4- | 4- | 2- | 3- | -1- | - | - | - | - | 3.10 |
| 02- | 66.8569- | 159.7933- | 2- | 12- | | 0-405293- | 08/23/76- | 10- | 12.8- | | - - | | 8.3- | 69- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.8811- | 159.8300- | 2- | 12- | | 0-405294- | 08/23/76- | 10- | 13.2- | | - - | | 7.9- | 85- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 2- | -1- | - | - | - | - | 3.90 |
| 02- | 66.8783- | 159.7217- | 2- | 13- | | 0-405296- | 08/23/76- | 10- | 13.2.8- | | -S- | | 8.8- | 153- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 2.10 |
| 02- | 66.8367- | 159.7217- | 2- | 13- | | 0-405297- | 08/23/76- | 10- | 13.2.6- | | -S- | | 8.5- | 170- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 2- | 3- | -1- | - | - | - | - | 2.50 |
| 02- | 66.8936- | 159.5233- | 2- | 12- | | 0-405300- | 08/23/76- | 11- | 13-12.3- | | - - | | 7.8- | 41- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 66.8383- | 159.4600- | 2- | 12- | | 0-405301- | 08/23/76- | 11- | 13-13.2- | | - - | | 8.5- | 94- | | -2- | 7- | 4- | 6- | 1- | 2- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 3.10 |
| 02- | 66.8367- | 159.5500- | 2- | 12- | | 0-405302- | 08/23/76- | 11- | 13-13.6- | | - - | | 8.2- | 153- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 3.40 |
| 02- | 66.8961- | 159.4267- | 2- | 12- | | 0-405303- | 08/23/76- | 11- | 13-12.7- | | - - | | 8.0- | 48- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 3- | -1- | - | - | - | - | 2.10 |
| 02- | 66.8863- | 159.3933- | 2- | 12- | | 0-405304- | 08/23/76- | 11- | 12-12.5- | | - - | | 8.4- | 83- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 2- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 66.8467- | 159.3850- | 2- | 12- | | 0-405305- | 08/23/76- | 11- | 12-12.4- | | - - | | 8.3- | 59- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 3- | -1- | - | - | - | - | 4.70 |
| 02- | 66.8472- | 159.2333- | 2- | 12- | | 0-405306- | 08/23/76- | 11- | 11-12.9- | | - - | | 8.3- | 96- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.00 |
| 02- | 66.8894- | 159.2267- | 2- | 12- | | 0-405307- | 08/23/76- | 11- | 11-13.5- | | - - | | 8.6- | 87- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 3- | -1- | - | - | - | - | 3.50 |
| 02- | 66.8892- | 159.1433- | 2- | 12- | | 0-405308- | 08/23/76- | 11- | 11- 9.6- | | - - | | 8.9- | 162- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 3- | -1- | - | - | - | - | 3.30 |
| 02- | 66.8483- | 159.1600- | 2- | 12- | | 0-405309- | 08/23/76- | 11- | 11-10.5- | | - - | | 8.7- | 125- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 66.8444- | 159.0472- | 2- | 12- | | 0-405310- | 08/23/76- | 11- | 11-10.8- | | - - | | 8.5- | 141- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 3- | -1- | - | - | - | - | 2.70 |
| 02- | 66.8967- | 159.0400- | 2- | 12- | | 0-405311- | 08/23/76- | 12- | 11-11.0- | | - - | | 8.5- | 163- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 3- | -1- | - | - | - | - | 2.60 |
| 02- | 66.9600- | 158.7006- | 2- | 13- | | 0-405315- | 08/23/76- | 12- | 11-11.4- | | -S- | | 8.6- | 287- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 66.9367- | 158.6850- | 2- | 13- | | 0-405316- | 08/23/76- | 12- | 11-11.8- | | -S- | | 8.2- | 195- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.80 |
| 02- | 66.9625- | 158.6264- | 2- | 13- | | 0-405317- | 08/23/76- | 12- | 12-12.1- | | -S- | | 8.6- | 214- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 3- | -1- | - | - | - | - | 3.60 |
| 02- | 66.9489- | 158.6367- | 2- | 13- | | 0-405318- | 08/23/76- | 12- | 12- 5.8- | | -S- | | 8.7- | 127- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 66.9261- | 158.6750- | 2- | 13- | | 0-405319- | 08/23/76- | 12- | 11- 8.9- | | -S- | | 8.5- | 141- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 3- | 3- | -1- | - | - | - | - | 3.90 |
| 02- | 66.9500- | 158.4811- | 2- | 13- | | 0-405320- | 08/23/76- | 12- | 11-13.8- | | -S- | | 8.5- | 14- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.20 |
| 02- | 66.9000- | 158.0250- | 2- | 13- | | 0-405323- | 08/23/76- | 12- | 11-15.4- | | -S- | | 7.8- | 16- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.50 |
| 02- | 66.8433- | 158.0175- | 2- | 13- | | 0-405325- | 08/23/76- | 13- | 11-16.5- | | -S- | | 9.3- | 28- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.8072- | 158.0333- | 2- | 13- | | 0-405326- | 08/23/76- | 13- | 14-16.0- | | -S- | | 8.6- | 23- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.8133- | 158.0667- | 2- | 13- | | 0-405327- | 08/23/76- | 13- | 14-18.0- | | -S- | | 8.6- | 66- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.8189- | 158.1383- | 2- | 13- | | 0-405328- | 08/23/76- | 13- | 14-15.9- | | -S- | | 8.4- | 66- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.20 |
| 02- | 66.8167- | 158.2000- | 2- | 13- | | 0-405329- | 08/23/76- | 13- | 14-15.9- | | -S- | | 8.5- | 38- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.70 |
| 02- | 66.8194- | 158.2500- | 2- | 13- | | 0-405330- | 08/23/76- | 13- | 14-15.7- | | -S- | | 8.4- | 65- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 2.10 |
| 02- | 66.8400- | 158.2367- | 2- | 13- | | 0-405331- | 08/23/76- | 12- | 11-17.2- | | -S- | | 8.3- | 56- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.00 |
| 02- | 66.8342- | 158.1439- | 2- | 13- | | 0-405332- | 08/23/76- | 12- | 11-15.9- | | -S- | | 8.2- | 37- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 4.40 |
| 02- | 66.8464- | 158.0800- | 2- | 13- | | 0-405333- | 08/23/76- | 12- | 11-15.8- | | -S- | | 7.8- | 21- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 2- | 3- | -1- | - | - | - | - | 3.55 |
| 02- | 66.8733- | 158.0800- | 2- | 13- | | 0-405334- | 08/23/76- | 13- | 14-18.0- | | -S- | | 9.9- | 65- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.8761- | 158.1350- | 2- | 13- | | 0-405335- | 08/23/76- | 13- | 14-15.9- | | -S- | | 9.1- | 48- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 9.80 |
| 02- | 66.8792- | 158.2017- | 2- | 13- | | 0-405336- | 08/23/76- | 13- | 14-15.7- | | -S- | | 9.2- | 75- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 4.10 |
| 02- | 66.8900- | 158.2042- | 2- | 13- | | 0-405337- | 08/23/76- | 13- | 14-15.4- | | -S- | | 9.9- | 131- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 4.20 |
| 02- | 66.8933- | 158.1367- | 2- | 13- | | 0-405338- | 08/23/76- | 13- | 14-12.9- | | -S- | | 8.8- | 155- | | -2- | 7- | 4- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | 5.60 |
| 02- | 66.8950- | 158.2950- | 2- | 13- | | 0-405350- | 08/23/76- | 14- | 16-15.5- | | -S- | | 8.7- | 71- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 4.00 |
| 02- | 66.8722- | 158.2767- | 2- | 13- | | 0-405351- | 08/23/76- | 14- | 16-15.9- | | -S- | | 9.1- | 15- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 2.20 |
| 02- | 66.9017- | 158.3683- | 2- | 12- | | 0-405352- | 08/23/76- | 14- | 16-12.1- | | - - | | 8.3- | 141- | | -2- | 2- | 4- | 6- | - | - | -2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.8678- | 158.3900- | 2- | 12- | | 0-405353- | 08/23/76- | 14- | 16-12.0- | | - - | | 8.8- | 122- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 6.60 |
| 02- | 66.8433- | 158.3700- | 2- | 12- | | 0-405354- | 08/23/76- | 14- | 16-11.8- | | - - | | 7.9- | 75- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.8989- | 158.5083- | 2- | 12- | | 0-405355- | 08/23/76- | 15- | 16-11.7- | | - - | | 8.1- | 96- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.60 |
| 02- | 66.9067- | 158.5567- | 2- | 12- | | 0-405356- | 08/23/76- | 15- | 16-12.2- | | - - | | 8.4- | 79- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.50 |
| 02- | 66.8703- | 158.5608- | 2- | 12- | | 0-405357- | 08/23/76- | 15- | 16-12.6- | | - - | | 8.5- | 114- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 4.70 |
| 02- | 66.8442- | 158.5753- | 2- | 12- | | 0-405358- | 08/23/76- | 15- | 16-11.8- | | - - | | 8.3- | 127- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 2- | -1- | - | - | - | - | 3.50 |
| 02- | 66.8700- | 158.5322- | 2- | 13- | | 0-405359- | 08/23/76- | 15- | 16-15.2- | | -S- | | 7.3- | 2- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.8994- | 158.6928- | 2- | 12- | | 0-405361- | 08/23/76- | 15- | 16-12.4- | | - - | | 7.7- | 207- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | 3.20 |
| 02- | 66.8689- | 158.7133- | 2- | 12- | | 0-405362- | 08/23/76- | 15- | 16-12.9- | | - - | | 7.9- | 156- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 3- | 2- | -1- | - | - | - | - | 3.30 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(2)

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.4306- | 159.5867- | 2- | 13- | | 0-405218 | -5 | -5 | -5 | 30 | 34 | 24 | 9 | -10 | -15 | 2 | 22 |
| 02- | 66.4000- | 159.5783- | 2- | 13- | | 0-405219 | -5 | -5 | -5 | 35 | 23 | 26 | 10 | -10 | -15 | 2 | 21 |
| 02- | 66.8569- | 159.7933- | 2- | 12- | | 0-405293 | -5 | -5 | -5 | 27 | -20 | 34 | -5 | -10 | -15 | 2 | 20 |
| 02- | 66.8811- | 159.8300- | 2- | 12- | | 0-405294 | -5 | -5 | -5 | 38 | -20 | 34 | 6 | -10 | -15 | 2 | 29 |
| 02- | 66.8783- | 159.7217- | 2- | 13- | | 0-405296 | | | | | | | | | | -1 | 11 |
| 02- | 66.8367- | 159.7217- | 2- | 13- | | 0-405297 | -5 | -5 | -5 | 35 | -20 | 31 | -5 | -10 | -15 | 1 | 19 |
| 02- | 66.8936- | 159.5233- | 2- | 12- | | 0-405300 | -5 | -5 | -5 | 29 | -20 | 28 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.8383- | 159.4600- | 2- | 12- | | 0-405301 | -5 | -5 | -5 | 28 | -20 | 24 | -5 | -10 | -15 | 2 | 18 |
| 02- | 66.8367- | 159.5500- | 2- | 12- | | 0-405302 | -5 | -5 | -5 | 22 | -20 | 17 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.8901- | 159.4267- | 2- | 12- | | 0-405303 | -5 | -5 | -5 | 15 | -20 | 19 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.8883- | 159.3933- | 2- | 12- | | 0-405304 | -5 | -5 | -5 | 18 | -20 | -15 | 6 | -10 | -15 | 2 | 30 |
| 02- | 66.8467- | 159.3850- | 2- | 12- | | 0-405305 | -5 | -5 | -5 | 25 | -20 | -15 | 10 | -10 | -15 | 2 | 31 |
| 02- | 66.8472- | 159.2333- | 2- | 12- | | 0-405306 | -5 | -5 | 5 | 19 | -20 | 15 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.8694- | 159.2267- | 2- | 12- | | 0-405307 | -5 | -5 | -5 | 21 | -20 | -15 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.8692- | 159.1433- | 2- | 12- | | 0-405308 | -5 | -5 | -5 | 22 | 32 | 24 | 7 | -10 | -15 | 2 | 29 |
| 02- | 66.8483- | 159.1600- | 2- | 12- | | 0-405309 | -5 | -5 | -5 | 27 | -20 | 33 | 6 | -10 | -15 | 2 | 35 |
| 02- | 66.8444- | 159.0472- | 2- | 12- | | 0-405310 | -5 | -5 | 5 | 42 | -20 | 36 | -5 | -10 | -15 | 2 | 26 |
| 02- | 66.8967- | 159.0400- | 2- | 12- | | 0-405311 | -5 | -5 | -5 | 38 | 23 | 23 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.9600- | 158.7006- | 2- | 13- | | 0-405315 | -5 | 7 | -5 | 15 | -20 | 20 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.9367- | 158.6850- | 2- | 13- | | 0-405316 | -5 | -5 | -5 | 21 | -20 | 24 | 12 | -10 | -15 | 2 | 26 |
| 02- | 66.9625- | 158.6264- | 2- | 13- | | 0-405317 | -5 | -5 | -5 | 24 | -20 | 29 | 7 | -10 | -15 | 2 | 28 |
| 02- | 66.9489- | 158.6367- | 2- | 13- | | 0-405318 | -5 | -5 | -5 | 18 | -20 | 29 | -5 | -10 | -15 | 3 | 36 |
| 02- | 66.9261- | 158.6750- | 2- | 13- | | 0-405319 | -5 | -5 | -5 | -10 | -20 | -15 | 6 | -10 | -15 | 2 | 25 |
| 02- | 66.9500- | 158.4811- | 2- | 13- | | 0-405320 | -5 | -5 | -5 | 23 | 28 | 19 | 6 | -10 | -15 | 2 | 40 |
| 02- | 66.9000- | 158.0250- | 2- | 13- | | 0-405323 | -5 | -5 | -5 | 18 | -20 | 23 | 8 | -10 | -15 | 2 | 20 |
| 02- | 66.8433- | 158.0175- | 2- | 13- | | 0-405325 | -5 | -5 | -5 | -10 | -20 | -15 | 6 | -10 | -15 | 2 | 6 |
| 02- | 66.8072- | 158.0333- | 2- | 13- | | 0-405326 | -5 | -5 | -5 | 36 | 46 | 28 | 6 | -10 | -15 | 2 | 25 |
| 02- | 66.8133- | 158.0667- | 2- | 13- | | 0-405327 | -5 | -5 | -5 | -10 | 20 | 17 | 6 | -10 | -15 | 2 | 7 |
| 02- | 66.8189- | 158.1383- | 2- | 13- | | 0-405328 | -5 | -5 | -5 | 29 | 27 | 23 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.8167- | 158.2000- | 2- | 13- | | 0-405329 | -5 | -5 | -5 | 26 | 27 | 28 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.8194- | 158.2500- | 2- | 13- | | 0-405330 | -5 | -5 | -5 | 24 | 32 | -15 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.8400- | 158.2367- | 2- | 13- | | 0-405331 | -5 | -5 | -5 | 22 | 30 | 32 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.8342- | 158.1439- | 2- | 13- | | 0-405332 | -5 | -5 | -5 | 33 | 39 | -15 | 5 | -10 | -15 | 2 | 29 |
| 02- | 66.8464- | 158.0800- | 2- | 13- | | 0-405333 | -5 | -5 | -5 | 16 | 36 | 30 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.8733- | 158.0600- | 2- | 13- | | 0-405334 | -5 | -5 | -5 | 30 | -20 | 35 | -5 | -10 | -15 | 2 | 15 |
| 02- | 66.8761- | 158.1350- | 2- | 13- | | 0-405335 | -5 | -5 | 5 | 25 | -20 | 21 | 11 | -10 | -15 | 3 | 24 |
| 02- | 66.8792- | 158.2017- | 2- | 13- | | 0-405336 | -5 | -5 | -5 | 15 | 30 | -15 | -5 | -10 | -15 | 1 | 21 |
| 02- | 66.8900- | 158.2042- | 2- | 13- | | 0-405337 | -5 | -5 | -5 | 38 | -20 | 26 | 13 | -10 | -15 | 2 | 27 |
| 02- | 66.8933- | 158.1367- | 2- | 13- | | 0-405338 | -5 | -5 | -5 | 29 | 26 | 24 | -5 | -10 | -15 | 1 | 7 |
| 02- | 66.8950- | 158.2950- | 2- | 13- | | 0-405350 | -5 | -5 | -5 | 37 | -20 | 15 | 9 | -10 | 23 | 2 | 33 |
| 02- | 66.8722- | 158.2767- | 2- | 13- | | 0-405351 | -5 | -5 | -5 | -10 | -20 | -15 | -5 | -10 | -15 | 2 | 6 |
| 02- | 66.9017- | 158.3683- | 2- | 12- | | 0-405352 | -5 | -5 | -5 | 10 | -20 | 27 | 9 | -10 | -15 | 2 | 28 |
| 02- | 66.8678- | 158.3900- | 2- | 12- | | 0-405353 | -5 | -5 | -5 | 17 | -20 | 30 | 11 | -10 | -15 | 1 | 22 |
| 02- | 66.8433- | 158.3700- | 2- | 12- | | 0-405354 | -5 | -5 | -5 | 13 | -20 | 23 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.8989- | 158.5083- | 2- | 12- | | 0-405355 | -5 | -5 | 5 | 26 | -20 | 28 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.9067- | 158.5567- | 2- | 12- | | 0-405356 | -5 | -5 | 6 | 23 | -20 | 26 | 6 | -10 | 16 | 2 | 29 |
| 02- | 66.8703- | 158.5608- | 2- | 12- | | 0-405357 | -5 | -5 | -5 | 10 | -20 | 26 | -5 | -10 | -15 | 3 | 28 |
| 02- | 66.8442- | 158.5753- | 2- | 12- | | 0-405358 | -5 | -5 | -5 | 26 | -20 | 31 | -5 | -10 | -15 | 3 | 27 |
| 02- | 66.8700- | 158.5322- | 2- | 13- | | 0-405359 | -5 | -5 | -5 | -10 | -20 | 25 | 9 | -10 | -15 | 2 | 28 |
| 02- | 66.8994- | 158.6928- | 2- | 12- | | 0-405361 | -5 | -5 | -5 | 15 | -20 | -15 | 7 | -10 | -15 | 2 | 30 |
| 02- | 66.8669- | 158.7133- | 2- | 12- | | 0-405362 | -5 | -5 | 6 | 19 | -20 | -15 | 8 | -10 | -15 | 2 | 31 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.4306- | 159.5867- | 2- | 13- | | 0-405218 | 77100 | -0.06 | 1097 | 9580 | 124 | -116 | 20.3 | 115 | 6.8 | 7 | 1.9 | 33540 | 9.4 | 11750 | 48 | 0.7 |
| 02- | 66.4000- | 159.5783- | 2- | 13- | | 0-405219 | 99420 | -0.12 | 1083 | 5686 | 122 | -124 | 27.6 | 169 | 9.1 | 7 | 2.2 | 39490 | 5.5 | 22830 | 49 | 0.6 |
| 02- | 66.8569- | 159.7933- | 2- | 12- | | 0-405293 | 60020 | -0.08 | 326 | 10420 | 66 | -104 | 17.5 | 132 | -2.4 | 5 | 1.3 | 25880 | 5.2 | 7895 | 32 | 0.4 |
| 02- | 66.8811- | 159.8300- | 2- | 12- | | 0-405294 | 76200 | -0.06 | 684 | 9550 | 86 | -104 | 18.4 | 99 | 4.6 | 6 | 1.6 | 29870 | 7.5 | 14900 | 44 | 0.5 |
| 02- | 66.8783- | 159.7217- | 2- | 13- | | 0-405296 | 58760 | -0.09 | 486 | 12730 | 82 | -122 | 18.9 | 349 | -2.5 | 6 | 1.6 | 29830 | 5.8 | 5403 | 38 | 0.5 |
| 02- | 66.8367- | 159.7217- | 2- | 13- | | 0-405297 | 69990 | -0.09 | 698 | 10870 | 83 | -117 | 25.8 | 162 | 4.1 | 5 | 1.8 | 41480 | 7.3 | 9582 | 40 | 0.7 |
| 02- | 66.8936- | 159.5233- | 2- | 12- | | 0-405300 | 73060 | -0.09 | 661 | 7625 | 86 | -108 | 16.1 | 92 | 3.8 | 6 | 1.6 | 32990 | 7.2 | 12360 | 37 | 0.7 |
| 02- | 66.8383- | 159.4600- | 2- | 12- | | 0-405301 | 74500 | -0.07 | 749 | 8530 | 82 | -93 | 17.0 | 118 | 4.1 | 6 | 1.5 | 36000 | 9.0 | 12200 | 40 | 0.6 |
| 02- | 66.8367- | 159.5500- | 2- | 12- | | 0-405302 | 74560 | -0.07 | 738 | 12450 | 78 | -101 | 13.9 | 93 | 3.7 | 7 | 1.6 | 25760 | 7.5 | 15800 | 44 | 0.6 |
| 02- | 66.8961- | 159.4267- | 2- | 12- | | 0-405303 | 67950 | -0.08 | 481 | 13570 | 72 | -109 | 23.8 | 189 | 4.0 | 5 | 1.7 | 39130 | 5.5 | 7193 | 35 | 0.5 |
| 02- | 66.8883- | 159.3933- | 2- | 12- | | 0-405304 | 70010 | -0.09 | 542 | 11390 | 92 | -116 | 14.2 | 84 | -2.4 | 6 | 1.6 | 27690 | 9.0 | 15690 | 31 | 0.8 |
| 02- | 66.8467- | 159.3650- | 2- | 12- | | 0-405305 | 70000 | -0.06 | 632 | 14500 | 121 | -98 | 15.5 | 88 | 3.9 | 8 | 1.9 | 29170 | 12.2 | 16300 | 63 | 0.8 |
| 02- | 66.8472- | 159.2333- | 2- | 12- | | 0-405306 | 77350 | -0.07 | 555 | 6561 | 59 | -93 | 14.3 | 92 | 3.3 | 6 | 1.3 | 30420 | 6.5 | 13150 | 35 | 0.5 |
| 02- | 66.8894- | 159.2267- | 2- | 12- | | 0-405307 | 61920 | -0.08 | 600 | 11790 | 167 | -104 | 15.4 | 189 | 5.4 | 8 | 2.3 | 30770 | 13.6 | 9380 | 69 | 1.0 |
| 02- | 66.8892- | 159.1433- | 2- | 12- | | 0-405308 | 74740 | -0.11 | 561 | 9782 | 84 | 132 | 12.3 | 94 | 4.6 | 6 | 1.8 | 23950 | 6.6 | 17440 | 51 | 0.5 |
| 02- | 66.8483- | 159.1600- | 2- | 12- | | 0-405309 | 69200 | -0.06 | 686 | 17200 | 79 | -92 | 17.8 | 90 | 6.8 | 4 | 1.3 | 28170 | 6.2 | 11600 | 45 | 0.5 |
| 02- | 66.8444- | 159.0472- | 2- | 12- | | 0-405310 | 72560 | -0.07 | 742 | 11460 | 49 | -107 | 18.9 | 101 | 3.1 | 5 | 1.3 | 30920 | 4.4 | 8849 | 31 | 0.4 |
| 02- | 66.8967- | 159.0400- | 2- | 12- | | 0-405311 | 74990 | -0.08 | 702 | 12630 | 68 | -118 | 23.0 | 142 | 3.2 | 5 | 1.6 | 37420 | 6.4 | 10170 | 36 | 0.6 |
| 02- | 66.9600- | 158.7006- | 2- | 13- | | 0-405315 | 71660 | -0.09 | 486 | 11260 | 86 | -117 | 14.2 | 81 | 3.9 | 6 | 1.6 | 26890 | 9.1 | 14890 | 49 | 0.6 |
| 02- | 66.9367- | 158.6850- | 2- | 13- | | 0-405316 | 74200 | -0.06 | 616 | 11200 | 100 | -100 | 15.7 | 75 | 3.6 | 8 | 1.7 | 30060 | 11.0 | 18100 | 55 | 0.8 |
| 02- | 66.9625- | 158.6264- | 2- | 13- | | 0-405317 | 67330 | -0.06 | 552 | 13630 | 83 | -95 | 13.5 | 81 | 3.4 | 6 | 1.4 | 24720 | 7.9 | 13050 | 43 | 0.5 |
| 02- | 66.9489- | 158.6367- | 2- | 13- | | 0-405318 | 72520 | -0.08 | 677 | 11310 | 131 | -114 | 16.1 | 87 | 4.5 | 7 | 2.0 | 35090 | 13.5 | 16260 | 54 | 0.9 |
| 02- | 66.9261- | 158.6750- | 2- | 13- | | 0-405319 | 68660 | -0.08 | 501 | 10590 | 84 | -120 | 13.9 | 54 | 4.6 | 5 | 1.6 | 25910 | 9.7 | 14780 | 48 | 0.6 |
| 02- | 66.9500- | 158.4811- | 2- | 13- | | 0-405320 | 81700 | -0.07 | 703 | 8420 | 101 | -105 | 18.3 | 89 | 4.5 | 8 | 1.7 | 32450 | 10.5 | 16400 | 56 | 0.8 |
| 02- | 66.9000- | 158.0250- | 2- | 13- | | 0-405323 | 61910 | -0.05 | 512 | 10100 | 83 | -91 | 10.6 | 64 | 3.1 | 7 | 1.3 | 20960 | 8.5 | 11550 | 42 | 0.6 |
| 02- | 66.8433- | 158.0175- | 2- | 13- | | 0-405325 | 40310 | -0.05 | -168 | 11510 | 113 | -101 | 6.9 | 34 | -1.5 | 6 | 1.1 | 20130 | 10.3 | 10430 | 46 | 1.0 |
| 02- | 66.8072- | 158.0333- | 2- | 13- | | 0-405326 | 72780 | -0.11 | 765 | 11590 | 87 | -128 | 17.6 | 95 | 5.1 | 5 | 1.6 | 28970 | 5.7 | 13510 | 40 | 0.6 |
| 02- | 66.8133- | 158.0667- | 2- | 13- | | 0-405327 | 42900 | -0.05 | -142 | 14200 | 104 | -89 | 7.8 | 38 | -1.4 | 7 | 1.2 | 18530 | 10.2 | 8570 | 52 | 0.8 |
| 02- | 66.8189- | 158.1383- | 2- | 13- | | 0-405328 | 73070 | -0.06 | 711 | 10550 | 68 | -103 | 16.3 | 118 | 3.5 | 5 | 1.3 | 28020 | 5.2 | 12430 | 38 | 0.5 |
| 02- | 66.8167- | 158.2000- | 2- | 13- | | 0-405329 | 77580 | -0.06 | 818 | 10990 | 148 | -106 | 18.4 | 134 | 5.2 | 8 | 2.3 | 34080 | 13.4 | 11730 | 40 | 0.8 |
| 02- | 66.8194- | 158.2500- | 2- | 13- | | 0-405330 | 62500 | -0.07 | 472 | 8686 | 56 | -118 | 10.1 | 44 | -2.4 | 5 | 0.9 | 18000 | 5.2 | 13630 | 20 | 0.5 |
| 02- | 66.8400- | 158.2367- | 2- | 13- | | 0-405331 | 74880 | -0.07 | 630 | 10580 | 90 | -97 | 18.3 | 131 | 3.8 | 7 | 1.6 | 28790 | 7.9 | 14610 | 44 | 0.7 |
| 02- | 66.8342- | 158.1439- | 2- | 13- | | 0-405332 | 68870 | -0.06 | 608 | 13980 | 93 | -100 | 12.3 | 64 | 3.6 | 8 | 1.5 | 23860 | 10.2 | 15570 | 52 | 0.5 |
| 02- | 66.8464- | 158.0800- | 2- | 13- | | 0-405333 | 72620 | -0.08 | 584 | 11680 | 126 | -112 | 16.2 | 90 | 4.4 | 7 | 1.8 | 31200 | 12.8 | 16430 | 60 | 0.9 |
| 02- | 66.8733- | 158.0800- | 2- | 13- | | 0-405334 | 74030 | -0.13 | 636 | 11460 | 88 | 285 | 20.2 | 74 | 5.7 | 5 | 1.5 | 28080 | 5.9 | 24120 | 48 | 0.5 |
| 02- | 66.8761- | 158.1350- | 2- | 13- | | 0-405335 | 67070 | -0.07 | 779 | 41590 | 380 | -108 | 20.1 | 157 | 5.2 | 16 | 3.9 | 41660 | 27.0 | 19990 | 181 | 1.0 |
| 02- | 66.8792- | 158.2017- | 2- | 13- | | 0-405336 | 60930 | -0.06 | 545 | 10600 | 74 | 424 | 13.7 | 105 | -1.8 | 6 | 1.3 | 43910 | 9.0 | 8410 | 44 | 0.5 |
| 02- | 66.8900- | 158.2042- | 2- | 13- | | 0-405337 | 80450 | -0.08 | 655 | 11210 | 96 | 426 | 20.5 | 107 | 5.3 | 6 | 1.8 | 34920 | 9.0 | 14900 | 50 | 0.7 |
| 02- | 66.8933- | 158.1367- | 2- | 13- | | 0-405338 | 41340 | -0.09 | -286 | 20490 | 214 | -164 | 11.1 | 73 | -2.5 | 9 | 1.6 | 47530 | 20.8 | -6846 | 116 | 1.9 |
| 02- | 66.8950- | 158.2950- | 2- | 13- | | 0-405350 | 78420 | -0.06 | 608 | 10370 | 84 | -109 | 18.1 | 101 | 4.0 | 6 | 1.7 | 30200 | 7.7 | 15290 | 48 | 0.6 |
| 02- | 66.8722- | 158.2767- | 2- | 13- | | 0-405351 | 39490 | -0.04 | -136 | 8482 | 60 | 213 | 3.4 | 18 | -1.1 | 5 | 0.7 | 13380 | 7.0 | 8372 | 31 | 0.6 |
| 02- | 66.9017- | 158.3683- | 2- | 12- | | 0-405352 | 69720 | -0.08 | 492 | 11560 | 121 | 464 | 18.7 | 86 | 4.0 | 8 | 1.8 | 34880 | 10.8 | 14260 | 54 | 0.8 |
| 02- | 66.8678- | 158.3900- | 2- | 12- | | 0-405353 | 61690 | -0.08 | 563 | 13100 | 86 | 299 | 14.6 | 68 | 4.6 | 5 | 1.6 | 25630 | 7.8 | 14170 | 48 | 0.6 |
| 02- | 66.8433- | 158.3700- | 2- | 12- | | 0-405354 | 54230 | -0.05 | 436 | 9489 | 84 | -105 | 12.1 | 49 | 2.3 | 5 | 1.4 | 23680 | 9.4 | 10890 | 40 | 0.5 |
| 02- | 66.8989- | 158.5083- | 2- | 12- | | 0-405355 | 74160 | -0.06 | 704 | 9978 | 92 | 424 | 13.1 | 98 | 2.7 | 8 | 1.6 | 25270 | 8.0 | 12970 | 42 | 0.6 |
| 02- | 66.9067- | 158.5567- | 2- | 12- | | 0-405356 | 77070 | -0.07 | 830 | 10320 | 152 | -117 | 18.2 | 96 | 4.3 | 8 | 2.1 | 38850 | 13.3 | 14880 | 59 | 0.9 |
| 02- | 66.8703- | 158.5608- | 2- | 12- | | 0-405357 | 66250 | -0.06 | 497 | 12230 | 90 | -115 | 13.7 | 74 | 3.3 | 6 | 1.6 | 27150 | 10.6 | 17060 | 47 | 0.6 |
| 02- | 66.8442- | 158.5753- | 2- | 12- | | 0-405358 | 76700 | -0.05 | 638 | 11200 | 112 | -104 | 14.9 | 76 | 4.0 | 8 | 1.8 | 31880 | 12.2 | 15000 | 47 | 0.8 |
| 02- | 66.8700- | 158.5322- | 2- | 13- | | 0-405359 | 63760 | -0.04 | 411 | 13730 | 65 | -89 | 9.4 | 44 | 2.4 | 6 | 1.3 | 22020 | 7.3 | 13510 | 36 | 0.5 |
| 02- | 66.8994- | 158.6928- | 2- | 12- | | 0-405361 | 67730 | -0.06 | 552 | 9685 | 84 | -110 | 14.3 | 63 | -2.3 | 6 | 1.3 | 27280 | 9.6 | 13580 | 40 | 0.6 |
| 02- | 66.8689- | 158.7133- | 2- | 12- | | 0-405362 | 74200 | -0.05 | 574 | 8860 | 102 | -98 | 16.6 | 99 | 3.4 | 7 | 1.9 | 32850 | 10.7 | 13000 | 49 | 0.7 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(4)

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm): Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02- | 66.4306- | 159.5867- | 2- | 13- | | 0-405218 | 16880 | 377 | 11610 | -36 | -1 | 19.1 | 9.5 | -430 | -6 | | 13.2 | 5738 | 132 | 5.9 | 225 | 0.235 |
| 02- | 66.4000- | 159.5783- | 2- | 13- | | 0-405219 | 26830 | 389 | 10730 | 106 | -3 | 25.1 | 8.8 | -471 | -7 | | 18.8 | 6202 | 192 | 5.5 | -35 | 0.165 |
| 02- | 66.8569- | 159.7933- | 2- | 12- | | 0-405293 | 20100 | 415 | 13970 | -34 | -2 | 15.1 | 4.8 | -351 | -1 | | 7.3 | 5876 | 126 | 3.9 | -40 | 0.315 |
| 02- | 66.8811- | 159.8300- | 2- | 12- | | 0-405294 | 22300 | 643 | 17100 | 65 | -2 | 16.5 | 6.8 | -359 | -3 | | 15.3 | 6150 | 141 | 4.1 | 138 | 0.255 |
| 02- | 66.8703- | 159.7217- | 2- | 13- | | 0-405296 | 23190 | 713 | 13960 | -37 | -2 | 14.6 | 6.5 | -467 | -1 | -1 | 8.7 | 7444 | 135 | 3.9 | 126 | 0.241 |
| 02- | 66.8367- | 159.7217- | 2- | 13- | | 0-405297 | 23510 | 655 | 14400 | -34 | -2 | 20.3 | 7.3 | -428 | -5 | -1 | 11.6 | 6417 | 141 | 4.9 | 133 | 0.216 |
| 02- | 66.8936- | 159.5233- | 2- | 12- | | 0-405300 | 16390 | 419 | 13490 | -38 | -2 | 14.8 | 5.4 | -376 | -5 | -1 | 9.9 | 6332 | 138 | 4.8 | 78 | 0.323 |
| 02- | 66.8383- | 159.4600- | 2- | 12- | | 0-405301 | 20000 | 366 | 13300 | 41 | -2 | 16.1 | 6.3 | -325 | -3 | | 11.2 | 6630 | 149 | 4.5 | 118 | 0.277 |
| 02- | 66.8367- | 159.5500- | 2- | 12- | | 0-405302 | 21230 | 459 | 13680 | 54 | -2 | 14.8 | 6.5 | -355 | -5 | | 9.2 | 6151 | 133 | 4.7 | 116 | 0.370 |
| 02- | 66.8961- | 159.4267- | 2- | 12- | | 0-405303 | 21020 | 707 | 15590 | 34 | -2 | 21.4 | 7.1 | -403 | -4 | | 9.8 | 5487 | 146 | 5.0 | -30 | 0.214 |
| 02- | 66.8803- | 159.3933- | 2- | 12- | | 0-405304 | 17660 | 644 | 15590 | 40 | -2 | 15.0 | 7.6 | -424 | -7 | | 9.9 | 5760 | 109 | 5.6 | 174 | 0.323 |
| 02- | 66.8467- | 159.3850- | 2- | 12- | | 0-405305 | 21400 | 591 | 16100 | 61 | -1 | 14.7 | 9.7 | -344 | -6 | -1 | 17.1 | 7190 | 112 | 6.6 | 149 | 0.275 |
| 02- | 66.8472- | 159.2333- | 2- | 12- | | 0-405306 | 20910 | 369 | 13390 | 44 | -2 | 14.4 | 5.0 | -318 | -1 | | 9.8 | 6391 | 145 | 4.4 | 121 | 0.306 |
| 02- | 66.8894- | 159.2267- | 2- | 12- | | 0-405307 | 17310 | 485 | 13190 | 51 | -2 | 16.1 | 11.7 | -368 | -7 | -1 | 17.1 | 7613 | 108 | 7.5 | 134 | 0.205 |
| 02- | 66.8892- | 159.1433- | 2- | 12- | | 0-405308 | 17720 | 447 | 14130 | 54 | -3 | 15.2 | 4.8 | -452 | -2 | | 9.4 | 5672 | 120 | 5.4 | -98 | 0.351 |
| 02- | 66.8483- | 159.1600- | 2- | 12- | | 0-405309 | 30000 | 527 | 13200 | 67 | -1 | 12.4 | 6.5 | -332 | -5 | | 14.1 | 5620 | 117 | 4.0 | 135 | 0.227 |
| 02- | 66.8444- | 159.0472- | 2- | 12- | | 0-405310 | 28440 | 743 | 16350 | -27 | -2 | 18.6 | 4.7 | -380 | -1 | | 7.5 | 6232 | 165 | 3.4 | 141 | 0.360 |
| 02- | 66.8967- | 159.0400- | 2- | 12- | | 0-405311 | 27320 | 731 | 16600 | -29 | -2 | 22.1 | 6.5 | -424 | -4 | -1 | 10.0 | 6512 | 157 | 5.8 | -86 | 0.260 |
| 02- | 66.9600- | 158.7006- | 2- | 13- | | 0-405315 | 21090 | 558 | 15120 | -37 | -2 | 14.6 | 6.3 | -419 | -1 | | 10.4 | 6512 | 111 | 5.5 | -54 | 0.308 |
| 02- | 66.9367- | 158.6850- | 2- | 13- | | 0-405316 | 18100 | 632 | 15800 | 76 | -1 | 14.5 | 9.0 | -355 | -8 | -1 | 14.0 | 7560 | 108 | 6.3 | 138 | 0.271 |
| 02- | 66.9625- | 158.6264- | 2- | 13- | | 0-405317 | 21500 | 613 | 15150 | 37 | -1 | 12.3 | 6.2 | -335 | -3 | | 11.3 | 6595 | 103 | 4.0 | 106 | 0.319 |
| 02- | 66.9489- | 158.6367- | 2- | 13- | | 0-405318 | 17620 | 730 | 15730 | 60 | -2 | 16.5 | 8.9 | -430 | -6 | | 14.8 | 7907 | 118 | 6.1 | 223 | 0.216 |
| 02- | 66.9261- | 158.6750- | 2- | 13- | | 0-405319 | 14970 | 655 | 15740 | -34 | -2 | 13.4 | 6.4 | -428 | -2 | -1 | 12.0 | 6062 | 113 | 4.8 | 122 | 0.325 |
| 02- | 66.9500- | 158.4811- | 2- | 13- | | 0-405320 | 17900 | 457 | 15200 | 51 | -2 | 15.8 | 9.0 | -361 | -7 | | 14.9 | 6820 | 123 | 5.9 | 139 | 0.215 |
| 02- | 66.9000- | 158.0250- | 2- | 13- | | 0-405323 | 13800 | 507 | 14410 | 29 | -1 | 11.6 | 6.2 | -310 | -5 | 1 | 10.3 | 6907 | 90 | 4.1 | 151 | 0.340 |
| 02- | 66.8433- | 158.0175- | 2- | 13- | | 0-405325 | 6250 | 995 | 13130 | 40 | -1 | 12.7 | 7.9 | -397 | 1 | | 12.2 | 8638 | 38 | 7.4 | -31 | 0.205 |
| 02- | 66.8072- | 158.0333- | 2- | 13- | | 0-405326 | 20660 | 526 | 12210 | -48 | -3 | 16.1 | 5.3 | -486 | -1 | -1 | 10.9 | 6336 | 136 | 5.1 | -136 | 0.284 |
| 02- | 66.8133- | 158.0667- | 2- | 13- | | 0-405327 | 10400 | 746 | 13400 | 31 | -1 | 11.0 | 7.2 | -332 | 1 | | 13.8 | 7910 | 48 | 6.5 | 110 | 0.203 |
| 02- | 66.8189- | 158.1383- | 2- | 13- | | 0-405328 | 25980 | 572 | 16750 | 42 | -2 | 15.4 | 4.7 | -347 | -2 | | 10.5 | 5826 | 138 | 3.3 | -95 | 0.305 |
| 02- | 66.8167- | 158.2000- | 2- | 13- | | 0-405329 | 19180 | 477 | 13870 | 46 | -1 | 18.0 | 7.3 | -380 | -9 | | 13.7 | 7596 | 130 | 6.5 | -14 | 0.270 |
| 02- | 66.8194- | 158.2500- | 2- | 13- | | 0-405330 | 14810 | 332 | 14180 | 74 | -2 | 10.7 | 2.7 | -387 | -1 | -1 | 6.5 | 4090 | 82 | 2.7 | 152 | 0.323 |
| 02- | 66.8400- | 158.2367- | 2- | 13- | | 0-405331 | 22350 | 554 | 14480 | 52 | -2 | 16.7 | 7.3 | -353 | | | 12.3 | 6557 | 140 | 4.7 | 136 | 0.244 |
| 02- | 66.8342- | 158.1439- | 2- | 13- | | 0-405332 | 20590 | 593 | 16250 | 52 | -1 | 12.3 | 7.7 | -351 | | | 12.0 | 6274 | 124 | 5.1 | | 0.367 |
| 02- | 66.8464- | 158.0800- | 2- | 13- | | 0-405333 | 16920 | 606 | 15660 | 65 | -2 | 16.2 | 10.5 | -399 | | | 16.6 | 7099 | 116 | 5.7 | 151 | 0.214 |
| 02- | 66.8733- | 158.0800- | 2- | 13- | | 0-405334 | 23160 | 574 | 11630 | -55 | -4 | 15.4 | 4.7 | -575 | -2 | -1 | 10.7 | 4736 | 136 | 4.0 | 211 | 0.290 |
| 02- | 66.8761- | 158.1350- | 2- | 13- | | 0-405335 | 31170 | 920 | 15130 | 65 | -2 | 19.4 | 33.5 | 613 | 2 | 2 | 53.5 | 11570 | 166 | 10.4 | 104 | 0.183 |
| 02- | 66.8792- | 158.2017- | 2- | 13- | | 0-405336 | 15020 | 827 | 13350 | 46 | -2 | 11.1 | 6.7 | -400 | -1 | | 10.3 | 5998 | 101 | 3.7 | 110 | 0.398 |
| 02- | 66.8900- | 158.2042- | 2- | 13- | | 0-405337 | 21210 | 707 | 18420 | 59 | -2 | 18.1 | 7.9 | -441 | -1 | | 16.5 | 6112 | 144 | 6.1 | 138 | 0.255 |
| 02- | 66.8933- | 158.1367- | 2- | 13- | | 0-405338 | -7432 | 2537 | 8418 | -35 | -2 | 28.7 | 13.0 | -678 | 2 | -1 | 23.4 | 17210 | 82 | 13.1 | | 0.239 |
| 02- | 66.8950- | 158.2950- | 2- | 13- | | 0-405350 | 20010 | 665 | 17590 | 50 | -2 | 15.6 | 7.1 | -376 | -1 | | 13.8 | 6621 | 134 | 5.4 | 136 | 0.290 |
| 02- | 66.8722- | 158.2767- | 2- | 13- | | 0-405351 | 4081 | 826 | 12900 | 19 | -1 | 8.6 | 4.1 | -315 | 1 | | 8.1 | 6875 | 31 | 4.6 | | 0.272 |
| 02- | 66.9017- | 158.3683- | 2- | 12- | | 0-405352 | 13340 | 1647 | 14030 | 64 | -2 | 15.5 | 9.4 | -606 | -1 | -1 | 13.8 | 6631 | 102 | 6.6 | -88 | 0.225 |
| 02- | 66.8678- | 158.3900- | 2- | 12- | | 0-405353 | 13830 | 1022 | 15440 | 67 | -2 | 12.2 | 6.7 | -491 | -1 | | 13.9 | 5626 | 98 | 4.0 | -138 | 0.475 |
| 02- | 66.8433- | 158.3700- | 2- | 12- | | 0-405354 | 12360 | 1047 | 14370 | 44 | -1 | 10.9 | 6.7 | -406 | | | 9.6 | 5603 | 78 | 4.8 | 88 | 0.271 |
| 02- | 66.8989- | 158.5083- | 2- | 12- | | 0-405355 | 18410 | 481 | 13880 | 57 | -2 | 13.6 | 7.5 | -338 | -1 | | 10.3 | 7451 | 136 | 4.7 | 136 | 0.350 |
| 02- | 66.9067- | 158.5567- | 2- | 12- | | 0-405356 | 20210 | 633 | 15160 | 80 | -2 | 18.6 | 11.3 | -422 | 2 | -1 | 18.2 | 6952 | 116 | 6.5 | -31 | 0.192 |
| 02- | 66.8703- | 158.5608- | 2- | 12- | | 0-405357 | 19100 | 580 | 15800 | -34 | -1 | 13.2 | 6.8 | -402 | -1 | -1 | 13.2 | 6691 | 122 | 5.2 | | 0.356 |
| 02- | 66.8442- | 158.5753- | 2- | 12- | | 0-405358 | 20200 | 673 | 16000 | 67 | -1 | 15.6 | 9.7 | -372 | 2 | | 14.2 | 7600 | 125 | 6.0 | | 0.246 |
| 02- | 66.8700- | 158.5322- | 2- | 13- | | 0-405359 | 14110 | 466 | 16170 | 42 | -1 | 11.1 | 6.1 | -286 | -1 | | 8.2 | 5832 | 89 | 4.7 | -5 | 0.354 |
| 02- | 66.8994- | 158.6928- | 2- | 12- | | 0-405361 | 15600 | 525 | 14350 | 54 | -1 | 13.9 | 6.1 | -388 | -1 | | 10.3 | 6453 | 111 | 5.6 | -69 | 0.311 |
| 02- | 66.8669- | 158.7133- | 2- | 12- | | 0-405362 | 19300 | 528 | 14500 | 53 | -1 | 16.0 | 7.7 | -339 | | -1 | 12.9 | 7370 | 135 | 5.9 | 125 | 0.256 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.8736- | 158.6733- | 2- | 12- | | 0-405363- | 08/23/76- | 15- | 16- | 12.1- | - | - | 8.1- | 165- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 3- | 1- | - | - | - | - | - | - | 3.10 |
| 02- | 66.8400- | 158.7367- | 2- | 12- | | 0-405364- | 08/23/76- | 15- | 16- | 12.0- | - | - | 8.3- | 171- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 3.10 |
| 02- | 66.8714- | 158.7808- | 2- | 12- | | 0-405365- | 08/23/76- | 15- | 16- | 12.0- | - | - | 8.1- | 132- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 3.50 |
| 02- | 66.8939- | 158.7775- | 2- | 12- | | 0-405366- | 08/23/76- | 15- | 16- | 11.9- | - | - | 8.4- | 172- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 3.40 |
| 02- | 66.9094- | 158.8233- | 2- | 12- | | 0-405367- | 08/23/76- | 15- | 16- | 12.1- | - | - | 7.9- | 156- | | -2- | 7- | 6- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 3- | 2- | -1- | - | - | - | - | - | 3.30 |
| 02- | 66.8958- | 158.9158- | 2- | 12- | | 0-405369- | 08/23/76- | 15- | 17- | 10.4- | - | - | 8.7- | 271- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | - | 3.60 |
| 02- | 66.8697- | 158.8825- | 2- | 12- | | 0-405370- | 08/23/76- | 15- | 17- | 11.2- | - | - | 8.4- | 231- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 3- | 2- | -1- | - | - | - | - | - | 3.20 |
| 02- | 66.8442- | 158.7633- | 2- | 12- | | 0-405371- | 08/23/76- | 15- | 17- | 11.7- | - | - | 8.2- | 221- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 3.00 |
| 02- | 66.8358- | 158.8933- | 2- | 12- | | 0-405372- | 08/23/76- | 15- | 18- | 11.9- | - | - | 8.0- | 172- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 3.40 |
| 02- | 66.8392- | 158.9667- | 2- | 12- | | 0-405373- | 08/23/76- | 15- | 16- | 12.3- | - | - | 7.9- | 203- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | - | 2.70 |
| 02- | 66.8706- | 158.9450- | 2- | 13- | | 0-405374- | 08/23/76- | 15- | 16- | 15.9- | - | -S- | 8.8- | 32- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 2- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.8822- | 158.9792- | 2- | 13- | | 0-405376- | 08/23/76- | 15- | 18- | 11.8- | - | -S- | 7.2- | 18- | | -2- | 7- | 4- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | - | - | 2.80 |
| 02- | 66.7983- | 159.0333- | 2- | 13- | | 0-405377- | 08/23/76- | 15- | 18- | 16.2- | - | -S- | 7.0- | 26- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 2- | 1- | -1- | - | - | - | - | - | - | - | 3.30 |
| 02- | 66.7792- | 159.0200- | 2- | 13- | | 0-405378- | 08/23/76- | 15- | 18- | 16.3- | - | -S- | 7.3- | 26- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.00 |
| 02- | 66.8017- | 159.1300- | 2- | 13- | | 0-405379- | 08/23/76- | 15- | 18- | 16.1- | - | -S- | 7.0- | 10- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 2- | -1- | - | - | - | - | - | - | - | 4.00 |
| 02- | 66.8003- | 159.2517- | 2- | 13- | | 0-405382- | 08/23/76- | 15- | 18- | 16.0- | - | -S- | 7.7- | 46- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | - | - | 2.90 |
| 02- | 66.7967- | 159.3667- | 2- | 13- | | 0-405383- | 08/23/76- | 16- | 18- | 16.4- | - | -S- | 8.1- | 17- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.7600- | 159.3667- | 2- | 13- | | 0-405384- | 08/23/76- | 16- | 18- | 14.4- | - | -S- | 7.6- | 28- | | -2- | 7- | 6- | 6- | -3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | - | - | 3.40 |
| 02- | 66.3733- | 158.9900- | 2- | 13- | | 0-405416- | 08/24/76- | 10- | 14- | 15.5- | - | -S- | 9.4- | 71- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.3742- | 158.9558- | 2- | 13- | | 0-405417- | 08/24/76- | 10- | 15- | 16.0- | - | -S- | 9.2- | 69- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.3700- | 158.8656- | 2- | 13- | | 0-405418- | 08/24/76- | 10- | 15- | 16.6- | - | -S- | 8.7- | 39- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 2.80 |
| 02- | 66.3833- | 158.7875- | 2- | 13- | | 0-405419- | 08/24/76- | 10- | 15- | 16.0- | - | -S- | 8.4- | 44- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 2.20 |
| 02- | 66.3825- | 158.7108- | 2- | 13- | | 0-405420- | 08/24/76- | 10- | 15- | 14.0- | - | -S- | 8.5- | 55- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.50 |
| 02- | 66.3733- | 158.6600- | 2- | 13- | | 0-405421- | 08/24/76- | - | 15- | 13.7- | - | -S- | 8.3- | 63- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.20 |
| 02- | 66.3933- | 158.6792- | 2- | 13- | | 0-405422- | 08/24/76- | 11- | 16- | 14.1- | - | -S- | 7.6- | 28- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.30 |
| 02- | 66.4103- | 158.7194- | 2- | 13- | | 0-405423- | 08/24/76- | 11- | 16- | 13.8- | - | -S- | 7.2- | 35- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.00 |
| 02- | 66.4233- | 158.6367- | 2- | 13- | | 0-405424- | 08/24/76- | 11- | 15- | 14.4- | - | -S- | 7.8- | 90- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.4250- | 158.7167- | 2- | 13- | | 0-405425- | 08/24/76- | 11- | 15- | 14.0- | - | -S- | 7.4- | 86- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.00 |
| 02- | 66.4658- | 158.6500- | 2- | 12- | | 0-405426- | 08/24/76- | 11- | 15- | 14.2- | - | - | 8.7- | 127- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 2- | 2- | 1- | 2- | -1- | - | - | - | - | - | 3.50 |
| 02- | 66.4533- | 158.7472- | 2- | 12- | | 0-405427- | 08/24/76- | 11- | 15- | 13.9- | - | - | 8.2- | 105- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 3- | 2- | 1- | 2- | -1- | - | - | - | - | - | 2.20 |
| 02- | 66.4667- | 158.7692- | 2- | 13- | | 0-405428- | 08/24/76- | 11- | 15- | 14.3- | - | -S- | 9.9- | 32- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.30 |
| 02- | 66.4333- | 158.7967- | 2- | 13- | | 0-405429- | 08/24/76- | 11- | 15- | 14.0- | - | -S- | 8.7- | 56- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.4039- | 158.8050- | 2- | 13- | | 0-405430- | 08/24/76- | 11- | 15- | 16.4- | - | -S- | 9.1- | 69- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.40 |
| 02- | 66.4042- | 158.8861- | 2- | 13- | | 0-405431- | 08/24/76- | 11- | 15- | 15.8- | - | -S- | 8.4- | 75- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.30 |
| 02- | 66.3933- | 158.9433- | 2- | 13- | | 0-405432- | 08/24/76- | 11- | 15- | 14.1- | - | -S- | 7.9- | 11- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 2.60 |
| 02- | 66.3972- | 158.9917- | 2- | 13- | | 0-405433- | 08/24/76- | 11- | 15- | 14.2- | - | -S- | 7.8- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 2.90 |
| 02- | 66.4258- | 158.9892- | 2- | 13- | | 0-405434- | 08/24/76- | 11- | 15- | 14.4- | - | -S- | 8.1- | 57- | | -2- | 7- | 5- | 6- | -3- | 2- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.70 |
| 02- | 66.4233- | 158.9392- | 2- | 13- | | 0-405435- | 08/24/76- | 11- | 15- | 14.2- | - | -S- | 7.8- | 65- | | -2- | 7- | 5- | 6- | -3- | 3- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.60 |
| 02- | 66.4272- | 158.8892- | 2- | 13- | | 0-405436- | 08/24/76- | 11- | 15- | 14.4- | - | -S- | 7.9- | 24- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.50 |
| 02- | 66.4600- | 158.8717- | 2- | 13- | | 0-405437- | 08/24/76- | 11- | 15- | 14.3- | - | -S- | 7.6- | 30- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.20 |
| 02- | 66.4708- | 158.9500- | 2- | 13- | | 0-405438- | 08/24/76- | 11- | 15- | 14.4- | - | -S- | 8.7- | 51- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.20 |
| 02- | 66.4606- | 158.9883- | 2- | 13- | | 0-405439- | 08/24/76- | 11- | 15- | 14.4- | - | -S- | 9.2- | 42- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.30 |
| 02- | 66.4975- | 158.9906- | 2- | 13- | | 0-405440- | 08/24/76- | 11- | 15- | 14.7- | - | -S- | 8.4- | 35- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.4975- | 158.9467- | 2- | 13- | | 0-405441- | 08/24/76- | 11- | 15- | 14.2- | - | -S- | 8.0- | 46- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.60 |
| 02- | 66.5100- | 158.9000- | 2- | 13- | | 0-405444- | 08/24/76- | 11- | 16- | 14.1- | - | -S- | 8.2- | 54- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.40 |
| 02- | 66.4922- | 158.8650- | 2- | 13- | | 0-405445- | 08/24/76- | 11- | 16- | 13.8- | - | -S- | 7.8- | 75- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.20 |
| 02- | 66.4917- | 158.8042- | 2- | 13- | | 0-405446- | 08/24/76- | 11- | 16- | 14.8- | - | -S- | 7.9- | 14- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.50 |
| 02- | 66.5133- | 158.7967- | 2- | 13- | | 0-405447- | 08/24/76- | 11- | 16- | 14.8- | - | -S- | 8.2- | 26- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.30 |
| 02- | 66.5231- | 158.7192- | 2- | 13- | | 0-405448- | 08/24/76- | 12- | 16- | 14.1- | - | -S- | 7.6- | 41- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.20 |
| 02- | 66.4917- | 158.7300- | 2- | 13- | | 0-405449- | 08/24/76- | 12- | 16- | 13.8- | - | -S- | 7.8- | 29- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |
| 02- | 66.4922- | 158.6417- | 2- | 13- | | 0-405450- | 08/24/76- | 12- | 16- | 14.6- | - | -S- | 7.9- | 28- | | -2- | 7- | 5- | 6- | -3- | 1- | -4- | 3- | 1- | 2- | -1- | - | - | - | - | - | - | - | 3.10 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

②

| DOE SAMPLE NUMBER (STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE) | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02-66.8736-158.6733-2-12- | 0-405363 | -5 | -5 | -5 | 21 | -20 | -15 | 7 | -10 | -15 | 3 | 29 |
| 02-66.8400-158.7367-2-12- | 0-405364 | -5 | -5 | -5 | 18 | -20 | 30 | 9 | -10 | -15 | 2 | 30 |
| 02-66.8714-158.7806-2-12- | 0-405365 | -5 | -5 | -5 | 25 | -20 | 25 | -5 | -10 | 16 | 3 | 29 |
| 02-66.8939-158.7775-2-12- | 0-405366 | 5 | 5 | 5 | 21 | -20 | 31 | -5 | -10 | -15 | 3 | 31 |
| 02-66.9094-158.8233-2-12- | 0-405367 | -5 | -5 | -5 | 24 | -20 | 29 | 6 | -10 | -15 | 2 | 27 |
| 02-66.8956-158.9158-2-12- | 0-405369 | -5 | -5 | -5 | 18 | -20 | 16 | -5 | -10 | -15 | 3 | 19 |
| 02-66.8697-158.8825-2-12- | 0-405370 | -5 | -5 | -5 | 17 | -20 | -15 | -5 | -10 | -15 | 2 | 21 |
| 02-66.8442-158.7633-2-12- | 0-405371 | -5 | -5 | -5 | 20 | -20 | 17 | -5 | -10 | -15 | 2 | 26 |
| 02-66.8356-158.8933-2-12- | 0-405372 | -5 | -5 | -5 | 22 | -20 | 30 | -5 | -10 | -15 | 2 | 27 |
| 02-66.8392-158.9667-2-12- | 0-405373 | -5 | -5 | -5 | 17 | -20 | 17 | 6 | -10 | -15 | 2 | 28 |
| 02-66.8706-158.9450-2-13- | 0-405374 | -5 | -5 | -5 | 15 | -20 | 24 | 9 | -10 | -15 | 3 | 31 |
| 02-66.8822-158.9792-2-13- | 0-405376 | -5 | -5 | -5 | 11 | -20 | -15 | -5 | -10 | -15 | 2 | 13 |
| 02-66.7983-159.0333-2-13- | 0-405377 | -5 | 5 | -5 | 27 | -20 | 18 | 12 | -10 | -15 | 3 | 32 |
| 02-66.7792-159.0200-2-13- | 0-405378 | -5 | -5 | -5 | 27 | -20 | 27 | -5 | -10 | -15 | 2 | 28 |
| 02-66.8017-159.1300-2-13- | 0-405379 | -5 | -5 | -5 | 25 | -20 | 45 | 5 | -10 | -15 | 2 | 28 |
| 02-66.8003-159.2517-2-13- | 0-405382 | -5 | -5 | -5 | 27 | -20 | 27 | -5 | -10 | -15 | 2 | 29 |
| 02-66.7967-159.3667-2-13- | 0-405383 | -5 | -5 | -5 | 19 | -20 | 32 | -5 | -10 | -15 | 2 | 28 |
| 02-66.7600-159.3667-2-13- | 0-405384 | -5 | -5 | -5 | 18 | -20 | 25 | 5 | -10 | -15 | 2 | 23 |
| 02-66.3733-158.9900-2-13- | 0-405416 | -5 | -5 | -5 | 44 | -20 | 51 | -5 | -10 | -15 | 3 | 34 |
| 02-66.3742-158.9558-2-13- | 0-405417 | -5 | -5 | -5 | 45 | -20 | 47 | 9 | -10 | -15 | 3 | 32 |
| 02-66.3700-158.8656-2-13- | 0-405418 | -5 | -5 | -5 | 21 | -20 | 22 | -5 | -10 | -15 | 2 | 25 |
| 02-66.3833-158.7875-2-13- | 0-405419 | -5 | -5 | -5 | 10 | -20 | 28 | -5 | -10 | -15 | 2 | 9 |
| 02-66.3825-158.7108-2-13- | 0-405420 | -5 | -5 | -5 | 52 | -20 | 44 | 7 | -10 | -15 | 3 | 29 |
| 02-66.3733-158.6600-2-13- | 0-405421 | -5 | -5 | -5 | 46 | -20 | 63 | 7 | -10 | -15 | 3 | 32 |
| 02-66.3933-158.6792-2-13- | 0-405422 | -5 | -5 | 5 | 35 | -20 | 58 | 6 | -10 | -15 | 2 | 32 |
| 02-66.4103-158.7194-2-13- | 0-405423 | -5 | -5 | -5 | 27 | -20 | 35 | 5 | -10 | -15 | 3 | 27 |
| 02-66.4233-158.6367-2-13- | 0-405424 | -5 | -5 | -5 | 40 | -20 | 38 | 6 | -10 | -15 | 2 | 25 |
| 02-66.4250-158.7167-2-13- | 0-405425 | -5 | -5 | -5 | 38 | -20 | 36 | -5 | -10 | -15 | 2 | 20 |
| 02-66.4658-158.6500-2-12- | 0-405426 | -5 | -5 | -5 | 10 | -20 | 26 | -5 | -10 | -15 | 2 | 24 |
| 02-66.4533-158.7472-2-12- | 0-405427 | | | | | | | | | | | |
| 02-66.4667-158.7692-2-13- | 0-405428 | -5 | -5 | -5 | 24 | -20 | 37 | 6 | -10 | -15 | 2 | 27 |
| 02-66.4333-158.7967-2-13- | 0-405429 | -5 | -5 | -5 | 10 | -20 | 33 | -5 | -10 | -15 | 2 | 29 |
| 02-66.4039-158.8050-2-13- | 0-405430 | -5 | -5 | -5 | 29 | -20 | 26 | -5 | -10 | -15 | 2 | 30 |
| 02-66.4042-158.8861-2-13- | 0-405431 | -5 | -5 | -5 | 18 | 25 | 32 | -5 | -10 | -15 | 2 | 22 |
| 02-66.3933-158.9433-2-13- | 0-405432 | -5 | -5 | -5 | 36 | -20 | 25 | 6 | -10 | -15 | 2 | 19 |
| 02-66.3972-158.9917-2-13- | 0-405433 | -5 | -5 | -5 | 21 | -20 | 26 | 7 | -10 | -15 | 3 | 25 |
| 02-66.4258-158.9892-2-13- | 0-405434 | -5 | 7 | -5 | 22 | -20 | 34 | 10 | -10 | -15 | 2 | 34 |
| 02-66.4233-158.9392-2-13- | 0-405435 | -5 | -5 | -5 | 25 | -20 | 23 | -5 | -10 | -15 | 2 | 29 |
| 02-66.4272-158.8892-2-13- | 0-405436 | -5 | -5 | 6 | 29 | -20 | 35 | -5 | -10 | -15 | 2 | 37 |
| 02-66.4600-158.8717-2-13- | 0-405437 | -5 | -5 | -5 | 27 | -20 | -15 | -5 | -10 | -15 | 2 | 29 |
| 02-66.4708-158.9500-2-13- | 0-405438 | -5 | -5 | -5 | 46 | -20 | 21 | 11 | -10 | -15 | 3 | 37 |
| 02-66.4606-158.9883-2-13- | 0-405439 | -5 | -5 | -5 | 35 | -20 | 45 | 8 | -10 | -15 | 3 | 32 |
| 02-66.4975-158.9906-2-13- | 0-405440 | -5 | -5 | -5 | 11 | -20 | 15 | -5 | -10 | -15 | 3 | 25 |
| 02-66.4975-158.9467-2-13- | 0-405441 | -5 | -5 | -5 | 27 | -20 | 31 | -5 | -10 | -15 | 3 | 30 |
| 02-66.5100-158.9000-2-13- | 0-405444 | -5 | -5 | -5 | 28 | -20 | 34 | -5 | -10 | -15 | 2 | 30 |
| 02-66.4922-158.8650-2-13- | 0-405445 | -5 | -5 | -5 | 14 | -20 | 40 | 8 | -10 | -15 | 2 | 32 |
| 02-66.4917-158.8042-2-13- | 0-405446 | -5 | -5 | -5 | 32 | -20 | 35 | -5 | -10 | -15 | 2 | 31 |
| 02-66.5133-158.7967-2-13- | 0-405447 | -5 | -5 | -5 | 39 | -20 | 26 | 5 | -10 | -15 | 3 | 37 |
| 02-66.5231-158.7192-2-13- | 0-405448 | -5 | -5 | -5 | 20 | -20 | 22 | -5 | -10 | -15 | 2 | 33 |
| 02-66.4917-158.7300-2-13- | 0-405449 | -5 | -5 | -5 | 31 | -20 | 30 | 5 | -10 | -15 | 2 | 27 |
| 02-66.4922-158.6417-2-13- | 0-405450 | -5 | -5 | -5 | 23 | -20 | 32 | -5 | -10 | -15 | 3 | 29 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.8736- | 158.6733- | 2- | 12- | | 0-405363 | 66950 | -0.05 | 559 | 9734 | 75 | -94 | 12.1 | 63 | 3.1 | 7 | 1.5 | 25770 | 8.4 | 16190 | 43 | 0.5 |
| 02- | 66.8400- | 158.7367- | 2- | 12- | | 0-405364 | 67890 | -0.06 | 511 | 11980 | 121 | -104 | 16.4 | 140 | 3.7 | 8 | 2.2 | 34220 | 11.6 | 14790 | 54 | 0.8 |
| 02- | 66.8714- | 158.7808- | 2- | 12- | | 0-405365 | 71700 | -0.08 | 512 | 10890 | 92 | -140 | 17.7 | 72 | -2.9 | 6 | 1.8 | 39270 | 10.0 | 15340 | 54 | 0.6 |
| 02- | 66.8939- | 158.7775- | 2- | 12- | | 0-405366 | 75100 | -0.05 | 703 | 9850 | 112 | -104 | 17.3 | 87 | 4.8 | 9 | 1.9 | 33290 | 11.1 | 18100 | 47 | 0.8 |
| 02- | 66.9094- | 158.8233- | 2- | 12- | | 0-405367 | 72830 | -0.05 | 589 | 10900 | 79 | -95 | 13.9 | 81 | 3.8 | 7 | 1.5 | 30050 | 9.3 | 14900 | 38 | 0.5 |
| 02- | 66.8958- | 158.9158- | 2- | 12- | | 0-405369 | 60100 | -0.05 | 478 | 14210 | 126 | -101 | 11.3 | 62 | -1.9 | 8 | 1.9 | 27070 | 13.9 | 11620 | 57 | 0.9 |
| 02- | 66.8697- | 158.8825- | 2- | 12- | | 0-405370 | 61110 | -0.06 | 528 | 11320 | 77 | -107 | 10.9 | 54 | -2.1 | 6 | 1.6 | 23070 | 8.8 | 13390 | 41 | 0.6 |
| 02- | 66.8442- | 158.7633- | 2- | 12- | | 0-405371 | 65900 | -0.04 | 520 | 9860 | 103 | -94 | 14.9 | 77 | 3.3 | 7 | 1.6 | 28430 | 10.8 | 12800 | 47 | 0.7 |
| 02- | 66.8358- | 158.8933- | 2- | 12- | | 0-405372 | 63480 | -0.04 | 623 | 13260 | 86 | -90 | 12.8 | 80 | 3.1 | 6 | 1.3 | 25940 | 8.7 | 13290 | 43 | 0.5 |
| 02- | 66.8392- | 158.9667- | 2- | 12- | | 0-405373 | 62700 | -0.05 | 499 | 9982 | 98 | -103 | 14.1 | 71 | 3.2 | 6 | 1.8 | 30310 | 11.2 | 13440 | 40 | 0.8 |
| 02- | 66.8706- | 158.9450- | 2- | 13- | | 0-405374 | 74230 | -0.07 | 624 | 10900 | 78 | -117 | 15.5 | 65 | 3.9 | 6 | 1.7 | 28080 | 6.3 | 14780 | 42 | 0.7 |
| 02- | 66.8822- | 158.9792- | 2- | 13- | | 0-405376 | 49500 | -0.04 | 289 | 9240 | 85 | -93 | 7.8 | 39 | -1.4 | 6 | 1.1 | 21670 | 12.4 | 10900 | 44 | 0.9 |
| 02- | 66.7983- | 159.0333- | 2- | 13- | | 0-405377 | 78980 | -0.06 | 687 | 10210 | 76 | -103 | 10.5 | 74 | 4.8 | 7 | 1.5 | 22930 | 7.7 | 16940 | 41 | 0.5 |
| 02- | 66.7792- | 159.0200- | 2- | 13- | | 0-405378 | 76390 | -0.06 | 632 | 8241 | 114 | -105 | 21.1 | 140 | 4.4 | 6 | 1.7 | 42460 | 10.1 | 11450 | 47 | 0.8 |
| 02- | 66.8017- | 159.1300- | 2- | 13- | | 0-405379 | 65070 | -0.06 | 445 | 8775 | 99 | -101 | 15.0 | 106 | 3.1 | 7 | 1.7 | 27440 | 11.2 | 14310 | 49 | 0.7 |
| 02- | 66.8003- | 159.2517- | 2- | 13- | | 0-405382 | 69200 | -0.05 | 610 | 10700 | 90 | -94 | 18.1 | 139 | 2.7 | 7 | 1.7 | 30730 | 8.6 | 12400 | 50 | 0.7 |
| 02- | 66.7967- | 159.3667- | 2- | 13- | | 0-405383 | 77520 | -0.06 | 643 | 8596 | 80 | -106 | 13.8 | 79 | -2.4 | 7 | 1.6 | 25730 | 6.0 | 14830 | 40 | 0.6 |
| 02- | 66.7600- | 159.3667- | 2- | 13- | | 0-405384 | 63230 | -0.05 | 511 | 12650 | 121 | -103 | 13.7 | 67 | 3.1 | 8 | 2.0 | 28230 | 14.7 | 14880 | 52 | 1.0 |
| 02- | 66.3733- | 158.9900- | 2- | 13- | | 0-405416 | 81860 | -0.10 | 849 | 9164 | 61 | -136 | 22.7 | 100 | 5.9 | 6 | 1.6 | 34550 | 5.8 | 19000 | 42 | 0.5 |
| 02- | 66.3742- | 158.9558- | 2- | 13- | | 0-405417 | 86300 | -0.08 | 963 | 8870 | 91 | -119 | 22.0 | 122 | 7.0 | 7 | 1.8 | 37320 | 5.9 | 17600 | 47 | 0.8 |
| 02- | 66.3700- | 158.8656- | 2- | 13- | | 0-405418 | 42150 | -0.04 | 227 | 17300 | 79 | -87 | 10.1 | 227 | -1.5 | 6 | 1.3 | 21730 | 6.7 | 5504 | 42 | 0.5 |
| 02- | 66.3833- | 158.7875- | 2- | 13- | | 0-405419 | 40670 | -0.04 | 246 | 15010 | 112 | -87 | 10.9 | 245 | -1.6 | 5 | 1.6 | 23840 | 8.0 | 3734 | 49 | 0.6 |
| 02- | 66.3825- | 158.7108- | 2- | 13- | | 0-405420 | 84910 | -0.10 | 1009 | 9214 | 90 | -127 | 21.2 | 129 | 8.5 | 6 | 1.8 | 33260 | 6.0 | 14220 | 44 | 0.6 |
| 02- | 66.3733- | 158.6600- | 2- | 13- | | 0-405421 | 84200 | -0.08 | 1150 | 8330 | 104 | -109 | 25.6 | 124 | 7.4 | 6 | 1.9 | 39010 | 6.6 | 18300 | 43 | 0.7 |
| 02- | 66.3933- | 158.6792- | 2- | 13- | | 0-405422 | 78300 | -0.07 | 873 | 8308 | 86 | -106 | 19.4 | 90 | 3.9 | 8 | 1.6 | 28850 | 6.3 | 16030 | 44 | 0.5 |
| 02- | 66.4103- | 158.7194- | 2- | 13- | | 0-405423 | 82700 | -0.08 | 987 | 8787 | 125 | -119 | 24.6 | 135 | 6.1 | 7 | 2.5 | 37410 | 7.7 | 14820 | 47 | 0.6 |
| 02- | 66.4233- | 158.6367- | 2- | 13- | | 0-405424 | 73110 | -0.10 | 974 | 9767 | 52 | -136 | 17.5 | 95 | 4.3 | 5 | 1.5 | 32010 | 3.8 | 14880 | 42 | 0.5 |
| 02- | 66.4250- | 158.7167- | 2- | 13- | | 0-405425 | 75200 | -0.08 | 854 | 11400 | 83 | -113 | 22.9 | 119 | 6.2 | 6 | 1.9 | 33480 | 5.6 | 15700 | 41 | 0.5 |
| 02- | 66.4658- | 158.6500- | 2- | 12- | | 0-405426 | 68850 | -0.05 | 568 | 13520 | 85 | -98 | 11.3 | 58 | -1.8 | 7 | 1.5 | 23470 | 9.3 | 11770 | 39 | 0.6 |
| 02- | 66.4533- | 158.7472- | 2- | 12- | | 0-405427 | 48400 | -0.08 | 277 | 16640 | 104 | -143 | 17.6 | 124 | -2.8 | 5 | 1.7 | 25200 | 5.5 | 6394 | 38 | 0.7 |
| 02- | 66.4667- | 158.7692- | 2- | 13- | | 0-405428 | 68580 | -0.08 | 621 | 12070 | 79 | -127 | 15.5 | 93 | -2.9 | 6 | 1.2 | 26310 | 6.8 | 12800 | 39 | 0.5 |
| 02- | 66.4333- | 158.7967- | 2- | 13- | | 0-405429 | 70200 | -0.05 | 680 | 13100 | 90 | -104 | 18.6 | 101 | 4.0 | 7 | 1.7 | 35060 | 10.0 | 12900 | 44 | 0.8 |
| 02- | 66.4039- | 158.8050- | 2- | 13- | | 0-405430 | 66810 | -0.05 | 667 | 12220 | 86 | -102 | 13.0 | 67 | -2.0 | 7 | 1.6 | 22170 | 8.2 | 12600 | 40 | 0.6 |
| 02- | 66.4042- | 158.8861- | 2- | 13- | | 0-405431 | 67230 | -0.06 | 689 | 12600 | 122 | -115 | 16.1 | 103 | 4.0 | 7 | 2.0 | 26640 | 12.8 | 12290 | 58 | 0.7 |
| 02- | 66.3933- | 158.9433- | 2- | 13- | | 0-405432 | 62270 | -0.10 | 548 | 10840 | 59 | -151 | 16.1 | 55 | -3.7 | 6 | 1.4 | 24370 | 5.6 | 11650 | 36 | 0.5 |
| 02- | 66.3972- | 158.9917- | 2- | 13- | | 0-405433 | 65000 | -0.05 | 523 | 11200 | 76 | -96 | 11.4 | 61 | 2.5 | 6 | 1.5 | 18500 | 7.0 | 10100 | 35 | 0.5 |
| 02- | 66.4258- | 158.9892- | 2- | 13- | | 0-405434 | 73640 | -0.06 | 741 | 13410 | 76 | -103 | 13.5 | 82 | 3.7 | 8 | 1.6 | 26480 | 8.0 | 16360 | 41 | 0.6 |
| 02- | 66.4233- | 158.9392- | 2- | 13- | | 0-405435 | 74280 | -0.07 | 674 | 13350 | 106 | -118 | 14.7 | 92 | 3.6 | 8 | 1.8 | 27750 | 11.0 | 13400 | 49 | 0.7 |
| 02- | 66.4272- | 158.8892- | 2- | 13- | | 0-405436 | 73320 | -0.08 | 818 | 11270 | 78 | -121 | 14.3 | 92 | 4.7 | 6 | 1.7 | 28460 | 8.0 | 18340 | 45 | 0.6 |
| 02- | 66.4600- | 158.8717- | 2- | 13- | | 0-405437 | 70000 | -0.06 | 701 | 13400 | 91 | -109 | 19.0 | 131 | 3.8 | 7 | 1.8 | 32230 | 10.5 | 12000 | 43 | 0.6 |
| 02- | 66.4708- | 158.9500- | 2- | 13- | | 0-405438 | 90550 | -0.09 | 1099 | 8470 | 78 | -126 | 23.6 | 95 | 7.7 | 6 | 1.6 | 36690 | 4.2 | 19420 | 35 | 0.5 |
| 02- | 66.4606- | 158.9883- | 2- | 13- | | 0-405439 | 94110 | -0.09 | 1201 | 8321 | 97 | -123 | 25.0 | 133 | 6.2 | 6 | 1.7 | 36370 | 5.5 | 17250 | 46 | 0.5 |
| 02- | 66.4975- | 158.9906- | 2- | 13- | | 0-405440 | 61050 | -0.06 | -176 | 11240 | 79 | -108 | 10.4 | 50 | -2.1 | 6 | 1.3 | 22980 | 9.4 | 12460 | 35 | 0.5 |
| 02- | 66.4975- | 158.9467- | 2- | 13- | | 0-405441 | 76900 | -0.06 | 703 | 9850 | 105 | -107 | 15.0 | 97 | -2.2 | 8 | 1.6 | 24370 | 8.1 | 14200 | 43 | 0.7 |
| 02- | 66.5100- | 158.9000- | 2- | 13- | | 0-405444 | 69160 | -0.05 | 717 | 15200 | 85 | -99 | 12.4 | 68 | 3.8 | 7 | 1.5 | 22860 | 8.5 | 15710 | 38 | 0.6 |
| 02- | 66.4922- | 158.8650- | 2- | 13- | | 0-405445 | 69840 | -0.07 | 600 | 12150 | 85 | -116 | 12.8 | 79 | 5.3 | 6 | 1.7 | 24200 | 8.3 | 11600 | 36 | 0.5 |
| 02- | 66.4917- | 158.8042- | 2- | 13- | | 0-405446 | 84200 | -0.07 | 953 | 9170 | 100 | -114 | 22.6 | 127 | 6.4 | 8 | 2.0 | 30650 | 6.3 | 16400 | 50 | 0.8 |
| 02- | 66.5133- | 158.7967- | 2- | 13- | | 0-405447 | 85450 | -0.08 | 924 | 7077 | 84 | -116 | 18.0 | 86 | -2.9 | 7 | 1.5 | 27190 | 5.5 | 14430 | 39 | 0.5 |
| 02- | 66.5231- | 158.7192- | 2- | 13- | | 0-405448 | 80140 | -0.08 | 933 | 10160 | 124 | -126 | 22.2 | 119 | 5.6 | 7 | 2.1 | 35660 | 9.1 | 16860 | 53 | 0.7 |
| 02- | 66.4917- | 158.7300- | 2- | 13- | | 0-405449 | 76700 | -0.09 | 828 | 8304 | 83 | -133 | 19.0 | 82 | 4.3 | 6 | 1.5 | 28600 | 5.5 | 12430 | 35 | 0.6 |
| 02- | 66.4922- | 158.6417- | 2- | 13- | | 0-405450 | 88000 | -0.07 | 966 | 7860 | 92 | -109 | 24.7 | 117 | 6.9 | 6 | 1.7 | 32850 | 7.3 | 20300 | 43 | 0.6 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(4)

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm): Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02- | 66.8736- | 158.6733- | 2- | 12- | | 0-405363 | 16960 | 546 | 14590 | -23 | -1 | 12.7 | 6.7 | -327 | -1 | | 9.6 | 6579 | 111 | 5.3 | -38 | 0.323 |
| 02- | 66.8400- | 158.7367- | 2- | 12- | | 0-405364 | 14470 | 542 | 14670 | 57 | -1 | 17.2 | 9.6 | -368 | -1 | | 14.5 | 6835 | 109 | 6.8 | 136 | 0.214 |
| 02- | 66.8714- | 158.7808- | 2- | 12- | | 0-405365 | 29530 | 1106 | 14130 | 59 | -2 | 15.1 | 6.9 | -579 | -1 | | 10.9 | 6770 | 108 | 6.5 | | 0.321 |
| 02- | 66.8939- | 158.7775- | 2- | 12- | | 0-405366 | 22500 | 621 | 14900 | 85 | -1 | 16.0 | 8.4 | -371 | -1 | -1 | 14.2 | 6880 | 131 | 6.2 | 130 | 0.239 |
| 02- | 66.9094- | 158.8233- | 2- | 12- | | 0-405367 | 18610 | 510 | 14100 | -27 | -1 | 14.0 | 6.2 | -328 | -1 | -1 | 9.3 | 6256 | 125 | 4.6 | -54 | 0.355 |
| 02- | 66.8958- | 158.9158- | 2- | 12- | | 0-405369 | 18470 | 518 | 16300 | 49 | -1 | 14.7 | 10.7 | -338 | -1 | -1 | 12.9 | 7487 | 88 | 7.7 | | 0.279 |
| 02- | 66.8697- | 158.8825- | 2- | 12- | | 0-405370 | 18820 | 507 | 15660 | -31 | -1 | 12.1 | 5.0 | -371 | -6 | | 8.5 | 6369 | 89 | 5.4 | -270 | 0.376 |
| 02- | 66.8442- | 158.7633- | 2- | 12- | | 0-405371 | 17400 | 669 | 14700 | 47 | -1 | 13.7 | 7.5 | -339 | 1 | 1 | 12.8 | 7120 | 101 | 5.4 | 108 | 0.234 |
| 02- | 66.8358- | 158.8933- | 2- | 12- | | 0-405372 | 22060 | 584 | 14510 | 54 | -1 | 12.3 | 7.1 | -322 | | 1 | 11.2 | 6086 | 109 | 3.7 | | 0.304 |
| 02- | 66.8392- | 158.9607- | 2- | 12- | | 0-405373 | 14480 | 593 | 14450 | 71 | -1 | 14.4 | 9.4 | -359 | -1 | | 11.2 | 5683 | 93 | 5.5 | 92 | 0.241 |
| 02- | 66.8706- | 158.9450- | 2- | 13- | | 0-405374 | 21080 | 492 | 14870 | -39 | -2 | 14.8 | 5.4 | -409 | -1 | -1 | 10.0 | 5837 | 110 | 4.0 | | 0.310 |
| 02- | 66.8822- | 158.9792- | 2- | 13- | | 0-405376 | 11800 | 793 | 16100 | 44 | -1 | 11.4 | 6.2 | -337 | 1 | | 10.7 | 9860 | 52 | 5.9 | 70 | 0.262 |
| 02- | 66.7983- | 159.0333- | 2- | 13- | | 0-405377 | 17350 | 380 | 13810 | -31 | -1 | 13.5 | 7.3 | -343 | -1 | | 10.6 | 6204 | 129 | 5.9 | 139 | 0.311 |
| 02- | 66.7792- | 159.0200- | 2- | 13- | | 0-405378 | 22210 | 439 | 13880 | -33 | -2 | 18.6 | 9.1 | -369 | -1 | -1 | 11.5 | 6918 | 139 | 5.7 | | 0.261 |
| 02- | 66.8017- | 159.1300- | 2- | 13- | | 0-405379 | 16590 | 615 | 11130 | -33 | -2 | 13.5 | 6.8 | -394 | -1 | -1 | 12.9 | 8059 | 118 | 5.0 | -141 | 0.310 |
| 02- | 66.8003- | 159.2517- | 2- | 13- | | 0-405382 | 21900 | 504 | 15600 | 49 | 1 | 17.0 | 7.6 | -316 | | -1 | 13.0 | 6200 | 128 | 5.8 | -7 | 0.223 |
| 02- | 66.7967- | 159.3667- | 2- | 13- | | 0-405383 | 18160 | 372 | 12880 | -31 | -1 | 15.0 | 5.7 | -353 | -1 | -1 | 9.7 | 5888 | 138 | 3.6 | 118 | 0.320 |
| 02- | 66.7000- | 159.3667- | 2- | 13- | | 0-405384 | 16310 | 532 | 16050 | 47 | -1 | 14.9 | 10.8 | -349 | -1 | | 11.9 | 6971 | 93 | 6.5 | | 0.286 |
| 02- | 66.3733- | 158.9900- | 2- | 13- | | 0-405416 | 27460 | 574 | 11060 | -54 | -3 | 17.9 | 5.1 | -536 | -2 | -1 | 11.8 | 7654 | 166 | 4.7 | -127 | 0.263 |
| 02- | 66.3742- | 158.9558- | 2- | 13- | | 0-405417 | 21000 | 615 | 11200 | 54 | -2 | 19.3 | 8.1 | -477 | -1 | -1 | 15.0 | 5920 | 158 | 5.6 | 157 | 0.207 |
| 02- | 66.3700- | 158.8658- | 2- | 13- | | 0-405418 | 12640 | 783 | 11870 | -19 | -1 | 12.1 | 5.9 | -329 | | | 9.8 | 7396 | 83 | 5.6 | 48 | 0.286 |
| 02- | 66.3833- | 158.7875- | 2- | 13- | | 0-405419 | 14970 | 647 | 12130 | 25 | -1 | 12.7 | 7.8 | -327 | | | 10.3 | 6714 | 78 | 5.9 | | 0.214 |
| 02- | 66.3825- | 158.7108- | 2- | 13- | | 0-405420 | 20750 | 495 | 10340 | -54 | -3 | 19.0 | 5.1 | -503 | -2 | -1 | 10.9 | 6146 | 158 | 5.9 | | 0.321 |
| 02- | 66.3733- | 158.6600- | 2- | 13- | | 0-405421 | 24200 | 520 | 10400 | 110 | -2 | 19.9 | 7.6 | -426 | -1 | -1 | 17.0 | 6600 | 169 | 5.7 | 162 | 0.188 |
| 02- | 66.3933- | 158.6792- | 2- | 13- | | 0-405422 | 22100 | 522 | 11680 | -33 | -2 | 15.5 | 6.3 | -398 | -1 | -1 | 10.4 | 6081 | 150 | 5.3 | -133 | 0.317 |
| 02- | 66.4103- | 158.7194- | 2- | 13- | | 0-405423 | 16350 | 476 | 12140 | -42 | -2 | 20.0 | 9.4 | -455 | -1 | | 14.8 | 6255 | 137 | 7.3 | | 0.203 |
| 02- | 66.4233- | 158.6367- | 2- | 13- | | 0-405424 | 20990 | 438 | 11050 | -52 | -3 | 15.3 | 4.9 | -500 | -2 | -1 | 10.5 | 5803 | 131 | 4.1 | -159 | 0.295 |
| 02- | 66.4250- | 158.7167- | 2- | 13- | | 0-405425 | 17900 | 439 | 10100 | 58 | -2 | 16.9 | 7.4 | -453 | -1 | | 12.6 | 5720 | 133 | 5.1 | -164 | 0.238 |
| 02- | 66.4658- | 158.6500- | 2- | 12- | | 0-405426 | 16180 | 513 | 15530 | -27 | -1 | 12.5 | 7.4 | -332 | -1 | | 10.3 | 6644 | 104 | 5.2 | 73 | 0.340 |
| 02- | 66.4533- | 158.7472- | 2- | 12- | | 0-405427 | 17020 | 590 | 13940 | -41 | -2 | 14.0 | 5.9 | -525 | -2 | -1 | 10.7 | 4674 | 85 | 3.9 | -40 | 0.206 |
| 02- | 66.4667- | 158.7692- | 2- | 13- | | 0-405428 | 17210 | 501 | 14110 | -43 | -2 | 14.6 | 5.1 | -455 | -2 | -1 | 10.4 | 5359 | 124 | 3.5 | 212 | 0.317 |
| 02- | 66.4333- | 158.7967- | 2- | 13- | | 0-405429 | 20400 | 566 | 15200 | 60 | -1 | 15.2 | 7.6 | -370 | -1 | -1 | 12.6 | 7860 | 133 | 5.5 | 111 | 0.246 |
| 02- | 66.4039- | 158.8050- | 2- | 13- | | 0-405430 | 15440 | 392 | 15240 | -27 | -1 | 12.7 | 7.5 | -333 | -1 | -1 | 11.9 | 5484 | 108 | 3.6 | 120 | 0.286 |
| 02- | 66.4042- | 158.8861- | 2- | 13- | | 0-405431 | 16140 | 388 | 15570 | 52 | -2 | 15.6 | 10.4 | -386 | -1 | -1 | 14.5 | 6041 | 106 | 6.6 | -1 | 0.228 |
| 02- | 66.3933- | 158.9433- | 2- | 13- | | 0-405432 | 16960 | 347 | 11400 | -54 | -3 | 12.6 | 3.8 | -517 | -10 | -1 | 8.9 | 4625 | 104 | -3.0 | -412 | 0.292 |
| 02- | 66.3972- | 158.9917- | 2- | 13- | | 0-405433 | 15200 | 342 | 15900 | 38 | -1 | 12.4 | 5.7 | -309 | | | 9.1 | 6000 | 95 | 3.6 | | 0.319 |
| 02- | 66.4258- | 158.9892- | 2- | 13- | | 0-405434 | 20430 | 466 | 13380 | -30 | -1 | 14.4 | 6.1 | -358 | 6 | | 11.9 | 6338 | 126 | 5.4 | | 0.311 |
| 02- | 66.4233- | 158.9392- | 2- | 13- | | 0-405435 | 16950 | 433 | 15160 | -33 | -2 | 16.2 | 9.5 | -394 | -1 | | 13.8 | 6448 | 125 | 5.7 | | 0.261 |
| 02- | 66.4272- | 158.8892- | 2- | 13- | | 0-405436 | 22070 | 539 | 12800 | -44 | -2 | 16.1 | 6.2 | -453 | -1 | | 10.1 | 5855 | 124 | 5.4 | | 0.347 |
| 02- | 66.4600- | 158.8717- | 2- | 13- | | 0-405437 | 20000 | 424 | 14300 | -31 | -1 | 15.5 | 6.7 | -370 | -1 | | 11.6 | 7820 | 127 | 4.8 | -4 | 0.276 |
| 02- | 66.4708- | 158.9500- | 2- | 13- | | 0-405438 | 21980 | 809 | 10060 | -46 | -2 | 18.5 | 5.5 | -536 | -1 | -1 | 11.6 | 5970 | 172 | 3.7 | | 0.276 |
| 02- | 66.4606- | 158.9883- | 2- | 13- | | 0-405439 | 24320 | 540 | 10680 | -48 | -2 | 22.7 | 6.5 | -498 | -1 | -1 | 11.9 | 7144 | 194 | 3.9 | | 0.277 |
| 02- | 66.4975- | 158.9906- | 2- | 13- | | 0-405440 | 14410 | 503 | 15970 | -29 | -1 | 12.8 | 4.6 | -371 | -1 | | 10.1 | 6479 | 95 | 4.9 | | 0.307 |
| 02- | 66.4975- | 158.9467- | 2- | 13- | | 0-405441 | 23800 | 365 | 14900 | -28 | -1 | 16.2 | 8.2 | -350 | -1 | | 10.6 | 6900 | 129 | 5.5 | | 0.340 |
| 02- | 66.5100- | 158.9000- | 2- | 13- | | 0-405444 | 19640 | 517 | 14390 | -25 | -1 | 12.5 | 6.6 | -347 | -1 | | 9.5 | 6114 | 111 | 4.2 | -1 | 0.358 |
| 02- | 66.4922- | 158.8650- | 2- | 13- | | 0-405445 | 19950 | 441 | 14610 | -34 | -2 | 13.2 | 5.6 | -401 | -1 | -1 | 10.2 | 6306 | 109 | 4.1 | -64 | 0.314 |
| 02- | 66.4917- | 158.8042- | 2- | 13- | | 0-405446 | 21400 | 437 | 11500 | -38 | -2 | 19.0 | 7.9 | -413 | -1 | -1 | 15.1 | 6210 | 149 | 5.2 | -129 | 0.232 |
| 02- | 66.5133- | 158.7967- | 2- | 13- | | 0-405447 | 20340 | 424 | 11210 | 65 | -2 | 16.9 | 6.6 | -424 | -1 | -1 | 12.3 | 6056 | 155 | 5.2 | 116 | 0.268 |
| 02- | 66.5231- | 158.7192- | 2- | 13- | | 0-405448 | 21500 | 480 | 13690 | -40 | -2 | 19.7 | 10.1 | -460 | -2 | -1 | 13.8 | 6090 | 132 | 5.4 | | 0.232 |
| 02- | 66.4917- | 158.7300- | 2- | 13- | | 0-405449 | 23040 | 479 | 12290 | -49 | -2 | 15.8 | 4.7 | -510 | -2 | -1 | 12.2 | 5736 | 135 | 2.5 | 231 | 0.254 |
| 02- | 66.4922- | 158.6417- | 2- | 13- | | 0-405450 | 24800 | 448 | 12500 | 68 | -2 | 18.8 | 7.3 | -382 | -1 | -1 | 13.8 | 6530 | 157 | 4.1 | 121 | 0.225 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (umho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.5242- | 158.6333- | 2- | 13- | | 0-405451- | 08/24/76- | 12- | 16- | 14.0- | - | -S- | 8.0- | 35- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.5464- | 158.6419- | 2- | 13- | | 0-405452- | 08/24/76- | 12- | 16- | 15.5- | C- | -S- | 7.7- | 43- | | -2- | 7- | 5- | 6- | - | 3- | 3- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.10 |
| 02- | 66.5531- | 158.7242- | 2- | 13- | | 0-405453- | 08/24/76- | 12- | 16- | 14.9- | - | -S- | 7.2- | 50- | | -2- | 7- | 5- | 6- | - | 3- | 3- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.10 |
| 02- | 66.5586- | 158.8125- | 2- | 13- | | 0-405454- | 08/24/76- | 12- | 16- | 14.6- | - | -S- | 8.8- | 55- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.30 |
| 02- | 66.5533- | 158.8558- | 2- | 13- | | 0-405455- | 08/24/76- | 12- | 16- | 14.6- | - | -S- | 8.8- | 66- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.60 |
| 02- | 66.5489- | 158.9350- | 2- | 13- | | 0-405456- | 08/24/76- | 12- | 16- | 14.5- | - | -S- | 8.6- | 54- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.50 |
| 02- | 66.5461- | 158.9894- | 2- | 13- | | 0-405457- | 08/24/76- | 12- | 16- | 14.0- | - | -S- | 8.2- | 95- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.40 |
| 02- | 66.5756- | 158.9833- | 2- | 13- | | 0-405458- | 08/24/76- | 12- | 16- | 14.8- | - | -S- | 8.3- | 15- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.5767- | 158.9500- | 2- | 13- | | 0-405459- | 08/24/76- | 12- | 16- | 14.2- | - | -S- | 7.9- | 21- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 2.90 |
| 02- | 66.5761- | 158.8800- | 2- | 13- | | 0-405460- | 08/24/76- | 12- | 16- | 13.8- | - | -S- | 8.2- | 12- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.5747- | 158.8000- | 2- | 13- | | 0-405461- | 08/24/76- | 12- | 16- | 14.6- | - | -S- | 7.8- | 37- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.70 |
| 02- | 66.5722- | 158.7100- | 2- | 13- | | 0-405462- | 08/24/76- | 12- | 16- | 14.2- | - | -S- | 7.2- | 45- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 4.40 |
| 02- | 66.6167- | 158.7167- | 2- | 13- | | 0-405465- | 08/24/76- | 12- | 16- | 14.5- | - | -S- | 7.4- | 20- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 1- | 2- | - | 1- | - | - | - | - | 3.40 |
| 02- | 66.6011- | 158.7939- | 2- | 13- | | 0-405466- | 08/24/76- | 12- | 16- | 14.7- | - | -S- | 7.3- | 38- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.90 |
| 02- | 66.6000- | 158.8733- | 2- | 13- | | 0-405467- | 08/24/76- | 12- | 16- | 14.2- | - | -S- | 7.2- | 55- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.30 |
| 02- | 66.6042- | 158.9300- | 2- | 13- | | 0-405468- | 08/24/76- | 12- | 16- | 14.0- | - | -S- | 7.5- | 27- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.6072- | 158.9833- | 2- | 13- | | 0-405469- | 08/24/76- | 12- | 16- | 14.7- | - | -S- | 7.9- | 29- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.6417- | 158.9892- | 2- | 13- | | 0-405470- | 08/24/76- | 12- | 16- | 14.0- | - | -S- | 8.0- | 33- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.6417- | 158.9333- | 2- | 12- | | 0-405471- | 08/24/76- | 13- | 16- | 15.2- | - | -S- | 7.7- | 154- | | -2- | 7- | 5- | 6- | 3- | 3- | 1- | 2- | 2- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.6422- | 158.8958- | 2- | 12- | | 0-405472- | 08/24/76- | 13- | 16- | 14.9- | - | -S- | 7.4- | 120- | | -2- | 7- | 5- | 6- | 3- | 3- | 1- | 2- | 2- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.10 |
| 02- | 66.6333- | 158.8000- | 2- | 13- | | 0-405473- | 08/24/76- | 13- | 16- | 14.7- | - | -S- | 9.1- | 22- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.6392- | 158.7425- | 2- | 13- | | 0-405474- | 08/24/76- | 13- | 16- | 14.2- | - | -S- | 8.6- | 20- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.6439- | 158.6658- | 2- | 13- | | 0-405475- | 08/24/76- | 13- | 16- | 14.8- | - | -S- | 9.0- | 25- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.6553- | 158.6583- | 2- | 13- | | 0-405476- | 08/24/76- | 13- | 16- | 14.3- | - | -S- | 8.2- | 55- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.80 |
| 02- | 66.6594- | 158.7250- | 2- | 13- | | 0-405477- | 08/24/76- | 13- | 16- | 14.0- | - | -S- | 7.9- | 46- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.60 |
| 02- | 66.6700- | 158.7850- | 2- | 13- | | 0-405478- | 08/24/76- | 13- | 16- | 13.9- | - | -S- | 8.6- | 60- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.40 |
| 02- | 66.6639- | 158.8708- | 2- | 13- | | 0-405479- | 08/24/76- | 13- | 16- | 15.3- | - | -S- | 8.1- | 33- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.6556- | 158.9267- | 2- | 13- | | 0-405480- | 08/24/76- | 13- | 18- | 15.4- | - | -S- | 9.3- | 112- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.6517- | 158.9858- | 2- | 13- | | 0-405481- | 08/24/76- | 13- | 18- | 15.6- | - | -S- | 8.9- | 98- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.6889- | 158.9986- | 2- | 13- | | 0-405482- | 08/24/76- | 13- | 18- | 15.2- | - | -S- | 9.2- | 110- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.40 |
| 02- | 66.6892- | 158.9542- | 2- | 13- | | 0-405483- | 08/24/76- | 13- | 18- | 15.3- | - | -S- | 9.7- | 85- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 4.90 |
| 02- | 66.6978- | 158.8725- | 2- | 13- | | 0-405484- | 08/24/76- | 13- | 18- | 15.0- | - | -S- | 9.6- | 100- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.00 |
| 02- | 66.7000- | 158.8017- | 2- | 13- | | 0-405485- | 08/24/76- | 13- | 18- | 15.6- | - | -S- | 9.6- | 76- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.6967- | 158.7217- | 2- | 13- | | 0-405486- | 08/24/76- | 13- | 18- | 14.3- | - | -S- | 9.0- | 38- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.7122- | 158.6558- | 2- | 13- | | 0-405488- | 08/24/76- | 13- | 18- | 14.0- | - | -S- | 9.2- | 32- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.60 |
| 02- | 66.7167- | 158.7050- | 2- | 13- | | 0-405489- | 08/24/76- | 13- | 18- | 15.2- | - | -S- | 8.2- | 71- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.10 |
| 02- | 66.7233- | 158.7889- | 2- | 13- | | 0-405490- | 08/24/76- | 13- | 18- | 15.0- | - | -S- | 8.0- | 65- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 2- | 2- | - | 1- | - | - | - | - | 2.40 |
| 02- | 66.7753- | 158.0133- | 2- | 12- | | 0-405491- | 08/24/76- | 16- | 22- | 13.8- | - | - | 6.0- | 62- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.70 |
| 02- | 66.7700- | 158.0667- | 2- | 12- | | 0-405492- | 08/24/76- | 14- | 22- | 14.2- | - | - | 6.3- | 70- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.90 |
| 02- | 66.7681- | 158.1333- | 2- | 12- | | 0-405493- | 08/24/76- | 16- | 22- | 13.7- | - | - | 6.8- | 66- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.00 |
| 02- | 66.7800- | 158.2192- | 2- | 13- | | 0-405494- | 08/24/76- | 16- | 22- | 13.9- | - | -S- | 8.9- | 68- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.7519- | 158.2100- | 2- | 13- | | 0-405495- | 08/24/76- | 16- | 22- | 15.7- | - | -S- | 9.1- | 55- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.20 |
| 02- | 66.7453- | 158.1533- | 2- | 13- | | 0-405496- | 08/24/76- | 16- | 21- | 15.2- | - | -S- | 9.0- | 76- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.50 |
| 02- | 66.7411- | 158.0167- | 2- | 13- | | 0-405498- | 08/24/76- | 16- | 21- | 14.0- | - | -S- | 7.2- | 36- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 1.80 |
| 02- | 66.7261- | 158.0275- | 2- | 12- | | 0-405499- | 08/24/76- | 16- | 20- | 14.2- | - | - | 6.6- | 60- | | -2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.7167- | 158.0783- | 2- | 12- | | 0-405500- | 08/24/76- | 16- | 21- | 13.6- | - | - | 6.8- | 75- | | -2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.80 |
| 02- | 66.7267- | 158.1400- | 2- | 12- | | 0-405501- | 08/24/76- | 16- | 21- | 12.8- | - | - | 7.2- | 68- | | -2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 2.70 |
| 02- | 66.7228- | 158.1989- | 2- | 13- | | 0-405502- | 08/24/76- | 17- | 21- | 16.7- | - | -S- | 7.7- | 38- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 4.40 |
| 02- | 66.7000- | 158.2322- | 2- | 13- | | 0-405503- | 08/24/76- | 17- | 21- | 16.4- | - | -S- | 7.5- | 44- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.10 |
| 02- | 66.6933- | 158.1183- | 2- | 13- | | 0-405504- | 08/24/76- | 17- | 21- | 16.8- | - | -S- | 7.6- | 52- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.50 |
| 02- | 66.6825- | 158.0958- | 2- | 13- | | 0-405505- | 08/24/76- | 17- | 21- | 15.6- | - | -S- | 7.6- | 23- | | -2- | 7- | 5- | 6- | - | 3- | 1- | -4- | 3- | 3- | 2- | - | 1- | - | - | - | - | 3.20 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.5242- | 158.6333- | 2- | 13- | | 0-405451 | -5 | -5 | -5 | 26 | -20 | 41 | 9 | -10 | -15 | 3 | 30 |
| 02- | 66.5464- | 158.6419- | 2- | 13- | | 0-405452 | -5 | -5 | -5 | 17 | -20 | 27 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.5531- | 158.7242- | 2- | 13- | | 0-405453 | -5 | -5 | -5 | 19 | 39 | 29 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.5586- | 158.8125- | 2- | 13- | | 0-405454 | -5 | -5 | -5 | 23 | -20 | 21 | 13 | -10 | -15 | 3 | 27 |
| 02- | 66.5533- | 158.8558- | 2- | 13- | | 0-405455 | -5 | -5 | -5 | 27 | 34 | 46 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.5469- | 158.9350- | 2- | 13- | | 0-405456 | -5 | -5 | -5 | 17 | -20 | 36 | -5 | -10 | -15 | 3 | 28 |
| 02- | 66.5461- | 158.9894- | 2- | 13- | | 0-405457 | -5 | -5 | -5 | 11 | 48 | -15 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.5756- | 158.9833- | 2- | 13- | | 0-405458 | -5 | 6 | -5 | 13 | -20 | 16 | 9 | -10 | -15 | 3 | 26 |
| 02- | 66.5767- | 158.9500- | 2- | 13- | | 0-405459 | -5 | -5 | -5 | 17 | 23 | 37 | 6 | -10 | -15 | 2 | 31 |
| 02- | 66.5761- | 158.8800- | 2- | 13- | | 0-405460 | -5 | -5 | -5 | 18 | 24 | -15 | 10 | -10 | -15 | 2 | 28 |
| 02- | 66.5747- | 158.8000- | 2- | 13- | | 0-405461 | -5 | -5 | -5 | 20 | 50 | -15 | 5 | -10 | -15 | 3 | 26 |
| 02- | 66.5722- | 158.7100- | 2- | 13- | | 0-405462 | -5 | -5 | -5 | 31 | 39 | 29 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.6167- | 158.7167- | 2- | 13- | | 0-405465 | -5 | -5 | -5 | 34 | -20 | 24 | 7 | -10 | -15 | 2 | 44 |
| 02- | 66.6011- | 158.7939- | 2- | 13- | | 0-405466 | -5 | -5 | -5 | 40 | 28 | 36 | 8 | -10 | -15 | 2 | 28 |
| 02- | 66.6000- | 158.8733- | 2- | 13- | | 0-405467 | -5 | -5 | -5 | 34 | 32 | 26 | 5 | -10 | -15 | 2 | 28 |
| 02- | 66.6042- | 158.9300- | 2- | 13- | | 0-405468 | -5 | -5 | -5 | 28 | 30 | 16 | 5 | -10 | -15 | 2 | 15 |
| 02- | 66.6072- | 158.9833- | 2- | 13- | | 0-405469 | -5 | -5 | -5 | 22 | -20 | 28 | 7 | -10 | -15 | 3 | 27 |
| 02- | 66.6417- | 158.9692- | 2- | 13- | | 0-405470 | -5 | -5 | -5 | 16 | 25 | 35 | 5 | -10 | -15 | 2 | 28 |
| 02- | 66.6417- | 158.9333- | 2- | 12- | | 0-405471 | -5 | -5 | -5 | 36 | -20 | 25 | -5 | -10 | -15 | 3 | 30 |
| 02- | 66.6422- | 158.8958- | 2- | 12- | | 0-405472 | -5 | -5 | -5 | 12 | 22 | 26 | -5 | -10 | -15 | 2 | 36 |
| 02- | 66.6333- | 158.8000- | 2- | 13- | | 0-405473 | -5 | -5 | -5 | 20 | -20 | 19 | -5 | -10 | -15 | 3 | 38 |
| 02- | 66.6392- | 158.7425- | 2- | 13- | | 0-405474 | -5 | -5 | -5 | 41 | -20 | 40 | 11 | -10 | -15 | 3 | 43 |
| 02- | 66.6439- | 158.6658- | 2- | 13- | | 0-405475 | -5 | -5 | -5 | 38 | 27 | 15 | 12 | -10 | -15 | 3 | 34 |
| 02- | 66.6553- | 158.6583- | 2- | 13- | | 0-405476 | -5 | -5 | -5 | 20 | -20 | 26 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.6594- | 158.7250- | 2- | 13- | | 0-405477 | -5 | -5 | -5 | 18 | -20 | 30 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.6700- | 158.7850- | 2- | 13- | | 0-405478 | -5 | -5 | -5 | 18 | -20 | 23 | 5 | -10 | -15 | 3 | 25 |
| 02- | 66.6639- | 158.8708- | 2- | 13- | | 0-405479 | -5 | -5 | -5 | 12 | -20 | 19 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.6556- | 158.9267- | 2- | 13- | | 0-405480 | -5 | -5 | -5 | 31 | 20 | 23 | 29 | -10 | -15 | 2 | 22 |
| 02- | 66.6517- | 158.9856- | 2- | 13- | | 0-405481 | -5 | -5 | -5 | 32 | -20 | 20 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.6889- | 158.9986- | 2- | 13- | | 0-405482 | -5 | -5 | -5 | 10 | -20 | 25 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.6892- | 158.9542- | 2- | 13- | | 0-405483 | -5 | -5 | -5 | 22 | 33 | 32 | 6 | -10 | -15 | 2 | 29 |
| 02- | 66.6978- | 158.8725- | 2- | 13- | | 0-405484 | | | | | | | | | | | |
| 02- | 66.7000- | 158.8017- | 2- | 13- | | 0-405485 | -5 | -5 | -5 | 28 | -20 | 20 | -5 | -10 | -15 | -1 | 59 |
| 02- | 66.6967- | 158.7217- | 2- | 13- | | 0-405486 | -5 | -5 | -5 | 27 | 20 | 34 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.7122- | 158.6558- | 2- | 13- | | 0-405488 | -5 | -5 | -5 | 25 | -20 | 28 | 5 | -10 | -15 | 2 | 20 |
| 02- | 66.7167- | 158.7050- | 2- | 13- | | 0-405489 | -5 | -5 | -5 | 22 | 24 | 24 | 5 | -10 | -15 | 3 | 26 |
| 02- | 66.7233- | 158.7889- | 2- | 13- | | 0-405490 | -5 | -5 | -5 | 23 | -20 | -15 | 6 | -10 | -15 | 2 | 10 |
| 02- | 66.7753- | 158.0133- | 2- | 12- | | 0-405491 | -5 | -5 | -5 | 19 | -20 | 30 | -5 | -10 | -15 | 2 | 24 |
| 02- | 66.7700- | 158.0667- | 2- | 12- | | 0-405492 | -5 | -5 | -5 | 19 | -20 | 17 | -5 | -10 | -15 | 2 | 14 |
| 02- | 66.7661- | 158.1333- | 2- | 12- | | 0-405493 | -5 | -5 | -5 | 16 | 31 | 27 | -5 | -10 | -15 | 2 | 22 |
| 02- | 66.7800- | 158.2192- | 2- | 13- | | 0-405494 | -5 | -5 | -5 | 29 | -20 | -15 | -5 | -10 | -15 | 2 | 10 |
| 02- | 66.7519- | 158.2100- | 2- | 13- | | 0-405495 | -5 | -5 | -5 | 10 | 21 | -15 | -5 | -10 | -15 | 2 | 19 |
| 02- | 66.7453- | 158.1533- | 2- | 13- | | 0-405496 | -5 | -5 | -5 | 30 | 25 | 20 | -5 | -10 | -15 | 1 | 6 |
| 02- | 66.7411- | 158.0167- | 2- | 13- | | 0-405498 | | | | | | | | | | -1 | 3 |
| 02- | 66.7261- | 158.0275- | 2- | 12- | | 0-405499 | -5 | -5 | -5 | 16 | 29 | 18 | -5 | -10 | -15 | -1 | 22 |
| 02- | 66.7167- | 158.0783- | 2- | 12- | | 0-405500 | -5 | -5 | -5 | 20 | -20 | 30 | -5 | -10 | -15 | 2 | 16 |
| 02- | 66.7267- | 158.1400- | 2- | 12- | | 0-405501 | -5 | 5 | -5 | 25 | -20 | -15 | 6 | -10 | -15 | 1 | 24 |
| 02- | 66.7228- | 158.1989- | 2- | 13- | | 0-405502 | -5 | -5 | -5 | 25 | 23 | 24 | -5 | -10 | -15 | 1 | 20 |
| 02- | 66.7000- | 158.2322- | 2- | 13- | | 0-405503 | -5 | -5 | -5 | 24 | -20 | 24 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.6933- | 158.1183- | 2- | 13- | | 0-405504 | -5 | -5 | -5 | 26 | -20 | 31 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.6825- | 158.0958- | 2- | 13- | | 0-405505 | -5 | 5 | -5 | 19 | -20 | 27 | -5 | -10 | -15 | 2 | 20 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.5242- | 158.6333- | 2- | 13- | 0- | 405451 | 78710 | -0.07 | 821 | 10370 | 84 | -107 | 15.8 | 72 | 5.5 | 6 | 1.5 | 26490 | 5.8 | 13910 | 41 | 0.6 |
| 02- | 66.5464- | 158.6419- | 2- | 13- | 0- | 405452 | 78610 | -0.07 | 809 | 9894 | 119 | -117 | 21.2 | 121 | 5.4 | 7 | 2.1 | 35600 | 9.6 | 16870 | 51 | 0.7 |
| 02- | 66.5531- | 158.7242- | 2- | 13- | 0- | 405453 | 76510 | -0.08 | 621 | 10270 | 78 | -118 | 17.7 | 69 | 5.3 | 6 | 1.4 | 28770 | 8.0 | 18080 | 38 | 0.4 |
| 02- | 66.5586- | 158.8125- | 2- | 13- | 0- | 405454 | 76000 | -0.06 | 642 | 11600 | 106 | -107 | 16.8 | 94 | 4.4 | 8 | 1.7 | 30810 | 11.8 | 16900 | 50 | 0.8 |
| 02- | 66.5533- | 158.8556- | 2- | 13- | 0- | 405455 | 69900 | -0.05 | 586 | 11680 | 79 | -103 | 13.2 | 69 | 2.8 | 8 | 1.7 | 23640 | 8.5 | 14700 | 40 | 0.6 |
| 02- | 66.5489- | 158.9350- | 2- | 13- | 0- | 405456 | 71940 | -0.07 | 621 | 11200 | 141 | -115 | 20.0 | 101 | 4.9 | 7 | 2.0 | 30950 | 14.0 | 13450 | 58 | 0.9 |
| 02- | 66.5461- | 158.9894- | 2- | 13- | 0- | 405457 | 69980 | -0.07 | 550 | 13520 | 73 | -118 | 14.6 | 68 | 4.1 | 7 | 1.4 | 25070 | 8.4 | 14790 | 45 | 0.6 |
| 02- | 66.5756- | 158.9833- | 2- | 13- | 0- | 405458 | 73000 | -0.05 | 639 | 8080 | 85 | -104 | 16.0 | 85 | 3.6 | 7 | 1.6 | 23680 | 7.9 | 14600 | 42 | 0.7 |
| 02- | 66.5767- | 158.9500- | 2- | 13- | 0- | 405459 | 71270 | -0.05 | 621 | 9703 | 74 | -102 | 11.4 | 65 | 3.6 | 7 | 1.3 | 21700 | 7.6 | 14080 | 39 | 0.5 |
| 02- | 66.5761- | 158.8800- | 2- | 13- | 0- | 405460 | 69060 | -0.06 | 608 | 9904 | 134 | -118 | 15.3 | 94 | 3.7 | 7 | 2.0 | 28340 | 12.9 | 19060 | 58 | 0.8 |
| 02- | 66.5747- | 158.8000- | 2- | 13- | 0- | 405461 | 67950 | -0.06 | 641 | 10880 | 74 | -114 | 12.2 | 55 | -2.4 | 6 | 1.5 | 26530 | 8.9 | 13840 | 43 | 0.7 |
| 02- | 66.5722- | 158.7100- | 2- | 13- | 0- | 405462 | 79000 | -0.07 | 923 | 9810 | 104 | -110 | 19.0 | 108 | 3.9 | 7 | 2.0 | 27740 | 7.8 | 15600 | 47 | 0.8 |
| 02- | 66.6167- | 158.7167- | 2- | 13- | 0- | 405465 | 88570 | -0.07 | 1024 | 6792 | 80 | -109 | 14.4 | 98 | 4.3 | 7 | 1.7 | 23320 | 5.8 | 16190 | 41 | 0.5 |
| 02- | 66.6011- | 158.7939- | 2- | 13- | 0- | 405466 | 74800 | -0.09 | 928 | 9019 | 101 | -130 | 22.6 | 137 | 5.6 | 6 | 2.0 | 33460 | 6.7 | 16200 | 48 | 0.7 |
| 02- | 66.6000- | 158.8733- | 2- | 13- | 0- | 405467 | 74970 | -0.09 | 677 | 9664 | 70 | -129 | 13.9 | 60 | -3.1 | 6 | 1.5 | 22200 | 7.1 | 15610 | 37 | 0.5 |
| 02- | 66.6042- | 158.9300- | 2- | 13- | 0- | 405468 | 68500 | -0.06 | 674 | 7560 | 84 | -109 | 16.3 | 84 | 5.3 | 6 | 1.7 | 21580 | 7.1 | 13900 | 43 | 0.6 |
| 02- | 66.6072- | 158.9833- | 2- | 13- | 0- | 405469 | 71750 | -0.05 | 579 | 11630 | 75 | 281 | 13.6 | 79 | -2.0 | 6 | 1.5 | 23900 | 6.5 | 13790 | 36 | 0.5 |
| 02- | 66.6417- | 158.9892- | 2- | 13- | 0- | 405470 | 68450 | -0.06 | 589 | 11130 | 108 | -107 | 16.2 | 74 | 4.4 | 7 | 1.8 | 27810 | 10.1 | 12700 | 53 | 0.8 |
| 02- | 66.6417- | 158.9333- | 2- | 12- | 0- | 405471 | 80380 | -0.07 | 674 | 10710 | 89 | -126 | 19.0 | 67 | 4.8 | 6 | 1.4 | 30490 | 7.2 | 18960 | 40 | 0.6 |
| 02- | 66.6422- | 158.8958- | 2- | 12- | 0- | 405472 | 77300 | -0.06 | 682 | 9530 | 98 | -106 | 18.7 | 97 | 4.6 | 7 | 1.7 | 31710 | 8.1 | 16400 | 45 | 0.6 |
| 02- | 66.6333- | 158.8000- | 2- | 13- | 0- | 405473 | 89220 | -0.07 | 880 | 8165 | 79 | -113 | 17.0 | 93 | 5.5 | 6 | 1.7 | 24680 | 4.4 | 23200 | 36 | 0.5 |
| 02- | 66.6392- | 158.7425- | 2- | 13- | 0- | 405474 | 69650 | -0.08 | 1030 | 11760 | 127 | -126 | 24.5 | 157 | 7.2 | 8 | 2.2 | 35510 | 7.0 | 14570 | 53 | 0.7 |
| 02- | 66.6439- | 158.6658- | 2- | 13- | 0- | 405475 | 88840 | -0.10 | 947 | 6972 | 75 | -138 | 19.4 | 98 | 6.6 | 6 | 1.3 | 25160 | 4.7 | 18170 | 36 | 0.5 |
| 02- | 66.6553- | 158.6583- | 2- | 13- | 0- | 405476 | 70400 | -0.05 | 536 | 12300 | 117 | -97 | 13.0 | 79 | 3.4 | 8 | 1.7 | 25310 | 12.8 | 12200 | 55 | 0.8 |
| 02- | 66.6594- | 158.7250- | 2- | 13- | 0- | 405477 | 66680 | -0.04 | 500 | 12120 | 100 | -96 | 10.7 | 64 | 2.7 | 7 | 1.6 | 21710 | 10.2 | 15780 | 45 | 0.6 |
| 02- | 66.6700- | 158.7850- | 2- | 13- | 0- | 405478 | 67480 | -0.06 | 510 | 11390 | 128 | -112 | 14.8 | 111 | 4.2 | 8 | 2.2 | 29460 | 11.8 | 13060 | 56 | 0.9 |
| 02- | 66.6639- | 158.8708- | 2- | 13- | 0- | 405479 | 67330 | -0.07 | 666 | 9074 | 63 | -117 | 12.8 | 66 | 3.0 | 5 | 1.6 | 23060 | 7.7 | 15220 | 38 | 0.5 |
| 02- | 66.6556- | 158.9267- | 2- | 13- | 0- | 405480 | 66000 | -0.07 | 866 | 11700 | 81 | -107 | 19.8 | 88 | 6.0 | 6 | 1.5 | 26330 | 5.9 | 16500 | 40 | 0.6 |
| 02- | 66.6517- | 158.9856- | 2- | 13- | 0- | 405481 | 68960 | -0.06 | 620 | 12120 | 60 | -106 | 14.9 | 76 | 5.3 | 6 | 1.5 | 23130 | 6.3 | 15260 | 40 | 0.4 |
| 02- | 66.6869- | 158.9986- | 2- | 13- | 0- | 405482 | 77330 | -0.06 | 651 | 9688 | 129 | -109 | 17.8 | 111 | 4.7 | 7 | 1.7 | 34730 | 13.0 | 18770 | 56 | 1.0 |
| 02- | 66.6892- | 158.9542- | 2- | 13- | 0- | 405483 | 69100 | -0.06 | 648 | 12840 | 98 | -116 | 12.0 | 56 | 3.8 | 6 | 1.6 | 24840 | 9.8 | 13770 | 49 | 0.6 |
| 02- | 66.6978- | 158.8725- | 2- | 13- | 0- | 405484 | | | | | | | | | | | | | | | | |
| 02- | 66.7000- | 158.8017- | 2- | 13- | 0- | 405485 | 71000 | -0.07 | 747 | 12600 | 87 | -118 | 19.8 | 79 | 3.9 | 7 | 2.1 | 25450 | 7.4 | 16900 | 45 | 0.5 |
| 02- | 66.6967- | 158.7217- | 2- | 13- | 0- | 405486 | 73830 | -0.06 | 684 | 11330 | 79 | -106 | 11.1 | 66 | 4.4 | 6 | 1.5 | 21300 | 7.0 | 15490 | 43 | 0.5 |
| 02- | 66.7122- | 158.6556- | 2- | 13- | 0- | 405486 | 72510 | -0.07 | 504 | 15420 | 84 | -125 | 24.3 | 202 | 3.8 | 7 | 1.7 | 36630 | 8.2 | 8254 | 45 | 0.7 |
| 02- | 66.7167- | 158.7050- | 2- | 13- | 0- | 405489 | 70140 | -0.07 | 518 | 8174 | 79 | -124 | 15.5 | 76 | 4.4 | 6 | 1.4 | 26350 | 7.2 | 13000 | 43 | 0.5 |
| 02- | 66.7233- | 158.7889- | 2- | 13- | 0- | 405490 | 58900 | -0.05 | 456 | 10000 | 81 | -101 | 13.4 | 65 | 2.9 | 6 | 1.4 | 21920 | 7.7 | 13500 | 35 | 0.6 |
| 02- | 66.7753- | 158.0133- | 2- | 12- | 0- | 405491 | 73590 | -0.05 | 619 | 9211 | 89 | -89 | 13.2 | 105 | 3.0 | 7 | 1.6 | 26730 | 9.5 | 15180 | 43 | 0.4 |
| 02- | 66.7700- | 158.0667- | 2- | 12- | 0- | 405492 | 72300 | -0.07 | 674 | 9711 | 121 | -122 | 19.7 | 120 | 4.3 | 7 | 2.0 | 34210 | 10.7 | 10410 | 48 | 0.9 |
| 02- | 66.7681- | 158.1333- | 2- | 12- | 0- | 405493 | 72290 | -0.07 | 810 | 10930 | 77 | -118 | 12.6 | 75 | 3.6 | 6 | 1.5 | 26850 | 8.5 | 11900 | 40 | 0.6 |
| 02- | 66.7800- | 158.2192- | 2- | 13- | 0- | 405494 | 58500 | -0.06 | 356 | 20400 | 85 | -102 | 14.6 | 201 | 2.2 | 7 | 1.5 | 31280 | 8.4 | 9920 | 38 | 0.7 |
| 02- | 66.7519- | 158.2100- | 2- | 13- | 0- | 405495 | 63390 | -0.06 | 360 | 16930 | 128 | -103 | 12.8 | 66 | 3.2 | 7 | 1.8 | 26320 | 11.3 | 14020 | 48 | 0.8 |
| 02- | 66.7453- | 158.1533- | 2- | 13- | 0- | 405496 | 36840 | -0.13 | -299 | 9575 | 43 | 213 | 13.5 | -27 | -3.6 | 3 | 1.0 | 15720 | -2.9 | 7164 | -24 | -0.3 |
| 02- | 66.7411- | 158.0167- | 2- | 13- | 0- | 405498 | 38100 | -0.09 | 481 | 10900 | 60 | 230 | 18.3 | 62 | -2.5 | 5 | 1.1 | 18940 | 4.4 | 10100 | 35 | 0.4 |
| 02- | 66.7261- | 158.0275- | 2- | 12- | 0- | 405499 | 69190 | -0.07 | 694 | 10120 | 79 | -104 | 12.9 | 77 | 2.9 | 7 | 1.3 | 24780 | 7.7 | 14420 | 38 | 0.5 |
| 02- | 66.7167- | 158.0783- | 2- | 12- | 0- | 405500 | 68140 | -0.08 | 634 | 10190 | 116 | -114 | 16.1 | 102 | 3.9 | 7 | 1.7 | 30020 | 12.3 | 12930 | 51 | 0.8 |
| 02- | 66.7267- | 158.1400- | 2- | 12- | 0- | 405501 | 65190 | -0.09 | 524 | 9525 | 78 | -108 | 12.6 | 71 | 3.9 | 5 | 1.4 | 23850 | 7.8 | 11790 | 43 | 0.5 |
| 02- | 66.7228- | 158.1989- | 2- | 13- | 0- | 405502 | 64200 | -0.05 | 597 | 12000 | 96 | -84 | 12.8 | 85 | 3.9 | 6 | 1.6 | 25040 | 10.3 | 11000 | 46 | 0.7 |
| 02- | 66.7000- | 158.2322- | 2- | 13- | 0- | 405503 | 73620 | -0.06 | 673 | 8794 | 84 | -95 | 11.5 | 69 | 3.5 | 7 | 1.4 | 23840 | 7.0 | 15960 | 34 | 0.5 |
| 02- | 66.6933- | 158.1183- | 2- | 13- | 0- | 405504 | 73870 | -0.08 | 726 | 10030 | 125 | -114 | 36.4 | 106 | 5.5 | 7 | 2.0 | 43290 | 10.1 | 16610 | 47 | 0.8 |
| 02- | 66.6825- | 158.0958- | 2- | 13- | 0- | 405505 | 70650 | -0.08 | 581 | 10480 | 78 | -108 | 12.4 | 66 | 2.8 | 7 | 1.3 | 24140 | 7.4 | 14930 | 34 | 0.5 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(4)

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LABS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm): Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02- | 66.5242- | 158.6333- | 2- | 13- | | 0-405451 | 18080 | 451 | 12080 | 49 | -2 | 15.5 | 6.5 | -397 | -2 | -1 | 9.8 | 6089 | 139 | 4.8 | 144 | 0.327 |
| 02- | 66.5464- | 158.6419- | 2- | 13- | | 0-405452 | 21040 | 420 | 13830 | 71 | -2 | 18.5 | 9.5 | -405 | -2 | | 14.0 | 6680 | 130 | 7.3 | 196 | 0.221 |
| 02- | 66.5531- | 158.7242- | 2- | 13- | | 0-405453 | 21920 | 413 | 13710 | -42 | -2 | 14.8 | 5.4 | -408 | -1 | | 9.3 | 6164 | 127 | 4.4 | | 0.333 |
| 02- | 66.5586- | 158.8125- | 2- | 13- | | 0-405454 | 17800 | 613 | 15200 | 72 | -1 | 16.3 | 8.3 | -381 | -1 | -1 | 13.5 | 6630 | 115 | 6.3 | 75 | 0.244 |
| 02- | 66.5533- | 158.8558- | 2- | 13- | | 0-405455 | 19210 | 476 | 14050 | 46 | -1 | 13.1 | 6.9 | -346 | -1 | -1 | 11.1 | 6706 | 110 | 5.0 | -76 | 0.324 |
| 02- | 66.5489- | 158.9350- | 2- | 13- | | 0-405456 | 20930 | 476 | 14360 | 77 | -2 | 17.2 | 12.1 | -404 | -1 | -1 | 16.0 | 6887 | 108 | 6.3 | -158 | 0.219 |
| 02- | 66.5461- | 158.9894- | 2- | 13- | | 0-405457 | 18370 | 451 | 13950 | -40 | -2 | 14.2 | 5.9 | -428 | -1 | -1 | 10.3 | 5423 | 112 | 3.8 | | 0.330 |
| 02- | 66.5756- | 158.9833- | 2- | 13- | | 0-405458 | 16200 | 394 | 15500 | 60 | -1 | 14.5 | 7.4 | -348 | -1 | | 11.4 | 5350 | 106 | 5.7 | 105 | 0.246 |
| 02- | 66.5767- | 158.9500- | 2- | 13- | | 0-405459 | 16110 | 384 | 14900 | 80 | -1 | 12.8 | 5.5 | -335 | -1 | -1 | 8.9 | 5737 | 109 | 4.0 | 129 | 0.326 |
| 02- | 66.5761- | 158.8800- | 2- | 13- | | 0-405460 | 13810 | 562 | 15150 | 47 | -1 | 16.2 | 11.3 | -407 | -1 | -1 | 15.3 | 6617 | 104 | 6.5 | 165 | 0.209 |
| 02- | 66.5747- | 158.8000- | 2- | 13- | | 0-405461 | 16580 | 532 | 15400 | -34 | -2 | 13.6 | 5.5 | -402 | -1 | -1 | 10.0 | 6405 | 99 | 4.6 | | 0.370 |
| 02- | 66.5722- | 158.7100- | 2- | 13- | | 0-405462 | 20000 | 425 | 12500 | 95 | -2 | 17.2 | 8.1 | -385 | -1 | -1 | 14.9 | 6580 | 150 | 5.2 | -158 | 0.295 |
| 02- | 66.6167- | 158.7167- | 2- | 13- | | 0-405465 | 22860 | 347 | 12180 | -36 | -2 | 16.5 | 6.8 | -377 | -1 | -1 | 11.5 | 6205 | 154 | 4.6 | 157 | 0.296 |
| 02- | 66.6011- | 158.7939- | 2- | 13- | | 0-405466 | 25510 | 403 | 12650 | -44 | -2 | 19.4 | 10.1 | -496 | -2 | | 15.9 | 6455 | 131 | 4.7 | 251 | 0.182 |
| 02- | 66.6000- | 158.8733- | 2- | 13- | | 0-405467 | 18900 | 348 | 13360 | -44 | -2 | 14.4 | 6.1 | -445 | -1 | -1 | 10.6 | 6096 | 113 | 4.4 | | 0.311 |
| 02- | 66.6042- | 158.9300- | 2- | 13- | | 0-405468 | 15800 | 340 | 12300 | -30 | -2 | 14.1 | 7.1 | -373 | -1 | -1 | 11.3 | 5300 | 121 | 4.5 | -104 | 0.239 |
| 02- | 66.6072- | 158.9833- | 2- | 13- | | 0-405469 | 22140 | 411 | 14850 | -26 | -1 | 13.0 | 5.3 | -338 | -1 | | 8.8 | 5461 | 107 | 3.5 | 131 | 0.318 |
| 02- | 66.6417- | 158.9892- | 2- | 13- | | 0-405470 | 22560 | 378 | 15220 | 59 | -1 | 15.2 | 8.1 | -359 | -1 | -1 | 13.6 | 6068 | 105 | 6.0 | -41 | 0.199 |
| 02- | 66.6417- | 158.9333- | 2- | 12- | | 0-405471 | 22220 | 726 | 14040 | -40 | -2 | 16.0 | 6.0 | -487 | -1 | -1 | 10.0 | 5682 | 126 | 4.7 | 157 | 0.320 |
| 02- | 66.6422- | 158.8958- | 2- | 12- | | 0-405472 | 22800 | 702 | 14500 | 67 | -1 | 16.2 | 7.7 | -391 | | | 14.2 | 6170 | 120 | 5.9 | 178 | 0.218 |
| 02- | 66.6333- | 158.8000- | 2- | 13- | | 0-405473 | 20280 | 391 | 12140 | 100 | -2 | 16.7 | 6.3 | -404 | -1 | | 11.0 | 6415 | 163 | 3.5 | -82 | 0.291 |
| 02- | 66.6392- | 158.7425- | 2- | 13- | | 0-405474 | 24590 | 512 | 12120 | 66 | -2 | 23.2 | 8.9 | -468 | -2 | | 13.7 | 6698 | 166 | 5.8 | -71 | 0.234 |
| 02- | 66.6439- | 158.6658- | 2- | 13- | | 0-405475 | 21580 | 384 | 11940 | -51 | -3 | 16.9 | 4.4 | -500 | -2 | | 11.6 | 5739 | 153 | 3.5 | 215 | 0.276 |
| 02- | 66.6553- | 158.6583- | 2- | 13- | | 0-405476 | 17900 | 470 | 16400 | 51 | 1 | 14.1 | 9.1 | -321 | | -1 | 13.3 | 7260 | 106 | 6.8 | 110 | 0.286 |
| 02- | 66.6594- | 158.7250- | 2- | 13- | | 0-405477 | 16140 | 454 | 16590 | 33 | -1 | 11.9 | 7.6 | -308 | -1 | -1 | 10.8 | 6976 | 99 | 6.4 | 93 | 0.333 |
| 02- | 66.6700- | 158.7850- | 2- | 13- | | 0-405478 | 19260 | 514 | 15640 | 59 | -1 | 16.5 | 10.4 | -380 | -1 | -1 | 15.1 | 6758 | 97 | 6.3 | -58 | 0.225 |
| 02- | 66.6639- | 158.8708- | 2- | 13- | | 0-405479 | 18660 | 432 | 15090 | -36 | -2 | 13.0 | 5.2 | -397 | -1 | | 8.0 | 5459 | 108 | 3.8 | 132 | 0.350 |
| 02- | 66.6556- | 158.9267- | 2- | 13- | | 0-405480 | 16100 | 431 | 10400 | 64 | -2 | 14.5 | 7.5 | -405 | -1 | | 13.1 | 5570 | 118 | 5.4 | 149 | 0.206 |
| 02- | 66.6517- | 158.9856- | 2- | 13- | | 0-405481 | 16780 | 429 | 10640 | 74 | -2 | 13.1 | 5.5 | -393 | -1 | | 10.2 | 5292 | 121 | 4.4 | 143 | 0.265 |
| 02- | 66.6889- | 158.9966- | 2- | 13- | | 0-405482 | 17500 | 564 | 14080 | 55 | -1 | 18.4 | 9.4 | -386 | -1 | -1 | 13.3 | 7702 | 125 | 6.6 | 132 | 0.256 |
| 02- | 66.6892- | 158.9542- | 2- | 13- | | 0-405483 | 15570 | 567 | 16300 | -35 | -1 | 13.1 | 7.1 | -410 | -1 | -1 | 12.0 | 7214 | 119 | 4.9 | | 0.408 |
| 02- | 66.6978- | 158.8725- | 2- | 13- | | 0-405484 | | | | | | | | | | | | | | | | |
| 02- | 66.7000- | 158.8017- | 2- | 13- | | 0-405485 | 20600 | 427 | 11900 | 51 | -2 | 15.2 | 7.1 | -430 | -1 | | 11.9 | 5930 | 122 | 5.4 | 171 | 0.235 |
| 02- | 66.6967- | 158.7217- | 2- | 13- | | 0-405486 | 18040 | 380 | 13720 | 46 | -1 | 12.8 | 6.2 | -354 | -1 | | 10.4 | 6520 | 106 | 5.0 | 148 | 0.308 |
| 02- | 66.7122- | 158.6558- | 2- | 13- | | 0-405488 | 23620 | 683 | 15600 | -32 | -2 | 21.2 | 7.7 | -455 | -1 | | 12.7 | 6468 | 147 | 5.6 | -76 | 0.205 |
| 02- | 66.7167- | 158.7050- | 2- | 13- | | 0-405489 | 21430 | 689 | 14140 | -36 | -2 | 14.1 | 4.3 | -474 | -1 | -1 | 11.4 | 7070 | 113 | 3.8 | -48 | 0.272 |
| 02- | 66.7233- | 158.7889- | 2- | 13- | | 0-405490 | 14900 | 410 | 13500 | 43 | -1 | 11.4 | 6.4 | -342 | -1 | | 9.2 | 5740 | 87 | 5.0 | 94 | 0.261 |
| 02- | 66.7753- | 158.0133- | 2- | 12- | | 0-405491 | 24650 | 478 | 13680 | 45 | -1 | 14.3 | 6.9 | -305 | | -1 | 11.2 | 6945 | 131 | 6.3 | -111 | 0.330 |
| 02- | 66.7700- | 158.0667- | 2- | 12- | | 0-405492 | 18330 | 492 | 13520 | -35 | -2 | 17.5 | 10.5 | -439 | -1 | | 14.3 | 7095 | 120 | 5.8 | 223 | 0.203 |
| 02- | 66.7681- | 158.1333- | 2- | 12- | | 0-405493 | 19930 | 417 | 13620 | -39 | -2 | 14.4 | 5.7 | -410 | -1 | | 8.3 | 5912 | 126 | 4.5 | -127 | 0.361 |
| 02- | 66.7800- | 158.2192- | 2- | 13- | | 0-405494 | 20000 | 951 | 15600 | 36 | -1 | 18.4 | 6.4 | -377 | -4 | | 10.3 | 8080 | 133 | 4.6 | -107 | 0.262 |
| 02- | 66.7519- | 158.2100- | 2- | 13- | | 0-405495 | 18060 | 533 | 15910 | 57 | -1 | 13.3 | 9.3 | -356 | -7 | 1 | 13.3 | 6118 | 83 | 6.4 | 186 | 0.241 |
| 02- | 66.7453- | 158.1533- | 2- | 13- | | 0-405496 | -5785 | 241 | 6304 | -53 | -4 | 9.0 | 3.4 | -487 | -3 | -2 | 5.4 | 2532 | 70 | -3.5 | | 0.278 |
| 02- | 66.7411- | 158.0167- | 2- | 13- | | 0-405498 | 13100 | 300 | 7270 | -38 | -2 | 10.0 | 4.7 | -400 | | -1 | 8.9 | 3700 | 70 | 4.1 | 135 | 0.202 |
| 02- | 66.7261- | 158.0275- | 2- | 12- | | 0-405499 | 18430 | 414 | 13650 | 47 | -2 | 12.7 | 5.5 | -356 | -2 | -1 | 7.6 | 6646 | 117 | 4.0 | 104 | 0.355 |
| 02- | 66.7167- | 158.0783- | 2- | 12- | | 0-405500 | 14300 | 431 | 13930 | 59 | -2 | 15.8 | 8.4 | -395 | -6 | | 12.3 | 6422 | 117 | 6.7 | -41 | 0.228 |
| 02- | 66.7267- | 158.1400- | 2- | 12- | | 0-405501 | 15650 | 394 | 13450 | -36 | -2 | 13.2 | 4.7 | -376 | -3 | | 9.9 | 5548 | 111 | 3.5 | | 0.273 |
| 02- | 66.7228- | 158.1989- | 2- | 13- | | 0-405502 | 19300 | 475 | 14200 | 48 | 2 | 13.5 | 7.8 | -291 | | | 14.9 | 6830 | 113 | 4.8 | 108 | 0.295 |
| 02- | 66.7000- | 158.2322- | 2- | 13- | | 0-405503 | 19990 | 404 | 14580 | 52 | -1 | 12.8 | 5.7 | -309 | -4 | | 9.0 | 5519 | 113 | 4.1 | 141 | 0.344 |
| 02- | 66.6933- | 158.1183- | 2- | 13- | | 0-405504 | 20060 | 692 | 14140 | -33 | -2 | 16.5 | 9.0 | -425 | -7 | -1 | 14.0 | 6288 | 117 | 6.0 | -37 | 0.250 |
| 02- | 66.6825- | 158.0958- | 2- | 13- | | 0-405505 | 17130 | 396 | 14700 | -34 | -2 | 13.5 | 5.1 | -362 | -6 | | 9.0 | 5806 | 108 | 4.8 | -256 | 0.356 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.6919- | 158.0086- | 2- | 13- | | 0-405506- | 08/24/76- | 17- | 21- | 15.0- | | -S- | 7.8- | 40- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.20 |
| 02- | 66.6642- | 158.0208- | 2- | 12- | | 0-405507- | 08/24/76- | 17- | 21- | 14.8- | | | 7.6- | 104- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 3.00 |
| 02- | 66.6689- | 158.0639- | 2- | 12- | | 0-405508- | 08/24/76- | 17- | 21- | 14.6- | | | 7.2- | 110- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 3.20 |
| 02- | 66.6639- | 158.1475- | 2- | 12- | | 0-405509- | 08/24/76- | 17- | 21- | 14.6- | | | 7.8- | 126- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 2.90 |
| 02- | 66.6728- | 158.1950- | 2- | 13- | | 0-405510- | 08/24/76- | 17- | 21- | 15.3- | | -S- | 8.3- | 35- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 4.00 |
| 02- | 66.6389- | 158.2367- | 2- | 13- | | 0-405511- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 8.0- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.10 |
| 02- | 66.6292- | 158.1392- | 2- | 13- | | 0-405512- | 08/24/76- | 17- | 21- | 15.2- | | -S- | 8.1- | 42- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 4.90 |
| 02- | 66.6375- | 158.0600- | 2- | 13- | | 0-405513- | 08/24/76- | 17- | 21- | 15.8- | | -S- | 7.3- | 18- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.00 |
| 02- | 66.6228- | 158.0000- | 2- | 13- | | 0-405514- | 08/24/76- | 17- | 21- | 15.2- | | -S- | 7.2- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.30 |
| 02- | 66.6117- | 158.0067- | 2- | 13- | | 0-405515- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 7.6- | 28- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.20 |
| 02- | 66.5917- | 158.0933- | 2- | 13- | | 0-405516- | 08/24/76- | 17- | 21- | 15.2- | | -S- | 10.7- | 61- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.90 |
| 02- | 66.6133- | 158.1200- | 2- | 13- | | 0-405517- | 08/24/76- | 17- | 21- | 15.8- | | -S- | 10.1- | 82- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 1.90 |
| 02- | 66.6025- | 158.1822- | 2- | 13- | | 0-405518- | 08/24/76- | 17- | 21- | 14.8- | | -S- | 8.8- | 76- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 1.80 |
| 02- | 66.5822- | 158.1917- | 2- | 13- | | 0-405519- | 08/24/76- | 17- | 21- | 15.7- | | -S- | 8.6- | 76- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.40 |
| 02- | 66.5833- | 158.1333- | 2- | 13- | | 0-405520- | 08/24/76- | 17- | 21- | 15.0- | | -S- | 8.9- | 47- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.60 |
| 02- | 66.5667- | 158.1000- | 2- | 13- | | 0-405521- | 08/24/76- | 17- | 21- | 15.6- | | -S- | 8.2- | 56- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.50 |
| 02- | 66.5753- | 158.0108- | 2- | 15- | | 0-405522- | 08/24/76- | 17- | 21- | | | | | - | | -2- | 7- | 4- | 6- | | | | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.90 |
| 02- | 66.5508- | 158.0200- | 2- | 12- | | 0-405523- | 08/24/76- | 17- | 21- | 13.6- | | | 6.0- | 40- | | -2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 2.30 |
| 02- | 66.5600- | 158.0561- | 2- | 12- | | 0-405524- | 08/24/76- | 17- | 21- | 13.6- | | | 6.8- | 28- | | -2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 2.90 |
| 02- | 66.5564- | 158.1656- | 2- | 13- | | 0-405525- | 08/24/76- | 17- | 21- | 14.6- | | -S- | 6.8- | 15- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.20 |
| 02- | 66.5617- | 158.2167- | 2- | 13- | | 0-405526- | 08/24/76- | 17- | 21- | 14.8- | | -S- | 6.9- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.00 |
| 02- | 66.5292- | 158.2267- | 2- | 13- | | 0-405527- | 08/24/76- | 17- | 21- | 15.0- | | -S- | 7.2- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.50 |
| 02- | 66.5308- | 158.1617- | 2- | 12- | | 0-405528- | 08/24/76- | 18- | 21- | 13.8- | | | 4.2- | 28- | | -2- | 7- | 5- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 4.40 |
| 02- | 66.5200- | 158.0667- | 2- | 12- | | 0-405529- | 08/24/76- | 18- | 21- | 12.6- | | | 7.6- | 25- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 3.70 |
| 02- | 66.5111- | 158.0083- | 2- | 12- | | 0-405530- | 08/24/76- | 18- | 21- | 13.6- | | | 5.0- | 20- | | -2- | 7- | 4- | 6- | 3- | 3- | 1- | 2- | 4- | 3- | 3- | 2- | | -1- | | | | | 4.00 |
| 02- | 66.4928- | 158.0183- | 2- | 13- | | 0-405531- | 08/24/76- | 18- | 21- | 15.8- | | -S- | 7.5- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 5.00 |
| 02- | 66.4819- | 158.0583- | 2- | 13- | | 0-405532- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.0- | 30- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.80 |
| 02- | 66.4808- | 158.1503- | 2- | 13- | | 0-405533- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.6- | 33- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.30 |
| 02- | 66.4800- | 158.2000- | 2- | 13- | | 0-405534- | 08/24/76- | 18- | 21- | 15.9- | | -S- | 7.7- | 32- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.10 |
| 02- | 66.4667- | 158.2167- | 2- | 13- | | 0-405535- | 08/24/76- | 18- | 21- | 15.8- | | -S- | 7.2- | 46- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.10 |
| 02- | 66.4608- | 158.1500- | 2- | 13- | | 0-405536- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.6- | 59- | | -2- | 7- | 4- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.40 |
| 02- | 66.4533- | 158.0767- | 2- | 13- | | 0-405537- | 08/24/76- | 18- | 21- | 16.1- | | -S- | 7.7- | 68- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.30 |
| 02- | 66.4558- | 158.0250- | 2- | 13- | | 0-405538- | 08/24/76- | 18- | 21- | 16.3- | | -S- | 7.0- | 52- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.30 |
| 02- | 66.4428- | 158.0233- | 2- | 13- | | 0-405539- | 08/24/76- | 18- | 21- | 16.0- | | -S- | 7.5- | 60- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.10 |
| 02- | 66.4442- | 158.0883- | 2- | 13- | | 0-405540- | 08/24/76- | 18- | 21- | 15.0- | | -S- | 7.7- | 30- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 4.20 |
| 02- | 66.4425- | 158.1400- | 2- | 13- | | 0-405541- | 08/24/76- | 18- | 21- | 14.9- | | -S- | 7.2- | 44- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.90 |
| 02- | 66.4389- | 158.2181- | 2- | 13- | | 0-405542- | 08/24/76- | 18- | 21- | 15.4- | | -S- | 7.6- | 38- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.90 |
| 02- | 66.4067- | 158.2417- | 2- | 13- | | 0-405543- | 08/24/76- | 18- | 21- | 15.4- | | -S- | 7.4- | 30- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.80 |
| 02- | 66.4100- | 158.1458- | 2- | 13- | | 0-405544- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.0- | 28- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.70 |
| 02- | 66.3944- | 158.1033- | 2- | 13- | | 0-405545- | 08/24/76- | 18- | 21- | 15.0- | | -S- | 7.2- | 38- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.20 |
| 02- | 66.4000- | 158.0300- | 2- | 13- | | 0-405546- | 08/24/76- | 18- | 21- | 14.0- | | -S- | 7.0- | 20- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.00 |
| 02- | 66.3700- | 158.0267- | 2- | 15- | | 0-405547- | 08/24/76- | 18- | 21- | | | | | - | | -2- | 7- | 5- | 6- | | | | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.50 |
| 02- | 66.3833- | 158.0767- | 2- | 13- | | 0-405548- | 08/24/76- | 18- | 20- | 15.0- | | -S- | 7.3- | 59- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.60 |
| 02- | 66.3683- | 158.1667- | 2- | 13- | | 0-405549- | 08/24/76- | 18- | 20- | 15.2- | | -S- | 7.0- | 48- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 2.60 |
| 02- | 66.3803- | 158.2000- | 2- | 13- | | 0-405550- | 08/24/76- | 18- | 21- | 15.6- | | -S- | 7.4- | 52- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 3- | 2- | | -1- | | | | | 3.10 |
| 02- | 66.3722- | 158.3000- | 2- | 13- | | 0-405551- | 08/24/76- | 18- | 20- | 15.2- | | -S- | 7.7- | 103- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | | -1- | | | | | 3.50 |
| 02- | 66.4058- | 158.3167- | 2- | 13- | | 0-405552- | 08/24/76- | 18- | 20- | 15.9- | | -S- | 7.6- | 98- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | | -1- | | | | | 2.90 |
| 02- | 66.4058- | 158.3533- | 2- | 13- | | 0-405553- | 08/24/76- | 18- | 20- | 15.6- | | -S- | 7.4- | 101- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | | -1- | | | | | 3.30 |
| 02- | 66.3728- | 158.3833- | 2- | 13- | | 0-405554- | 08/24/76- | 19- | 20- | 14.9- | | -S- | 7.1- | 20- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | | -1- | | | | | 3.40 |
| 02- | 66.3733- | 158.4656- | 2- | 13- | | 0-405555- | 08/24/76- | 19- | 20- | 15.0- | | -S- | 7.0- | 18- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | | -1- | | | | | 2.00 |
| 02- | 66.4000- | 158.4500- | 2- | 13- | | 0-405556- | 08/24/76- | 19- | 20- | 15.6- | | -S- | 7.4- | 26- | | -2- | 7- | 5- | 6- | | -3- | 1- | | -4- | 3- | 1- | 2- | | -1- | | | | | 3.40 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(2)

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) Be | Li |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02- | 66.6919- | 158.0066- | 2- | 13- | | 0-405506 | -5 | -5 | -5 | 29 | -20 | 16 | 8 | -10 | -15 | 2 | 27 |
| 02- | 66.6642- | 158.0206- | 2- | 12- | | 0-405507 | -5 | -5 | -5 | 31 | 32 | 42 | 7 | -10 | -15 | 2 | 32 |
| 02- | 66.6689- | 158.0639- | 2- | 12- | | 0-405508 | -5 | -5 | -5 | 39 | 20 | 33 | 8 | -10 | -15 | 2 | 44 |
| 02- | 66.6639- | 158.1475- | 2- | 12- | | 0-405509 | -5 | -5 | -5 | 35 | 29 | 26 | -5 | -10 | -15 | 1 | 17 |
| 02- | 66.6728- | 158.1950- | 2- | 13- | | 0-405510 | -5 | -5 | -5 | 27 | -20 | 31 | 5 | -10 | -15 | 2 | 25 |
| 02- | 66.6389- | 158.2367- | 2- | 13- | | 0-405511 | -5 | -5 | -5 | 30 | 35 | 36 | -5 | -10 | -15 | -1 | 11 |
| 02- | 66.6292- | 158.1392- | 2- | 13- | | 0-405512 | -5 | -5 | -5 | 22 | -20 | 30 | 10 | -10 | -15 | -1 | 15 |
| 02- | 66.6375- | 158.0600- | 2- | 13- | | 0-405513 | -5 | -5 | -5 | 15 | -20 | 33 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.6228- | 158.0000- | 2- | 13- | | 0-405514 | -5 | -5 | -5 | 34 | 24 | 18 | -5 | -10 | -15 | 3 | 34 |
| 02- | 66.6117- | 158.0067- | 2- | 13- | | 0-405515 | -5 | 6 | -5 | 21 | -20 | -15 | -5 | -10 | -15 | 2 | 39 |
| 02- | 66.5917- | 158.0933- | 2- | 13- | | 0-405516 | -5 | -5 | -5 | -10 | -20 | -15 | 5 | -10 | -15 | 1 | 17 |
| 02- | 66.6133- | 158.1200- | 2- | 13- | | 0-405517 | -5 | -5 | -5 | 32 | 26 | 39 | -5 | -10 | -15 | 3 | 25 |
| 02- | 66.6025- | 158.1822- | 2- | 13- | | 0-405518 | -5 | -5 | -5 | -10 | -20 | -15 | -5 | -10 | -15 | 2 | 15 |
| 02- | 66.5822- | 158.1917- | 2- | 13- | | 0-405519 | -5 | -5 | -5 | 27 | 38 | 33 | 7 | -10 | -15 | 1 | 24 |
| 02- | 66.5833- | 158.1333- | 2- | 13- | | 0-405520 | -5 | -5 | -5 | 33 | 28 | 30 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.5667- | 158.1000- | 2- | 13- | | 0-405521 | -5 | -5 | -5 | 19 | 29 | 30 | -5 | -10 | -15 | 2 | 26 |
| 02- | 66.5753- | 158.0106- | 2- | 15- | | 0-405522 | -5 | -5 | -5 | 13 | 38 | -15 | -5 | -10 | -15 | 1 | 26 |
| 02- | 66.5508- | 158.0200- | 2- | 12- | | 0-405523 | -5 | -5 | -5 | 15 | 21 | 18 | 8 | -10 | -15 | 1 | 30 |
| 02- | 66.5600- | 158.0561- | 2- | 12- | | 0-405524 | -5 | 7 | -5 | 11 | -20 | 25 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.5564- | 158.1656- | 2- | 13- | | 0-405525 | -5 | -5 | -5 | 23 | -20 | 34 | -5 | -10 | -15 | 2 | 20 |
| 02- | 66.5617- | 158.2167- | 2- | 13- | | 0-405526 | -5 | -5 | -5 | 24 | 45 | 21 | 7 | -10 | -15 | 2 | 34 |
| 02- | 66.5292- | 158.2267- | 2- | 13- | | 0-405527 | -5 | -5 | -5 | 35 | -20 | 35 | 6 | -10 | -15 | 2 | 34 |
| 02- | 66.5306- | 158.1617- | 2- | 12- | | 0-405528 | -5 | -5 | -5 | 23 | 46 | 21 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.5200- | 158.0667- | 2- | 12- | | 0-405529 | -5 | -5 | -5 | 22 | 31 | 15 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.5111- | 158.0063- | 2- | 12- | | 0-405530 | -5 | 5 | -5 | 26 | -20 | 19 | 7 | -10 | -15 | -1 | 14 |
| 02- | 66.4928- | 158.0183- | 2- | 13- | | 0-405531 | -5 | -5 | -5 | 19 | 41 | 33 | 8 | -10 | -15 | 1 | 17 |
| 02- | 66.4819- | 158.0503- | 2- | 13- | | 0-405532 | -5 | 8 | -5 | 17 | 24 | 36 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.4806- | 158.1503- | 2- | 13- | | 0-405533 | -5 | -5 | -5 | 32 | -20 | 29 | 11 | -10 | -15 | -1 | 5 |
| 02- | 66.4800- | 158.2000- | 2- | 13- | | 0-405534 | -5 | -5 | 6 | 36 | 36 | 37 | 6 | -10 | -15 | -1 | 6 |
| 02- | 66.4667- | 158.2167- | 2- | 13- | | 0-405535 | -5 | -5 | -5 | 35 | -20 | 21 | 8 | -10 | -15 | 2 | 19 |
| 02- | 66.4606- | 158.1500- | 2- | 13- | | 0-405536 | -5 | -5 | -5 | 40 | -20 | 23 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.4533- | 158.0767- | 2- | 13- | | 0-405537 | -5 | -5 | -5 | 30 | 21 | 37 | -5 | -10 | -15 | 1 | 18 |
| 02- | 66.4558- | 158.0250- | 2- | 13- | | 0-405538 | -5 | -5 | -5 | 29 | -20 | -15 | -5 | -10 | -15 | 2 | 19 |
| 02- | 66.4428- | 158.0233- | 2- | 13- | | 0-405539 | -5 | -5 | -5 | 30 | 54 | 29 | 7 | -10 | -15 | 1 | 13 |
| 02- | 66.4442- | 158.0883- | 2- | 13- | | 0-405540 | -5 | -5 | -5 | 13 | -20 | 36 | -5 | -10 | -15 | 1 | 17 |
| 02- | 66.4425- | 158.1400- | 2- | 13- | | 0-405541 | -5 | -5 | -5 | 22 | 24 | 27 | -5 | -10 | -15 | 1 | 20 |
| 02- | 66.4389- | 158.2181- | 2- | 13- | | 0-405542 | -5 | -5 | -5 | 20 | 39 | 17 | 7 | -10 | -15 | 1 | 17 |
| 02- | 66.4067- | 158.2417- | 2- | 13- | | 0-405543 | -5 | -5 | -5 | 33 | -20 | 24 | -5 | -10 | -15 | 1 | 17 |
| 02- | 66.4100- | 158.1458- | 2- | 13- | | 0-405544 | -5 | -5 | -5 | 20 | -20 | 20 | -5 | -10 | -15 | 2 | 34 |
| 02- | 66.3944- | 158.1033- | 2- | 13- | | 0-405545 | -5 | -5 | -5 | 28 | -20 | 17 | -5 | -10 | -15 | -1 | 26 |
| 02- | 66.4000- | 158.0300- | 2- | 13- | | 0-405546 | -5 | -5 | -5 | 25 | 22 | 33 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.3700- | 158.0267- | 2- | 15- | | 0-405547 | -5 | 5 | -5 | 23 | -20 | 20 | -5 | -10 | -15 | 1 | 22 |
| 02- | 66.3833- | 158.0767- | 2- | 13- | | 0-405548 | -5 | 6 | -5 | 13 | -20 | 39 | 9 | -10 | -15 | 2 | 23 |
| 02- | 66.3683- | 158.1667- | 2- | 13- | | 0-405549 | -5 | -5 | 9 | 24 | -20 | 28 | -5 | -10 | -15 | -1 | 19 |
| 02- | 66.3803- | 158.2000- | 2- | 13- | | 0-405550 | | | | | | | | | | 1 | 31 |
| 02- | 66.3722- | 158.3000- | 2- | 13- | | 0-405551 | -5 | -5 | -5 | 14 | 24 | 27 | 6 | -10 | -15 | 2 | 20 |
| 02- | 66.4056- | 158.3167- | 2- | 13- | | 0-405552 | -5 | -5 | -5 | 31 | -20 | 24 | -5 | -10 | -15 | 1 | 11 |
| 02- | 66.4058- | 158.3533- | 2- | 13- | | 0-405553 | -5 | -5 | -5 | 34 | -20 | 37 | 9 | -10 | -15 | 1 | 25 |
| 02- | 66.3728- | 158.3833- | 2- | 13- | | 0-405554 | -5 | -5 | -5 | 39 | 22 | 38 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.3733- | 158.4656- | 2- | 13- | | 0-405555 | -5 | -5 | -5 | 26 | -20 | -15 | -5 | -10 | -15 | -1 | 5 |
| 02- | 66.4000- | 158.4500- | 2- | 13- | | 0-405556 | -5 | -5 | -5 | 30 | -20 | 29 | -5 | -10 | -15 | 2 | 30 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.6919- | 158.0086- | 2- | 13- | | 0-405506 | 74600 | -0.06 | 694 | 9470 | 90 | -92 | 14.9 | 84 | 3.5 | 7 | 1.7 | 24280 | 10.2 | 15400 | 51 | 0.7 |
| 02- | 66.6642- | 158.0208- | 2- | 12- | | 0-405507 | 69620 | -0.06 | 730 | 17110 | 74 | -99 | 16.2 | 97 | 4.2 | 6 | 1.5 | 28370 | 6.4 | 13430 | 34 | 0.5 |
| 02- | 66.6689- | 158.0639- | 2- | 12- | | 0-405508 | 73830 | -0.07 | 705 | 9953 | 104 | -107 | 21.0 | 131 | 4.6 | 5 | 1.8 | 32990 | 7.0 | 13900 | 44 | 0.6 |
| 02- | 66.6639- | 158.1475- | 2- | 12- | | 0-405509 | 70710 | -0.10 | 634 | 9210 | 73 | -117 | 16.0 | 73 | -2.9 | 5 | 1.4 | 24560 | 6.7 | 15230 | 43 | 0.5 |
| 02- | 66.6728- | 158.1950- | 2- | 13- | | 0-405510 | 77100 | -0.06 | 822 | 7010 | 83 | -94 | 19.1 | 106 | 6.4 | 5 | 1.6 | 30130 | 7.7 | 12600 | 45 | 0.5 |
| 02- | 66.6389- | 158.2367- | 2- | 13- | | 0-405511 | 74850 | -0.07 | 718 | 11010 | 70 | -93 | 11.4 | 77 | 3.1 | 7 | 1.4 | 22940 | 6.0 | 16230 | 36 | 0.5 |
| 02- | 66.6292- | 158.1392- | 2- | 13- | | 0-405512 | 59760 | -0.06 | 672 | 10360 | 111 | -89 | 13.0 | 86 | 6.1 | 7 | 1.7 | 24910 | 10.5 | 12160 | 54 | 0.7 |
| 02- | 66.6375- | 158.0600- | 2- | 13- | | 0-405513 | 71850 | -0.08 | 597 | 8032 | 69 | -104 | 11.0 | 62 | 3.0 | 5 | 1.6 | 22320 | 7.0 | 13480 | 40 | 0.4 |
| 02- | 66.6228- | 158.0000- | 2- | 13- | | 0-405514 | 74400 | -0.06 | 695 | 10400 | 78 | -96 | 18.7 | 126 | 4.1 | 5 | 1.4 | 30230 | 6.6 | 12300 | 39 | 0.5 |
| 02- | 66.6117- | 158.0067- | 2- | 13- | | 0-405515 | 75950 | -0.07 | 734 | 12320 | 61 | 190 | 12.4 | 76 | 3.4 | 7 | 1.4 | 24310 | 6.3 | 15060 | 37 | 0.5 |
| 02- | 66.5917- | 158.0933- | 2- | 13- | | 0-405516 | 50380 | -0.06 | 299 | 11430 | 124 | -102 | 9.9 | 66 | 2.1 | 8 | 1.4 | 27540 | 20.7 | 9754 | 58 | 1.2 |
| 02- | 66.6133- | 158.1200- | 2- | 13- | | 0-405517 | 77310 | -0.09 | 352 | 17550 | 43 | -131 | 21.6 | 114 | -2.6 | 3 | 1.2 | 36820 | 4.4 | 8407 | 27 | 0.4 |
| 02- | 66.6025- | 158.1822- | 2- | 13- | | 0-405518 | 40910 | -0.05 | 347 | 9364 | 75 | -86 | 7.5 | 34 | -1.5 | 5 | 1.0 | 17210 | 7.7 | 8442 | 37 | 0.6 |
| 02- | 66.5822- | 158.1917- | 2- | 13- | | 0-405519 | 82200 | -0.08 | 829 | 8530 | 95 | -96 | 19.4 | 115 | 5.3 | 7 | 1.8 | 30880 | 7.7 | 16500 | 48 | 0.6 |
| 02- | 66.5833- | 158.1333- | 2- | 13- | | 0-405520 | 64260 | -0.07 | 529 | 12090 | 73 | 307 | 25.5 | 168 | 2.3 | 6 | 1.6 | 38900 | 4.9 | 8138 | 40 | 0.4 |
| 02- | 66.5667- | 158.1000- | 2- | 13- | | 0-405521 | 82100 | -0.08 | 794 | 8985 | 112 | -105 | 20.8 | 132 | 6.7 | 5 | 1.9 | 32410 | 8.6 | 12840 | 53 | 0.6 |
| 02- | 66.5753- | 158.0108- | 2- | 15- | | 0-405522 | 71950 | -0.09 | 668 | 8979 | 80 | -112 | 12.6 | 88 | 4.6 | 5 | 1.3 | 26680 | 6.8 | 16300 | 30 | 0.4 |
| 02- | 66.5508- | 158.0200- | 2- | 12- | | 0-405523 | 71920 | -0.06 | 631 | 10460 | 70 | -91 | 10.5 | 80 | 3.2 | 7 | 1.4 | 23600 | 8.8 | 13130 | 42 | 0.6 |
| 02- | 66.5600- | 158.0561- | 2- | 12- | | 0-405524 | 74680 | -0.08 | 728 | 10960 | 110 | -101 | 15.0 | 101 | 4.5 | 6 | 1.6 | 28740 | 10.1 | 13810 | 49 | 0.7 |
| 02- | 66.5564- | 158.1656- | 2- | 13- | | 0-405525 | 67420 | -0.08 | 580 | 10050 | 65 | -106 | 11.0 | 86 | -2.4 | 6 | 1.1 | 24500 | 8.3 | 11340 | 42 | 0.7 |
| 02- | 66.5617- | 158.2167- | 2- | 13- | | 0-405526 | 78900 | -0.07 | 784 | 9630 | 92 | -96 | 16.7 | 90 | 4.1 | 7 | 1.6 | 25890 | 8.1 | 14600 | 46 | 0.6 |
| 02- | 66.5292- | 158.2267- | 2- | 13- | | 0-405527 | 80130 | -0.08 | 748 | 9309 | 82 | -92 | 15.6 | 83 | 4.9 | 5 | 1.4 | 28160 | 6.3 | 15800 | 38 | 0.4 |
| 02- | 66.5308- | 158.1617- | 2- | 12- | | 0-405528 | 64570 | -0.07 | 662 | 13170 | 121 | -92 | 14.2 | 98 | 4.2 | 7 | 1.9 | 29590 | 12.8 | 12050 | 57 | 0.7 |
| 02- | 66.5200- | 158.0667- | 2- | 12- | | 0-405529 | 66030 | -0.08 | 617 | 11230 | 82 | -103 | 13.2 | 102 | 2.5 | 5 | 1.4 | 25650 | 9.3 | 10240 | 50 | 0.7 |
| 02- | 66.5111- | 158.0083- | 2- | 12- | | 0-405530 | 68100 | -0.06 | 709 | 12600 | 92 | -85 | 14.4 | 112 | 4.0 | 7 | 1.7 | 25890 | 11.5 | 11800 | 53 | 0.7 |
| 02- | 66.4928- | 158.0183- | 2- | 13- | | 0-405531 | 56960 | -0.05 | 561 | 12480 | 79 | -79 | 9.8 | 73 | 4.7 | 6 | 1.4 | 23070 | 9.2 | 13110 | 43 | 0.5 |
| 02- | 66.4819- | 158.0583- | 2- | 13- | | 0-405532 | 72240 | -0.08 | 673 | 10990 | 96 | -104 | 13.2 | 84 | 4.5 | 6 | 1.5 | 28120 | 7.7 | 13130 | 41 | 0.5 |
| 02- | 66.4808- | 158.1503- | 2- | 13- | | 0-405533 | 61950 | -0.14 | 518 | 8729 | 57 | -124 | 17.8 | 85 | -3.8 | 5 | -6.8 | 28770 | -3.0 | 12080 | | -0.3 |
| 02- | 66.4800- | 158.2000- | 2- | 13- | | 0-405534 | 61800 | -0.10 | 665 | 9510 | 65 | 164 | 20.2 | 81 | 4.3 | 5 | 1.5 | 33840 | 4.9 | 16000 | 36 | 0.5 |
| 02- | 66.4667- | 158.2167- | 2- | 13- | | 0-405535 | 71180 | -0.09 | 839 | 8022 | 73 | -91 | 9.6 | 71 | 4.6 | 6 | 1.7 | 23600 | 5.4 | 14700 | 36 | 0.3 |
| 02- | 66.4608- | 158.1500- | 2- | 13- | | 0-405536 | 78360 | -0.09 | 683 | 10600 | 122 | -109 | 17.3 | 96 | 4.7 | 8 | 2.0 | 31440 | 11.1 | 16090 | 50 | 0.8 |
| 02- | 66.4533- | 158.0767- | 2- | 13- | | 0-405537 | 68850 | -0.10 | 645 | 23620 | 89 | -118 | 16.6 | 73 | 3.5 | 4 | 1.5 | 31680 | 6.6 | 13820 | 43 | 0.6 |
| 02- | 66.4558- | 158.0250- | 2- | 13- | | 0-405538 | 69100 | -0.07 | 674 | 11700 | 94 | -98 | 15.6 | 88 | 3.5 | 7 | 1.6 | 26120 | 8.5 | 12300 | 44 | 0.6 |
| 02- | 66.4428- | 158.0233- | 2- | 13- | | 0-405539 | 73480 | -0.08 | 891 | 11660 | 72 | -101 | 14.9 | 70 | 4.3 | 5 | 1.3 | 27310 | 5.0 | 12440 | 46 | 0.4 |
| 02- | 66.4442- | 158.0683- | 2- | 13- | | 0-405540 | 55710 | -0.07 | 566 | 13930 | 99 | -108 | 13.8 | 89 | 3.6 | 5 | 1.7 | 25760 | 9.1 | 8142 | 45 | 0.6 |
| 02- | 66.4425- | 158.1400- | 2- | 13- | | 0-405541 | 81000 | -0.10 | 901 | 7670 | 77 | -103 | 21.7 | 115 | 6.4 | 5 | 1.7 | 33200 | 5.1 | 16300 | 42 | 0.5 |
| 02- | 66.4369- | 158.2181- | 2- | 13- | | 0-405542 | 76670 | -0.07 | 764 | 9815 | 69 | -98 | 10.7 | 73 | 3.9 | 6 | 1.5 | 21270 | 5.7 | 16860 | 37 | 0.5 |
| 02- | 66.4067- | 158.2417- | 2- | 13- | | 0-405543 | 67310 | -0.07 | 781 | 10000 | 64 | -94 | 11.8 | 73 | 3.4 | 6 | 1.3 | 22850 | 5.9 | 11920 | 36 | 0.4 |
| 02- | 66.4100- | 158.1458- | 2- | 13- | | 0-405544 | 70030 | -0.07 | 742 | 13640 | 127 | -102 | 16.3 | 137 | 3.8 | 6 | 2.0 | 31060 | 13.3 | 12130 | 63 | 0.8 |
| 02- | 66.3944- | 158.1033- | 2- | 13- | | 0-405545 | 68880 | -0.09 | 505 | 8802 | 92 | -111 | 13.1 | 94 | 3.4 | 6 | 1.7 | 26190 | 7.4 | 15150 | 38 | 0.7 |
| 02- | 66.4000- | 158.0300- | 2- | 13- | | 0-405546 | 83900 | -0.08 | 939 | 7290 | 86 | -100 | 21.3 | 134 | 5.7 | 7 | 1.6 | 31080 | 6.3 | 15200 | 46 | 0.6 |
| 02- | 66.3700- | 158.0267- | 2- | 15- | | 0-405547 | 61430 | -0.06 | 515 | 11910 | 93 | -90 | 10.5 | 75 | 2.9 | 7 | 1.5 | 24550 | 10.3 | 10660 | 49 | 0.7 |
| 02- | 66.3833- | 158.0767- | 2- | 13- | | 0-405548 | 75120 | -0.07 | 798 | 9674 | 126 | -98 | 16.6 | 131 | 4.6 | 8 | 2.1 | 34930 | 11.5 | 13680 | 55 | 0.8 |
| 02- | 66.3683- | 158.1667- | 2- | 13- | | 0-405549 | 63640 | -0.09 | -234 | 14950 | 105 | 260 | 27.3 | 226 | 4.2 | 6 | 1.8 | 42220 | 5.9 | 7551 | 46 | 0.5 |
| 02- | 66.3803- | 158.2000- | 2- | 13- | | 0-405550 | 84300 | -0.09 | 972 | 10000 | 85 | -107 | 23.3 | 109 | 4.7 | 6 | 1.8 | 36170 | 5.9 | 16100 | 48 | 0.6 |
| 02- | 66.3722- | 158.3000- | 2- | 13- | | 0-405551 | 71970 | -0.06 | 566 | 11740 | 77 | -91 | 12.0 | 64 | 2.9 | 7 | 1.4 | 25160 | 8.9 | 16590 | 41 | 0.7 |
| 02- | 66.4058- | 158.3167- | 2- | 13- | | 0-405552 | 67730 | -0.07 | 667 | 22370 | 98 | -111 | 17.4 | 105 | 3.9 | 6 | 1.8 | 34140 | 8.9 | 10870 | 46 | 0.7 |
| 02- | 66.4058- | 158.3533- | 2- | 13- | | 0-405553 | 69700 | -0.09 | 676 | 24680 | 84 | -110 | 17.4 | 79 | 4.4 | 5 | 1.5 | 28750 | 6.9 | 12760 | 43 | 0.5 |
| 02- | 66.3728- | 158.3833- | 2- | 13- | | 0-405554 | 72400 | -0.07 | 707 | 20300 | 82 | -103 | 18.6 | 99 | 4.2 | 6 | 1.5 | 32310 | 7.6 | 14000 | 49 | 0.5 |
| 02- | 66.3733- | 158.4656- | 2- | 13- | | 0-405555 | 53500 | -0.10 | 626 | -1300 | 44 | -93 | 7.4 | 64 | 4.1 | 3 | 1.0 | 12220 | 4.0 | 10270 | | 0.3 |
| 02- | 66.4000- | 158.4500- | 2- | 13- | | 0-405556 | 69370 | -0.07 | 660 | 12020 | 116 | -104 | 14.8 | 126 | 4.0 | 7 | 2.0 | 27960 | 11.4 | 11690 | 50 | 0.8 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

4

| DOE SAMPLE NUMBER | | | | | | LABS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 66.6919- | 158.0086- | 2- | 13- | | 0-405506 | 19700 | 379 | 14500 | 56 | -1 | 14.6 | 7.7 | -308 | -6 | -1 | 12.1 | 6360 | 116 | 5.8 | 180 | 0.264 |
| 02- | 66.6642- | 158.0206- | 2- | 12- | | 0-405507 | 20960 | 851 | 13420 | 52 | -1 | 14.5 | 6.1 | -374 | -6 | | 9.6 | 5592 | 126 | 4.2 | 117 | 0.313 |
| 02- | 66.6669- | 158.0639- | 2- | 12- | | 0-405508 | 22850 | 586 | 16700 | 57 | -2 | 18.1 | 7.2 | -369 | -3 | | 14.0 | 5429 | 147 | 4.7 | 136 | 0.229 |
| 02- | 66.6639- | 158.1475- | 2- | 12- | | 0-405509 | 15820 | 450 | 12010 | -39 | -3 | 14.7 | 4.2 | -423 | -2 | -1 | 11.9 | 5260 | 119 | 3.9 | 69 | 0.244 |
| 02- | 66.6728- | 158.1950- | 2- | 13- | | 0-405510 | 22100 | 442 | 16300 | 48 | -1 | 13.7 | 6.5 | -310 | -5 | | 15.1 | 7030 | 127 | 3.8 | 158 | 0.265 |
| 02- | 66.6389- | 158.2307- | 2- | 13- | | 0-405511 | 18690 | 372 | 12500 | -26 | -2 | 13.4 | 5.6 | -316 | -3 | | 9.2 | 6099 | 129 | 4.0 | 145 | 0.337 |
| 02- | 66.6292- | 158.1392- | 2- | 13- | | 0-405512 | 13080 | 476 | 13900 | 55 | -1 | 11.8 | 8.4 | -312 | 1 | | 17.4 | 6902 | 97 | 5.1 | 101 | 0.282 |
| 02- | 66.6375- | 158.0600- | 2- | 13- | | 0-405513 | 20720 | 349 | 14160 | 50 | -2 | 13.9 | 4.3 | -347 | -1 | -1 | 9.7 | 6017 | 111 | 3.6 | | 0.309 |
| 02- | 66.6228- | 158.0000- | 2- | 13- | | 0-405514 | 24200 | 588 | 16400 | 35 | 1 | 16.4 | 6.0 | -326 | -5 | 1 | 12.2 | 6280 | 152 | 3.6 | 116 | 0.270 |
| 02- | 66.6117- | 158.0067- | 2- | 13- | | 0-405515 | 18800 | 410 | 13310 | -27 | -2 | 14.1 | 6.7 | -337 | -5 | -1 | 9.9 | 5560 | 137 | 5.3 | -98 | 0.323 |
| 02- | 66.5917- | 158.0933- | 2- | 13- | | 0-405516 | 9074 | 1184 | 11530 | 39 | -1 | 16.6 | 9.4 | -421 | 3 | -1 | 14.2 | 10920 | 72 | 8.5 | 95 | 0.275 |
| 02- | 66.6133- | 158.1200- | 2- | 13- | | 0-405517 | 29120 | 848 | 18180 | -37 | -2 | 19.1 | 3.3 | -473 | -9 | -1 | 6.2 | 5459 | 206 | -2.3 | -358 | 0.306 |
| 02- | 66.6025- | 158.1822- | 2- | 13- | | 0-405518 | 6966 | 489 | 12950 | 28 | -1 | 9.2 | 6.2 | -303 | -2 | | 8.8 | 4996 | 47 | 4.7 | 91 | 0.205 |
| 02- | 66.5822- | 158.1917- | 2- | 13- | | 0-405519 | 22200 | 509 | 11700 | 50 | -2 | 18.4 | 7.9 | -359 | -5 | | 15.2 | 6530 | 155 | 5.0 | 163 | 0.224 |
| 02- | 66.5833- | 158.1333- | 2- | 13- | | 0-405520 | 18430 | 1105 | 12320 | 46 | -2 | 14.4 | 6.2 | -452 | -2 | -1 | 9.5 | 6333 | 142 | 3.4 | 149 | 0.274 |
| 02- | 66.5667- | 158.1000- | 2- | 13- | | 0-405521 | 22330 | 459 | 13280 | 71 | -2 | 18.6 | 8.0 | -381 | -4 | | 17.3 | 6589 | 144 | 5.6 | 140 | 0.202 |
| 02- | 66.5753- | 158.0108- | 2- | 15- | | 0-405522 | 18170 | 336 | 12790 | -38 | -2 | 14.9 | 4.5 | -373 | | -1 | 9.2 | 6214 | 131 | 4.5 | -57 | 0.315 |
| 02- | 66.5508- | 158.0200- | 2- | 12- | | 0-405523 | 18430 | 533 | 13000 | 47 | -1 | 14.0 | 5.8 | -325 | -5 | | 8.2 | 7820 | 115 | 4.4 | 140 | 0.280 |
| 02- | 66.5600- | 158.0561- | 2- | 12- | | 0-405524 | 19590 | 370 | 13890 | 51 | -2 | 16.0 | 8.2 | -344 | -4 | | 11.2 | 6184 | 125 | 6.3 | 174 | 0.259 |
| 02- | 66.5564- | 158.1656- | 2- | 13- | | 0-405525 | 17790 | 527 | 12420 | -34 | -2 | 14.8 | 5.6 | -388 | | | 10.5 | 7077 | 106 | 4.4 | | 0.305 |
| 02- | 66.5617- | 158.2167- | 2- | 13- | | 0-405526 | 17200 | 380 | 12900 | 37 | -2 | 16.3 | 7.1 | -334 | -3 | -1 | 11.5 | 6570 | 140 | 5.6 | 133 | 0.261 |
| 02- | 66.5292- | 158.2207- | 2- | 13- | | 0-405527 | 20270 | 450 | 13050 | -33 | -2 | 15.1 | 6.6 | -310 | -7 | | 11.2 | 6676 | 145 | 3.8 | 178 | 0.313 |
| 02- | 66.5308- | 158.1617- | 2- | 12- | | 0-405528 | 15420 | 475 | 14330 | 55 | -2 | 14.6 | 8.8 | -314 | -5 | | 15.4 | 7326 | 118 | 6.6 | 131 | 0.286 |
| 02- | 66.5200- | 158.0667- | 2- | 12- | | 0-405529 | 15700 | 613 | 13890 | -34 | -2 | 14.7 | 5.9 | -376 | | | 10.6 | 5808 | 113 | 5.3 | | 0.349 |
| 02- | 66.5111- | 158.0083- | 2- | 12- | | 0-405530 | 20400 | 454 | 14200 | 32 | -1 | 15.4 | 7.2 | -286 | -4 | -1 | 13.3 | 7260 | 121 | 5.5 | 89 | 0.301 |
| 02- | 66.4928- | 158.0183- | 2- | 13- | | 0-405531 | 15890 | 472 | 13780 | 35 | -1 | 9.8 | 6.5 | -268 | 1 | | 13.4 | 6257 | 94 | 4.1 | 68 | 0.373 |
| 02- | 66.4819- | 158.0583- | 2- | 13- | | 0-405532 | 16250 | 391 | 14790 | 53 | -2 | 14.8 | 7.3 | -348 | -4 | | 10.6 | 6327 | 103 | 5.8 | 162 | 0.264 |
| 02- | 66.4808- | 158.1503- | 2- | 13- | | 0-405533 | 16340 | 454 | 9083 | -63 | -4 | 14.6 | 3.8 | -495 | -3 | -2 | 10.4 | 3422 | 134 | -3.7 | -339 | 0.317 |
| 02- | 66.4800- | 158.2000- | 2- | 13- | | 0-405534 | 13600 | 529 | 8650 | -42 | -3 | 14.5 | 5.0 | -425 | -1 | -1 | 11.9 | 4560 | 120 | 3.9 | 174 | 0.261 |
| 02- | 66.4667- | 158.2167- | 2- | 13- | | 0-405535 | 17310 | 280 | 10970 | -37 | -2 | 14.0 | 5.6 | -312 | -2 | -1 | 9.3 | 5839 | 129 | 3.2 | -100 | 0.333 |
| 02- | 66.4608- | 158.1500- | 2- | 13- | | 0-405536 | 20700 | 426 | 13400 | 63 | -2 | 17.5 | 9.8 | -379 | -5 | -1 | 14.4 | 6463 | 125 | 5.2 | 133 | 0.236 |
| 02- | 66.4533- | 158.0767- | 2- | 13- | | 0-405537 | 17940 | 641 | 12150 | -43 | -3 | 14.9 | 4.8 | -450 | | | 10.2 | 5224 | 126 | 3.6 | | 0.324 |
| 02- | 66.4558- | 158.0250- | 2- | 13- | | 0-405538 | 18400 | 391 | 14300 | 42 | -2 | 14.2 | 7.2 | -319 | -6 | 1 | 11.3 | 6270 | 118 | 5.2 | 120 | 0.292 |
| 02- | 66.4428- | 158.0233- | 2- | 13- | | 0-405539 | 16560 | 396 | 11500 | 79 | -2 | 14.7 | 6.3 | -350 | -5 | | 11.6 | 5545 | 132 | 3.6 | 156 | 0.267 |
| 02- | 66.4442- | 158.0883- | 2- | 13- | | 0-405540 | 13560 | 753 | 14940 | 43 | -2 | 12.3 | 6.3 | -404 | | | 11.9 | 5620 | 109 | 4.2 | | 0.353 |
| 02- | 66.4425- | 158.1400- | 2- | 13- | | 0-405541 | 20400 | 403 | 9430 | 83 | -3 | 18.4 | 5.9 | -400 | -1 | -1 | 14.9 | 5990 | 174 | 5.0 | 207 | 0.195 |
| 02- | 66.4389- | 158.2181- | 2- | 13- | | 0-405542 | 14150 | 331 | 13370 | 78 | -2 | 13.7 | 5.6 | -322 | -4 | | 9.9 | 5610 | 119 | 4.0 | -55 | 0.293 |
| 02- | 66.4067- | 158.2417- | 2- | 13- | | 0-405543 | 17140 | 337 | 12150 | -30 | -2 | 12.3 | 5.7 | -318 | -4 | | 9.2 | 5647 | 112 | 3.9 | -120 | 0.304 |
| 02- | 66.4100- | 158.1458- | 2- | 13- | | 0-405544 | 18470 | 613 | 14510 | 43 | -2 | 17.3 | 9.6 | -371 | -5 | | 14.7 | 7164 | 115 | 5.8 | 145 | 0.252 |
| 02- | 66.3944- | 158.1033- | 2- | 13- | | 0-405545 | 15810 | 555 | 12620 | 64 | -2 | 14.5 | 5.6 | -402 | -1 | -1 | 11.2 | 5910 | 113 | 5.3 | -119 | 0.286 |
| 02- | 66.4000- | 158.0300- | 2- | 13- | | 0-405546 | 22300 | 379 | 11700 | -35 | -2 | 17.8 | 7.5 | -361 | -7 | -1 | 12.9 | 6650 | 154 | 3.7 | 180 | 0.233 |
| 02- | 66.3700- | 158.0267- | 2- | 15- | | 0-405547 | 16080 | 735 | 13350 | 42 | -1 | 12.4 | 7.3 | -342 | -5 | -1 | 11.0 | 8243 | 97 | 5.4 | 77 | 0.316 |
| 02- | 66.3833- | 158.0767- | 2- | 13- | | 0-405548 | 22980 | 474 | 13600 | 52 | -2 | 17.2 | 11.1 | -342 | -3 | -1 | 15.5 | 7378 | 141 | 6.7 | 150 | 0.232 |
| 02- | 66.3883- | 158.1667- | 2- | 13- | | 0-405549 | 20870 | 1048 | 12020 | -42 | -2 | 15.8 | 6.2 | -511 | | -1 | 11.7 | 6117 | 148 | 3.9 | 170 | 0.222 |
| 02- | 66.3803- | 158.2000- | 2- | 13- | | 0-405550 | 21100 | 611 | 11100 | 49 | -2 | 18.5 | 7.8 | -417 | -6 | -1 | 12.8 | 6690 | 158 | 4.6 | -144 | 0.242 |
| 02- | 66.3722- | 158.3000- | 2- | 13- | | 0-405551 | 16960 | 568 | 15150 | 46 | -1 | 12.8 | 6.5 | -313 | -4 | -1 | 9.6 | 6690 | 113 | 4.8 | 69 | 0.365 |
| 02- | 66.4058- | 158.3167- | 2- | 13- | | 0-405552 | 23730 | 699 | 14870 | -31 | -2 | 17.1 | 8.4 | -404 | -4 | | 12.2 | 6503 | 121 | 5.9 | 134 | 0.238 |
| 02- | 66.4058- | 158.3533- | 2- | 13- | | 0-405553 | 23040 | 604 | 11450 | -37 | -2 | 13.9 | 5.0 | -417 | -15 | | 10.4 | 5018 | 131 | 3.8 | -604 | 0.317 |
| 02- | 66.3728- | 158.3833- | 2- | 13- | | 0-405554 | 20800 | 676 | 12400 | 36 | -2 | 15.6 | 6.8 | -388 | -4 | | 13.3 | 5640 | 141 | 3.6 | 163 | 0.256 |
| 02- | 66.3733- | 158.4658- | 2- | 13- | | 0-405555 | 9546 | 136 | 7020 | -44 | -3 | 10.3 | 3.6 | -324 | | -1 | 7.7 | 3968 | 89 | -2.5 | 69 | 0.260 |
| 02- | 66.4000- | 158.4500- | 2- | 13- | | 0-405556 | 18200 | 523 | 14230 | 58 | -2 | 16.3 | 8.8 | -373 | -5 | -1 | 14.2 | 6534 | 118 | 6.3 | 99 | 0.239 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(1)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU/ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.4044- | 158.5000- | 2- | 13- | | 0-405557- | 08/24/76- | 19- | 20- | 15.4- | | -S- | 7.3- | 35- | | -2- | 7- | 5- | 6- | | 3- | 1- | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 3.00 |
| 02- | 66.3867- | 158.5367- | 2- | 13- | | 0-405558- | 08/24/76- | 19- | 20- | 15.8- | | -S- | 7.0- | 46- | | -2- | 7- | 5- | 6- | | 3- | 1- | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.3817- | 158.5833- | 2- | 13- | | 0-405559- | 08/24/76- | 19- | 20- | 15.2- | | -S- | 7.6- | 47- | | -2- | 7- | 5- | 6- | | 3- | 1- | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 3.70 |
| 02- | 66.4067- | 158.5883- | 2- | 13- | | 0-405560- | 08/24/76- | 19- | 20- | 14.9- | | -S- | 6.8- | 22- | | -2- | 7- | 5- | 6- | | 3- | 1- | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.7208- | 159.3625- | 2- | 13- | | 0-405566- | 08/25/76- | 9- | 13- | 14.5- | | -S- | 7.6- | 23- | | -2- | 7- | 6- | 6- | | 3- | 1- | -4- | 3- | 1- | 1- | | -1- | - | - | - | - | 3.20 |
| 02- | 66.6900- | 159.3367- | 2- | 13- | | 0-405567- | 08/25/76- | 9- | 14- | 14.8- | | -S- | 7.5- | 26- | | -2- | 7- | 6- | 6- | | 3- | 1- | -4- | 3- | 1- | 1- | | -1- | - | - | - | - | 3.20 |
| 02- | 66.6770- | 159.2600- | 2- | 13- | | 0-405568- | 08/25/76- | 9- | 16- | 14.7- | | -S- | 7.7- | 40- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.40 |
| 02- | 66.7167- | 159.2383- | 2- | 13- | | 0-405569- | 08/25/76- | 9- | 16- | 15.2- | | -S- | 7.8- | 33- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 2.70 |
| 02- | 66.7136- | 159.1333- | 2- | 13- | | 0-405570- | 08/25/76- | 10- | 17- | 15.4- | | -S- | 7.8- | 29- | | -2- | 7- | 6- | 6- | | - | 3- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.40 |
| 02- | 66.6867- | 159.0533- | 2- | 13- | | 0-405572- | 08/25/76- | 10- | 18- | 15.0- | | -S- | 7.9- | 48- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.20 |
| 02- | 66.7297- | 158.9367- | 2- | 13- | | 0-405574- | 08/25/76- | 10- | 18- | 15.1- | | -S- | 6.7- | 14- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.90 |
| 02- | 66.7500- | 158.9400- | 2- | 13- | | 0-405575- | 08/25/76- | 10- | 17- | 14.9- | | -S- | 6.5- | 14- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.30 |
| 02- | 66.7803- | 158.9458- | 2- | 13- | | 0-405576- | 08/25/76- | 10- | 17- | 15.0- | | -S- | 6.9- | 30- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.40 |
| 02- | 66.8167- | 158.9358- | 2- | 13- | | 0-405577- | 08/25/76- | 10- | 17- | 15.0- | | -S- | 7.5- | 49- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 2.90 |
| 02- | 66.8275- | 158.8958- | 2- | 13- | | 0-405578- | 08/25/76- | 10- | 17- | 15.2- | | -S- | 7.8- | 41- | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 1.40 |
| 02- | 66.8097- | 158.8875- | 2- | 12- | | 0-405579- | 08/25/76- | 10- | 17- | 12.6- | | - - | 8.0- | 110- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 2.90 |
| 02- | 66.7889- | 158.8966- | 2- | 12- | | 0-405580- | 08/25/76- | 10- | 17- | 13.7- | | - - | 7.9- | 68- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 2.90 |
| 02- | 66.8039- | 158.7950- | 2- | 13- | | 0-405581- | 08/25/76- | 10- | 17- | 14.9- | | -S- | 6.9- | 5- | | -2- | 7- | 6- | 6- | | 3- | 1- | - | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 2.80 |
| 02- | 66.7903- | 158.8028- | 2- | 13- | | 0-405582- | 08/25/76- | 10- | 17- | 15.1- | | -S- | 6.7- | 14- | | -2- | 7- | 6- | 6- | | 3- | 1- | - | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 3.40 |
| 02- | 66.7972- | 158.7042- | 2- | 12- | | 0-405583- | 08/25/76- | 10- | 17- | 13.3- | | - - | 7.5- | 48- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 2.70 |
| 02- | 66.8078- | 158.6567- | 2- | 12- | | 0-405584- | 08/25/76- | 10- | 17- | 14.1- | | - - | 6.9- | 73- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 3.40 |
| 02- | 66.8139- | 158.6033- | 2- | 12- | | 0-405585- | 08/25/76- | 10- | 17- | 13.7- | | - - | 8.2- | 67- | | -2- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 1- | 2- | 1- | 1- | - | - | - | - | - | 3.60 |
| 02- | 66.8361- | 158.6433- | 2- | 12- | | 0-405586- | 08/25/76- | 10- | 17- | 13.3- | | - - | 8.8- | 43- | | -2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 3.50 |
| 02- | 66.7806- | 158.7158- | 2- | 12- | | 0-405587- | 08/25/76- | 10- | 17- | 12.6- | | - - | 8.1- | 35- | | 3- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 3.60 |
| 02- | 66.7506- | 158.7200- | 2- | 12- | | 0-405588- | 08/25/76- | 10- | 17- | 13.5- | | - - | 7.3- | 59- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 3.90 |
| 02- | 66.7528- | 158.7806- | 2- | 13- | | 0-405589- | 08/25/76- | 11- | 17- | 15.8- | | -S- | 7.5- | 17- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 1.90 |
| 02- | 66.7569- | 158.9000- | 2- | 13- | | 0-405590- | 08/25/76- | 11- | 17- | 15.0- | | -S- | 7.2- | 28- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.50 |
| 02- | 66.7206- | 158.8733- | 2- | 13- | | 0-405591- | 08/25/76- | 11- | 17- | 15.6- | | -S- | 7.3- | 42- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.30 |
| 02- | 66.7267- | 158.5783- | 2- | 13- | | 0-405592- | 08/25/76- | 11- | 17- | 16.0- | | -S- | 7.5- | 35- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.20 |
| 02- | 66.7258- | 158.5125- | 2- | 13- | | 0-405593- | 08/25/76- | 11- | 17- | 15.6- | | -S- | 7.7- | 54- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 4.60 |
| 02- | 66.7222- | 158.4425- | 2- | 13- | | 0-405594- | 08/25/76- | 11- | 17- | 15.9- | | -S- | 7.6- | 11- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 1.30 |
| 02- | 66.7156- | 158.3533- | 2- | 12- | | 0-405595- | 08/25/76- | 11- | 17- | 14.2- | | - - | 8.5- | 61- | | 13- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 3.80 |
| 02- | 66.7200- | 158.2894- | 2- | 12- | | 0-405596- | 08/25/76- | 11- | 18- | 13.3- | | - - | 7.8- | 71- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 2- | 1- | 1- | -1- | - | - | - | - | 4.40 |
| 02- | 66.7433- | 158.3000- | 2- | 13- | | 0-405597- | 08/25/76- | 11- | 18- | 16.4- | | -S- | 7.6- | 38- | | | -2- | 7- | 4- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 2.00 |
| 02- | 66.7775- | 158.3050- | 2- | 13- | | 0-405598- | 08/25/76- | 11- | 18- | 16.0- | | -S- | 8.1- | 60- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 1.50 |
| 02- | 66.7808- | 158.3658- | 2- | 13- | | 0-405599- | 08/25/76- | 11- | 18- | 15.4- | | -S- | 8.4- | 44- | | | -2- | 7- | 4- | 6- | | 3- | 3- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.10 |
| 02- | 66.7567- | 158.3533- | 2- | 13- | | 0-405600- | 08/25/76- | 11- | 18- | 15.8- | | -S- | 8.4- | 51- | | | -2- | 7- | 6- | 6- | | 3- | 2- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.40 |
| 02- | 66.7597- | 158.4444- | 2- | 13- | | 0-406001- | 08/25/76- | 11- | 18- | 15.6- | | -S- | 8.2- | 49- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 2.90 |
| 02- | 66.7808- | 158.4489- | 2- | 13- | | 0-406002- | 08/25/76- | 11- | 18- | 15.5- | | -S- | 8.2- | 25- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 2.80 |
| 02- | 66.7733- | 158.5133- | 2- | 13- | | 0-406003- | 08/25/76- | 11- | 18- | 16.2- | | -S- | 9.9- | 44- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.30 |
| 02- | 66.7517- | 158.5083- | 2- | 13- | | 0-406004- | 08/25/76- | 11- | 18- | 16.1- | | -S- | 9.3- | 24- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 2.50 |
| 02- | 66.7500- | 158.5833- | 2- | 13- | | 0-406005- | 08/25/76- | 11- | 18- | 15.6- | | -S- | 8.4- | 22- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.10 |
| 02- | 66.7800- | 158.5800- | 2- | 13- | | 0-406006- | 08/25/76- | 11- | 18- | 15.4- | | -S- | 9.1- | 63- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 2.10 |
| 02- | 66.7817- | 158.6561- | 2- | 13- | | 0-406007- | 08/25/76- | 11- | 18- | 15.6- | | -S- | 8.9- | 21- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 1.50 |
| 02- | 66.7533- | 158.6500- | 2- | 13- | | 0-406008- | 08/25/76- | 11- | 18- | 15.9- | | -S- | 7.3- | 9- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 2.90 |
| 02- | 66.8058- | 158.4961- | 2- | 13- | | 0-406009- | 08/25/76- | 12- | 18- | 16.0- | | -S- | 7.2- | 46- | | | -2- | 7- | 6- | 6- | | 3- | 2- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.80 |
| 02- | 66.8400- | 158.5017- | 2- | 13- | | 0-406010- | 08/25/76- | 12- | 18- | 15.4- | | -S- | 7.6- | 2- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 4.30 |
| 02- | 66.8669- | 158.4439- | 2- | 13- | | 0-406011- | 08/25/76- | 12- | 18- | 15.2- | C- | S- | 7.0- | 11- | | | -2- | 7- | 6- | 6- | | 3- | 3- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 4.20 |
| 02- | 66.8358- | 158.4417- | 2- | 13- | | 0-406012- | 08/25/76- | 12- | 18- | 15.4- | | -S- | 7.1- | 51- | | | -2- | 7- | 6- | 6- | | 3- | 2- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.60 |
| 02- | 66.8133- | 158.4433- | 2- | 13- | | 0-406013- | 08/25/76- | 12- | 18- | 17.4- | | -S- | 7.9- | 49- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 4.00 |
| 02- | 66.7967- | 158.3625- | 2- | 13- | | 0-406014- | 08/25/76- | 12- | 18- | 15.9- | | -S- | 8.1- | 90- | | | -2- | 7- | 6- | 6- | | 3- | 1- | -1- | 2- | 1- | 1- | -1- | - | - | - | - | - | 3.50 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02-66.4044-158.5000-2-13- | | | | | | 0-405557 | -5 | -5 | -5 | 37 | 29 | 30 | -5 | -10 | -15 | 1 | 14 |
| 02-66.3867-158.5367-2-13- | | | | | | 0-405558 | -5 | -5 | -5 | 26 | 24 | 26 | 11 | -10 | -15 | 2 | 28 |
| 02-66.3817-158.5833-2-13- | | | | | | 0-405559 | -5 | -5 | -5 | 25 | -20 | 29 | -5 | -10 | -15 | -1 | 5 |
| 02-66.4067-158.5883-2-13- | | | | | | 0-405560 | -5 | -5 | -5 | 26 | -20 | 41 | 6 | -10 | -15 | 1 | 10 |
| 02-66.7208-159.3625-2-13- | | | | | | 0-405566 | -5 | -5 | -5 | 31 | -20 | 34 | 8 | -10 | -15 | 2 | 29 |
| 02-66.6900-159.3367-2-13- | | | | | | 0-405567 | -5 | -5 | -5 | 34 | -20 | 26 | 9 | -10 | -15 | 2 | 30 |
| 02-66.6778-159.2600-2-13- | | | | | | 0-405568 | -5 | -5 | -5 | 42 | -20 | 52 | 10 | -10 | -15 | 2 | 27 |
| 02-66.7167-159.2383-2-13- | | | | | | 0-405569 | | | | | | | | | | -1 | 16 |
| 02-66.7136-159.1333-2-13- | | | | | | 0-405570 | -5 | -5 | -5 | 12 | -20 | -15 | -5 | -10 | -15 | 2 | 15 |
| 02-66.6867-159.0533-2-13- | | | | | | 0-405572 | -5 | -5 | -5 | 16 | -20 | 31 | -5 | -10 | -15 | 3 | 23 |
| 02-66.7297-158.9367-2-13- | | | | | | 0-405574 | -5 | -5 | -5 | 15 | -20 | 32 | -5 | -10 | -15 | 2 | 32 |
| 02-66.7500-158.9400-2-13- | | | | | | 0-405575 | -5 | -5 | -5 | 19 | 24 | 18 | -5 | -10 | -15 | 2 | 18 |
| 02-66.7803-158.9458-2-13- | | | | | | 0-405576 | -5 | -5 | -5 | 18 | -20 | 38 | 5 | -10 | -15 | 3 | 24 |
| 02-66.8167-158.9358-2-13- | | | | | | 0-405577 | -5 | -5 | -5 | -10 | -20 | 21 | 7 | -10 | -15 | 1 | 15 |
| 02-66.8275-158.8958-2-13- | | | | | | 0-405578 | -5 | -5 | -5 | 17 | -20 | -15 | -5 | -10 | -15 | 2 | 13 |
| 02-66.8097-158.8875-2-12- | | | | | | 0-405579 | -5 | -5 | -5 | 20 | -20 | 17 | -5 | -10 | -15 | 3 | 27 |
| 02-66.7869-158.8986-2-12- | | | | | | 0-405580 | -5 | -5 | -5 | 18 | -20 | -15 | -5 | -10 | -15 | 3 | 29 |
| 02-66.8039-158.7950-2-13- | | | | | | 0-405581 | -5 | -5 | -5 | 28 | 23 | 18 | -5 | -10 | -15 | 1 | 11 |
| 02-66.7903-158.8028-2-13- | | | | | | 0-405582 | -5 | 6 | -5 | 27 | 24 | 31 | 8 | -10 | -15 | 2 | 13 |
| 02-66.7972-158.7042-2-12- | | | | | | 0-405583 | -5 | -5 | -5 | 20 | 38 | -15 | -5 | -10 | -15 | 2 | 16 |
| 02-66.8078-158.6567-2-12- | | | | | | 0-405584 | -5 | -5 | -5 | 19 | 38 | 31 | 6 | -10 | -15 | 1 | 22 |
| 02-66.8139-158.6033-2-12- | | | | | | 0-405585 | -5 | -5 | -5 | 21 | -20 | 18 | -5 | -10 | -15 | 2 | 16 |
| 02-66.8361-158.6433-2-12- | | | | | | 0-405586 | -5 | -5 | -5 | 25 | -20 | -15 | -5 | -10 | -15 | 2 | 17 |
| 02-66.7806-158.7158-2-12- | | | | | | 0-405587 | -5 | -5 | -5 | 20 | -20 | 19 | 5 | -10 | -15 | 2 | 21 |
| 02-66.7506-158.7200-2-12- | | | | | | 0-405588 | -5 | -5 | -5 | 25 | -20 | 31 | -5 | -10 | -15 | 2 | 22 |
| 02-66.7528-158.7806-2-13- | | | | | | 0-405589 | -5 | -5 | -5 | 18 | -20 | -15 | 7 | -10 | -15 | 2 | 19 |
| 02-66.7569-158.9000-2-13- | | | | | | 0-405590 | -5 | -5 | -5 | 33 | -20 | 20 | 5 | -10 | -15 | 2 | 16 |
| 02-66.7206-158.8733-2-13- | | | | | | 0-405591 | -5 | -5 | -5 | 41 | 33 | 28 | 5 | -10 | -15 | 2 | 18 |
| 02-66.7267-158.5783-2-13- | | | | | | 0-405592 | -5 | -5 | -5 | 22 | 48 | 18 | -5 | -10 | -15 | 2 | 15 |
| 02-66.7258-158.5125-2-13- | | | | | | 0-405593 | -5 | -5 | -5 | 19 | 41 | -15 | 5 | -10 | -15 | 1 | 17 |
| 02-66.7222-158.4425-2-13- | | | | | | 0-405594 | | | | | | | | | | -1 | 6 |
| 02-66.7156-158.3533-2-12- | | | | | | 0-405595 | -5 | -5 | -5 | 21 | 51 | -15 | -5 | -10 | -15 | 1 | 8 |
| 02-66.7200-158.2894-2-12- | | | | | | 0-405596 | -5 | -5 | -5 | 15 | 40 | 22 | -5 | -10 | -15 | 2 | 15 |
| 02-66.7433-158.3000-2-13- | | | | | | 0-405597 | -5 | -5 | -5 | 12 | -20 | -15 | 5 | -10 | -15 | 2 | 9 |
| 02-66.7775-158.3050-2-13- | | | | | | 0-405598 | -5 | -5 | -5 | 14 | -20 | -15 | 7 | -10 | -15 | 2 | 21 |
| 02-66.7808-158.3656-2-13- | | | | | | 0-405599 | -5 | -5 | -5 | 19 | 43 | 38 | -5 | -10 | -15 | 2 | 17 |
| 02-66.7567-158.3533-2-13- | | | | | | 0-405600 | -5 | -5 | -5 | 27 | 35 | 20 | -5 | -10 | -15 | 3 | 29 |
| 02-66.7597-158.4444-2-13- | | | | | | 0-406001 | -5 | -5 | -5 | 15 | 34 | 18 | -5 | -10 | -15 | 2 | 27 |
| 02-66.7808-158.4489-2-13- | | | | | | 0-406002 | | | | | | | | | | -1 | 6 |
| 02-66.7733-158.5133-2-13- | | | | | | 0-406003 | -5 | -5 | -5 | 32 | 23 | 38 | -5 | -10 | -15 | 2 | 24 |
| 02-66.7517-158.5083-2-13- | | | | | | 0-406004 | -5 | -5 | -5 | 14 | -20 | -15 | -5 | -10 | -15 | 1 | 14 |
| 02-66.7500-158.5833-2-13- | | | | | | 0-406005 | -5 | -5 | -5 | 31 | 38 | 24 | -5 | -10 | -15 | 2 | 27 |
| 02-66.7800-158.5800-2-13- | | | | | | 0-406006 | -5 | -5 | -5 | 12 | -20 | 21 | -5 | -10 | -15 | 2 | 11 |
| 02-66.7817-158.6561-2-13- | | | | | | 0-406007 | -5 | -5 | -5 | -10 | 21 | -15 | -5 | -10 | -15 | 1 | 6 |
| 02-66.7533-158.6500-2-13- | | | | | | 0-406008 | -5 | -5 | -5 | 39 | 26 | 34 | -5 | -10 | -15 | 2 | 15 |
| 02-66.8058-158.4961-2-13- | | | | | | 0-406009 | -5 | -5 | -5 | 26 | -20 | 39 | 9 | -10 | -15 | 2 | 33 |
| 02-66.8400-158.5017-2-13- | | | | | | 0-406010 | -5 | -5 | -5 | 41 | -20 | 20 | -5 | -10 | -15 | 2 | 29 |
| 02-66.8689-158.4439-2-13- | | | | | | 0-406011 | -5 | -5 | -5 | 13 | -20 | -15 | 10 | -10 | -15 | -1 | 5 |
| 02-66.8356-158.4417-2-13- | | | | | | 0-406012 | -5 | -5 | -5 | 24 | -20 | 28 | -5 | -10 | -15 | 3 | 28 |
| 02-66.8133-158.4433-2-13- | | | | | | 0-406013 | -5 | -5 | -5 | -10 | -20 | 24 | -5 | -10 | -15 | 1 | 3 |
| 02-66.7967-158.3625-2-13- | | | | | | 0-406014 | -5 | -5 | -5 | 29 | -20 | 42 | -5 | -10 | -15 | 3 | 39 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LAB SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.4044- | 158.5000- | 2- | 13- | | 0-405557 | 85270 | -0.11 | 1023 | 7618 | 72 | -113 | 20.4 | 90 | -3.3 | 5 | 1.2 | 31960 | 5.3 | 15400 | 38 | -0.2 |
| 02- | 66.3867- | 158.5367- | 2- | 13- | | 0-405558 | 71700 | -0.08 | 712 | 10300 | 86 | -103 | 17.1 | 119 | 4.5 | 6 | 1.5 | 25870 | 7.5 | 14800 | 50 | 0.5 |
| 02- | 66.3817- | 158.5833- | 2- | 13- | | 0-405559 | 75150 | 0.23 | 712 | 13390 | 76 | -96 | 13.3 | 84 | 3.8 | 7 | 1.5 | 25470 | 7.8 | 15470 | 48 | 0.5 |
| 02- | 66.4067- | 158.5883- | 2- | 13- | | 0-405560 | 73490 | -0.09 | 802 | 11000 | 104 | -110 | 16.6 | 120 | 4.3 | 6 | 1.5 | 30750 | 8.3 | 14440 | 54 | 0.7 |
| 02- | 66.7206- | 159.3625- | 2- | 13- | | 0-405566 | 74460 | -0.10 | 828 | 18440 | 82 | -121 | 15.9 | 88 | -3.0 | 5 | 1.3 | 28560 | 5.9 | 14580 | 36 | 0.4 |
| 02- | 66.6900- | 159.3367- | 2- | 13- | | 0-405567 | 85600 | -0.08 | 954 | 8120 | 91 | -103 | 19.5 | 111 | 5.6 | 7 | 1.9 | 30240 | 7.5 | 17300 | 50 | 0.7 |
| 02- | 66.6778- | 159.2600- | 2- | 13- | | 0-405568 | 88570 | -0.08 | 882 | 8890 | 92 | -103 | 18.5 | 106 | 5.8 | 7 | 1.6 | 32360 | 5.5 | 17010 | 47 | 0.6 |
| 02- | 66.7167- | 159.2383- | 2- | 13- | | 0-405569 | 73480 | -0.10 | 830 | 9499 | 94 | -117 | 18.1 | 103 | 5.6 | 6 | 2.0 | 29560 | 7.3 | 17540 | 56 | 0.5 |
| 02- | 66.7136- | 159.1333- | 2- | 13- | | 0-405570 | 58740 | -0.08 | 453 | 11120 | 95 | -107 | 10.0 | 80 | -2.1 | 6 | 1.5 | 25240 | 11.6 | 12040 | 42 | 0.6 |
| 02- | 66.6867- | 159.0533- | 2- | 13- | | 0-405572 | 72600 | -0.06 | 711 | 8840 | 86 | -93 | 15.3 | 87 | 3.9 | 7 | 1.4 | 23910 | 8.8 | 13600 | 55 | 0.7 |
| 02- | 66.7297- | 158.9367- | 2- | 13- | | 0-405574 | 74870 | -0.08 | 678 | 7458 | 65 | -111 | 19.2 | 86 | 5.1 | 4 | 1.3 | 28710 | 6.5 | 13480 | 41 | 0.4 |
| 02- | 66.7500- | 158.9400- | 2- | 13- | | 0-405575 | 60600 | -0.03 | 484 | 12100 | 88 | -87 | 11.9 | 65 | 2.8 | 8 | 1.4 | 25060 | 10.8 | 11400 | 45 | 0.7 |
| 02- | 66.7803- | 158.9458- | 2- | 13- | | 0-405576 | 73600 | -0.04 | 585 | 10200 | 120 | -97 | 16.2 | 86 | 6.1 | 7 | 1.8 | 32810 | 11.8 | 14500 | 50 | 0.8 |
| 02- | 66.8167- | 158.9358- | 2- | 13- | | 0-405577 | 58600 | -0.05 | 497 | 8230 | 77 | -96 | 10.5 | 76 | 3.8 | 6 | 1.3 | 31760 | 8.9 | 14600 | 36 | 0.6 |
| 02- | 66.8275- | 158.8958- | 2- | 13- | | 0-405578 | 52000 | -0.02 | 312 | 6360 | 36 | -75 | 7.2 | 30 | 1.2 | 3 | 0.7 | 14400 | 3.9 | 14500 | 20 | 0.3 |
| 02- | 66.8097- | 158.8875- | 2- | 12- | | 0-405579 | 70800 | -0.03 | 591 | 9990 | 64 | -90 | 10.2 | 57 | 3.0 | 6 | 1.3 | 26760 | 7.8 | 17700 | 37 | 0.5 |
| 02- | 66.7869- | 158.8986- | 2- | 12- | | 0-405580 | 69400 | -0.05 | 587 | 9340 | 109 | -108 | 13.7 | 74 | 4.5 | 7 | 1.8 | 34210 | 10.2 | 14500 | 48 | 0.8 |
| 02- | 66.8039- | 158.7950- | 2- | 13- | | 0-405581 | 74500 | -0.06 | 651 | 7210 | 63 | -108 | 10.4 | 65 | 5.8 | 5 | 1.1 | 21220 | 5.5 | 17600 | 36 | 0.4 |
| 02- | 66.7903- | 158.8028- | 2- | 13- | | 0-405582 | 76700 | -0.04 | 682 | 9630 | 86 | -98 | 16.6 | 99 | 4.6 | 6 | 1.4 | 27290 | 7.9 | 14200 | 43 | 0.6 |
| 02- | 66.7972- | 158.7042- | 2- | 12- | | 0-405583 | 71900 | -0.03 | 566 | 14600 | 65 | -95 | 14.5 | 75 | 2.5 | 6 | 1.4 | 29310 | 7.7 | 11600 | 33 | 0.5 |
| 02- | 66.8078- | 158.6567- | 2- | 12- | | 0-405584 | 60800 | -0.04 | 439 | 10300 | 135 | -99 | 14.4 | 93 | 3.2 | 7 | 2.0 | 31210 | 13.8 | 11900 | 58 | 0.9 |
| 02- | 66.8139- | 158.6033- | 2- | 12- | | 0-405585 | 54500 | -0.04 | 342 | 11700 | 92 | -105 | 9.7 | 63 | -1.9 | 6 | 1.5 | 23040 | 12.4 | 9820 | 50 | 0.8 |
| 02- | 66.8361- | 158.6433- | 2- | 12- | | 0-405586 | 61100 | -0.03 | 535 | 10000 | 112 | -89 | 13.0 | 77 | 2.6 | 7 | 1.8 | 26720 | 12.6 | 13300 | 51 | 0.9 |
| 02- | 66.7806- | 158.7158- | 2- | 12- | | 0-405587 | 61600 | -0.03 | 504 | 11600 | 123 | -87 | 10.5 | 99 | 2.4 | 8 | 1.8 | 25930 | 12.4 | 11100 | 58 | 0.7 |
| 02- | 66.7506- | 158.7200- | 2- | 12- | | 0-405588 | 63000 | 0.19 | 594 | 7860 | 143 | -85 | 15.0 | 114 | 4.4 | 9 | 2.2 | 31120 | 14.4 | 12600 | 62 | 1.0 |
| 02- | 66.7528- | 158.7806- | 2- | 13- | | 0-405589 | 56600 | -0.04 | 468 | 8310 | 41 | -95 | 6.7 | 39 | -1.8 | 3 | 0.7 | 15840 | 3.6 | 13600 | 22 | 0.3 |
| 02- | 66.7569- | 158.9000- | 2- | 13- | | 0-405590 | 70600 | -0.04 | 803 | 11200 | 83 | -94 | 12.8 | 82 | 3.6 | 7 | 1.6 | 21320 | 7.4 | 15300 | 42 | 0.6 |
| 02- | 66.7206- | 158.8733- | 2- | 13- | | 0-405591 | 83500 | -0.05 | 875 | 11400 | 83 | -102 | 16.1 | 77 | 5.9 | 7 | 1.5 | 30220 | 4.7 | 15400 | 37 | 0.5 |
| 02- | 66.7267- | 158.5783- | 2- | 13- | | 0-405592 | 71500 | -0.04 | 747 | 10200 | 115 | -97 | 14.4 | 100 | 4.8 | 6 | 1.8 | 30930 | 11.9 | 13700 | 49 | 0.7 |
| 02- | 66.7258- | 158.5125- | 2- | 13- | | 0-405593 | 61300 | -0.04 | 575 | 12000 | 77 | -102 | 12.8 | 81 | 4.1 | 5 | 1.5 | 22500 | 8.8 | 12000 | 43 | 0.6 |
| 02- | 66.7222- | 158.4425- | 2- | 13- | | 0-405594 | 40300 | -0.07 | -290 | 15100 | 43 | 344 | 25.1 | 80 | -3.2 | 4 | 0.9 | 26430 | 4.1 | -5320 | 19 | 0.4 |
| 02- | 66.7156- | 158.3533- | 2- | 12- | | 0-405595 | 42210 | -0.03 | -154 | 12910 | 132 | -92 | 7.1 | 164 | -1.5 | 7 | 1.6 | 29990 | 16.1 | 7139 | 65 | 1.0 |
| 02- | 66.7200- | 158.2894- | 2- | 12- | | 0-405596 | 53040 | -0.06 | 233 | 17610 | 136 | 1345 | 11.7 | 181 | 2.0 | 8 | 1.8 | 35710 | 16.2 | 7902 | 75 | 1.0 |
| 02- | 66.7433- | 158.3000- | 2- | 13- | | 0-405597 | 43370 | -0.05 | -151 | 11260 | 86 | -96 | 6.8 | 44 | -1.4 | 6 | 1.2 | 19290 | 6.7 | 10410 | 40 | 0.8 |
| 02- | 66.7775- | 158.3050- | 2- | 13- | | 0-405598 | 51450 | -0.03 | 319 | 6877 | 53 | -84 | 7.1 | 32 | 1.9 | 3 | 0.9 | 15390 | 5.1 | 10070 | 24 | 0.4 |
| 02- | 66.7808- | 158.3658- | 2- | 13- | | 0-405599 | 72720 | -0.06 | 689 | 11850 | 83 | -116 | 16.7 | 83 | 3.8 | 5 | 1.7 | 27670 | 5.2 | 16710 | 37 | 0.4 |
| 02- | 66.7567- | 158.3533- | 2- | 13- | | 0-405600 | 71600 | -0.03 | 664 | 9610 | 104 | -86 | 14.3 | 68 | 2.6 | 7 | 1.7 | 27830 | 10.2 | 14340 | 47 | 0.7 |
| 02- | 66.7597- | 158.4444- | 2- | 13- | | 0-406001 | 73130 | -0.04 | 697 | 8875 | 65 | -94 | 13.9 | 76 | 3.5 | 6 | 1.5 | 25490 | 7.4 | 13700 | 37 | 0.5 |
| 02- | 66.7808- | 158.4469- | 2- | 13- | | 0-406002 | 64290 | -0.07 | 579 | 7392 | 106 | -114 | 27.9 | 99 | 7.1 | 7 | 2.1 | 34090 | 5.6 | 14720 | 43 | 0.7 |
| 02- | 66.7733- | 158.5133- | 2- | 13- | | 0-406003 | 66940 | -0.06 | 540 | 11820 | 87 | -132 | 23.6 | 178 | -3.0 | 6 | 1.9 | 35520 | 6.1 | 14290 | 45 | 0.5 |
| 02- | 66.7517- | 158.5083- | 2- | 13- | | 0-406004 | 55060 | -0.04 | 606 | 9913 | 85 | -111 | 17.5 | 70 | 3.7 | 6 | 1.5 | 23600 | 7.8 | 12320 | 38 | 0.6 |
| 02- | 66.7500- | 158.5833- | 2- | 13- | | 0-406005 | 73480 | -0.05 | 721 | 10490 | 74 | -112 | 17.6 | 76 | 5.0 | 7 | 1.8 | 27370 | 7.0 | 16620 | 40 | 0.6 |
| 02- | 66.7800- | 158.5800- | 2- | 13- | | 0-406006 | 41260 | -0.03 | 220 | 10280 | 89 | -88 | 8.7 | 41 | 2.0 | 5 | 1.3 | 17840 | 9.3 | 9774 | 38 | 0.7 |
| 02- | 66.7617- | 158.6561- | 2- | 13- | | 0-406007 | 37040 | -0.03 | -142 | 6342 | 32 | -88 | 3.8 | 17 | -1.3 | 3 | 0.5 | 9572 | 4.9 | 9294 | 16 | 0.4 |
| 02- | 66.7533- | 158.6500- | 2- | 13- | | 0-406008 | 69120 | -0.05 | 915 | 9015 | 85 | -110 | 22.1 | 99 | 6.6 | 5 | 1.9 | 28320 | 6.7 | 14540 | 41 | 0.5 |
| 02- | 66.8058- | 158.4961- | 2- | 13- | | 0-406009 | 73470 | -0.03 | 639 | 10620 | 65 | -95 | 19.9 | 85 | 5.1 | 5 | 1.5 | 26250 | 6.4 | 13000 | 37 | 0.4 |
| 02- | 66.8400- | 158.5017- | 2- | 13- | | 0-406010 | 62490 | -0.04 | 508 | 6337 | 151 | -81 | 18.1 | 110 | 4.5 | 9 | 2.5 | 28100 | 16.7 | 13560 | 65 | 1.1 |
| 02- | 66.8669- | 158.4439- | 2- | 13- | | 0-406011 | 37010 | -0.04 | -196 | 12230 | 98 | -107 | 6.5 | 30 | -1.8 | 6 | 1.3 | 21780 | 20.8 | 10880 | 52 | 1.1 |
| 02- | 66.8358- | 158.4417- | 2- | 13- | | 0-406012 | 74210 | -0.04 | 722 | 11890 | 110 | -105 | 18.2 | 96 | 5.2 | 7 | 2.0 | 26970 | 9.4 | 15070 | 54 | 0.7 |
| 02- | 66.8133- | 158.4433- | 2- | 13- | | 0-406013 | 37090 | -0.02 | -149 | 11860 | 98 | -89 | 4.7 | 30 | -1.2 | 7 | 1.3 | 20080 | 19.5 | 6369 | 49 | 0.9 |
| 02- | 66.7967- | 158.3625- | 2- | 13- | | 0-406014 | 77180 | -0.05 | 787 | 12150 | 137 | -114 | 22.1 | 131 | 5.7 | 7 | 2.2 | 35750 | 10.7 | 16220 | 58 | 0.8 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

4

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 66.4044- | 158.5000- | 2- | 13- | 0- | 405557 | 18840 | 401 | 10520 | -49 | -3 | 18.1 | 5.2 | -426 | -3 | -1 | 10.9 | 6434 | 169 | -2.9 | | 0.275 |
| 02- | 66.3867- | 158.5367- | 2- | 13- | 0- | 405558 | 16300 | 419 | 12500 | -30 | -2 | 15.7 | 6.3 | -361 | -1 | -1 | 14.9 | 6070 | 128 | 3.8 | 149 | 0.208 |
| 02- | 66.3817- | 158.5833- | 2- | 13- | 0- | 405559 | 18800 | 473 | 14330 | 55 | -2 | 13.0 | 6.5 | -321 | -7 | | 10.5 | 6107 | 114 | 4.4 | -106 | 0.352 |
| 02- | 66.4067- | 158.5883- | 2- | 13- | 0- | 405560 | 17120 | 424 | 12710 | 45 | -2 | 17.0 | 7.8 | -391 | -4 | | 14.8 | 6399 | 132 | 5.3 | 214 | 0.209 |
| 02- | 66.7208- | 159.3625- | 2- | 13- | 0- | 405566 | 22030 | 528 | 12360 | -44 | -3 | 15.2 | 4.8 | -458 | -2 | -1 | 9.4 | 4499 | 128 | 4.1 | 220 | 0.340 |
| 02- | 66.6900- | 159.3367- | 2- | 13- | 0- | 405567 | 20600 | 372 | 12300 | 65 | -2 | 18.2 | 7.9 | -367 | -4 | -1 | 14.0 | 6880 | 149 | 5.4 | 186 | 0.229 |
| 02- | 66.6778- | 159.2600- | 2- | 13- | 0- | 405568 | 22740 | 497 | 11610 | 86 | -2 | 17.4 | 6.3 | -389 | -1 | | 13.5 | 6443 | 156 | 4.7 | 204 | 0.252 |
| 02- | 66.7167- | 159.2383- | 2- | 13- | 0- | 405569 | 17160 | 329 | 10520 | 70 | -3 | 17.2 | 7.1 | -418 | -6 | -1 | 11.2 | 5033 | 122 | 6.1 | 236 | 0.241 |
| 02- | 66.7136- | 159.1333- | 2- | 13- | 0- | 405570 | 12340 | 720 | 13260 | -31 | -2 | 13.1 | 6.7 | -407 | -3 | | 11.3 | 6793 | 92 | 5.0 | | 0.301 |
| 02- | 66.6867- | 159.0533- | 2- | 13- | 0- | 405572 | 20300 | 374 | 14200 | 67 | -2 | 14.6 | 7.3 | -319 | -5 | | 11.1 | 6080 | 118 | 4.9 | 153 | 0.288 |
| 02- | 66.7297- | 158.9367- | 2- | 13- | 0- | 405574 | 19020 | 426 | 16090 | -33 | -2 | 13.0 | 4.8 | -360 | -3 | | 11.9 | 4916 | 120 | -2.3 | 126 | 0.328 |
| 02- | 66.7500- | 158.9400- | 2- | 13- | 0- | 405575 | 16800 | 666 | 13800 | 45 | -1 | 12.6 | 7.6 | -303 | -1 | | 11.4 | 7540 | 94 | 5.1 | -104 | 0.289 |
| 02- | 66.7803- | 158.9458- | 2- | 13- | 0- | 405576 | 15500 | 558 | 15000 | 57 | -1 | 16.0 | 10.1 | -344 | -5 | | 14.0 | 6940 | 112 | 6.6 | 161 | 0.243 |
| 02- | 66.8167- | 158.9358- | 2- | 13- | 0- | 405577 | 15200 | 361 | 12500 | -33 | -1 | 12.0 | 5.7 | -328 | -2 | | 8.4 | 5790 | 107 | 4.1 | | 0.345 |
| 02- | 66.8275- | 158.8958- | 2- | 13- | 0- | 405578 | 10100 | 237 | 15900 | 34 | | 6.4 | 3.5 | -221 | -2 | | 5.5 | 2850 | 43 | 2.2 | 94 | 0.255 |
| 02- | 66.8097- | 158.8875- | 2- | 12- | 0- | 405579 | 20800 | 425 | 14300 | 63 | -1 | 12.2 | 6.0 | -299 | -7 | -1 | 8.7 | 5370 | 106 | 4.0 | 99 | 0.333 |
| 02- | 66.7889- | 158.8986- | 2- | 12- | 0- | 405580 | 18700 | 439 | 13800 | 66 | -1 | 14.8 | 8.8 | -369 | -8 | 1 | 13.4 | 5580 | 99 | 5.0 | 201 | 0.216 |
| 02- | 66.8039- | 158.7950- | 2- | 13- | 0- | 405581 | 18700 | 315 | 12300 | -38 | -1 | 13.7 | 4.6 | -378 | -9 | -1 | 9.5 | 5190 | 125 | 3.1 | -375 | 0.295 |
| 02- | 66.7903- | 158.8028- | 2- | 13- | 0- | 405582 | 18700 | 461 | 14200 | 58 | -1 | 15.0 | 7.4 | -341 | -8 | -1 | 12.5 | 6340 | 128 | 4.7 | 151 | 0.272 |
| 02- | 66.7972- | 158.7042- | 2- | 12- | 0- | 405583 | 21400 | 668 | 16200 | -23 | -1 | 15.0 | 5.8 | -328 | -6 | | 8.0 | 7120 | 131 | 4.3 | 83 | 0.338 |
| 02- | 66.8078- | 158.6567- | 2- | 12- | 0- | 405584 | 15000 | 677 | 13800 | 55 | -1 | 15.6 | 10.5 | -359 | 1 | -1 | 15.4 | 7290 | 101 | 6.0 | 187 | 0.221 |
| 02- | 66.8139- | 158.6033- | 2- | 12- | 0- | 405585 | 13300 | 814 | 13800 | -26 | -1 | 12.1 | 8.5 | -392 | -6 | -1 | 11.1 | 7870 | 77 | 5.8 | | 0.324 |
| 02- | 66.8361- | 158.6433- | 2- | 12- | 0- | 405586 | 15400 | 697 | 14500 | 49 | 1 | 13.7 | 9.1 | -325 | 1 | 1 | 13.4 | 7480 | 97 | 6.4 | 79 | 0.261 |
| 02- | 66.7806- | 158.7158- | 2- | 12- | 0- | 405587 | 15100 | 711 | 14300 | 38 | 1 | 13.0 | 11.0 | -314 | | 1 | 6.7 | 7600 | 95 | 5.7 | 75 | 0.537 |
| 02- | 66.7506- | 158.7200- | 2- | 12- | 0- | 405588 | 16100 | 552 | 10800 | 60 | -1 | 14.9 | 10.8 | -319 | -4 | 2 | 17.0 | 8430 | 111 | 7.6 | 150 | 0.229 |
| 02- | 66.7528- | 158.7806- | 2- | 13- | 0- | 405589 | 12300 | 270 | 14700 | -25 | -1 | 8.2 | 3.2 | -297 | -2 | -1 | 7.3 | 3000 | 72 | 2.2 | 129 | 0.260 |
| 02- | 66.7569- | 158.9000- | 2- | 13- | 0- | 405590 | 18900 | 327 | 12700 | 45 | -1 | 13.7 | 7.3 | -307 | -9 | | 11.2 | 5750 | 117 | 4.6 | -95 | 0.313 |
| 02- | 66.7206- | 158.8733- | 2- | 13- | 0- | 405591 | 24700 | 436 | 10300 | 96 | -1 | 15.7 | 5.8 | -380 | -6 | | 11.8 | 5550 | 146 | 3.2 | 110 | 0.280 |
| 02- | 66.7267- | 158.5783- | 2- | 13- | 0- | 405592 | 16500 | 479 | 12600 | 63 | -1 | 17.2 | 8.6 | -350 | -4 | | 12.6 | 6960 | 121 | 5.4 | 121 | 0.254 |
| 02- | 66.7258- | 158.5125- | 2- | 13- | 0- | 405593 | 17800 | 480 | 14300 | -28 | -1 | 12.3 | 6.3 | -344 | -3 | | 12.1 | 6320 | 98 | 4.2 | -39 | 0.380 |
| 02- | 66.7222- | 158.4425- | 2- | 13- | 0- | 405594 | 14400 | 616 | 5710 | -48 | -2 | 11.1 | 3.6 | -573 | -3 | -1 | 4.7 | 3980 | 89 | 3.1 | 196 | 0.277 |
| 02- | 66.7156- | 158.3533- | 2- | 12- | 0- | 405595 | 7808 | 1349 | 11030 | -18 | | 15.3 | 10.3 | -373 | 1 | -1 | 13.8 | 13960 | 68 | 7.3 | | 0.275 |
| 02- | 66.7200- | 158.2894- | 2- | 12- | 0- | 405596 | 17100 | 1487 | 11810 | 28 | -1 | 18.9 | 11.2 | -436 | 2 | | 15.2 | 14190 | 97 | 8.4 | 38 | 0.289 |
| 02- | 66.7433- | 158.3000- | 2- | 13- | 0- | 405597 | 8015 | 751 | 14550 | 28 | -1 | 11.4 | 6.4 | -348 | -5 | | 9.9 | 6190 | 42 | 6.3 | -58 | 0.202 |
| 02- | 66.7775- | 158.3050- | 2- | 13- | 0- | 405598 | 7263 | 251 | 16170 | 49 | | 7.3 | 4.7 | -249 | -2 | | 5.9 | 3256 | 43 | 3.3 | 89 | 0.254 |
| 02- | 66.7808- | 158.3656- | 2- | 13- | 0- | 405599 | 25080 | 466 | 11640 | -40 | -1 | 14.3 | 5.8 | -431 | -1 | | 11.4 | 4911 | 119 | 4.2 | -119 | 0.272 |
| 02- | 66.7567- | 158.3533- | 2- | 13- | 0- | 405600 | 19360 | 547 | 14750 | 58 | | 14.1 | 7.9 | -303 | -8 | | 12.3 | 6304 | 108 | 5.3 | 155 | 0.276 |
| 02- | 66.7597- | 158.4444- | 2- | 13- | 0- | 406001 | 18850 | 357 | 13490 | 48 | -1 | 13.2 | 5.7 | -320 | -7 | -1 | 9.2 | 5338 | 127 | 4.7 | 148 | 0.315 |
| 02- | 66.7808- | 158.4489- | 2- | 13- | 0- | 406002 | 15440 | 351 | 9212 | -42 | -2 | 16.7 | 9.0 | -434 | -8 | | 17.5 | 4502 | 120 | 5.4 | 240 | 0.160 |
| 02- | 66.7733- | 158.5133- | 2- | 13- | 0- | 406003 | 20890 | 789 | 13010 | -45 | -1 | 15.6 | 6.3 | -523 | | -1 | 10.0 | 5223 | 126 | 5.3 | | 0.330 |
| 02- | 66.7517- | 158.5083- | 2- | 13- | 0- | 406004 | 11140 | 587 | 12480 | 69 | -1 | 11.8 | 6.6 | -414 | -8 | -1 | 10.2 | 5457 | 88 | 4.9 | -35 | 0.245 |
| 02- | 66.7500- | 158.5833- | 2- | 13- | 0- | 406005 | 20310 | 426 | 12550 | 67 | 1 | 13.6 | 6.4 | -394 | -9 | | 10.3 | 5304 | 122 | 3.7 | 157 | 0.301 |
| 02- | 66.7800- | 158.5800- | 2- | 13- | 0- | 406006 | 5547 | 494 | 12820 | 30 | | 9.9 | 6.9 | -309 | -2 | | 10.3 | 5009 | 47 | 5.6 | -12 | 0.204 |
| 02- | 66.7817- | 158.6561- | 2- | 13- | 0- | 406007 | -3825 | 487 | 13040 | 38 | | 6.6 | 2.3 | -307 | -1 | | 4.1 | 4706 | 36 | 3.3 | 85 | 0.366 |
| 02- | 66.7533- | 158.6500- | 2- | 13- | 0- | 406008 | 20220 | 455 | 9655 | -34 | -1 | 15.5 | 6.1 | -428 | -2 | -1 | 11.7 | 5409 | 129 | 4.0 | 159 | 0.248 |
| 02- | 66.8058- | 158.4961- | 2- | 13- | 0- | 406009 | 24000 | 566 | 14550 | 42 | 1 | 12.8 | 5.9 | -336 | -3 | | 11.1 | 6534 | 128 | 3.7 | 129 | 0.342 |
| 02- | 66.8400- | 158.5017- | 2- | 13- | 0- | 406010 | 14290 | 460 | 9375 | 65 | -1 | 14.0 | 11.9 | -302 | -7 | -1 | 18.9 | 9766 | 109 | 8.0 | 109 | 0.228 |
| 02- | 66.8689- | 158.4439- | 2- | 13- | 0- | 406011 | -4856 | 1286 | 11290 | -24 | -1 | 13.9 | 5.9 | -450 | 2 | | 10.1 | 11110 | 42 | 8.3 | | 0.416 |
| 02- | 66.8358- | 158.4417- | 2- | 13- | 0- | 406012 | 17070 | 478 | 14450 | 53 | -1 | 14.5 | 8.6 | -360 | -11 | | 14.6 | 6477 | 115 | 5.6 | 153 | 0.247 |
| 02- | 66.8133- | 158.4433- | 2- | 13- | 0- | 406013 | 5344 | 1281 | 11210 | 18 | | 13.2 | 8.0 | -358 | 2 | | 10.2 | 11990 | 47 | 7.8 | | 0.392 |
| 02- | 66.7967- | 158.3625- | 2- | 13- | 0- | 406014 | 25380 | 560 | 12640 | 75 | -1 | 18.7 | 10.4 | -422 | -6 | -1 | 15.1 | 6430 | 134 | 6.6 | 271 | 0.232 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (umho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.8108- | 158.2989- | 2- | 13- | | 0-406015- | 08/25/76- | 15- | 18- | 17.8- | | -S- | 10.0- | 93- | | -2- | 7- | 4- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 2.90 |
| 02- | 66.8433- | 158.2867- | 2- | 13- | | 0-406016- | 08/25/76- | 15- | 18- | 15.5- | | -S- | 9.3- | 112- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.50 |
| 02- | 66.6936- | 158.2833- | 2- | 13- | | 0-406017- | 08/25/76- | 15- | 18- | 18.3- | | -S- | 9.2- | 32- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 2.30 |
| 02- | 66.6667- | 158.3061- | 2- | 13- | | 0-406018- | 08/25/76- | 15- | 16- | 16.7- | | -S- | 8.3- | 38- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 2.60 |
| 02- | 66.6706- | 158.3467- | 2- | 13- | | 0-406019- | 08/25/76- | 15- | 18- | 17.1- | | -S- | 8.2- | 37- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.6917- | 158.3692- | 2- | 13- | | 0-406020- | 08/25/76- | 15- | 18- | 16.4- | | -S- | 7.8- | 27- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.40 |
| 02- | 66.6967- | 158.4500- | 2- | 13- | | 0-406021- | 08/25/76- | 15- | 18- | 16.1- | | -S- | 7.2- | 32- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 1- | | -1- | - | - | - | - | 3.00 |
| 02- | 66.6728- | 158.4442- | 2- | 13- | | 0-406022- | 08/25/76- | 15- | 18- | 16.4- | | -S- | 7.3- | 8- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | 4.00 |
| 02- | 66.6753- | 158.4933- | 2- | 13- | | 0-406023- | 08/25/76- | 15- | 18- | 16.0- | | -S- | 7.4- | 82- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | 3.30 |
| 02- | 66.6900- | 158.5192- | 2- | 13- | | 0-406024- | 08/25/76- | 15- | 18- | 16.6- | | -S- | 8.0- | 30- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | 3.40 |
| 02- | 66.6933- | 158.5667- | 2- | 13- | | 0-406025- | 08/25/76- | 15- | 17- | 16.1- | | -S- | 7.7- | 47- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.6667- | 158.5772- | 2- | 13- | | 0-406026- | 08/25/76- | 15- | 18- | 17.2- | | -S- | 7.6- | 69- | | -2- | 7- | 6- | 6- | | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | 3.50 |
| 02- | 66.3533- | 158.9283- | 2- | 13- | | 0-406028- | 08/26/76- | 6- | 10- | 14.8- | | -S- | 8.2- | 24- | | -2- | 7- | 5- | 6- | | -3- | 1- | -1- | 2- | 1- | 2- | | -1- | - | - | - | - | 3.20 |
| 02- | 66.2861- | 159.0125- | 2- | 13- | | 0-406030- | 08/26/76- | 9- | 10- | 14.5- | | -S- | 7.0- | 26- | | -2- | 7- | 5- | 7- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.00 |
| 02- | 66.2736- | 159.0111- | 2- | 13- | | 0-406031- | 08/26/76- | 6- | 10- | 13.5- | | -S- | 10.7- | 103- | | -2- | 7- | 6- | 7- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.50 |
| 02- | 66.2444- | 159.0639- | 2- | 13- | | 0-406034- | 08/26/76- | 9- | 10- | 14.1- | | -S- | 8.6- | 62- | | -2- | 7- | 5- | 6- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.30 |
| 02- | 66.1875- | 159.0042- | 2- | 13- | | 0-406035- | 08/26/76- | 6- | 10- | 13.8- | | -S- | 8.2- | 55- | | -2- | 7- | 5- | 7- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.2083- | 159.0592- | 2- | 13- | | 0-406038- | 08/26/76- | 7- | 10- | 14.2- | | -S- | 8.2- | 66- | | -2- | 7- | 5- | 8- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.20 |
| 02- | 66.1653- | 159.0492- | 2- | 13- | | 0-406039- | 08/26/76- | 7- | 10- | 12.3- | | -S- | 10.1- | 124- | | -2- | 7- | 5- | 6- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.1403- | 159.0028- | 2- | 13- | | 0-406042- | 08/22/76- | 7- | 7- | 14.0- | | -S- | 8.7- | 61- | | -2- | 7- | 5- | 8- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.10 |
| 02- | 66.1367- | 159.0433- | 2- | 12- | | 0-406046- | 08/26/76- | 7- | 8- | 9.0- | | -S- | 7.2- | 114- | | -2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 3- | 3- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.3367- | 158.8567- | 2- | 13- | | 0-406083- | 08/26/76- | 10- | 14- | 14.2- | | -S- | 7.8- | 63- | | -2- | 7- | 6- | 8- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.90 |
| 02- | 66.3422- | 158.7792- | 2- | 13- | | 0-406084- | 08/26/76- | 10- | 14- | 14.2- | | -S- | 7.4- | 77- | | -2- | 7- | 5- | 8- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.00 |
| 02- | 66.3183- | 158.8058- | 2- | 13- | | 0-406085- | 08/26/76- | 10- | 13- | 14.3- | | -S- | 7.7- | 73- | | -2- | 7- | 5- | 7- | | -3- | 1- | -4- | 4- | 2- | 2- | | -1- | - | - | - | - | 3.90 |
| 02- | 66.3086- | 158.8606- | 2- | 13- | | 0-406086- | 08/26/76- | 11- | 14- | 14.2- | | -S- | 7.3- | 107- | | -2- | 7- | 5- | 7- | | -3- | 1- | -2- | 2- | 2- | 2- | | -1- | - | - | - | - | 2.90 |
| 02- | 66.6467- | 158.6067- | 2- | 12- | | 0-406128- | 08/26/76- | 16- | 17- | 13.7- | | - | - | 6.3- | 24- | 4- | 2- | 7- | 6- | 8- | 2- | 3- | 3- | 2- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.6106- | 158.5833- | 2- | 12- | | 0-406129- | 08/26/76- | 16- | 17- | 12.4- | | - | - | 6.7- | 19- | 15- | 2- | 7- | 5- | 8- | 2- | 3- | 3- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 3.30 |
| 02- | 66.6403- | 158.5000- | 2- | 12- | | 0-406131- | 08/26/76- | 16- | 16- | 12.6- | | - | - | 6.7- | 21- | 10- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 4.70 |
| 02- | 66.6078- | 158.5050- | 2- | 12- | | 0-406132- | 08/26/76- | 16- | 16- | 13.6- | | - | - | 7.1- | 42- | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.5825- | 158.5058- | 2- | 12- | | 0-406133- | 08/26/76- | 16- | 16- | 12.7- | | - | - | 6.7- | 12- | 2- | 2- | 7- | 5- | 8- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.6142- | 158.4333- | 2- | 12- | | 0-406134- | 08/26/76- | 16- | 16- | 12.7- | | - | - | 6.3- | 21- | 2- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.6472- | 158.3931- | 2- | 12- | | 0-406136- | 08/26/76- | 16- | 17- | 11.3- | | - | - | 7.1- | 16- | 4- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 7.30 |
| 02- | 66.6075- | 158.3558- | 2- | 12- | | 0-406137- | 08/26/76- | 16- | 16- | 10.2- | | - | - | 6.7- | 23- | 4- | 2- | 7- | 5- | 8- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.6333- | 158.2925- | 2- | 12- | | 0-406138- | 08/26/76- | 16- | 16- | 11.0- | | - | - | 7.0- | 32- | 10- | 2- | 7- | 6- | 8- | 2- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.6100- | 158.2833- | 2- | 12- | | 0-406139- | 08/26/76- | 16- | 17- | 9.7- | | - | - | 6.4- | 21- | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.5567- | 158.2967- | 2- | 12- | | 0-406140- | 08/26/76- | 16- | 18- | 13.4- | | - | - | 5.2- | 23- | 10- | 2- | 7- | 5- | 6- | 2- | 2- | 5- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.5250- | 158.2989- | 2- | 12- | | 0-406141- | 08/26/76- | 16- | 18- | 13.1- | | - | - | 5.9- | 27- | 4- | 2- | 7- | 6- | 6- | 1- | 2- | 3- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.5400- | 158.3458- | 2- | 12- | | 0-406143- | 08/26/76- | 16- | 18- | 12.9- | | - | - | 6.4- | 14- | 2- | 2- | 7- | 6- | 6- | 1- | 2- | 5- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.5203- | 158.3767- | 2- | 12- | | 0-406144- | 08/26/76- | 16- | 18- | 13.1- | | - | - | 7.0- | 37- | 4- | 2- | 7- | 3- | 6- | 1- | 2- | 5- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.5225- | 158.4408- | 2- | 12- | | 0-406145- | 08/26/76- | 16- | 18- | 10.4- | | - | - | 7.4- | 27- | 0- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.5500- | 158.4433- | 2- | 12- | | 0-406146- | 08/26/76- | 16- | 16- | 9.9- | | - | - | 7.3- | 44- | 2- | 2- | 7- | 3- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 7.30 |
| 02- | 66.5792- | 158.4458- | 2- | 12- | | 0-406147- | 08/26/76- | 17- | 18- | 11.3- | | - | - | 7.4- | 21- | 2- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.5806- | 158.3842- | 2- | 12- | | 0-406148- | 08/26/76- | 17- | 18- | 11.3- | | - | - | 7.7- | 31- | 10- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.5253- | 158.4917- | 2- | 12- | | 0-406150- | 08/26/76- | 17- | 19- | 12.7- | | - | - | 7.1- | 21- | 10- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.5417- | 158.5928- | 2- | 13- | | 0-406151- | 08/26/76- | 17- | 19- | 16.6- | | -S- | 6.0- | 17- | | -2- | 7- | 4- | 6- | | -3- | 1- | -4- | 3- | 1- | 2- | | -1- | - | - | - | - | 1.50 |
| 02- | 66.5256- | 158.5925- | 2- | 12- | | 0-406152- | 08/26/76- | 17- | 19- | 16.5- | | - | - | 7.3- | 118- | 2- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 66.5000- | 158.5933- | 2- | 12- | | 0-406153- | 08/26/76- | 17- | 20- | 15.7- | | - | - | 7.1- | 142- | 2- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 1- | 2- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.4642- | 158.5792- | 2- | 12- | | 0-406154- | 08/26/76- | 17- | 19- | 14.2- | | - | - | 7.6- | 87- | 2- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.30 |
| 02- | 66.4675- | 158.5261- | 2- | 12- | | 0-406155- | 08/26/76- | 17- | 19- | 14.9- | | - | - | 7.3- | 42- | 10- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.4825- | 158.5006- | 2- | 12- | | 0-406156- | 08/26/76- | 17- | 19- | 12.7- | | - | - | 8.0- | 121- | 2- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 3- | 2- | 2- | -1- | - | - | - | - | 3.80 |
| 02- | 66.4922- | 158.4467- | 2- | 12- | | 0-406157- | 08/26/76- | 17- | 19- | 14.6- | | - | - | 7.7- | 47- | 10- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 1- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB. SAMPLE LOCATION NUMBER | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02-66.8108- | 158.2989- | 2-13- | | | | 0-406015 | -5 | -5 | -5 | 12 | -20 | -15 | -5 | -10 | -15 | 2 | 9 |
| 02-66.8433- | 158.2867- | 2-13- | | | | 0-406016 | -5 | -5 | -5 | -10 | -20 | -15 | -5 | -10 | -15 | 2 | 8 |
| 02-66.6936- | 158.2833- | 2-13- | | | | 0-406017 | -5 | -5 | -5 | 15 | 36 | -15 | 7 | -10 | -15 | 2 | 16 |
| 02-66.6667- | 158.3061- | 2-13- | | | | 0-406018 | -5 | -5 | -5 | 22 | -20 | 18 | -5 | -10 | -15 | 2 | 24 |
| 02-66.6706- | 158.3467- | 2-13- | | | | 0-406019 | -5 | -5 | -5 | 28 | 26 | 36 | -5 | -10 | -15 | 2 | 27 |
| 02-66.6917- | 158.3692- | 2-13- | | | | 0-406020 | -5 | -5 | -5 | 26 | 38 | 25 | 6 | -10 | -15 | 2 | 26 |
| 02-66.6967- | 158.4500- | 2-13- | | | | 0-406021 | -5 | -5 | -5 | 37 | 45 | 29 | -5 | -10 | -15 | 2 | 6 |
| 02-66.6728- | 158.4442- | 2-13- | | | | 0-406022 | -5 | -5 | -5 | 14 | 38 | -15 | -5 | -10 | -15 | 2 | 18 |
| 02-66.6753- | 158.4933- | 2-13- | | | | 0-406023 | -5 | 5 | -5 | 28 | 23 | 23 | -5 | -10 | -15 | 2 | 31 |
| 02-66.6900- | 158.5192- | 2-13- | | | | 0-406024 | -5 | -5 | 6 | 26 | 21 | 18 | 10 | -10 | -15 | 2 | 29 |
| 02-66.6933- | 158.5667- | 2-13- | | | | 0-406025 | -5 | -5 | -5 | 35 | 20 | 35 | -5 | -10 | -15 | 3 | 28 |
| 02-66.6667- | 158.5772- | 2-13- | | | | 0-406026 | -5 | -5 | -5 | 14 | -20 | 29 | 7 | -10 | -15 | 2 | 26 |
| 02-66.3533- | 158.9283- | 2-13- | | | | 0-406028 | -5 | -5 | -5 | 28 | 32 | 26 | -5 | -10 | -15 | 3 | 28 |
| 02-66.2861- | 159.0125- | 2-13- | | | | 0-406030 | -5 | -5 | -5 | 27 | 21 | 35 | -5 | -10 | -15 | 2 | 23 |
| 02-66.2736- | 159.0111- | 2-13- | | | | 0-406031 | -5 | -5 | -5 | 25 | 26 | 28 | -5 | -10 | -15 | 3 | 29 |
| 02-66.2444- | 159.0639- | 2-13- | | | | 0-406034 | -5 | -5 | -5 | 40 | -20 | 31 | -5 | -10 | -15 | -1 | 5 |
| 02-66.1875- | 159.0042- | 2-13- | | | | 0-406035 | -5 | -5 | -5 | 36 | 35 | 37 | -5 | -10 | -15 | 2 | 24 |
| 02-66.2083- | 159.0592- | 2-13- | | | | 0-406038 | -5 | -5 | -5 | 15 | 32 | 40 | -5 | -10 | -15 | 2 | 18 |
| 02-66.1653- | 159.0492- | 2-13- | | | | 0-406039 | -5 | -5 | -5 | 32 | 21 | 22 | -5 | -10 | -15 | -1 | 6 |
| 02-66.1403- | 159.0028- | 2-13- | | | | 0-406042 | | | | | | | | | | 2 | 27 |
| 02-66.1367- | 159.0433- | 2-12- | | | | 0-406046 | -5 | -5 | -5 | 39 | -20 | 42 | -5 | -10 | -15 | 2 | 24 |
| 02-66.3367- | 158.8567- | 2-13- | | | | 0-406083 | -5 | -5 | -5 | 19 | 22 | 32 | -5 | -10 | -15 | 2 | 21 |
| 02-66.3422- | 158.7792- | 2-13- | | | | 0-406084 | -5 | -5 | -5 | 31 | -20 | 26 | 6 | -10 | -15 | 2 | 9 |
| 02-66.3183- | 158.8058- | 2-13- | | | | 0-406085 | -5 | -5 | -5 | 17 | -20 | 27 | 8 | -10 | -15 | -1 | 2 |
| 02-66.3086- | 158.8606- | 2-13- | | | | 0-406086 | | | | | | | | | | 2 | 8 |
| 02-66.6467- | 158.6067- | 2-12- | | | | 0-406128 | -5 | -5 | -5 | 21 | 23 | 26 | -5 | -10 | -15 | 3 | 29 |
| 02-66.6106- | 158.5833- | 2-12- | | | | 0-406129 | -5 | -5 | -5 | 22 | -20 | 25 | 9 | -10 | -15 | 3 | 29 |
| 02-66.6403- | 158.5000- | 2-12- | | | | 0-406131 | -5 | -5 | -5 | 22 | 41 | 24 | -5 | -10 | -15 | 3 | 28 |
| 02-66.6078- | 158.5050- | 2-12- | | | | 0-406132 | -5 | -5 | -5 | 12 | 35 | 17 | -5 | -10 | -15 | 2 | 25 |
| 02-66.5825- | 158.5058- | 2-12- | | | | 0-406133 | -5 | -5 | -5 | -10 | -20 | 22 | -5 | -10 | -15 | 2 | 28 |
| 02-66.6142- | 158.4333- | 2-12- | | | | 0-406134 | -5 | -5 | -5 | 24 | 39 | 27 | -5 | -10 | -15 | 2 | 27 |
| 02-66.6472- | 158.3931- | 2-12- | | | | 0-406136 | -5 | 5 | -5 | -10 | 36 | 28 | 6 | -10 | -15 | 4 | 30 |
| 02-66.6075- | 158.3558- | 2-12- | | | | 0-406137 | -5 | -5 | -5 | 12 | 30 | 19 | -5 | -10 | -15 | 2 | 21 |
| 02-66.6333- | 158.2925- | 2-12- | | | | 0-406138 | -5 | 5 | -5 | 11 | -20 | 29 | 5 | -10 | -15 | 3 | 30 |
| 02-66.6100- | 158.2833- | 2-12- | | | | 0-406139 | -5 | -5 | -5 | 10 | 30 | -15 | -5 | -10 | -15 | 2 | 23 |
| 02-66.5567- | 158.2967- | 2-12- | | | | 0-406140 | -5 | -5 | -5 | 12 | 24 | 16 | -5 | -10 | -15 | 2 | 28 |
| 02-66.5250- | 158.2989- | 2-12- | | | | 0-406141 | -5 | -5 | -5 | 20 | 42 | 19 | -5 | -10 | -15 | 2 | 30 |
| 02-66.5400- | 158.3458- | 2-12- | | | | 0-406143 | -5 | -5 | -5 | 15 | -20 | -15 | -5 | -10 | -15 | 2 | 30 |
| 02-66.5203- | 158.3767- | 2-12- | | | | 0-406144 | -5 | -5 | -5 | 18 | 33 | 20 | -5 | -10 | -15 | 2 | 25 |
| 02-66.5225- | 158.4408- | 2-12- | | | | 0-406145 | -5 | -5 | -5 | 12 | 34 | -15 | -5 | -10 | -15 | 2 | 26 |
| 02-66.5500- | 158.4433- | 2-12- | | | | 0-406146 | -5 | -5 | -5 | 10 | -20 | 31 | 9 | -10 | -15 | 4 | 33 |
| 02-66.5792- | 158.4458- | 2-12- | | | | 0-406147 | -5 | -5 | -5 | 23 | -20 | 30 | 6 | -10 | -15 | 2 | 18 |
| 02-66.5806- | 158.3842- | 2-12- | | | | 0-406148 | -5 | -5 | -5 | 24 | -20 | 30 | -5 | -10 | -15 | 2 | 29 |
| 02-66.5253- | 158.4917- | 2-12- | | | | 0-406150 | -5 | -5 | -5 | 12 | 30 | 25 | 6 | -10 | -15 | 2 | 26 |
| 02-66.5417- | 158.5928- | 2-13- | | | | 0-406151 | 5 | -5 | -5 | 28 | 44 | 45 | 10 | -10 | -15 | 4 | 31 |
| 02-66.5258- | 158.5925- | 2-12- | | | | 0-406152 | -5 | -5 | -5 | 30 | 23 | 36 | 5 | -10 | -15 | 3 | 35 |
| 02-66.5000- | 158.5933- | 2-12- | | | | 0-406153 | -5 | -5 | -5 | 37 | 32 | 22 | -5 | -10 | -15 | 3 | 30 |
| 02-66.4642- | 158.5792- | 2-12- | | | | 0-406154 | -5 | -5 | -5 | 68 | 22 | 38 | -5 | -10 | -15 | 3 | 30 |
| 02-66.4675- | 158.5281- | 2-12- | | | | 0-406155 | -5 | -5 | -5 | 22 | 39 | 25 | -5 | -10 | -15 | 2 | 19 |
| 02-66.4825- | 158.5006- | 2-12- | | | | 0-406156 | -5 | -5 | -5 | 41 | 41 | 56 | 7 | -10 | -15 | 2 | 28 |
| 02-66.4922- | 158.4467- | 2-12- | | | | 0-406157 | -5 | -5 | -5 | 28 | 42 | 21 | 5 | -10 | -15 | 2 | 29 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.8108- | 158.2989- | 2- | 13- | | 0-406015 | 48880 | -0.03 | 196 | 10020 | 85 | -106 | 6.4 | 26 | -1.6 | 4 | 1.2 | 17490 | 10.4 | 9879 | 38 | 0.6 |
| 02- | 66.8433- | 158.2867- | 2- | 13- | | 0-406016 | 43780 | -0.03 | -166 | 11200 | 110 | -99 | 8.6 | 34 | -1.5 | 7 | 1.4 | 27640 | 17.7 | 10110 | 56 | 1.1 |
| 02- | 66.6936- | 158.2833- | 2- | 13- | | 0-406017 | 56030 | -0.03 | 423 | 9158 | 64 | -87 | 9.7 | 50 | 2.7 | 5 | 1.3 | 16300 | 6.2 | 11600 | 28 | 0.4 |
| 02- | 66.6667- | 158.3061- | 2- | 13- | | 0-406018 | 69210 | -0.05 | 709 | 10400 | 103 | -112 | 16.8 | 91 | 4.2 | 6 | 1.9 | 26870 | 7.8 | 14230 | 43 | 0.6 |
| 02- | 66.6706- | 158.3467- | 2- | 13- | | 0-406019 | 71260 | -0.06 | 612 | 11730 | 79 | -122 | 23.7 | 112 | 3.9 | 5 | 1.4 | 30770 | 6.0 | 15880 | 38 | 0.5 |
| 02- | 66.6917- | 158.3692- | 2- | 13- | | 0-406020 | 65730 | -0.04 | 689 | 11440 | 95 | -95 | 15.3 | 109 | 3.7 | 7 | 1.8 | 23780 | 9.5 | 11110 | 47 | 0.6 |
| 02- | 66.6967- | 158.4500- | 2- | 13- | | 0-406021 | 78070 | -0.05 | 847 | 8797 | 77 | -108 | 18.9 | 78 | 4.6 | 6 | 1.6 | 25580 | 5.0 | 14920 | 41 | 0.5 |
| 02- | 66.6728- | 158.4442- | 2- | 13- | | 0-406022 | 52760 | -0.04 | 335 | 11750 | 104 | -109 | 13.2 | 61 | -2.1 | 7 | 1.9 | 23790 | 14.7 | 10910 | 52 | 0.8 |
| 02- | 66.6753- | 158.4933- | 2- | 13- | | 0-406023 | 73870 | -0.05 | 798 | 10260 | 99 | -104 | 19.1 | 83 | 4.3 | 7 | 2.2 | 27210 | 8.5 | 12710 | 46 | 0.7 |
| 02- | 66.6900- | 158.5192- | 2- | 13- | | 0-406024 | 74090 | -0.04 | 756 | 9648 | 74 | -94 | 16.7 | 83 | 3.4 | 7 | 1.8 | 25170 | 7.0 | 12830 | 42 | 0.6 |
| 02- | 66.6933- | 158.5667- | 2- | 13- | | 0-406025 | 76630 | -0.06 | 851 | 16200 | 120 | -119 | 23.4 | 121 | 7.6 | 6 | 2.2 | 33720 | 8.9 | 13530 | 52 | 0.8 |
| 02- | 66.6667- | 158.5772- | 2- | 13- | | 0-406026 | 58200 | -0.05 | 537 | 8621 | 107 | -99 | 12.3 | 120 | 4.1 | 7 | 2.2 | 22530 | 10.3 | 8213 | 53 | 0.7 |
| 02- | 66.3533- | 158.9283- | 2- | 13- | | 0-406028 | 73290 | -0.04 | 777 | 8979 | 104 | -99 | 20.4 | 107 | 5.3 | 7 | 2.0 | 29310 | 8.8 | 15020 | 51 | 0.7 |
| 02- | 66.2861- | 159.0125- | 2- | 13- | | 0-406030 | 77730 | -0.05 | 1025 | 8787 | 63 | -106 | 17.7 | 80 | 4.9 | 5 | 1.6 | 22650 | 5.6 | 12640 | 36 | 0.4 |
| 02- | 66.2736- | 159.0111- | 2- | 13- | | 0-406031 | 76330 | -0.05 | 762 | 10380 | 144 | -113 | 20.0 | 97 | 5.1 | 8 | 2.3 | 34860 | 15.0 | 16800 | 55 | 0.9 |
| 02- | 66.2444- | 159.0639- | 2- | 13- | | 0-406034 | 73100 | -0.07 | 694 | 9691 | 74 | -128 | 19.0 | 78 | 5.1 | 5 | 2.0 | 28930 | 5.4 | 14390 | 35 | 0.4 |
| 02- | 66.1875- | 159.0042- | 2- | 13- | | 0-406035 | 73600 | -0.05 | 898 | 9238 | 84 | -96 | 21.8 | 109 | 5.1 | 7 | 2.0 | 26660 | 7.3 | 17080 | 44 | 0.6 |
| 02- | 66.2083- | 159.0592- | 2- | 13- | | 0-406038 | 69800 | -0.05 | 696 | 11370 | 71 | -117 | 34.8 | 110 | 3.8 | 6 | 1.5 | 33500 | 5.7 | 13450 | 36 | 0.5 |
| 02- | 66.1653- | 159.0492- | 2- | 13- | | 0-406039 | 74930 | -0.06 | 708 | 10470 | 123 | -119 | 24.4 | 136 | 5.9 | 8 | 2.7 | 34050 | 8.8 | 13120 | 56 | 0.8 |
| 02- | 66.1403- | 159.0028- | 2- | 13- | | 0-406042 | 73290 | -0.06 | 728 | 10390 | 74 | -107 | 16.6 | 87 | 4.4 | 6 | 1.6 | 27260 | 7.2 | 12520 | 41 | 0.5 |
| 02- | 66.1367- | 159.0433- | 2- | 12- | | 0-406046 | 75310 | -0.03 | 555 | 12060 | 77 | -118 | 23.8 | 196 | 3.7 | 4 | 1.7 | 30980 | 7.2 | 10470 | 33 | 0.4 |
| 02- | 66.3367- | 158.8567- | 2- | 13- | | 0-406083 | 70540 | -0.05 | 731 | 9109 | 76 | 11500 | 19.5 | 83 | 5.4 | 6 | 1.7 | 25060 | 5.7 | 13830 | 35 | 0.5 |
| 02- | 66.3422- | 158.7792- | 2- | 13- | | 0-406084 | 71050 | -0.07 | 734 | 10030 | 124 | -128 | 25.9 | 125 | 6.1 | 7 | 2.2 | 31880 | 8.6 | 15050 | 49 | 0.8 |
| 02- | 66.3183- | 158.8058- | 2- | 13- | | 0-406085 | 65990 | -0.05 | 639 | 11610 | 87 | -107 | 13.6 | 91 | 4.2 | 5 | 1.8 | 22730 | 9.6 | 13240 | 42 | 0.6 |
| 02- | 66.3086- | 158.8606- | 2- | 13- | | 0-406086 | 72510 | -0.05 | 882 | 7597 | 85 | | 18.5 | 87 | 5.0 | 7 | 2.0 | 21830 | 6.1 | 11900 | 40 | 0.5 |
| 02- | 66.6467- | 158.6067- | 2- | 12- | | 0-406128 | 72470 | -0.04 | 657 | 10130 | 77 | -97 | 13.6 | 74 | 4.3 | 7 | 1.5 | 22820 | 8.2 | 15180 | 37 | 0.5 |
| 02- | 66.6106- | 158.5833- | 2- | 12- | | 0-406129 | 74320 | -0.05 | 663 | 10100 | 134 | -111 | 17.8 | 110 | 4.9 | 8 | 2.3 | 30120 | 11.5 | 19210 | 54 | 0.9 |
| 02- | 66.6403- | 158.5000- | 2- | 12- | | 0-406131 | 65690 | -0.05 | 516 | 13330 | 129 | -116 | 16.2 | 73 | 5.4 | 7 | 2.0 | 25860 | 12.2 | 10290 | 59 | 0.6 |
| 02- | 66.6078- | 158.5050- | 2- | 12- | | 0-406132 | 64570 | -0.04 | 562 | 8743 | 85 | -91 | 16.0 | 93 | 4.2 | 6 | 1.8 | 25080 | 9.0 | 12050 | 42 | 0.7 |
| 02- | 66.5825- | 158.5058- | 2- | 12- | | 0-406133 | 67710 | -0.04 | 650 | 8665 | 76 | -90 | 13.0 | 91 | 3.6 | 7 | 1.7 | 25040 | 6.8 | 12270 | 38 | 0.5 |
| 02- | 66.6142- | 158.4333- | 2- | 12- | | 0-406134 | 66100 | -0.04 | 582 | 7489 | 118 | -101 | 17.2 | 112 | 5.5 | 7 | 1.9 | 29260 | 9.9 | 11970 | 46 | 0.7 |
| 02- | 66.6472- | 158.3931- | 2- | 12- | | 0-406136 | 64860 | -0.05 | 565 | 17900 | 106 | -114 | 16.1 | 96 | 6.0 | 6 | 2.0 | 26840 | 13.8 | 16300 | 61 | 0.5 |
| 02- | 66.6075- | 158.3558- | 2- | 12- | | 0-406137 | 62280 | -0.03 | 566 | 8426 | 94 | -87 | 13.1 | 100 | 3.1 | 6 | 1.8 | 23380 | 10.4 | 12250 | 45 | 0.7 |
| 02- | 66.6333- | 158.2925- | 2- | 12- | | 0-406138 | 61750 | -0.03 | 524 | 8814 | 76 | -91 | 10.5 | 81 | 2.9 | 7 | 1.6 | 20070 | 8.4 | 11410 | 39 | 0.5 |
| 02- | 66.6100- | 158.2833- | 2- | 12- | | 0-406139 | 60700 | -0.04 | 569 | 9476 | 123 | -98 | 14.5 | 111 | 3.5 | 7 | 2.0 | 25800 | 12.3 | 9677 | 52 | 0.9 |
| 02- | 66.5567- | 158.2967- | 2- | 12- | | 0-406140 | 67800 | -0.05 | 630 | 7405 | 54 | -112 | 12.3 | 78 | 4.6 | 5 | 1.6 | 23400 | 7.8 | 11900 | 38 | 0.4 |
| 02- | 66.5250- | 158.2989- | 2- | 12- | | 0-406141 | 71600 | -0.05 | 698 | 8247 | 87 | -100 | 15.8 | 105 | 5.2 | 6 | 1.8 | 27220 | 8.8 | 14440 | 42 | 0.7 |
| 02- | 66.5400- | 158.3458- | 2- | 12- | | 0-406143 | 70320 | -0.04 | 732 | 11090 | 76 | -92 | 13.7 | 74 | 3.7 | 6 | 1.5 | 22630 | 7.2 | 12460 | 35 | 0.4 |
| 02- | 66.5203- | 158.3767- | 2- | 12- | | 0-406144 | 67530 | -0.05 | 638 | 11040 | 113 | -104 | 19.3 | 132 | 5.5 | 6 | 2.1 | 29500 | 11.1 | 12220 | 52 | 0.7 |
| 02- | 66.5225- | 158.4408- | 2- | 12- | | 0-406145 | 63270 | -0.05 | 490 | 11150 | 73 | -109 | 11.8 | 89 | 4.2 | 5 | 1.5 | 23170 | 8.2 | 12100 | 39 | 0.6 |
| 02- | 66.5500- | 158.4433- | 2- | 12- | | 0-406146 | 67240 | -0.04 | 793 | 19290 | 171 | -95 | 17.3 | 115 | 5.8 | 7 | 2.3 | 29010 | 16.4 | 13210 | 73 | |
| 02- | 66.5792- | 158.4458- | 2- | 12- | | 0-406147 | 50640 | -0.03 | 461 | 14500 | 75 | -83 | 12.4 | 134 | 2.4 | 6 | 1.5 | 21520 | 7.6 | 6066 | 39 | 0.5 |
| 02- | 66.5806- | 158.3842- | 2- | 12- | | 0-406148 | 64890 | -0.04 | 665 | 10450 | 129 | -103 | 16.9 | 151 | 4.0 | 7 | 2.1 | 29660 | 11.4 | 11480 | 54 | 0.7 |
| 02- | 66.5253- | 158.4917- | 2- | 12- | | 0-406150 | 63170 | -0.05 | 521 | 11560 | 73 | -108 | 11.1 | 102 | 4.2 | 4 | 1.7 | 21920 | 8.3 | 11150 | 41 | 0.6 |
| 02- | 66.5417- | 158.5928- | 2- | 13- | | 0-406151 | 74600 | -0.04 | 1126 | 38550 | 311 | 224 | 25.5 | 119 | 8.7 | 11 | 4.3 | 42380 | 41.1 | 18000 | 136 | 1.1 |
| 02- | 66.5258- | 158.5925- | 2- | 12- | | 0-406152 | 73470 | -0.04 | 824 | 10500 | 76 | -97 | 15.9 | 79 | 5.8 | 7 | 1.9 | 21940 | 7.2 | 13590 | 43 | 0.5 |
| 02- | 66.5000- | 158.5933- | 2- | 12- | | 0-406153 | 76340 | -0.05 | 940 | 14270 | 124 | -128 | 29.8 | 145 | 5.1 | 5 | 2.5 | 40920 | 8.9 | 11770 | 44 | 0.8 |
| 02- | 66.4642- | 158.5792- | 2- | 12- | | 0-406154 | 60740 | -0.05 | 684 | 18440 | 56 | -137 | 19.2 | 82 | 4.2 | 4 | 1.5 | 24180 | 5.7 | 10850 | 31 | 0.4 |
| 02- | 66.4675- | 158.5281- | 2- | 12- | | 0-406155 | 64450 | -0.04 | 646 | 10830 | 96 | -104 | 26.7 | 132 | 3.9 | 6 | 2.0 | 34610 | 8.1 | 11570 | 44 | 0.5 |
| 02- | 66.4825- | 158.5006- | 2- | 12- | | 0-406156 | 24600 | -0.05 | 552 | 5336 | 65 | -70 | 22.0 | 95 | 5.4 | 4 | 1.5 | 26980 | 6.8 | 7380 | 38 | 0.5 |
| 02- | 66.4922- | 158.4467- | 2- | 12- | | 0-406157 | 41260 | -0.03 | 849 | 17720 | 90 | -141 | 19.8 | 130 | 4.1 | 7 | 2.0 | 33860 | 9.3 | 15920 | 46 | 0.7 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(4)

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LAB. SAMPLE LOCATION NUMBER | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | |
| 02- | 66.8100- | 158.2989- | 2- | 13- | | 0-406015 | -4694 | 746 | 15920 | -23 | -1 | 9.8 | 4.3 | -381 | -4 | | 9.8 | 8416 | 48 | 4.8 | | 0.296 |
| 02- | 66.8433- | 158.2867- | 2- | 13- | | 0-406016 | 5047 | 1369 | 12620 | 30 | | 14.3 | 7.7 | -404 | 2 | 1 | 12.0 | 15380 | 47 | 8.3 | 70 | 0.292 |
| 02- | 66.6936- | 158.2833- | 2- | 13- | | 0-406017 | 15450 | 390 | 13500 | 43 | -1 | 10.3 | 4.8 | -299 | -3 | | 7.4 | 4619 | 76 | 3.4 | 57 | 0.311 |
| 02- | 66.6667- | 158.3061- | 2- | 13- | | 0-406018 | 16020 | 387 | 14260 | 64 | -1 | 15.4 | 8.4 | -378 | -5 | -1 | 11.5 | 5495 | 98 | 4.8 | 168 | 0.226 |
| 02- | 66.6706- | 158.3467- | 2- | 13- | | 0-406019 | 16430 | 683 | 12620 | -40 | -1 | 14.8 | 5.9 | -470 | -2 | -1 | 12.0 | 5927 | 146 | 3.1 | -108 | 0.258 |
| 02- | 66.6917- | 158.3692- | 2- | 13- | | 0-406020 | 18230 | 505 | 13810 | 39 | 1 | 15.1 | 8.7 | -335 | | -1 | 11.1 | 6638 | 112 | 5.1 | 135 | 0.306 |
| 02- | 66.6967- | 158.4500- | 2- | 13- | | 0-406021 | 20520 | 428 | 11800 | 81 | -1 | 15.1 | 6.0 | -391 | -6 | 1 | 11.0 | 6506 | 142 | 4.9 | 216 | 0.273 |
| 02- | 66.6728- | 158.4442- | 2- | 13- | | 0-406022 | 15620 | 826 | 14110 | -28 | -1 | 12.6 | 7.4 | -413 | -8 | -1 | 12.7 | 8674 | 87 | 5.6 | | 0.315 |
| 02- | 66.6753- | 158.4933- | 2- | 13- | | 0-406023 | 20020 | 420 | 13330 | 60 | -1 | 15.7 | 8.0 | -361 | -6 | | 12.6 | 6650 | 127 | 6.1 | 121 | 0.262 |
| 02- | 66.6900- | 158.5192- | 2- | 13- | | 0-406024 | 22470 | 510 | 14400 | 49 | -1 | 14.3 | 6.5 | -333 | -8 | | 10.3 | 6367 | 134 | 3.7 | 147 | 0.330 |
| 02- | 66.6933- | 158.5667- | 2- | 13- | | 0-406025 | 19650 | 516 | 12240 | 67 | -1 | 18.6 | 9.4 | -438 | -5 | | 14.9 | 5523 | 126 | 5.5 | 208 | 0.208 |
| 02- | 66.6667- | 158.5772- | 2- | 13- | | 0-406026 | 15960 | 461 | 12570 | -32 | -1 | 12.8 | 7.7 | -360 | -3 | | 10.9 | 6790 | 102 | 5.9 | | 0.321 |
| 02- | 66.3533- | 158.9283- | 2- | 13- | | 0-406028 | 20690 | 495 | 12470 | 44 | -1 | 16.4 | 8.7 | -360 | -10 | -1 | 13.4 | 6613 | 134 | 5.0 | 170 | 0.239 |
| 02- | 66.2861- | 159.0125- | 2- | 13- | | 0-406030 | 19410 | 370 | 11630 | 59 | -1 | 14.4 | 5.2 | -368 | -3 | | 9.5 | 5288 | 136 | 3.2 | 156 | 0.316 |
| 02- | 66.2736- | 159.0111- | 2- | 13- | | 0-406031 | 21130 | 607 | 14830 | 67 | -1 | 18.3 | 10.9 | -403 | -5 | | 16.0 | 6813 | 119 | 7.5 | 122 | 0.219 |
| 02- | 66.2444- | 159.0639- | 2- | 13- | | 0-406034 | 24410 | 474 | 10560 | -51 | -2 | 16.3 | 4.9 | -505 | | -1 | 9.4 | 5607 | 141 | 4.5 | -87 | 0.351 |
| 02- | 66.1875- | 159.0042- | 2- | 13- | | 0-406035 | 18750 | 388 | 11380 | 50 | 2 | 16.1 | 7.4 | -358 | -7 | -1 | 12.9 | 6268 | 134 | 4.5 | 169 | 0.240 |
| 02- | 66.2083- | 159.0592- | 2- | 13- | | 0-406038 | 21610 | 1288 | 11100 | -31 | -1 | 13.7 | 6.1 | -527 | -7 | | 10.2 | 5357 | 147 | 3.8 | 70 | 0.314 |
| 02- | 66.1653- | 159.0492- | 2- | 13- | | 0-406039 | 22130 | 513 | 12140 | -38 | -1 | 19.2 | 10.7 | -440 | -7 | -1 | 15.0 | 6327 | 137 | 6.2 | 189 | 0.207 |
| 02- | 66.1403- | 159.0028- | 2- | 13- | | 0-406042 | 23590 | 467 | 12240 | -38 | -1 | 15.3 | 5.4 | -406 | | | 10.3 | 6302 | 136 | 3.8 | 175 | 0.301 |
| 02- | 66.1367- | 159.0433- | 2- | 12- | | 0-406046 | 20120 | 1046 | 20580 | 31 | -1 | 16.3 | 5.9 | -427 | -5 | | 9.5 | 6152 | 132 | 3.1 | 136 | 0.295 |
| 02- | 66.3367- | 158.8567- | 2- | 13- | | 0-406083 | 22350 | 328 | 18410 | 72 | -1 | 13.6 | 6.2 | -430 | 9 | -1 | 8.9 | 4962 | 139 | 3.3 | 160 | 0.438 |
| 02- | 66.3422- | 158.7792- | 2- | 13- | | 0-406084 | 21370 | 443 | 11250 | 93 | -2 | 17.6 | 10.1 | -479 | -5 | -1 | 15.2 | 4932 | 121 | 6.5 | -181 | 0.197 |
| 02- | 66.3183- | 158.8058- | 2- | 13- | | 0-406085 | 17840 | 447 | 14110 | -32 | -1 | 14.0 | 5.5 | -374 | -1 | -1 | 9.8 | 5939 | 116 | 4.1 | 155 | 0.398 |
| 02- | 66.3086- | 158.8606- | 2- | 13- | | 0-406086 | 16270 | 321 | 11490 | -29 | -1 | 15.8 | 6.6 | -350 | -6 | -1 | 10.5 | 5479 | 138 | 4.0 | 153 | 0.276 |
| 02- | 66.6467- | 158.6067- | 2- | 12- | | 0-406128 | 20620 | 405 | 14300 | 55 | 1 | 13.2 | 7.3 | -325 | -2 | | 9.4 | 6038 | 118 | 4.1 | 155 | 0.330 |
| 02- | 66.6106- | 158.5833- | 2- | 12- | | 0-406129 | 20200 | 406 | 14080 | 61 | -1 | 18.0 | 10.6 | -374 | -4 | -1 | 15.0 | 6438 | 121 | 6.5 | 143 | 0.220 |
| 02- | 66.6403- | 158.5000- | 2- | 12- | | 0-406131 | 22020 | 867 | 13910 | -34 | -1 | 13.9 | 8.4 | -466 | -5 | | 17.8 | 6465 | 120 | 5.2 | | 0.264 |
| 02- | 66.6078- | 158.5050- | 2- | 12- | | 0-406132 | 17200 | 405 | 13570 | -23 | 1 | 13.6 | 7.2 | -303 | -8 | -1 | 10.8 | 6363 | 115 | 5.1 | 123 | 0.259 |
| 02- | 66.5825- | 158.5056- | 2- | 12- | | 0-406133 | 14880 | 369 | 12770 | 35 | | 12.2 | 5.6 | -304 | -3 | -1 | 10.3 | 6265 | 116 | 3.6 | 117 | 0.272 |
| 02- | 66.6142- | 158.4333- | 2- | 12- | | 0-406134 | 16450 | 425 | 13240 | 71 | 1 | 15.2 | 8.1 | -358 | -6 | -1 | 12.7 | 6010 | 109 | 5.4 | 123 | 0.220 |
| 02- | 66.6472- | 158.3931- | 2- | 12- | | 0-406136 | 16420 | 585 | 15830 | -34 | -1 | 12.4 | 7.9 | -402 | -7 | -1 | 17.6 | 7380 | 118 | 5.2 | 133 | 0.415 |
| 02- | 66.6075- | 158.3558- | 2- | 12- | | 0-406137 | 16070 | 407 | 14000 | 42 | -1 | 12.8 | 7.8 | 328 | -6 | 1 | 11.1 | 6866 | 98 | 5.3 | 113 | 0.270 |
| 02- | 66.6333- | 158.2925- | 2- | 12- | | 0-406138 | 15000 | 391 | 13740 | -22 | -1 | 11.3 | 5.9 | -298 | -6 | | 8.9 | 5881 | 94 | 4.2 | 108 | 0.326 |
| 02- | 66.6100- | 158.2833- | 2- | 12- | | 0-406139 | 13900 | 386 | 14430 | 61 | -1 | 14.1 | 9.0 | -335 | -5 | | 13.9 | 6549 | 95 | 6.4 | 106 | 0.223 |
| 02- | 66.5567- | 158.2967- | 2- | 12- | | 0-406140 | 16700 | 332 | 13450 | -37 | -1 | 12.9 | 4.5 | -384 | -6 | -1 | 9.3 | 5237 | 112 | 4.2 | -262 | 0.290 |
| 02- | 66.5250- | 158.2989- | 2- | 12- | | 0-406141 | 17840 | 335 | 13450 | 65 | -1 | 15.0 | 6.6 | -337 | -8 | | 11.3 | 6035 | 121 | 4.2 | 145 | 0.248 |
| 02- | 66.5400- | 158.3458- | 2- | 12- | | 0-406143 | 19610 | 423 | 12950 | 54 | -1 | 13.0 | 5.9 | -322 | 7 | | 8.7 | 5977 | 120 | 3.5 | 134 | 0.345 |
| 02- | 66.5203- | 158.3767- | 2- | 12- | | 0-406144 | 15870 | 428 | 13330 | -29 | -1 | 16.4 | 9.0 | -367 | -4 | | 13.1 | 6489 | 126 | 5.4 | 157 | 0.214 |
| 02- | 66.5225- | 158.4408- | 2- | 12- | | 0-406145 | 16290 | 432 | 13280 | -32 | -1 | 13.6 | 5.5 | -375 | -2 | | 10.0 | 7221 | 117 | 3.6 | 150 | 0.310 |
| 02- | 66.5500- | 158.4433- | 2- | 12- | | 0-406146 | 19800 | 596 | 15800 | 46 | 1 | 13.4 | 12.0 | -342 | -12 | 1 | 22.7 | 7982 | 113 | | 116 | 0.322 |
| 02- | 66.5792- | 158.4458- | 2- | 12- | | 0-406147 | 15450 | 583 | 12780 | 36 | | 11.4 | 6.2 | -295 | 8 | | 8.4 | 6356 | 93 | 4.2 | 106 | 0.333 |
| 02- | 66.5806- | 158.3842- | 2- | 12- | | 0-406148 | 17990 | 493 | 13630 | -28 | -1 | 16.6 | 10.4 | -365 | -5 | | 13.6 | 6962 | 118 | 5.4 | 201 | 0.213 |
| 02- | 66.5253- | 158.4917- | 2- | 12- | | 0-406150 | 15960 | 416 | 13140 | -30 | -1 | 13.0 | 5.3 | -370 | -2 | -1 | 11.0 | 6457 | 106 | 3.8 | | 0.282 |
| 02- | 66.5417- | 158.5928- | 2- | 13- | | 0-406151 | 34820 | 914 | 18820 | 84 | 3 | 17.1 | 25.3 | 859 | 2 | 2 | 48.4 | 11450 | 172 | 7.7 | 92 | 0.031 |
| 02- | 66.5258- | 158.5925- | 2- | 12- | | 0-406152 | 16740 | 383 | 13260 | 49 | -1 | 14.1 | 6.7 | -329 | -6 | | 9.8 | 5509 | 128 | 4.4 | 111 | 0.347 |
| 02- | 66.5000- | 158.5933- | 2- | 12- | | 0-406153 | 22780 | 1032 | 16010 | -31 | -1 | 23.0 | 9.4 | -501 | -2 | | 14.0 | 6787 | 171 | 5.3 | 147 | 0.214 |
| 02- | 66.4642- | 158.5792- | 2- | 12- | | 0-406154 | 24910 | 1321 | 12800 | -35 | -1 | 13.8 | 4.8 | -583 | -2 | | 10.0 | 4702 | 120 | 3.5 | | 0.330 |
| 02- | 66.4675- | 158.5281- | 2- | 12- | | 0-406155 | 17590 | 940 | 12710 | 35 | -1 | 14.3 | 7.5 | -433 | -7 | -1 | 11.2 | 7063 | 127 | 4.2 | 129 | 0.277 |
| 02- | 66.4825- | 158.5006- | 2- | 12- | | 0-406156 | 12170 | 260 | 7349 | -37 | -1 | 15.2 | 5.4 | -255 | -1 | -1 | 13.7 | 3110 | 57 | 3.9 | 220 | 0.277 |
| 02- | 66.4922- | 158.4467- | 2- | 12- | | 0-406157 | 23540 | 1324 | 14070 | 36 | -1 | 14.8 | 7.7 | -594 | -1 | | 12.7 | 5995 | 87 | 4.7 | 190 | 0.244 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (umho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.4617- | 158.4467- | 2- | 12- | | 0-406158- | 08/26/76- | 17- | 21- | 14.9- | - | - | 7.9- | 66- | 8- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.4933- | 158.3700- | 2- | 12- | | 0-406159- | 08/26/76- | 17- | 20- | 14.3- | - | - | 7.4- | 127- | 15- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 66.4894- | 158.2942- | 2- | 12- | | 0-406160- | 08/26/76- | 17- | 21- | 13.7- | - | - | 8.1- | 41- | 0- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.4550- | 158.3153- | 2- | 12- | | 0-406162- | 08/26/76- | 17- | 20- | 14.2- | - | - | 7.2- | 21- | 4- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 2.20 |
| 02- | 66.4350- | 158.2858- | 2- | 12- | | 0-406163- | 08/26/76- | 17- | 20- | 13.2- | - | - | 7.2- | 21- | 4- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.30 |
| 02- | 66.4250- | 158.3550- | 2- | 12- | | 0-406164- | 08/26/76- | 17- | 20- | 13.9- | - | - | 7.7- | 77- | 10- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.4244- | 158.4200- | 2- | 12- | | 0-406165- | 08/26/76- | 17- | 21- | 14.2- | - | - | 7.2- | 21- | 4- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 4.10 |
| 02- | 66.3500- | 158.2750- | 2- | 12- | | 0-406166- | 08/26/76- | 17- | 21- | 14.1- | - | - | 8.1- | 101- | 2- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 2.00 |
| 02- | 66.4342- | 158.5083- | 2- | 13- | | 0-406167- | 08/26/76- | 17- | 20- | 16.4- | - | S- | 8.4- | 34- | - | 2- | 7- | 3- | 8- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.4258- | 158.5800- | 2- | 13- | | 0-406168- | 08/26/76- | 17- | 20- | 15.9- | - | S- | 8.2- | 47- | - | 2- | 7- | 6- | 8- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 4.20 |
| 02- | 66.3422- | 158.0858- | 2- | 13- | | 0-406169- | 08/26/76- | 17- | 20- | 16.4- | - | S- | 7.8- | 31- | - | 2- | 7- | 3- | 7- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.3200- | 158.0725- | 2- | 13- | | 0-406170- | 08/26/76- | 17- | 21- | 16.0- | - | S- | 8.1- | 20- | - | 2- | 7- | 6- | 8- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.3244- | 158.1392- | 2- | 12- | | 0-406172- | 08/26/76- | 17- | 21- | 16.2- | - | - | 6.7- | 12- | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.60 |
| 02- | 66.3383- | 158.1525- | 2- | 12- | | 0-406173- | 08/26/76- | 17- | 20- | 15.9- | - | - | 7.1- | 34- | 21- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.50 |
| 02- | 66.3167- | 158.2339- | 2- | 12- | | 0-406178- | 08/26/76- | 18- | 19- | 15.5- | - | - | 7.0- | 32- | 8- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 2- | 3- | 3- | 2- | -1- | - | - | - | - | 5.60 |
| 02- | 66.3400- | 158.2583- | 2- | 12- | | 0-406179- | 08/26/76- | 18- | 19- | 15.0- | - | - | 7.0- | 41- | 0- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 3- | 2- | -1- | - | - | - | - | 4.60 |
| 02- | 66.3567- | 158.7175- | 2- | 13- | | 0-406210- | 08/27/76- | 10- | 13- | 15.0- | - | S- | 7.9- | 64- | - | 2- | 7- | 6- | 8- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.3492- | 158.6633- | 2- | 13- | | 0-406211- | 08/27/76- | 10- | 14- | 14.5- | - | S- | 9.1- | 62- | - | 2- | 7- | 5- | 7- | - | 3- | 2- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.20 |
| 02- | 66.3350- | 158.6033- | 2- | 12- | | 0-406212- | 08/27/76- | 10- | 14- | 13.2- | - | - | 6.3- | 60- | 10- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 2.70 |
| 02- | 66.3350- | 158.5292- | 2- | 12- | | 0-406213- | 08/27/76- | 10- | 18- | 12.3- | - | - | 6.1- | 57- | 4- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.3222- | 158.7222- | 2- | 12- | | 0-406214- | 08/27/76- | 10- | 18- | 13.4- | - | - | 7.9- | 160- | 10- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 1- | 4- | 2- | 2- | -1- | - | - | - | - | 2.90 |
| 02- | 66.3150- | 158.6525- | 2- | 12- | | 0-406215- | 08/27/76- | 10- | 18- | 14.0- | - | - | 7.9- | 211- | 0- | 2- | 7- | 4- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.3117- | 158.5633- | 2- | 12- | | 0-406216- | 08/27/76- | 10- | 18- | 13.2- | - | - | 8.2- | 147- | 15- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 1- | 3- | 2- | 2- | -1- | - | - | - | - | 2.50 |
| 02- | 66.3044- | 158.5267- | 2- | 12- | | 0-406217- | 08/27/76- | 10- | 18- | 13.2- | - | - | 7.7- | 94- | 4- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.3067- | 158.4633- | 2- | 12- | | 0-406219- | 08/27/76- | 10- | 18- | 13.7- | - | - | 7.7- | 142- | 8- | 2- | 7- | 4- | 7- | 3- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.3167- | 158.3767- | 2- | 12- | | 0-406247- | 08/27/76- | 11- | 17- | 10.7- | - | - | 6.8- | 29- | 4- | 2- | 7- | 6- | 8- | 2- | 3- | 5- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.50 |
| 02- | 66.3367- | 158.3833- | 2- | 12- | | 0-406248- | 08/27/76- | 11- | 17- | 10.9- | - | - | 6.9- | 40- | 4- | 2- | 7- | 5- | 8- | 2- | 3- | 2- | 1- | 5- | 3- | 2- | 1- | - | - | - | - | - | 3.40 |
| 02- | 66.3556- | 158.4117- | 2- | 12- | | 0-406249- | 08/27/76- | 11- | 17- | 11.0- | - | - | 6.4- | 42- | 8- | 2- | 7- | 5- | 8- | 2- | 3- | 2- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.90 |
| 02- | 66.3375- | 159.0847- | 2- | 13- | | 0-406251- | 08/27/76- | 11- | 14- | 15.3- | - | S- | 10.2- | 101- | - | 2- | 7- | 6- | 8- | - | 3- | 1- | - | 2- | 3- | 2- | 2- | -1- | - | - | - | - | 4.40 |
| 02- | 66.3192- | 159.1333- | 2- | 13- | | 0-406252- | 08/27/76- | 11- | 15- | 15.9- | - | S- | 9.5- | 128- | - | 2- | 7- | 6- | 7- | - | 3- | 2- | - | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 5.00 |
| 02- | 66.2667- | 159.1667- | 2- | 13- | | 0-406254- | 08/27/76- | 12- | 16- | 15.4- | - | S- | 10.2- | 89- | - | 2- | 7- | 5- | 6- | - | 3- | 2- | - | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.2300- | 159.2430- | 2- | 12- | | 0-406256- | 08/27/76- | 12- | 15- | 12.0- | - | - | 9.2- | 104- | 0- | 2- | 7- | 5- | 6- | 3- | 2- | 4- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 4.00 |
| 02- | 66.1983- | 159.2669- | 2- | 12- | | 0-406257- | 08/27/76- | 12- | 17- | 12.4- | - | - | 8.9- | 87- | 4- | 2- | 7- | 5- | 6- | 3- | 2- | 4- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 3.80 |
| 02- | 66.2022- | 159.3392- | 2- | 12- | | 0-406258- | 08/27/76- | 12- | 17- | 12.0- | - | - | 9.1- | 114- | 8- | 2- | 7- | 3- | 6- | 3- | 3- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 66.1667- | 159.3133- | 2- | 12- | | 0-406259- | 08/27/76- | 12- | 16- | 11.7- | - | - | 8.7- | 107- | 8- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 3.80 |
| 02- | 66.2058- | 159.4433- | 2- | 12- | | 0-406260- | 08/27/76- | 12- | 17- | 12.2- | - | - | 9.2- | 94- | 0- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 4.40 |
| 02- | 66.1617- | 159.4567- | 2- | 12- | | 0-406261- | 08/27/76- | 12- | 16- | 12.7- | - | - | 8.7- | 114- | 2- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 4.20 |
| 02- | 66.1583- | 159.5261- | 2- | 12- | | 0-406262- | 08/27/76- | 12- | 17- | 12.4- | - | - | 8.8- | 118- | 4- | 2- | 7- | 3- | 6- | 3- | 2- | 1- | 1- | 2- | 4- | 2- | 2- | -1- | - | - | - | - | 4.50 |
| 02- | 66.2267- | 159.1475- | 2- | 13- | | 0-406265- | 08/27/76- | 12- | 14- | 16.5- | - | S- | 11.2- | 171- | - | 2- | 7- | 5- | 8- | - | 3- | 1- | - | 2- | 3- | 2- | 2- | -1- | - | - | - | - | 3.30 |
| 02- | 66.1975- | 159.1600- | 2- | 13- | | 0-406266- | 08/27/76- | 12- | 16- | 16.6- | C- | S- | 9.3- | 67- | - | 2- | 7- | - | - | - | 2- | 3- | 1- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 3.20 |
| 02- | 66.1800- | 159.1825- | 2- | 13- | | 0-406267- | 08/27/76- | 12- | 16- | 15.8- | C- | S- | 8.5- | 195- | - | 2- | 7- | - | - | - | 3- | 1- | - | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 2.20 |
| 02- | 66.1633- | 159.1600- | 2- | 13- | | 0-406268- | 08/27/76- | 12- | 16- | 15.2- | - | S- | 8.8- | 342- | - | 2- | 7- | 5- | 6- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 2.80 |
| 02- | 66.1383- | 159.1739- | 2- | 13- | | 0-406269- | 08/27/76- | 12- | 16- | 15.8- | - | S- | 9.3- | 42- | - | 2- | 7- | 6- | 6- | - | 3- | 2- | - | 1- | 3- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.1433- | 159.2389- | 2- | 13- | | 0-406273- | 08/27/76- | 12- | 16- | 14.7- | - | S- | 7.9- | 77- | - | 2- | 7- | 6- | 8- | - | 3- | 2- | - | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 2.60 |
| 02- | 66.1886- | 159.2392- | 2- | 13- | | 0-406275- | 08/27/76- | 12- | 16- | 15.2- | - | S- | 7.9- | 121- | - | 2- | 7- | 6- | 8- | - | 3- | 2- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 4.90 |
| 02- | 66.3633- | 159.5767- | 2- | 13- | | 0-406301- | 08/27/76- | 15- | 15- | 17.6- | - | S- | 8.0- | 136- | - | 2- | 7- | 5- | 6- | - | 3- | 4- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.3633- | 159.5186- | 2- | 13- | | 0-406302- | 08/27/76- | 15- | 17- | 15.8- | - | S- | 7.8- | 88- | - | 2- | 7- | 6- | 8- | - | 3- | 2- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.00 |
| 02- | 66.3303- | 159.5333- | 2- | 13- | | 0-406303- | 08/27/76- | 15- | 17- | 15.4- | - | S- | 8.0- | 117- | - | 2- | 7- | 6- | 7- | - | 3- | 2- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.10 |
| 02- | 66.3639- | 159.4772- | 2- | 13- | | 0-406304- | 08/27/76- | 15- | 16- | 16.2- | - | S- | 7.7- | 112- | - | 2- | 7- | 6- | 7- | - | 3- | 2- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.80 |
| 02- | 66.3583- | 159.4375- | 2- | 13- | | 0-406305- | 08/27/76- | 15- | 16- | 16.2- | - | S- | 7.4- | 94- | - | 2- | 7- | 6- | 6- | - | 3- | 4- | - | 3- | 3- | 2- | 2- | -1- | - | - | - | - | 7.60 |
| 02- | 66.3183- | 159.4200- | 2- | 13- | | 0-406307- | 08/27/76- | 15- | 17- | 16.2- | - | S- | 7.5- | 35- | - | 2- | 7- | 5- | 6- | - | 3- | 1- | - | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.90 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.4617- | 158.4467- | 2- | 12- | | 0-406158 | -5 | -5 | -5 | 26 | -20 | 28 | -5 | -10 | -15 | 2 | 31 |
| 02- | 66.4933- | 158.3700- | 2- | 12- | | 0-406159 | -5 | -5 | -5 | 37 | 29 | 39 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.4894- | 158.2942- | 2- | 12- | | 0-406160 | -5 | -5 | -5 | 39 | 26 | 20 | 8 | -10 | -15 | 2 | 31 |
| 02- | 66.4558- | 158.3153- | 2- | 12- | | 0-406162 | -5 | -5 | -5 | 19 | -20 | -15 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.4350- | 158.2858- | 2- | 12- | | 0-406163 | -5 | -5 | 5 | 19 | 34 | 25 | -5 | -10 | -15 | 2 | 15 |
| 02- | 66.4258- | 158.3550- | 2- | 12- | | 0-406164 | -5 | -5 | -5 | 29 | 28 | 32 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.4244- | 158.4200- | 2- | 12- | | 0-406165 | -5 | -5 | -5 | 27 | -20 | 25 | -5 | -10 | -15 | 2 | 25 |
| 02- | 66.3508- | 158.2750- | 2- | 12- | | 0-406166 | -5 | -5 | -5 | 21 | -20 | 34 | -5 | -10 | -15 | 1 | 20 |
| 02- | 66.4342- | 158.5083- | 2- | 13- | | 0-406167 | -5 | -5 | -5 | 29 | 32 | 32 | -5 | -10 | -15 | 2 | 10 |
| 02- | 66.4258- | 158.5800- | 2- | 13- | | 0-406168 | -5 | -5 | -5 | 29 | -20 | 23 | 7 | -10 | -15 | 2 | 16 |
| 02- | 66.3422- | 158.0858- | 2- | 13- | | 0-406169 | -5 | -5 | -5 | 41 | 41 | 21 | 6 | -10 | -15 | 1 | 9 |
| 02- | 66.3200- | 158.0725- | 2- | 13- | | 0-406170 | -5 | -5 | -5 | 37 | 26 | 39 | 6 | -10 | -15 | 2 | 30 |
| 02- | 66.3244- | 158.1392- | 2- | 12- | | 0-406172 | -5 | -5 | -5 | 25 | 33 | 32 | -5 | -10 | -15 | 2 | 22 |
| 02- | 66.3383- | 158.1525- | 2- | 12- | | 0-406173 | -5 | -5 | -5 | 10 | -20 | 26 | 10 | -10 | -15 | 2 | 19 |
| 02- | 66.3167- | 158.2339- | 2- | 12- | | 0-406178 | -5 | -5 | 5 | 18 | 24 | 27 | 6 | -10 | -15 | 3 | 28 |
| 02- | 66.3400- | 158.2583- | 2- | 12- | | 0-406179 | -5 | 5 | -5 | 19 | 34 | 20 | 6 | -10 | -15 | 2 | 31 |
| 02- | 66.3567- | 158.7175- | 2- | 13- | | 0-406210 | -5 | -5 | -5 | 26 | -20 | -15 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.3492- | 158.6633- | 2- | 13- | | 0-406211 | -5 | -5 | -5 | 36 | -20 | 33 | -5 | -10 | -15 | 2 | 26 |
| 02- | 66.3358- | 158.6033- | 2- | 12- | | 0-406212 | -5 | -5 | -5 | 33 | 22 | 17 | 5 | -10 | -15 | 2 | 15 |
| 02- | 66.3350- | 158.5292- | 2- | 12- | | 0-406213 | -5 | -5 | -5 | 31 | 36 | 30 | -5 | -10 | -15 | 2 | 9 |
| 02- | 66.3222- | 158.7222- | 2- | 12- | | 0-406214 | -5 | -5 | -5 | 20 | -20 | 32 | -5 | -10 | -15 | 2 | 17 |
| 02- | 66.3150- | 158.6525- | 2- | 12- | | 0-406215 | -5 | -5 | -5 | 26 | -20 | 28 | -5 | -10 | -15 | 2 | 21 |
| 02- | 66.3117- | 158.5633- | 2- | 12- | | 0-406216 | -5 | -5 | -5 | 32 | -20 | -15 | -5 | -10 | -15 | 2 | 26 |
| 02- | 66.3044- | 158.5267- | 2- | 12- | | 0-406217 | -5 | -5 | -5 | 14 | -20 | 26 | -5 | -10 | -15 | 2 | 19 |
| 02- | 66.3067- | 158.4633- | 2- | 12- | | 0-406219 | -5 | -5 | -5 | 23 | -20 | 36 | 8 | -10 | -15 | 2 | 24 |
| 02- | 66.3167- | 158.3767- | 2- | 12- | | 0-406247 | -5 | -5 | -5 | 29 | -20 | 33 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.3367- | 158.3833- | 2- | 12- | | 0-406248 | -5 | 7 | -5 | 27 | -20 | 17 | 10 | -10 | -15 | 2 | 29 |
| 02- | 66.3556- | 158.4117- | 2- | 12- | | 0-406249 | -5 | -5 | -5 | 17 | -20 | 15 | -5 | -10 | -15 | 2 | 22 |
| 02- | 66.3375- | 159.0847- | 2- | 13- | | 0-406251 | -5 | -5 | -5 | 26 | 25 | 35 | 5 | -10 | -15 | 3 | 29 |
| 02- | 66.3192- | 159.1333- | 2- | 13- | | 0-406252 | -5 | -5 | -5 | 23 | -20 | 17 | 7 | -10 | -15 | 2 | 30 |
| 02- | 66.2667- | 159.1667- | 2- | 13- | | 0-406254 | -5 | -5 | -5 | 22 | -20 | 42 | 5 | -10 | -15 | 3 | 32 |
| 02- | 66.2300- | 159.2436- | 2- | 12- | | 0-406256 | -5 | -5 | -5 | 24 | -20 | 41 | -5 | -10 | -15 | 2 | 28 |
| 02- | 66.1983- | 159.2669- | 2- | 12- | | 0-406257 | -5 | -5 | -5 | 30 | -20 | 28 | 7 | -10 | -15 | 2 | 31 |
| 02- | 66.2022- | 159.3392- | 2- | 12- | | 0-406258 | -5 | -5 | -5 | 28 | -20 | 31 | -5 | -10 | -15 | 2 | 43 |
| 02- | 66.1667- | 159.3133- | 2- | 12- | | 0-406259 | -5 | -5 | -5 | 21 | -20 | 34 | 7 | -10 | -15 | 2 | 22 |
| 02- | 66.2058- | 159.4433- | 2- | 12- | | 0-406260 | -5 | -5 | -5 | 11 | -20 | 37 | -5 | -10 | -15 | 3 | 32 |
| 02- | 66.1617- | 159.4567- | 2- | 12- | | 0-406261 | -5 | -5 | -5 | 17 | -20 | 37 | -5 | -10 | -15 | 2 | 30 |
| 02- | 66.1583- | 159.5261- | 2- | 12- | | 0-406262 | -5 | -5 | -5 | 16 | -20 | 51 | 5 | -10 | -15 | 3 | 19 |
| 02- | 66.2267- | 159.1475- | 2- | 13- | | 0-406265 | -5 | -5 | 5 | 43 | -20 | 44 | 5 | -10 | -15 | 3 | 42 |
| 02- | 66.1975- | 159.1600- | 2- | 13- | | 0-406266 | -5 | -5 | -5 | 25 | -20 | 50 | 8 | -10 | -15 | 2 | 43 |
| 02- | 66.1800- | 159.1825- | 2- | 13- | | 0-406267 | -5 | -5 | -5 | 43 | -20 | 18 | 8 | -10 | -15 | 1 | 20 |
| 02- | 66.1633- | 159.1600- | 2- | 13- | | 0-406268 | -5 | -5 | -5 | 21 | -20 | 35 | 10 | -10 | -15 | 2 | 32 |
| 02- | 66.1383- | 159.1739- | 2- | 13- | | 0-406269 | -5 | -5 | 5 | 33 | -20 | 49 | 13 | -10 | -15 | 2 | 31 |
| 02- | 66.1433- | 159.2389- | 2- | 13- | | 0-406273 | -5 | -5 | -5 | 16 | -20 | 26 | -5 | -10 | -15 | 1 | 27 |
| 02- | 66.1886- | 159.2392- | 2- | 13- | | 0-406275 | -5 | -5 | -5 | 38 | -20 | 17 | 11 | -10 | -15 | 2 | 18 |
| 02- | 66.3633- | 159.5767- | 2- | 13- | | 0-406301 | -5 | -5 | -5 | 12 | -20 | 42 | 7 | -10 | -15 | 2 | 28 |
| 02- | 66.3633- | 159.5186- | 2- | 13- | | 0-406302 | -5 | -5 | -5 | 36 | -20 | 40 | 5 | -10 | -15 | 2 | 39 |
| 02- | 66.3303- | 159.5333- | 2- | 13- | | 0-406303 | -5 | -5 | -5 | 26 | 20 | 34 | 10 | -10 | -15 | 2 | 23 |
| 02- | 66.3639- | 159.4772- | 2- | 13- | | 0-406304 | -5 | -5 | 6 | 20 | -20 | 23 | 7 | -10 | -15 | 2 | 29 |
| 02- | 66.3583- | 159.4375- | 2- | 13- | | 0-406305 | -5 | -5 | -5 | 22 | -20 | 39 | 13 | -10 | -15 | 3 | 22 |
| 02- | 66.3183- | 159.4200- | 2- | 13- | | 0-406307 | -5 | -5 | -5 | 38 | -20 | 16 | -5 | -10 | -15 | 2 | 23 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

③

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
| 02- | 66.4617- | 158.4467- | 2- | 12- | | 0-406158 | 28880 | -0.03 | 358 | 7508 | 45 | -93 | 13.9 | 68 | 3.2 | 5 | 1.2 | 19110 | 3.7 | 7585 | 24 | 0.3 |
| 02- | 66.4933- | 158.3700- | 2- | 12- | | 0-406159 | 22180 | -0.03 | 548 | 12360 | 135 | -79 | 29.6 | 211 | 3.8 | 3 | 2.1 | 36870 | 6.7 | 9970 | 49 | 0.7 |
| 02- | 66.4894- | 158.2942- | 2- | 12- | | 0-406160 | 48130 | -0.05 | 669 | 16330 | 75 | -137 | 23.4 | 78 | 4.0 | 7 | 1.7 | 30370 | 6.8 | 10460 | 34 | 0.4 |
| 02- | 66.4558- | 158.3153- | 2- | 12- | | 0-406162 | 27310 | -0.03 | 565 | 9068 | 65 | -88 | 15.0 | 114 | 3.0 | 4 | 1.4 | 21560 | 5.2 | 7351 | 31 | 0.5 |
| 02- | 66.4350- | 158.2858- | 2- | 12- | | 0-406163 | 25850 | -0.02 | 371 | 10140 | 48 | -85 | 14.0 | 92 | 2.2 | 2 | 1.1 | 18400 | 3.5 | 6971 | 27 | 0.3 |
| 02- | 66.4258- | 158.3550- | 2- | 12- | | 0-406164 | 35270 | -0.04 | 587 | 20870 | 101 | -112 | 32.8 | 213 | 6.8 | 6 | 2.2 | 37930 | 7.0 | 8925 | 39 | 0.6 |
| 02- | 66.4244- | 158.4200- | 2- | 12- | | 0-406165 | 30720 | -0.04 | 579 | 17650 | 74 | -86 | 14.6 | 85 | 3.0 | 3 | 1.6 | 21370 | 6.9 | 7093 | 38 | 0.4 |
| 02- | 66.3508- | 158.2750- | 2- | 12- | | 0-406166 | 29110 | -0.02 | 533 | 12400 | 56 | -93 | 16.3 | 86 | 3.0 | 5 | 1.1 | 21160 | 3.7 | 12310 | 28 | 0.4 |
| 02- | 66.4342- | 158.5063- | 2- | 13- | | 0-406167 | 71350 | -0.05 | 1272 | 35550 | 51 | -281 | 15.5 | 80 | 4.7 | 8 | 1.4 | 21890 | 4.3 | 24730 | 32 | 0.4 |
| 02- | 66.4258- | 158.5800- | 2- | 13- | | 0-406168 | 25760 | -0.05 | 646 | 5830 | 136 | -91 | 23.8 | 184 | 6.1 | 4 | 2.2 | 30330 | 10.0 | 6402 | 59 | 0.7 |
| 02- | 66.3422- | 158.0858- | 2- | 13- | | 0-406169 | 36930 | -0.06 | 699 | 15610 | 65 | -131 | 23.0 | 106 | 8.7 | 5 | 1.5 | 25740 | 5.4 | 11430 | 36 | 0.5 |
| 02- | 66.3200- | 158.0725- | 2- | 13- | | 0-406170 | 46240 | -0.05 | 1018 | 9114 | 88 | -118 | 25.2 | 128 | 8.2 | 6 | 2.1 | 29390 | 5.2 | 17570 | 42 | 0.5 |
| 02- | 66.3244- | 158.1392- | 2- | 12- | | 0-406172 | 27580 | -0.03 | 613 | 4068 | 105 | -75 | 20.3 | 99 | 3.9 | 3 | 1.7 | 25770 | 7.0 | 10120 | 47 | 0.6 |
| 02- | 66.3383- | 158.1525- | 2- | 12- | | 0-406173 | 28420 | 0.16 | 713 | 9786 | 184 | -92 | 20.3 | 185 | 4.5 | 6 | 2.8 | 32660 | 14.3 | 11370 | 75 | 0.9 |
| 02- | 66.3167- | 158.2339- | 2- | 12- | | 0-406178 | 24430 | -0.04 | 493 | 9289 | 123 | -77 | 17.3 | 70 | 4.4 | 6 | 2.1 | 25260 | 10.6 | 7648 | 60 | 0.5 |
| 02- | 66.3400- | 158.2583- | 2- | 12- | | 0-406179 | 35270 | -0.03 | 783 | 15920 | 131 | -114 | 18.5 | 77 | 5.5 | 7 | 1.8 | 25810 | 9.0 | 14160 | 59 | 0.6 |
| 02- | 66.3567- | 158.7175- | 2- | 13- | | 0-406210 | 31910 | -0.03 | 658 | 8521 | 79 | -117 | 13.5 | 113 | 2.3 | 5 | 1.7 | 21120 | 6.9 | 11610 | 39 | 0.5 |
| 02- | 66.3492- | 158.6633- | 2- | 13- | | 0-406211 | 58810 | -0.06 | 1124 | 24530 | 127 | -175 | 30.8 | 138 | 6.7 | 12 | 2.6 | 35730 | 9.3 | 15600 | 52 | 0.8 |
| 02- | 66.3358- | 158.6033- | 2- | 12- | | 0-406212 | 57730 | -0.08 | 1196 | 12270 | 49 | -155 | 22.3 | 93 | -4.4 | 9 | 1.6 | 25470 | 6.0 | 18920 | 33 | 0.4 |
| 02- | 66.3350- | 158.5292- | 2- | 12- | | 0-406213 | 24920 | -0.05 | 431 | 4762 | 94 | -85 | 23.0 | 110 | 5.6 | 3 | 2.0 | 31020 | 7.1 | 10250 | 43 | 0.7 |
| 02- | 66.3222- | 158.7222- | 2- | 12- | | 0-406214 | 21140 | -0.03 | 459 | -633 | 89 | -63 | 15.1 | 135 | 2.9 | 3 | 1.7 | 22540 | 7.3 | 9278 | 40 | 0.6 |
| 02- | 66.3150- | 158.6525- | 2- | 12- | | 0-406215 | 30820 | -0.03 | 554 | 12060 | 115 | -89 | 19.2 | 185 | 3.8 | 6 | 2.1 | 27890 | 9.8 | 9574 | 50 | 0.9 |
| 02- | 66.3117- | 158.5633- | 2- | 12- | | 0-406216 | | -0.05 | | | 54 | | 24.6 | 81 | -3.0 | | 1.3 | 33520 | 4.0 | | 29 | 0.4 |
| 02- | 66.3044- | 158.5267- | 2- | 12- | | 0-406217 | 13260 | -0.03 | 478 | 9714 | 92 | -92 | 16.2 | 159 | 3.1 | 5 | 1.8 | 24400 | 8.8 | 8446 | 42 | 0.7 |
| 02- | 66.3067- | 158.4633- | 2- | 12- | | 0-406219 | 12740 | -0.03 | -183 | 6211 | 77 | -97 | 13.2 | 133 | 2.5 | 3 | 1.7 | 21990 | 8.0 | 7905 | 39 | 0.5 |
| 02- | 66.3167- | 158.3767- | 2- | 12- | | 0-406247 | 20770 | -0.04 | 534 | 13330 | 135 | -115 | 18.8 | 119 | 5.6 | 7 | 2.3 | 33030 | 11.8 | 11840 | 56 | 0.8 |
| 02- | 66.3367- | 158.3833- | 2- | 12- | | 0-406248 | 21980 | -0.05 | 784 | 14560 | 92 | -123 | 13.9 | 83 | 4.4 | 8 | 1.7 | 26350 | 7.6 | 14850 | 42 | 0.6 |
| 02- | 66.3556- | 158.4117- | 2- | 12- | | 0-406249 | 18000 | -0.02 | 546 | 6507 | 21 | -96 | 8.6 | 18 | 1.5 | 7 | 1.0 | 4776 | 2.6 | 12400 | 9 | 0.1 |
| 02- | 66.3375- | 159.0847- | 2- | 13- | | 0-406251 | 61020 | -0.03 | 603 | 13590 | 117 | -89 | 18.9 | 99 | 4.5 | 6 | 2.1 | 27750 | 10.0 | 11310 | 55 | 0.6 |
| 02- | 66.3192- | 159.1333- | 2- | 13- | | 0-406252 | 55800 | -0.02 | 518 | 11890 | 85 | -78 | 12.0 | 63 | 5.5 | 7 | 1.9 | 19600 | 9.8 | 9478 | 45 | 0.6 |
| 02- | 66.2667- | 159.1667- | 2- | 13- | | 0-406254 | 72020 | -0.04 | 611 | 10550 | 128 | -107 | 22.0 | 120 | 6.5 | 7 | 2.5 | 31750 | 10.2 | 14040 | 53 | 0.8 |
| 02- | 66.2300- | 159.2436- | 2- | 12- | | 0-406256 | 59120 | -0.03 | 479 | 14790 | 77 | -108 | 15.1 | 72 | 3.2 | 5 | 1.6 | 23640 | 7.8 | 9727 | 42 | 0.5 |
| 02- | 66.1983- | 159.2669- | 2- | 12- | | 0-406257 | 64910 | -0.03 | 733 | 12700 | 103 | -93 | 19.2 | 100 | 4.8 | 7 | 1.9 | 27730 | 8.2 | 12640 | 50 | 0.4 |
| 02- | 66.2022- | 159.3392- | 2- | 12- | | 0-406258 | 65020 | -0.03 | 642 | 12110 | 80 | -125 | 18.3 | 89 | 5.9 | 4 | 1.6 | 26290 | 6.2 | 13010 | 43 | 0.3 |
| 02- | 66.1667- | 159.3133- | 2- | 12- | | 0-406259 | 61550 | -0.03 | 566 | 19030 | 138 | 1086 | 22.6 | 151 | 5.1 | 6 | 2.5 | 34930 | 10.4 | 11320 | 56 | 0.9 |
| 02- | 66.2058- | 159.4433- | 2- | 12- | | 0-406260 | 57990 | -0.02 | 584 | 15180 | 90 | -90 | 15.2 | 89 | 3.7 | 6 | 1.9 | 24950 | 8.2 | 11840 | 48 | 0.5 |
| 02- | 66.1617- | 159.4567- | 2- | 12- | | 0-406261 | 57510 | -0.03 | 572 | 14040 | 146 | -101 | 20.2 | 110 | 4.4 | 6 | 2.3 | 28930 | 13.0 | 12440 | 61 | 0.6 |
| 02- | 66.1583- | 159.5261- | 2- | 12- | | 0-406262 | 58910 | -0.03 | 542 | 15400 | 94 | -108 | 17.8 | 80 | 4.2 | 6 | 2.0 | 25580 | 8.3 | 14250 | 45 | 0.5 |
| 02- | 66.2267- | 159.1475- | 2- | 13- | | 0-406265 | 77790 | -0.04 | 881 | 9122 | 91 | -102 | 23.0 | 120 | 5.5 | 7 | 1.8 | 36040 | 6.9 | 16170 | 45 | 0.6 |
| 02- | 66.1975- | 159.1600- | 2- | 13- | | 0-406266 | 65520 | -0.02 | 630 | 5979 | 62 | -89 | 13.0 | 78 | 5.4 | 4 | 1.2 | 23490 | 5.0 | 12500 | 38 | 0.3 |
| 02- | 66.1800- | 159.1825- | 2- | 13- | | 0-406267 | 76200 | -0.04 | 500 | 19000 | 97 | -133 | 25.4 | 125 | 3.8 | 4 | 1.9 | 42370 | 6.7 | 8082 | 32 | 0.7 |
| 02- | 66.1633- | 159.1600- | 2- | 13- | | 0-406268 | 61190 | -0.04 | 518 | 20820 | 73 | -111 | 17.7 | 146 | -30.0 | 4 | 1.4 | 25770 | 5.6 | 8339 | 33 | 0.4 |
| 02- | 66.1383- | 159.1739- | 2- | 13- | | 0-406269 | 62000 | -0.03 | 998 | 14230 | 112 | -84 | 28.1 | 127 | 4.7 | 6 | 1.8 | 35570 | 7.9 | 15970 | 45 | 0.6 |
| 02- | 66.1433- | 159.2389- | 2- | 13- | | 0-406273 | 65270 | -0.03 | 601 | 9495 | 68 | -98 | 11.6 | 64 | 3.7 | 6 | 1.1 | 19690 | 5.4 | 16350 | 37 | 0.5 |
| 02- | 66.1886- | 159.2392- | 2- | 13- | | 0-406275 | 64020 | -0.05 | 930 | 20650 | 244 | -142 | 26.5 | 102 | 6.2 | 7 | 3.0 | 37390 | 11.1 | 10980 | 99 | 0.8 |
| 02- | 66.3633- | 159.5767- | 2- | 13- | | 0-406301 | 56180 | -0.02 | 510 | 10700 | 83 | -85 | 13.9 | 100 | 2.6 | 6 | 1.4 | 23600 | 6.5 | 16830 | 42 | 0.5 |
| 02- | 66.3633- | 159.5186- | 2- | 13- | | 0-406302 | 82260 | -0.05 | 889 | 7717 | 130 | -121 | 27.2 | 142 | 7.2 | 6 | 2.3 | 37750 | 8.3 | 18030 | 50 | 0.7 |
| 02- | 66.3303- | 159.5333- | 2- | 13- | | 0-406303 | 61890 | -0.04 | 536 | 13850 | 71 | -122 | 13.7 | 121 | -2.9 | 5 | 1.6 | 24770 | 7.7 | 11900 | 37 | 0.5 |
| 02- | 66.3639- | 159.4772- | 2- | 13- | | 0-406304 | 73490 | -0.03 | 717 | 10700 | 117 | -97 | 15.7 | 77 | 4.3 | 8 | 1.9 | 29380 | 11.7 | 15140 | 52 | 0.8 |
| 02- | 66.3503- | 159.4375- | 2- | 13- | | 0-406305 | 63880 | -0.03 | 652 | 18370 | 132 | -96 | 12.6 | 79 | 4.9 | 7 | 2.1 | 24600 | 15.2 | 14290 | 62 | 0.6 |
| 02- | 66.3183- | 159.4200- | 2- | 13- | | 0-406307 | 79520 | -0.05 | 681 | 10140 | 123 | -133 | 31.8 | 162 | 8.1 | 6 | 2.2 | 37750 | 6.9 | 14190 | 47 | 0.8 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(4)

| DOE SAMPLE NUMBER: STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm): Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02- | 66.4617- | 158.4467- | 2- | 12- | | 0-406158 | 10900 | 287 | 10970 | -21 | 1 | 10.3 | 3.9 | -314 | -1 | | 7.5 | 4497 | 80 | 2.5 | 79 | 0.333 |
| 02- | 66.4933- | 158.3700- | 2- | 12- | | 0-406159 | 14770 | 506 | 10980 | 41 | 1 | 19.9 | 9.5 | -285 | -1 | | 13.8 | 2332 | 51 | 4.4 | 179 | 0.246 |
| 02- | 66.4894- | 158.2942- | 2- | 12- | | 0-406160 | 19750 | 1835 | 15660 | -38 | -1 | 17.2 | 4.6 | -584 | -10 | | 8.1 | 5733 | 128 | 3.0 | -419 | 0.370 |
| 02- | 66.4558- | 158.3153- | 2- | 12- | | 0-406162 | 13100 | 700 | 10760 | 26 | | 12.3 | 5.3 | -349 | | | 8.8 | 3083 | 75 | 3.2 | 81 | 0.250 |
| 02- | 66.4350- | 158.2858- | 2- | 12- | | 0-406163 | 12480 | 447 | 11720 | 31 | 1 | 11.2 | 4.5 | -298 | | | 7.7 | 3213 | 52 | 2.8 | -88 | 0.299 |
| 02- | 66.4258- | 158.3550- | 2- | 12- | | 0-406164 | 25060 | 791 | 18590 | 34 | 1 | 23.6 | 7.9 | -392 | -1 | | 12.2 | 4510 | 89 | 3.9 | 152 | 0.246 |
| 02- | 66.4244- | 158.4200- | 2- | 12- | | 0-406165 | 19000 | 722 | 12130 | 35 | -1 | 11.5 | 5.6 | 292 | -1 | -1 | 9.7 | 4370 | 87 | 3.3 | -93 | 0.423 |
| 02- | 66.3508- | 158.2750- | 2- | 12- | | 0-406166 | 13180 | 529 | 13960 | 28 | | 11.5 | 4.4 | -324 | | | 7.9 | 4693 | 65 | 3.1 | 117 | 0.253 |
| 02- | 66.4342- | 158.5083- | 2- | 13- | | 0-406167 | 39030 | 1934 | 37800 | -39 | -1 | 12.4 | 5.3 | | 3 | -1 | 9.2 | 7205 | 153 | 3.3 | 66 | 0.337 |
| 02- | 66.4258- | 158.5800- | 2- | 13- | | 0-406168 | 12120 | 410 | 8113 | 49 | 2 | 18.8 | 9.0 | -360 | -2 | | 17.5 | 2974 | 60 | 5.1 | 173 | 0.240 |
| 02- | 66.3422- | 158.0858- | 2- | 13- | | 0-406169 | 16120 | 683 | 15220 | -45 | -2 | 17.6 | 4.5 | -485 | -2 | -1 | 12.0 | 5220 | 89 | -1.9 | 216 | 0.250 |
| 02- | 66.3200- | 158.0725- | 2- | 13- | | 0-406170 | 18120 | 373 | 10310 | 65 | 2 | 19.2 | 7.0 | -447 | -1 | -1 | 14.3 | 4644 | 101 | 3.5 | 212 | 0.217 |
| 02- | 66.3244- | 158.1392- | 2- | 12- | | 0-406172 | 10230 | 225 | 6093 | 45 | -1 | 12.1 | 6.8 | -282 | -1 | 1 | -27.7 | 3001 | 70 | 4.2 | 138 | |
| 02- | 66.3383- | 158.1525- | 2- | 12- | | 0-406173 | 13120 | 697 | 11680 | -30 | 1 | 14.8 | 13.7 | -358 | -1 | -1 | 18.0 | 3696 | 77 | 6.9 | 152 | 0.194 |
| 02- | 66.3167- | 158.2339- | 2- | 12- | | 0-406178 | 14450 | 509 | 10520 | -32 | -1 | 12.2 | 7.6 | -284 | -1 | | 16.5 | 4378 | 53 | 3.9 | | 0.339 |
| 02- | 66.3400- | 158.2583- | 2- | 12- | | 0-406179 | 19800 | 789 | 16280 | 62 | 1 | 11.8 | 8.5 | -416 | -1 | | 17.0 | 5143 | 82 | 5.2 | 111 | 0.271 |
| 02- | 66.3567- | 158.7175- | 2- | 13- | | 0-406210 | 14970 | 780 | 15570 | -21 | | 11.5 | 5.7 | -435 | -1 | | 8.4 | 3671 | 68 | 3.9 | 79 | 0.321 |
| 02- | 66.3492- | 158.6633- | 2- | 13- | | 0-406211 | 26600 | 1136 | 26050 | 54 | -1 | 21.0 | 10.1 | -636 | -2 | | 16.4 | 9144 | 146 | 5.7 | -95 | 0.195 |
| 02- | 66.3358- | 158.6033- | 2- | 12- | | 0-406212 | 30640 | 673 | 14390 | -58 | -2 | 14.9 | 4.2 | -574 | -3 | -2 | 7.9 | 7000 | 141 | -2.5 | -148 | 0.342 |
| 02- | 66.3350- | 158.5292- | 2- | 12- | | 0-406213 | 9694 | 239 | 5974 | 49 | -1 | 16.3 | 7.8 | -342 | -1 | -1 | 13.3 | 2579 | 59 | 5.1 | 179 | 0.226 |
| 02- | 66.3222- | 158.7222- | 2- | 12- | | 0-406214 | 8290 | 190 | 6008 | -21 | 1 | 12.8 | 7.0 | -231 | | | 10.3 | 2762 | 46 | 4.6 | 110 | 0.282 |
| 02- | 66.3150- | 158.6525- | 2- | 12- | | 0-406215 | 15650 | 622 | 14000 | -24 | -1 | 14.9 | 9.1 | -325 | -1 | | 12.3 | 5803 | 80 | 5.2 | -31 | 0.211 |
| 02- | 66.3117- | 158.5633- | 2- | 12- | | 0-406216 | | | | -41 | -1 | 19.5 | 4.9 | | 2 | -1 | 6.5 | | | 2.6 | | 0.385 |
| 02- | 66.3044- | 158.5267- | 2- | 12- | | 0-406217 | 9681 | 534 | 12440 | -20 | 1 | 13.3 | 7.5 | -330 | -1 | | 9.7 | 3584 | 39 | 4.8 | 142 | 0.268 |
| 02- | 66.3067- | 158.4633- | 2- | 12- | | 0-406219 | 10070 | 898 | 10460 | -18 | 1 | 11.6 | 5.8 | -412 | -1 | -1 | 9.1 | 3000 | 50 | 3.8 | 105 | 0.308 |
| 02- | 66.3167- | 158.3767- | 2- | 12- | | 0-406247 | 17890 | 777 | 17750 | 41 | 2 | 16.9 | 11.2 | -422 | -1 | | 14.6 | 5424 | 58 | 6.9 | 160 | 0.240 |
| 02- | 66.3367- | 158.3833- | 2- | 12- | | 0-406248 | 20660 | 903 | 18980 | -37 | -1 | 13.6 | 5.7 | -443 | -1 | -1 | 9.7 | 5969 | 73 | 3.8 | -121 | 0.351 |
| 02- | 66.3558- | 158.4117- | 2- | 12- | | 0-406249 | 14220 | 408 | 12190 | -13 | | 2.5 | 1.3 | -338 | | | 2.4 | 3979 | 52 | 0.8 | -44 | 1.625 |
| 02- | 66.3375- | 159.0847- | 2- | 13- | | 0-406251 | 18750 | 653 | 13980 | 36 | 1 | 13.4 | 10.2 | -327 | -1 | | 15.1 | 6272 | 102 | 5.4 | 151 | 0.291 |
| 02- | 66.3192- | 159.1333- | 2- | 13- | | 0-406252 | 12840 | 455 | 13280 | 36 | | 9.8 | 7.7 | -269 | | | 12.8 | 6553 | 83 | 4.5 | 103 | 0.391 |
| 02- | 66.2667- | 159.1667- | 2- | 13- | | 0-406254 | 19970 | 503 | 13330 | 56 | -1 | 17.8 | 10.1 | -391 | -1 | -1 | 14.9 | 6209 | 123 | 6.0 | 199 | 0.201 |
| 02- | 66.2300- | 159.2436- | 2- | 12- | | 0-406256 | 18810 | 616 | 14160 | -30 | 1 | 11.7 | 6.7 | -393 | -1 | | 12.4 | 5835 | 100 | 3.9 | -30 | 0.323 |
| 02- | 66.1983- | 159.2669- | 2- | 12- | | 0-406257 | 21210 | 611 | 13700 | 48 | 1 | 13.2 | 8.5 | -336 | -1 | | 14.1 | 5915 | 110 | 3.8 | 171 | 0.270 |
| 02- | 66.2022- | 159.3392- | 2- | 12- | | 0-406258 | 21110 | 1483 | 11620 | 44 | -1 | 11.1 | 6.3 | -580 | -1 | | 11.0 | 4709 | 118 | 3.3 | 107 | 0.309 |
| 02- | 66.1667- | 159.3133- | 2- | 12- | | 0-406259 | 23390 | 746 | 13280 | 57 | 1 | 19.2 | 11.1 | -393 | -1 | | 16.5 | 7678 | 113 | 6.5 | | 0.230 |
| 02- | 66.2058- | 159.4433- | 2- | 12- | | 0-406260 | 22120 | 650 | 13630 | 51 | 1 | 11.9 | 8.4 | -328 | | | 11.9 | 6304 | 110 | 3.7 | 115 | 0.370 |
| 02- | 66.1617- | 159.4567- | 2- | 12- | | 0-406261 | 17070 | 664 | 13890 | 50 | 1 | 14.4 | 10.4 | -370 | -1 | | 17.0 | 6003 | 99 | 5.9 | 191 | 0.247 |
| 02- | 66.1583- | 159.5261- | 2- | 12- | | 0-406262 | 19970 | 692 | 13740 | -31 | -1 | 12.2 | 6.8 | -403 | -1 | | 12.1 | 5799 | 110 | 3.3 | | 0.372 |
| 02- | 66.2267- | 159.1475- | 2- | 13- | | 0-406265 | 19370 | 576 | 11080 | 55 | 1 | 17.7 | 8.6 | -401 | -1 | -1 | 15.6 | 6500 | 152 | 4.5 | 205 | 0.212 |
| 02- | 66.1975- | 159.1600- | 2- | 13- | | 0-406266 | 20110 | 621 | 12110 | 41 | 2 | 10.1 | 5.3 | -331 | | | 10.7 | 4904 | 105 | 2.8 | | 0.299 |
| 02- | 66.1800- | 159.1825- | 2- | 13- | | 0-406267 | 21630 | 782 | 18600 | -33 | -1 | 25.6 | 8.0 | -481 | -1 | -1 | 8.2 | 6774 | 195 | 4.2 | | 0.268 |
| 02- | 66.1633- | 159.1600- | 2- | 13- | | 0-406268 | 23870 | 734 | 13590 | -32 | -1 | 16.1 | 4.9 | -427 | -1 | -1 | 9.0 | 7235 | 142 | 3.2 | | 0.311 |
| 02- | 66.1383- | 159.1739- | 2- | 13- | | 0-406269 | 22930 | 1070 | 5865 | 30 | 4 | 14.7 | 8.2 | -433 | -1 | | 12.5 | 7191 | 134 | 3.8 | 166 | 0.240 |
| 02- | 66.1433- | 159.2389- | 2- | 13- | | 0-406273 | 16500 | 523 | 12940 | -25 | | 12.5 | 5.3 | -354 | -1 | -1 | 9.6 | 5860 | 98 | 4.1 | 141 | 0.271 |
| 02- | 66.1886- | 159.2392- | 2- | 13- | | 0-406275 | 22580 | 764 | 11500 | 68 | -1 | 17.9 | 16.9 | -584 | -2 | -1 | 21.7 | 6661 | 120 | 6.0 | -164 | 0.226 |
| 02- | 66.3633- | 159.5767- | 2- | 13- | | 0-406301 | 14070 | 580 | 12820 | -22 | 1 | 11.2 | 7.1 | -317 | | | 9.8 | 6194 | 95 | 4.1 | 110 | 0.316 |
| 02- | 66.3633- | 159.5186- | 2- | 13- | | 0-406302 | 18530 | 466 | 11040 | 92 | -1 | 21.5 | 10.1 | -456 | -1 | | 16.2 | 6042 | 152 | 6.3 | 187 | 0.185 |
| 02- | 66.3303- | 159.5333- | 2- | 13- | | 0-406303 | 18150 | 565 | 13020 | -38 | -1 | 15.3 | 4.8 | -456 | -1 | -1 | 9.0 | 6165 | 126 | 3.4 | -149 | 0.344 |
| 02- | 66.3639- | 159.4772- | 2- | 13- | | 0-406304 | 21680 | 604 | 15300 | 57 | 1 | 15.6 | 9.9 | -344 | 1 | | 14.1 | 7231 | 112 | 6.2 | 152 | 0.270 |
| 02- | 66.3583- | 159.4375- | 2- | 13- | | 0-406305 | 22940 | 578 | 15300 | 50 | 1 | 11.7 | 10.7 | 354 | -1 | | 16.4 | 6825 | 111 | 4.6 | 89 | 0.413 |
| 02- | 66.3183- | 159.4200- | 2- | 13- | | 0-406307 | 20220 | 515 | 10180 | -45 | -1 | 21.8 | 10.0 | -510 | -1 | -1 | 15.8 | 6777 | 160 | 4.9 | 365 | 0.247 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

①

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | TIME SAMPLED DATE | TIME SAMPLED HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02- | 66.3394- | 159.3433- | 2- | 12- | | 0-406308- | 08/27/76- | 15- | 15- | 14.2- | - | - | 6.9- | 90- | 21- | 2- | 7- | 5- | 6- | 3- | 2- | 4- | 1- | 3- | 4- | 2- | 2- | -1- | - | - | - | - | 6.00 |
| 02- | 66.3167- | 159.3406- | 2- | 12- | | 0-406309- | 08/27/76- | 15- | 16- | 14.4- | - | - | 7.2- | 87- | 21- | 2- | 7- | 3- | 6- | 3- | 3- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 5.20 |
| 02- | 66.2739- | 159.3683- | 2- | 12- | | 0-406311- | 08/27/76- | 15- | 16- | 15.1- | - | - | 6.4- | 90- | 21- | 2- | 7- | 5- | 6- | 3- | 2- | 1- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.40 |
| 02- | 66.2550- | 159.3783- | 2- | 12- | | 0-406312- | 08/27/76- | 15- | 16- | 14.4- | - | - | 7.4- | 87- | 17- | 2- | 7- | 6- | 6- | 3- | 2- | 1- | 2- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 5.20 |
| 02- | 66.2567- | 159.4350- | 2- | 12- | | 0-406313- | 08/27/76- | 15- | 16- | 14.2- | - | - | 7.2- | 90- | 17- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 5.50 |
| 02- | 66.2883- | 159.2694- | 2- | 13- | | 0-406314- | 08/27/76- | 16- | 15- | 16.1- | - | -S- | 7.9- | 63- | -2- | 7- | 6- | 8- | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 3.80 |
| 02- | 66.2908- | 159.2219- | 2- | 13- | | 0-406315- | 08/27/76- | 16- | 16- | 17.1- | C- | S- | 8.1- | 47- | -2- | 7- | - | - | -3- | 2- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 2.60 |
| 02- | 66.3133- | 159.2200- | 2- | 13- | | 0-406316- | 08/27/76- | 16- | 16- | 15.3- | - | -S- | 7.5- | 33- | -2- | 7- | 5- | 6- | -3- | 4- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 5.20 |
| 02- | 66.3367- | 159.2300- | 2- | 13- | | 0-406317- | 08/27/76- | 16- | 16- | 15.4- | - | -S- | 7.2- | 28- | -2- | 7- | 6- | 6- | -3- | 5- | -4- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 2.90 |
| 02- | 66.2900- | 159.4283- | 2- | 13- | | 0-406318- | 08/27/76- | 16- | 16- | 16.7- | - | -S- | 7.6- | 55- | -2- | 7- | 6- | 6- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 3.00 |
| 02- | 66.2733- | 159.4358- | 2- | 13- | | 0-406319- | 08/27/76- | 16- | 16- | 16.4- | - | -S- | 7.9- | 77- | -2- | 7- | 5- | 6- | -3- | 2- | -3- | 3- | 2- | 2- | -1- | - | - | - | - | - | - | - | 3.60 |
| 02- | 66.2258- | 159.4883- | 2- | 13- | | 0-406320- | 08/27/76- | 16- | 15- | 16.5- | - | -S- | 8.0- | 68- | -2- | 7- | 6- | 8- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 3.40 |
| 02- | 66.2300- | 159.3700- | 2- | 13- | | 0-406321- | 08/27/76- | 16- | 16- | 16.4- | - | -S- | 7.9- | 72- | -2- | 7- | 6- | 6- | -3- | 2- | -3- | 4- | 2- | 2- | -1- | - | - | - | - | - | - | - | 5.50 |
| 02- | 66.2925- | 159.5500- | 2- | 12- | | 0-406322- | 08/27/76- | 16- | 16- | 12.2- | - | - | 7.8- | 119- | 4- | 2- | 7- | 5- | 6- | 2- | 2- | 2- | 2- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.30 |
| 02- | 66.2533- | 159.5839- | 2- | 12- | | 0-406325- | 08/27/76- | 16- | 16- | 12.7- | - | - | 7.7- | 124- | 4- | 2- | 7- | 6- | 6- | 2- | 2- | 2- | 1- | 4- | 4- | 2- | 2- | -1- | - | - | - | - | 3.20 |

## APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

(2)

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02- | 66.3394- | 159.3433- | 2- | 12- | | 0-406308 | -5 | -5 | -5 | 12 | -20 | 28 | 10 | -10 | -15 | 2 | 25 |
| 02- | 66.3167- | 159.3406- | 2- | 12- | | 0-406309 | -5 | 6 | -5 | 13 | -20 | 20 | 7 | -10 | -15 | 2 | 20 |
| 02- | 66.2739- | 159.3683- | 2- | 12- | | 0-406311 | -5 | -5 | -5 | 17 | -20 | 36 | -5 | -10 | -15 | 2 | 29 |
| 02- | 66.2550- | 159.3783- | 2- | 12- | | 0-406312 | -5 | -5 | -5 | 20 | -20 | 15 | 13 | -10 | 19 | 2 | 27 |
| 02- | 66.2567- | 159.4350- | 2- | 12- | | 0-406313 | -5 | -5 | -5 | 18 | -20 | 23 | 9 | -10 | -15 | 2 | 18 |
| 02- | 66.2883- | 159.2694- | 2- | 13- | | 0-406314 | -5 | -5 | -5 | 26 | -20 | 33 | 14 | -10 | 15 | 2 | 29 |
| 02- | 66.2908- | 159.2219- | 2- | 13- | | 0-406315 | -5 | -5 | 5 | 12 | -20 | 42 | -5 | -10 | -15 | 2 | 23 |
| 02- | 66.3133- | 159.2200- | 2- | 13- | | 0-406316 | -5 | -5 | -5 | 15 | -20 | 28 | 12 | -10 | -15 | 3 | 28 |
| 02- | 66.3367- | 159.2300- | 2- | 13- | | 0-406317 | -5 | -5 | -5 | 10 | -20 | 40 | -5 | -10 | -15 | 2 | 27 |
| 02- | 66.2900- | 159.4283- | 2- | 13- | | 0-406318 | -5 | -5 | -5 | 53 | -20 | 30 | 9 | -10 | -15 | 2 | 31 |
| 02- | 66.2733- | 159.4358- | 2- | 13- | | 0-406319 | -5 | -5 | -5 | 35 | -20 | 15 | -5 | -10 | -15 | 2 | 39 |
| 02- | 66.2258- | 159.4883- | 2- | 13- | | 0-406320 | -5 | -5 | -5 | 27 | -20 | 19 | 9 | -10 | -15 | 2 | 35 |
| 02- | 66.2300- | 159.3700- | 2- | 13- | | 0-406321 | -5 | -5 | -5 | 29 | -20 | 48 | 8 | -10 | -15 | 2 | 29 |
| 02- | 66.2925- | 159.5500- | 2- | 12- | | 0-406322 | -5 | -5 | -5 | 22 | -20 | 18 | 13 | -10 | -15 | 1 | 26 |
| 02- | 66.2533- | 159.5839- | 2- | 12- | | 0-406325 | -5 | -5 | -5 | 10 | -20 | 25 | -5 | -10 | -15 | 2 | 24 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

3

| DOE SAMPLE NUMBER | | | | | | LABS SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | |
| | | | | | | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 66.3394- | 159.3433- | 2- | 12- | | 0-406308 | 60500 | -0.03 | 477 | 14690 | 91 | -115 | 13.8 | 84 | 3.8 | 6 | 2.0 | 22250 | 10.6 | 12700 | 57 | 0.6 |
| 02- | 66.3167- | 159.3406- | 2- | 12- | | 0-406309 | 62330 | -0.02 | 694 | 14860 | 132 | -93 | 13.7 | 90 | 4.2 | 7 | 1.9 | 23180 | 11.7 | 18070 | 62 | 0.6 |
| 02- | 66.2739- | 159.3663- | 2- | 12- | | 0-406311 | 70870 | -0.03 | 701 | 9663 | 79 | -89 | 13.6 | 97 | 3.6 | 7 | 1.5 | 25340 | 9.3 | 12940 | 43 | 0.6 |
| 02- | 66.2550- | 159.3783- | 2- | 12- | | 0-406312 | 62530 | -0.03 | 612 | 14440 | 154 | -103 | 16.2 | 116 | 4.0 | 6 | 2.2 | 27540 | 11.2 | 15910 | 66 | 0.7 |
| 02- | 66.2567- | 159.4350- | 2- | 12- | | 0-406313 | 59490 | -0.03 | 649 | 15740 | 99 | -112 | 13.0 | 77 | 3.3 | 5 | 1.6 | 21980 | 8.9 | 10930 | 48 | 0.5 |
| 02- | 66.2883- | 159.2694- | 2- | 13- | | 0-406314 | 77340 | -0.04 | 830 | 9393 | 94 | -106 | 25.6 | 113 | 6.9 | 6 | 1.8 | 32180 | 6.1 | 14310 | 45 | 0.6 |
| 02- | 66.2908- | 159.2219- | 2- | 13- | | 0-406315 | 68890 | -0.03 | 505 | 12940 | 63 | -104 | 19.2 | 121 | 2.6 | 5 | 1.4 | 29560 | 7.7 | 8775 | 32 | 0.4 |
| 02- | 66.3133- | 159.2200- | 2- | 13- | | 0-406316 | 59140 | -0.03 | 603 | 16180 | 154 | -105 | 17.9 | 98 | 4.3 | 6 | 2.0 | 28320 | 12.4 | 11240 | 64 | 0.7 |
| 02- | 66.3367- | 159.2300- | 2- | 13- | | 0-406317 | 62300 | -0.02 | 565 | 8060 | 80 | -78 | 18.0 | 89 | 4.0 | 7 | 1.7 | 26500 | 8.1 | 11050 | 40 | 0.6 |
| 02- | 66.2900- | 159.4283- | 2- | 13- | | 0-406318 | 87580 | -0.04 | 1001 | 7459 | 76 | -102 | 25.4 | 109 | 7.5 | 5 | 1.4 | 32970 | 4.7 | 19190 | 36 | 0.5 |
| 02- | 66.2733- | 159.4358- | 2- | 13- | | 0-406319 | 69340 | -0.03 | 720 | 9758 | 121 | -95 | 21.4 | 114 | 5.4 | 6 | 2.0 | 30890 | 8.7 | 12030 | 49 | 0.7 |
| 02- | 66.2258- | 159.4883- | 2- | 13- | | 0-406320 | 66570 | -0.03 | 465 | 11060 | 75 | -100 | 13.6 | 56 | 3.3 | 6 | 1.5 | 22780 | 9.5 | 13860 | 38 | 0.5 |
| 02- | 66.2300- | 159.3700- | 2- | 13- | | 0-406321 | 78220 | -0.03 | 784 | 9605 | 98 | -92 | 21.8 | 97 | 7.5 | 7 | 1.8 | 29710 | 7.7 | 13970 | 46 | 0.5 |
| 02- | 66.2925- | 159.5500- | 2- | 12- | | 0-406322 | 62550 | -0.02 | 595 | 8043 | 68 | -77 | 12.4 | 71 | 3.3 | 6 | 1.5 | 20520 | 6.4 | 12280 | 36 | 0.4 |
| 02- | 66.2533- | 159.5839- | 2- | 12- | | 0-406325 | 52780 | -0.02 | 422 | 9530 | 108 | -81 | 12.7 | 81 | 2.8 | 6 | 1.9 | 21330 | 10.0 | 9132 | 47 | 0.7 |

# APPENDIX II-B (continued). Elemental Concentrations for Sediment Samples-Selawik

4

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 66.3394- | 159.3433- | 2- | 12- | | 0-406308 | 18520 | 694 | 16180 | -32 | -1 | 11.7 | 8.6 | -412 | -1 | -1 | 15.2 | 6739 | 110 | 4.2 | 103 | 0.395 |
| 02- | 66.3167- | 159.3406- | 2- | 12- | | 0-406309 | 18590 | 480 | 16770 | 57 | 1 | 12.2 | 11.3 | -304 | -1 | | 16.9 | 7305 | 105 | 5.4 | 104 | 0.308 |
| 02- | 66.2739- | 159.3683- | 2- | 12- | | 0-406311 | 19150 | 457 | 12980 | 39 | | 13.8 | 7.5 | -310 | -1 | -1 | 10.3 | 6258 | 129 | 4.6 | -93 | 0.330 |
| 02- | 66.2550- | 159.3783- | 2- | 12- | | 0-406312 | 18570 | 532 | 16350 | 66 | 1 | 13.9 | 12.3 | -348 | -1 | | 20.5 | 6381 | 116 | 5.5 | 131 | 0.254 |
| 02- | 66.2567- | 159.4350- | 2- | 12- | | 0-406313 | 16580 | 588 | 16150 | 44 | 2 | 11.0 | 8.0 | -391 | -1 | | 12.5 | 5380 | 111 | 3.7 | | 0.440 |
| 02- | 66.2883- | 159.2694- | 2- | 13- | | 0-406314 | 23470 | 501 | 10450 | 73 | 1 | 17.3 | 7.9 | -424 | -1 | | 14.8 | 5558 | 140 | 4.2 | -144 | 0.257 |
| 02- | 66.2908- | 159.2219- | 2- | 13- | | 0-406315 | 21090 | 521 | 14980 | -26 | | 13.8 | 5.0 | -357 | -1 | | 8.9 | 7115 | 124 | 2.8 | 144 | 0.292 |
| 02- | 66.3133- | 159.2200- | 2- | 13- | | 0-406316 | 20050 | 596 | 16200 | 59 | 1 | 13.4 | 11.8 | -363 | -1 | -1 | 17.1 | 6715 | 102 | 5.4 | 81 | 0.304 |
| 02- | 66.3367- | 159.2300- | 2- | 13- | | 0-406317 | 20060 | 466 | 12060 | 32 | 1 | 12.6 | 7.4 | -283 | | -1 | 9.9 | 5823 | 100 | 4.4 | 122 | 0.293 |
| 02- | 66.2900- | 159.4283- | 2- | 13- | | 0-406318 | 20820 | 561 | 9844 | 69 | 1 | 17.5 | 5.3 | -402 | -1 | -1 | 9.9 | 5624 | 155 | 3.0 | 168 | 0.303 |
| 02- | 66.2733- | 159.4358- | 2- | 13- | | 0-406319 | 17300 | 503 | 12740 | 48 | 1 | 16.3 | 8.8 | -346 | -1 | | 15.0 | 5723 | 124 | 5.1 | | 0.240 |
| 02- | 66.2256- | 159.4883- | 2- | 13- | | 0-406320 | 16780 | 499 | 14480 | 54 | | 13.0 | 5.5 | -341 | -1 | | 9.3 | 5718 | 98 | 4.6 | | 0.366 |
| 02- | 66.2300- | 159.3700- | 2- | 13- | | 0-406321 | 24050 | 468 | 12730 | 68 | | 16.0 | 7.5 | -325 | -1 | -1 | 13.4 | 6784 | 140 | 4.4 | 172 | 0.410 |
| 02- | 66.2925- | 159.5500- | 2- | 12- | | 0-406322 | 19240 | 395 | 12790 | 40 | | 11.3 | 5.9 | -257 | | | 8.8 | 5533 | 96 | 3.5 | -27 | 0.375 |
| 02- | 66.2533- | 159.5839- | 2- | 12- | | 0-406325 | 14390 | 361 | 13690 | -19 | | 11.6 | 8.7 | -271 | | | 12.6 | 5691 | 83 | 5.4 | 153 | 0.254 |

# APPENDIX III

## RESULTS OF ELEMENTAL ANALYSES OF SAMPLES FROM THE AREA OF ALASKA PROPOSED FOR THE CAPE KRUSENSTERN NATIONAL MONUMENT

## APPENDIX III-A

Cape Krusenstern Field Data and Elemental Concentrations for Acidified Waters Analyzed for Uranium by Fluorometry or Delayed-Neutron Counting and for Twelve Additional Elements by Plasma-Source Emission Spectrography

## APPENDIX III-B

Cape Krusenstern Field Data and Elemental Concentrations for Sediments Analyzed for Uranium by Delayed-Neutron Counting and for Forty-Two Additional Elements by X-Ray Fluorescence, Arc-Source Emission Spectrography, and Neutron Activation

APPENDIX III-A

CAPE KRUSENSTERN

FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR ACIDIFIED WATERS

ANALYZED FOR URANIUM BY FLUOROMETRY OR DELAYED-NEUTRON COUNTING AND FOR

TWELVE ADDITIONAL ELEMENTS BY PLASMA-SOURCE EMISSION SPECTROGRAPHY

(Pages 134 through 135)

Note that two pages, numbered 1 and 2 in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

1 - Lists field data and uranium concentrations determined by fluorometry or delayed-neutron counting.
2 - Lists concentrations of 12 additional elements determined by plasma-source emission spectrography.

(See Appendix IV for Procedures and Codes to Listings)

# APPENDIX III-A. Elemental Concentrations for Water Samples-Cape Krusenstern

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (*) UNITS IN ppb |
| 02- | 67.2267- | 162.9272- | 2- | 27- | | 0-404142- | 08/13/76- | 14- | 13- | 11.9- | - | - | 6.6- | 240- | | 4- | 3- | 7- | 4- | 6- | 2- | 2- | 1- | 2- | 3- | 3- | 2- | 3- | -1- | - | - | - | - | 0.12 |
| 02- | 67.2267- | 162.8567- | 2- | 27- | | 0-404143- | 08/13/76- | 14- | 13- | 14.2- | - | - | 6.8- | - | | -3- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 1- | 3- | 3- | 3- | -1- | - | - | - | - | 0.54 |
| 02- | 67.1900- | 162.9200- | 2- | 27- | | 0-404202- | 08/13/76- | 16- | 14- | 12.5- | - | - | 7.6- | 331- | | -2- | 6- | -6- | 2- | 3- | 1- | 2- | 3- | 2- | 3- | 3- | -1- | - | - | - | - | 0.12 |
| 02- | 67.6833- | 163.2900- | 2- | 27- | | 0-404271- | 08/13/76- | 20- | 16- | 4.2- | - | - | 8.5- | 69- | | -2- | 6- | 5- | 6- | 3- | 3- | 1- | 2- | 3- | 2- | 3- | 2- | -1- | - | - | - | - | 0.05 |
| 02- | 67.6717- | 163.4792- | 2- | 27- | | 0-404272- | 08/13/76- | 20- | 16- | 11.6- | - | - | 8.4- | 620- | | -2- | 6- | 6- | 6- | 2- | 3- | 1- | 2- | 3- | 3- | 1- | 2- | -1- | - | - | - | - | 0.01 |
| 02- | 67.6139- | 163.4178- | 2- | 27- | | 0-404273- | 08/13/76- | 20- | 16- | 12.0- | - | - | 8.0- | 250- | | -2- | 6- | 5- | 6- | 2- | 3- | 1- | 2- | 3- | 2- | 4- | 2- | -1- | - | - | - | - | 0.37 |
| 02- | 67.0900- | 163.4167- | 2- | 29- | | 0-404292- | 08/14/76- | 8- | 12- | 16.1- | - | S- | 9.2- | 471- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 1- | -1- | - | - | - | - | 0.99 |
| 02- | 67.0983- | 163.5233- | 2- | 29- | | 0-404293- | 08/14/76- | 8- | 12- | 13.3- | - | - | 8.0- | 4510- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 4- | -1- | - | - | - | - | 1.03 |
| 02- | 67.1106- | 163.6733- | 2- | 29- | | 0-404294- | 08/14/76- | 8- | 12- | 13.1- | - | S- | 8.2- | 4342- | | -2- | 7- | 4- | 6- | - | - | - | - | -4- | 3- | 1- | 4- | -1- | - | - | - | - | 0.14 |
| 02- | 67.2067- | 163.6800- | 2- | 27- | | 0-404302- | 08/14/76- | 9- | 12- | 11.3- | - | - | 8.5- | 157- | | 9- | 2- | 7- | 4- | 6- | 2- | 3- | 1- | 2- | 4- | 3- | 1- | 4- | -1- | - | - | - | - | 0.01 |

## APPENDIX III-A (continued). Elemental Concentrations for Water Samples-Cape Krusenstern

②

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY PLASMA-SOURCE EMISSION SPECTROGRAPHY (Concentrations reported in weight parts per billion (ppb)) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Ca | Co | Cr | Cu | Fe | Mg | Mn | Mo | Ni | Pb | Ti | Zn |
| 02- | 67.2267- | 162.9272- | 2- | 27- | | 0-404142 | 21290 | -55 | -25 | -4 | -25 | 11967 | -3 | 74 | -25 | 3 | 199 | -50 |
| 02- | 67.2267- | 162.8567- | 2- | 27- | | 0-404143 | 34375 | -55 | -25 | -4 | -25 | 12454 | -3 | 70 | 27 | 3 | 199 | 121 |
| 02- | 67.1900- | 162.9200- | 2- | 27- | | 0-404202 | 23566 | -55 | -25 | -4 | 26 | 12358 | -3 | 39 | -25 | 3 | 199 | -50 |
| 02- | 67.6833- | 163.2900- | 2- | 27- | | 0-404271 | 24319 | -55 | -25 | -4 | 186 | 4920 | 4 | -25 | -25 | 6 | 199 | 147 |
| 02- | 67.6717- | 163.4792- | 2- | 27- | | 0-404272 | 86010 | 75 | -25 | -4 | 747 | 16420 | 149 | -25 | 27 | 19 | 199 | 129 |
| 02- | 67.6139- | 163.4178- | 2- | 27- | | 0-404273 | 21693 | -55 | -25 | -4 | 249 | 9635 | 13 | -25 | -25 | 3 | 199 | 100 |
| 02- | 67.0900- | 163.4167- | 2- | 29- | | 0-404292 | 114000 | 249 | -25 | -4 | 91 | 206000 | 13 | -25 | 112 | 25 | 199 | 250 |
| 02- | 67.0983- | 163.5233- | 2- | 29- | | 0-404293 | 119000 | 228 | -25 | -4 | 1373 | 193000 | 41 | 65 | 144 | 136 | 199 | 134 |
| 02- | 67.1106- | 163.6733- | 2- | 29- | | 0-404294 | 123000 | 201 | -25 | -4 | 19683 | 149000 | 1560 | -25 | -25 | 108 | 199 | 277 |
| 02- | 67.2067- | 163.6800- | 2- | 27- | | 0-404302 | 17389 | -55 | -25 | -4 | 136 | 12988 | 9 | 32 | -25 | 3 | 199 | -50 |

APPENDIX III-B

CAPE KRUSENSTERN

FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SEDIMENTS

ANALYZED FOR URANIUM BY DELAYED-NEUTRON COUNTING AND FOR

FORTY-TWO ADDITIONAL ELEMENTS BY X-RAY FLUORESCENCE,

ARC-SOURCE EMISSION SPECTROGRAPHY, AND NEUTRON ACTIVATION

(Pages 138 through 141)

Note that four pages, numbered 1 through 4 in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

1 - Lists field data and uranium concentrations determined by delayed-neutron counting.
2 - Lists concentrations of 11 elements determined by x-ray fluorescence and arc-source emission spectrography.
3 and 4 - List concentrations of 31 elements determined by neutron activation analysis and computed U/Th ratios.

(See Appendix IV for Procedures and Codes to Listings)

# APPENDIX III-B Elemental Concentrations for Sediment Samples-Cape Krusenstern

1

| DOE SAMPLE NUMBER | | | | | | LASL SAMPLE LOCATION NUMBER AND FIELD DATA | | | | | | | | | | | | | | | | | | | | | | | | U CONCENTRATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TIME SAMPLED | | | | | | | | | | | | | | | | | | | | | | | |
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | DATE | HOUR | AIR TEMPERATURE | WATER TEMPERATURE | COMMENTS | SPECIAL MEASUREMENTS | pH | SPECIFIC CONDUCTANCE (µmho/cm) | SCINTILLOMETER (eU, ppm) | ROCK TYPE | ROCK COLOR | SEDIMENT TYPE | SEDIMENT COLOR | WATER FLOW | WATER LEVEL | WATER COLOR | STREAM CHANNEL | VEGETATION TYPE | VEGETATION DENSITY | RELIEF | WEATHER | OWNERSHIP | CONTAMINANTS | WELL TYPE | WELL DIAMETER (INCHES) | WELL DEPTH (FEET) | WATER DEPTH (FEET) | SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm |
| 02 | 67.2267 | 162.9272 | 2 | 12 | | 0-404142 | 08/13/76 | 14 | 13 | 11.9 | - | - | 6.6 | 240 | | 4 | 3 | 7 | 4 | 6 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 3 | 1 | - | - | - | - | 2.20 |
| 02 | 67.2267 | 162.8567 | 2 | 12 | | 0-404143 | 08/13/76 | 14 | 13 | 14.2 | - | - | 6.8 | - | | 3 | 7 | 4 | 6 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 1 | - | - | - | - | 3.00 |
| 02 | 67.1900 | 162.9200 | 2 | 12 | | 0-404202 | 08/13/76 | 16 | 14 | 12.5 | - | - | 7.6 | 331 | | 2 | 6 | | 6 | 2 | 3 | 1 | 2 | 3 | 2 | 3 | 3 | 1 | - | - | - | - | 2.80 |
| 02 | 67.6833 | 163.2900 | 2 | 12 | | 0-404271 | 08/13/76 | 20 | 16 | 4.2 | - | - | 8.5 | 69 | | 2 | 6 | 5 | 6 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | - | - | - | - | 2.80 |
| 02 | 67.6717 | 163.4792 | 2 | 12 | | 0-404272 | 08/13/76 | 20 | 16 | 11.6 | - | - | 8.4 | 620 | | 2 | 6 | 6 | 6 | 2 | 3 | 1 | 2 | 3 | 3 | 1 | 2 | 1 | - | - | - | - | 3.10 |
| 02 | 67.6139 | 163.4178 | 2 | 12 | | 0-404273 | 08/13/76 | 20 | 16 | 12.0 | - | - | 8.0 | 250 | | 2 | 6 | 5 | 6 | 2 | 3 | 1 | 2 | 3 | 2 | 4 | 2 | 1 | - | - | - | - | 3.50 |
| 02 | 67.6200 | 163.3550 | 2 | 12 | | 0-404274 | 08/13/76 | 20 | 16 | 13.0 | - | - | 8.2 | 225 | | 2 | 6 | 5 | 6 | - | - | - | 2 | 3 | 2 | 4 | 2 | 1 | - | - | - | - | 3.50 |
| 02 | 67.0900 | 163.4167 | 2 | 13 | | 0-404292 | 08/14/76 | 8 | 12 | 16.1 | - | S | 9.2 | 471 | | 2 | 7 | 4 | 6 | - | - | - | - | 4 | 3 | 1 | 1 | 1 | - | - | - | - | 3.00 |
| 02 | 67.0983 | 163.5233 | 2 | 13 | | 0-404293 | 08/14/76 | 8 | 12 | 13.3 | - | - | 8.0 | 4510 | | 2 | 7 | 4 | 6 | - | - | - | - | 4 | 3 | 1 | 4 | 1 | - | - | - | - | 3.30 |
| 02 | 67.1106 | 163.6733 | 2 | 13 | | 0-404294 | 08/14/76 | 8 | 12 | 13.1 | - | S | 8.2 | 4342 | | 2 | 7 | 4 | 6 | - | - | - | - | 4 | 3 | 1 | 4 | 1 | - | - | - | - | 2.20 |
| 02 | 67.2067 | 163.6800 | 2 | 12 | | 0-404302 | 08/14/76 | 9 | 12 | 11.3 | - | - | 8.5 | 157 | | 9 | 2 | 7 | 4 | 6 | 2 | 3 | 1 | 2 | 4 | 3 | 1 | 4 | 1 | - | - | - | - | 3.30 |

## APPENDIX III-B (continued). Elemental Concentrations for Sediment Samples-Cape Krusenstern

②

| DOE SAMPLE NUMBER | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | LASL SAMPLE LOCATION NUMBER | Ag | Bi | Cd | Cu | Nb | Ni | Pb | Sn | W | Be | Li |
| 02-67 | .2267- | 162.9272- | 2- | 12- | | 0-404142 | | | | | | | | | | | |
| 02-67 | .2267- | 162.8567- | 2- | 12- | | 0-404143 | -5 | -5 | -5 | 30 | -20 | 71 | -5 | -10 | -15 | 2 | 21 |
| 02-67 | .1900- | 162.9200- | 2- | 12- | | 0-404202 | -5 | -5 | -5 | 27 | -20 | 50 | -5 | -10 | -15 | 2 | 29 |
| 02-67 | .6833- | 163.2900- | 2- | 12- | | 0-404271 | -5 | -5 | -5 | 17 | -20 | 55 | 15 | -10 | -15 | 1 | 27 |
| 02-67 | .6717- | 163.4792- | 2- | 12- | | 0-404272 | -5 | -5 | -5 | 24 | -20 | 53 | 7 | -10 | -15 | 2 | 37 |
| 02-67 | .6139- | 163.4178- | 2- | 12- | | 0-404273 | -5 | -5 | -5 | 28 | -20 | 69 | 11 | -10 | -15 | 2 | 34 |
| 02-67 | .6200- | 163.3550- | 2- | 12- | | 0-404274 | -5 | -5 | -5 | 24 | -20 | 63 | 8 | -10 | -15 | 1 | 30 |
| 02-67 | .0900- | 163.4167- | 2- | 13- | | 0-404292 | -5 | -5 | -5 | 23 | -20 | 53 | -5 | -10 | -15 | 2 | 28 |
| 02-67 | .0983- | 163.5233- | 2- | 13- | | 0-404293 | -5 | 6 | 5 | 29 | -20 | 47 | -5 | -10 | -15 | 2 | 27 |
| 02-67 | .1106- | 163.6733- | 2- | 13- | | 0-404294 | -5 | -5 | -5 | 35 | -20 | 46 | 7 | -10 | -15 | -1 | 8 |
| 02-67 | .2067- | 163.6800- | 2- | 12- | | 0-404302 | -5 | -5 | -5 | 21 | -20 | 48 | 7 | -10 | -15 | 2 | 27 |

# APPENDIX III-B (continued). Elemental Concentrations for Sediment Samples-Cape Krusenstern

③

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (Concentrations reported in weight parts per million (ppm)) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Al | Au | Ba | Ca | Ce | Cl | Co | Cr | Cs | Dy | Eu | Fe | Hf | K | La | Lu |
| 02- | 67.2267- | 162.9272- | 2- | 12- | | 0-404142 | 39730 | -0.05 | -493 | 15830 | 42 | -191 | 34.1 | 366 | -3.5 | -3 | 1.2 | 25710 | 7.0 | -10350 | 23 | 0.3 |
| 02- | 67.2267- | 162.8567- | 2- | 12- | | 0-404143 | 50380 | -0.03 | 659 | 12430 | 74 | -112 | 25.4 | 400 | 2.7 | 5 | 1.4 | 26700 | 7.6 | 7885 | 35 | 0.3 |
| 02- | 67.1900- | 162.9200- | 2- | 12- | | 0-404202 | 53850 | -0.03 | 762 | 10740 | 64 | -105 | 15.9 | 208 | 3.0 | 6 | 1.3 | 24290 | 8.5 | 8924 | 34 | 0.5 |
| 02- | 67.6833- | 163.2900- | 2- | 12- | | 0-404271 | 44380 | -0.03 | 485 | 5912 | 55 | -74 | 12.4 | 299 | 3.4 | 4 | 1.2 | 17930 | 7.7 | 7132 | 29 | 0.5 |
| 02- | 67.6717- | 163.4792- | 2- | 12- | | 0-404272 | 72910 | -0.03 | 848 | 4635 | 68 | -73 | 16.8 | 175 | 8.5 | 6 | 1.6 | 26670 | 4.8 | 11680 | 38 | 0.6 |
| 02- | 67.6139- | 163.4178- | 2- | 12- | | 0-404273 | 60880 | -0.02 | 789 | 5539 | 80 | -71 | 15.2 | 208 | 3.8 | 7 | 1.5 | 21560 | 10.0 | 12360 | 37 | 0.6 |
| 02- | 67.6200- | 163.3550- | 2- | 12- | | 0-404274 | 53270 | -0.03 | 729 | 6197 | 114 | -80 | 16.9 | 331 | 3.7 | 7 | 1.6 | 25170 | 15.0 | 10870 | 48 | 0.8 |
| 02- | 67.0900- | 163.4167- | 2- | 13- | | 0-404292 | 61670 | -0.05 | 434 | 25690 | 45 | 6429 | 19.6 | 98 | 4.5 | 4 | 1.5 | 25900 | 4.6 | 14140 | 26 | 0.5 |
| 02- | 67.0983- | 163.5233- | 2- | 13- | | 0-404293 | 69230 | -0.04 | 639 | 13630 | 66 | 6516 | 23.1 | 109 | 4.8 | 5 | 1.8 | 27350 | 5.7 | 16170 | 29 | 0.4 |
| 02- | 67.1106- | 163.6733- | 2- | 13- | | 0-404294 | 51680 | -0.04 | 750 | 12110 | 51 | 5764 | 14.4 | 81 | 4.5 | 4 | 1.1 | 20100 | 3.5 | 8165 | 25 | 0.3 |
| 02- | 67.2067- | 163.6800- | 2- | 12- | | 0-404302 | 58830 | | 697 | 5753 | | 157 | | | | 6 | | | | 11440 | | |

## APPENDIX III-B (continued). Elemental Concentrations for Sediment Samples-Cape Krusenstern

(4)

| DOE SAMPLE NUMBER | | | | | | LAB. SAMPLE LOCATION NUMBER | ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm) | | | | | | | | | | | | | | | U/Th RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATE | LATITUDE | LONGITUDE | DOE LAB | SAMPLE TYPE | REPLICATE | | Mg | Mn | Na | Rb | Sb | Sc | Sm | Sr | Ta | Tb | Th | Ti | V | Yb | Zn | |
| 02- | 67.2267- | 162.9272- | 2- | 12- | | 0-404142 | 26390 | 2875 | 7403 | -50 | -1 | 11.7 | 3.7 | | -2 | -1 | 8.2 | 4127 | 103 | -1.8 | 186 | 0.268 |
| 02- | 67.2267- | 162.8567- | 2- | 12- | | 0-404143 | 24430 | 1851 | 8369 | -23 | | 13.5 | 5.9 | -556 | -1 | | 7.7 | 4493 | 103 | 2.8 | 136 | 0.390 |
| 02- | 67.1900- | 162.9200- | 2- | 12- | | 0-404202 | 18730 | 1624 | 9155 | 27 | | 11.6 | 6.2 | -489 | | | 7.8 | 5060 | 99 | 3.8 | 138 | 0.359 |
| 02- | 67.6833- | 163.2900- | 2- | 12- | | 0-404271 | 9816 | 736 | 5680 | -22 | | 10.0 | 4.3 | -345 | -1 | | 7.4 | 5784 | 90 | 3.1 | -66 | 0.378 |
| 02- | 67.6717- | 163.4792- | 2- | 12- | | 0-404272 | 10500 | 282 | 6154 | 65 | | 14.4 | 7.0 | -291 | -1 | | 10.5 | 5594 | 151 | 3.2 | 216 | 0.295 |
| 02- | 67.6139- | 163.4178- | 2- | 12- | | 0-404273 | 12220 | 487 | 8433 | 32 | | 12.3 | 6.7 | -279 | | | 10.9 | 5336 | 110 | 3.8 | -101 | 0.321 |
| 02- | 67.6200- | 163.3550- | 2- | 12- | | 0-404274 | 11160 | 436 | 8636 | 35 | 1 | 13.9 | 9.2 | -304 | -1 | | 12.6 | 5912 | 101 | 6.1 | 106 | 0.278 |
| 02- | 67.0900- | 163.4167- | 2- | 13- | | 0-404292 | 47620 | 240 | 11890 | -42 | -1 | 13.4 | 4.2 | -412 | -1 | -1 | 7.0 | 3444 | 138 | 3.2 | 166 | 0.429 |
| 02- | 67.0983- | 163.5233- | 2- | 13- | | 0-404293 | 34500 | 234 | 11900 | 41 | -1 | 15.3 | 5.2 | -375 | -1 | | 8.9 | 5378 | 145 | 3.1 | 193 | 0.371 |
| 02- | 67.1100- | 163.6733- | 2- | 13- | | 0-404294 | 17830 | 644 | 10450 | -28 | -1 | 11.2 | 4.0 | -466 | -1 | | 7.0 | 3753 | 107 | 2.3 | 161 | 0.314 |
| 02- | 67.2067- | 163.6800- | 2- | 12- | | 0-404302 | 16810 | 699 | 7557 | | | | | -365 | | | | 5376 | 112 | | | |

# APPENDIX IV

## STANDARD PROCEDURES AND CODES TO DATA LISTINGS AND SAMPLE TYPES USED BY THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE NURE HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE

### APPENDIX IV-A

Summary of Standard LASL HSSR Field and Analytical Procedures

### APPENDIX IV-B

Explanation of Codes Used in Data Listings

### APPENDIX IV-C

Key to Sample Types

APPENDIX IV-A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

## I. FIELD PROCEDURES

### Water Sampling

Water samples are collected first, directly from the source wherever possible, filtered through a 0.45-μ membrane filter (except in Alaska where this step is omitted) directly into one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene). Water samples in both the rabbit and vial are then acidified to a pH $\leq 1$ with 8N reagent-grade $HNO_3$. All sample containers are doubly labeled with preprinted, adhesive labels carrying the same sample location number as that preprinted on the field data form. Springs are sampled as near to their point of emergence as possible; stream waters are taken from the fast-flowing current away from the bank; ponds (including small lakes and reservoirs) are sampled from just below the surface, near their center; and well waters are taken near the wellhead if the well is pumping or from a holding tank if not.

### Sediment Sampling (Wet or Dry)

Following the collection of the water sample (if any), enough fine-grained, organic-rich, water-transported sediment to yield a composite sample of 25 g after processing (as indicated below) is taken from beneath the water level (where water exists) at three adjacent spots at each spring or stream location. The sediment is put into a new, clean, and originally sealed, rip-top polyethylene bag which is then properly double-labeled for delivery (with the field data form) to the contractor's drying facility. After drying at $\leq 100°C$, each sample is sieved through a 100-mesh stainless steel sieve. The minus 100-mesh fraction is put into a prewashed, 25-ml polyethylene vial which is then appropriately double-labeled (using labels from the data form) and sealed for shipment to the LASL. In the case of lakes sampled in Alaska, the sediment is taken from as near the center of each lake as possible by dropping a tethered, stainless steel bottom sampler overboard from a pontoon-equipped helicopter. Here, only a bottom sample from a single location is taken (i.e., it is not a composite) and sampling is limited to lakes less than 10 m deep and about 0.3 to 2.0 km in least horizontal dimension. The sampler is rinsed before each use and the raw sample is put into a clean polyethylene bag, labeled, and treated as above.

### Field Measurements

The air temperature, read in the shade at the time of sampling, is recorded to the nearest whole degree Celsius. The water temperature is measured in the source water and recorded to the nearest one-half degree Celsius. The pH of the source water is measured with a calibrated, portable pH meter and recorded to the nearest one-tenth of a pH unit. The conductivity (in μmho/cm) of the source water is measured with a calibrated, temperature-compensated (25°C), portable meter. The scintillometer readings are measured with a portable scintillometer on a flat, dry spot within a few meters of the sample location at spring or stream sites. Two readings are recorded, the first with a radiation shield in place (blocking out ground radiation) and the second with the shield removed. The readings (in counts/s) are converted by computer,

using measured calibration factors, to the equivalent uranium (eU) value in the data listings. Special measurements such as dissolved oxygen are made with a calibrated, commercially available, portable meter and probe. In lakes, the water temperature, pH, conductivity, and (special) dissolved oxygen are usually all measured with a single, digital-readout unit, utilizing a parameter selector switch and a composite probe that is lowered from the sampling helicopter to just below the water's surface. Care is taken to see that these measurements are made before the bottom sediment is disturbed.

### Field Observations

These represent the best judgment of the field sampler at a location and include general descriptions of the local bedrock, sediment, water, vegetation, terrain, weather, possible contaminants, and well configuration, if applicable. Because these observations are subjective and made quickly in the field, they should be held subordinate to formally documented information such as that provided by published topographic or geologic maps, etc.

### Sample Location Verification

Each contractor is supplied field maps with the desired sample types and general locations symbolically premarked at the LASL. In the lower states, the field maps are generally 1:24 000-scale or 1:62 500-scale USGS topographic maps; in Alaska, they are normally 1:250 000-scale NTMS quadrangle maps, also available from the USGS. As each location is sampled, a unique sample location number, preprinted on transparent adhesive labels (also used for labeling the samples) that are provided with each identically numbered field data form, is inked alongside the precisely marked point representing the sample site on the field map. When a desired sample as specified cannot be obtained, an identical or alternate sample type (as near as possible to the original one) is picked, and the new sample type and/or location is/are marked on the field map and properly labeled as above. The latitude and longitude of each location is then computed by the sampling contractor within 48 h of taking each sample. Every location is later checked (and corrected if necessary) at the LASL by digitizing the sample locations on each map and comparing them to those computed in the field. The latitudes and/or longitudes are corrected if the field-computed locations are displaced by more than 300 m from the locations marked on the field maps. The computer program for generating the Universal Transverse Mercator map projection overlays is described by Cheadle.[13] A final visual check of sample locations is made by overlaying the computer-produced location plots on the field maps used.[14]

## II. ANALYTICAL PROCEDURES

### Uranium Determination in Water Samples by Fluorometry

Under normal procedures, the 25-ml water vial is vigorously shaken and duplicate 0.20-ml aliquots of water are transferred to platinum dishes. The aliquots are evaporated under heat lamps and a 0.4-g pellet of 2% LiF-98% NaF flux is added to each dish. The pellets are first preheated under lamps, then fused over special propane burners. After each pellet/sample cools, it is excited with ultraviolet radiation in the fluorometer and the fluorescence is read and recorded. The uranium concentrations are determined by using a computer routine which compares the fluorescence from each pellet with those from other pellets, run at the same time, containing uranium-standard solutions and

blanks. The uranium concentration of the sample, as given in the appropriate data listings, is then the average obtained from the duplicate aliquots. The lower limit of detection for each aliquot by the normal procedure is 0.2 ppb; however, in some areas many samples have uranium concentrations below this. Consequently, when a sample run by the normal procedure is determined to have <0.2 ppb uranium, it is routinely reanalyzed using new duplicate aliquots that have been put through an additional evaporative concentration step that provides a 10X concentration factor. This additional procedure, using the same basic fluorometric method, reduces the lower limit of detection of uranium in natural waters to 0.02 ppb. When a uranium concentration lower than 0.02 ppb is found in an aliquot, it is arbitrarily assigned a value of 0.01 ppb. If the uranium value given in the data listings is 0.01 ppb, both aliquots had uranium concentrations below the detection limit. Whether concentrated or not (which can be determined from the uranium level in the listing), the fluorometric analytical precision is ~30% at the lower detection limit, ~20% at one order of magnitude above this, and ~10% at two or more orders of magnitude above the lower detection limit. The basic fluorometric method used is described in detail by Hues and others.[15]

Uranium Determination in Water Samples by Delayed-Neutron Counting (DNC)

Only waters with >10 ppb uranium (as determined by fluorometry at the LASL, where this is the upper limit of detection without recalibration) or those with impurities that cause interference with uranium-induced fluorescence are analyzed using DNC. Samples are received in 41-ml or 25-ml vials (used exclusively in some of the early work) and are transferred to clean, labeled, 41-ml rabbits before being analyzed. Each water sample is weighed, and its weight (less that of the rabbit) and location number are recorded. The rabbits are then loaded into a 25-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked and four standards are run for calibration. The transfer clip is installed on the pneumatic feed line and the samples are cycled through the system (typically, a 60-s irradiation, 30-s delay, and 60-s count cycle is used). The uranium concentration is automatically measured, converted to ppb, and entered into a computer data base. The lower detection limit for uranium in water by DNC as used at the LASL is 0.2 ppb. The statistical error of this method is ~20% at a uranium concentration of 1 ppb, ~6% at 10 ppb, and <4% at 40 ppb or greater. Statistical treatments of uranium concentrations obtained from the same suites of samples analyzed both by fluorometry and DNC have shown that there is no significant difference between the results of the two analytical methods as used at the LASL.[16] This analytical comparability is rechecked periodically.

Elemental Determinations in Water Samples by Plasma-Source Emission Spectrography

The concentrations of Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Ti, and Zn in water samples are determined at the LASL by inductively coupled plasma-source emission spectrography. To allow complete system equilibration, the inductively coupled plasma and photomultiplier tubes are powered for at least 1 h prior to making any analyses. Argon coolant and sample carrier gas lines are adjusted and calibrated using a zinc standard. The sample solution is taken up from its container, nebulized, and injected into the plasma source at a rate of $9.2 \times 10^{-9}$ $m^3/s$. After the computer determines that the photomultiplier tubes have stabilized, a 15-s exposure of the resultant spectrum is made on a direct-reading spectrograph. The resulting signals are read directly

into a computer, and converted automatically to give the elemental concentrations. Corrections for interfering elements are made simultaneously by computer. When high (off-scale) results are obtained, the computer calls for the insertion of a filter between the plasma source and the spectrograph, repeats the readings, and then converts and stores the corrected elemental concentrations. The lower analytical detection limits generally achieved are (in ppb): Ca (20), Co (55), Cr (25), Cu (4), Fe (25), Mg (2), Mn (3), Mo (25), Ni (25), Pb (200), Ti (4), and Zn (50). When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. Analytical precision for the elements as determined in water by this method is ~50% at the lower detection limit, improving to ~10% one order of magnitude above the lower detection limit and to ~5% two orders of magnitude above the detection limit. Early investigations of the inductively coupled plasma-source used in these determinations are reported by Apel and others.[17]

Uranium Determination in Sediment Samples by DNC

All sediment samples are analyzed for total uranium by DNC. A split of each sample (dried and sieved as described) is transferred to a clean 4-ml rabbit, weighed (less the tare), and its weight recorded along with the appropriate location number. These rabbits are then loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and standards are run for calibration. The transfer clip is installed and the samples are cycled through the system (typically, a 20-s irradiation, 10-s delay, and 30-s count cycle is used). The uranium concentration is automatically measured, converted to ppm, and entered into the data base. The lower limit of detection of this method is 20 ppb (not ppm) uranium, below the range of uranium concentrations in natural sediment samples. Above the 1 ppm level, the uranium values in sediment measured by DNC at the LASL have a one-sigma error of less than 4%. The specially designed delayed-neutron detectors, built by the LASL and used for these analyses, are described by Balestrini and others.[18]

Elemental Determinations in Sediment Samples by Energy Dispersive X-Ray Fluorescence

A computer-controlled, energy-dispersive x-ray fluorescence system is used to determine Ag, Bi, Cd, Cu, Nb, Ni, Pb, Sn, and W in sediments. The system consists of an automatic 20-position sample changer, a lithium-drifted silicon detector, a pulsed molybdenum transmission-target x-ray tube, a multichannel analyzer, and a minicomputer. The sediment samples are prepared for analysis by grinding 6 g of each minus 100-mesh sample to a minus 325-mesh powder. A computer program positions the 6-g samples in the x-ray beam, unfolds overlapping peaks, determines peak intensities for each element, and calculates the ratio of the intensity of each peak to that of the molybdenum $K_\alpha$ Compton peak. Concentrations of each element are then calculated using equations obtained by analyzing prepared standards. Detection limits are: 5 ppm for Ag, Bi, Cd, and Pb; 10 ppm for Cu and Sn; 15 ppm for Ni and W; and 20 ppm for Nb. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. The relative standard deviation is 10% or less at the 100-ppm level and 20% or less at the 20-ppm level. Details of the method and equipment used are described by Hansel and Martell.[19]

## Beryllium and Lithium Determinations in Sediment Samples by Arc-Source Emission Spectrography

A 7.5-mg portion of the minus 325-mesh sample that has already been analyzed by x-ray fluorescence is mixed with 7.5 mg of a buffer consisting of one part graphite and one part $SiO_2$. The sample/buffer mixture is placed into a graphite electrode that is used as the anode of a dc arc having a short circuit current of 17A. A 60-s exposure of the resulting spectrum is made on a direct-reading spectrograph. Photomultiplier tubes are used to measure the second order 313.0-nm line of Be, the first order 670.7- and 610.3-nm lines of Li, the background spectra near these lines, and the 327.6-nm line of V. The 670.7-nm Li line is used for Li concentrations up to 30 ppm and the 610.3-nm line of Li is used for concentrations above 30 ppm. The V line is used to correct the Be value when V is above 1000 ppm. The signals from the photomultiplier tubes are read by a digital voltmeter and are processed by a desktop calculator. The results are simultaneously printed on paper and written on cassette tape for later transmission to a computer data file. The elemental concentrations of Be and Li are determined from the spectra, based on the results of previously run calibration standards. The lower detection limit for both elements is 1 ppm. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. Precision at the lower detection limit is $\sim$50% for both and improves to $\sim$25% at one order of magnitude above the lower limit.

## Elemental Determinations in Sediment Samples by Neutron Activation Analysis (NAA)

The same 4-ml sediment splits used for the uranium analysis of sediment samples by DNC are entered into the NAA sequence. The concentrations of 31 additional elements are determined by this procedure. The NAA timing sequence used at the LASL for each sediment sample is: 20-s irradiation, 20-min and 40-s delay, 500-s $\gamma$-ray count for short-lived radionuclides, 96-s re-irradiation, 14-day delay, and finally a 1000-s $\gamma$-ray count for long-lived radionuclides. The $\gamma$-ray counting is done by lead-shielded Ge(Li) detectors; the 4096-channel $\gamma$-ray data are recorded and subsequently analyzed for each individual element by computer. The analytical data for each sample are automatically printed out along with the associated statistical errors. The lower detection limits for the various elements as reflected by the "less than" values (denoted by a minus sign in front of a concentration) in the data listings are the values for the individual elements at which the statistical counting error approaches 50%. Current "typical" lower detection limits for the elements determined by NAA are reported in Nunes and Weaver;[21] however, the actual detection limit for an element depends upon the composition of the sample and this limit may be higher or lower than the typical value. At concentration values one order of magnitude above the lower detection limits, the relative errors are generally less than 10%.

## APPENDIX IV-B

## EXPLANATION OF CODES USED IN DATA LISTINGS

### DOE SAMPLE NUMBER

STATE: A two-digit Federal Information Processing Standards (FIPS) code that designates the state from which each sample came. For the states being sampled by the LASL, the code numbers are:

| | | | |
|---|---|---|---|
| Alaska | = 02 | New Mexico | = 35 |
| Colorado | = 08 | Wyoming | = 56 |
| Montana | = 30 | | |

LATITUDE AND LONGITUDE: Sample location, in degrees and decimal degrees to four places. Although generally much better, locational accuracy cannot be guaranteed closer than about 300 m (1000 ft).

DOE LAB: A Department of Energy (DOE) one-digit identifier designating the DOE laboratory responsible for taking the samples and data shown in the listings, as well as providing the analyses of the uranium and other elemental concentrations, if any. The LASL is designated by the numeral 2.

SAMPLE TYPE: A two-digit identifier which specifically designates the pertinent properties defining the sample type to which the listed data relate. For explanation of the code used, refer to the attached "Key to Sample Types," in section C of this appendix.

REPLICATE: A three-digit sequential number assigned to indicate a multiple sample of a single sample type from a single location. The largest number in use indicates the most recent sample taken and there will always be all smaller sequential numbers representing earlier samples back to 0, which is the initial sample from any given location. Except in the case of special studies, there will be no replicate samples and this entry will therefore be a single zero.

### LASL SAMPLE LOCATION NUMBER AND FIELD DATA

LASL SAMPLE LOCATION NUMBER: A unique six-digit number permanently assigned by the LASL to every location sampled. For internal use, these numbers are assigned in blocks to the various areas individually treated and reported upon, and therefore serve to generally locate the samples within various areas for which the LASL is responsible as follows.

| Location Numbers | | State |
|---|---|---|
| 000 001 through 099 999 | = | New Mexico |
| 100 001 through 199 999 | = | Colorado |
| 200 001 through 299 999 | = | Wyoming |
| 300 001 through 399 999 | = | Montana |
| 400 001 and above | = | Alaska |

TIME SAMPLED: The DATE that the sample was taken, in terms of the number of the MONTH, followed by the DAY and finally the YEAR, separated by slashes, and then the TIME it was taken on that date to the nearest whole HOUR on a 24-hour clock.

AIR TEMPERATURE: The temperature that was measured in the shade at the time of sampling, to the nearest whole degree Celsius (°C).

WATER TEMPERATURE: The temperature that was measured in the sample water (in situ whenever possible) at the time of sampling, to the nearest one-tenth of a degree Celsius (0.5°C).

COMMENTS: A "C" in this column indicates that some secondary comment not included in the listing was recorded at the sample location. This information will be used by the LASL in evaluating the data, and if appropriate, it will be mentioned in the final report.

SPECIAL MEASUREMENTS: An "S" in this column indicates that one or more field measurements in addition to those listed were made at the sample location. A description of any special parameters measured and the measured value at each sample location will be included in the final HSSR survey report on the area.

pH: The pH, to the nearest one-tenth (0.1) of a pH unit, that was measured in the water at the sample location at the time of sampling.

CONDUCTIVITY: The conductivity, in μmho/cm, that was measured in the water at the sample location at the time of sampling.

SCINTILLOMETER: The equivalent uranium (eU), in ppm, as measured on a flat ground surface within 10 m of the sample location using a scintillometer fitted with a differential-gamma sampler (DGS). The effect of the DGS is to introduce a fixed geometry into the measurement and remove the background.

ROCK TYPE: The single digit in this column provides a general description of the dominant lithologic regime at or near the sample location, as given below.

| | |
|---|---|
| 1 = Sedimentary | 3 = Igneous |
| 2 = Metamorphic | 4 = Unknown |

ROCK COLOR: The single digit in this column provides an indication of the observed dominant color of local bedrock exposures at or near the sample location, as given below.

| | | |
|---|---|---|
| 1 = White/Buff | 4 = Pink/Red | 7 = Gray |
| 2 = Yellow | 5 = Green | 8 = Black |
| 3 = Orange | 6 = Brown | 9 = Other |

SEDIMENT TYPE: The single digit in this column provides a subjective evaluation of the dominant sediment type at the sample location, as given below.

| | | |
|---|---|---|
| 1 = Boulders | 4 = Sand | 7 = Other |
| 2 = Cobbles | 5 = Mud | |
| 3 = Gravel | 6 = Muck | |

SEDIMENT COLOR: The single digit in this column indicates the observed dominant color of the bottom sediment (stream channel, lake bed, etc.) at the sample location at the time of sampling, as given below.

| | | |
|---|---|---|
| 1 = White/Buff | 4 = Pink/Red | 7 = Gray |
| 2 = Yellow | 5 = Green | 8 = Black |
| 3 = Orange | 6 = Brown | 9 = Other |

WATER FLOW: The single digit in this column provides a subjective evaluation of the water movement at the sample location at the time of sampling, as given below.

| | | |
|---|---|---|
| 1 = Stagnant | 3 = Moderate | 5 = Torrent |
| 2 = Slow | 4 = Fast | |

WATER LEVEL: The single digit in this column provides a subjective estimate of water quantity at the time of sampling, relative to its usual condition at the sample location, as given below.

| | | |
|---|---|---|
| 1 = Dry | 3 = Normal | 5 = Flood |
| 2 = Low | 4 = High | |

WATER COLOR: The single digit in this column provides a subjective evaluation of suspended load in the sample water, as given below.

| | | |
|---|---|---|
| 1 = Clear | 3 = Cloudy | 5 = Algal |
| 2 = Murky | 4 = Muddy | 6 = Other |

STREAM CHANNEL: The single digit here gives a subjective evaluation of stream channel character at the sample location at the time of sampling, as given below.

| | | |
|---|---|---|
| 1 = Depositing | 2 = Eroding | 3 = Unknown |

VEGETATION TYPE: The single digit in this column provides a subjective evaluation of the dominant plant type in the vicinity of the sample location, as given below.

| | | |
|---|---|---|
| 1 = Conifers | 4 = Grass | 7 = Other |
| 2 = Deciduous | 5 = Moss | |
| 3 = Brush | 6 = Marsh | |

VEGETATION DENSITY: The single digit in this column provides a subjective estimate of the amount of plant cover in the vicinity of the sample location, as given below.

| | | |
|---|---|---|
| 1 = Barren | 3 = Moderate | 5 = Very Dense |
| 2 = Sparse | 4 = Dense | |

RELIEF: The single digit in this column provides a subjective evaluation of the topography within a few hundred meters of the sample location, as given below.

| | | |
|---|---|---|
| 1 = Flat | 3 = Gentle (15-60 m) | 5 = High (>300 m) |
| 2 = Low (<15 m) | 4 = Moderate (60-300 m) | 6 = Other |

WEATHER: The single digit in this column gives the observed climatic condition at the sample location at the time of sampling, as given below.

| | | |
|---|---|---|
| 1 = Clear | 3 = Overcast | 5 = Snowy |
| 2 = Partly cloudy | 4 = Rainy | 6 = Other |

OWNERSHIP: Not used.

CONTAMINANTS: The single digit here indicates known or suspected local factors likely to influence analytical results, as given below.

| | | |
|---|---|---|
| 1 = None | 4 = Industry | 7 = Urban |
| 2 = Mining | 5 = Sewage | 8 = Recreation |
| 3 = Agriculture | 6 = Power generation | 9 = Other |

WELL TYPE: If a well water sample, the single digit in this column provides a general description of the type of well from which the sample was taken, as given below.

| | | |
|---|---|---|
| 1 = Windmill-stock | 4 = Suction pump | 7 = Hand bail |
| 2 = Windmill-domestic | 5 = Jet pump | 8 = Unknown |
| 3 = Submersible pump | 6 = Large turbine | 9 = Other |

WELL DIAMETER: When shown, the one or two digits in this column give the measured or estimated inside diameter, in inches, of the well casing from which the water sample came.

WELL DEPTH: When shown, the one, two, or three digits in this column give the total drilled depth from the surface, in feet, of the well from which the sample came. Three 9s in this column indicates a well depth greater than 1000 ft.

WATER DEPTH: When shown, the one, two, or three digits in this column give the known depth, in feet, from the surface to the standing water in the well. A value of -1 in this column indicates a flowing artesian well.

URANIUM CONCENTRATION: The value given in this column is the analytically derived value of the total uranium concentration found in the water sample (in ppb) or in the sediment sample (in ppm). Those uranium concentrations in water that are shown with an asterisk were measured using the delayed-neutron counting method, while those without an asterisk were determined fluorometrically. The uranium analyses in water samples as determined by both of these methods at the LASL are directly comparable, as noted in section A of this appendix.

REMAINING ENTRIES: The data presented in the remaining entries of the listings utilize no codes as such and are described in the respective column headings. However, there are four conventions used throughout the listings of elemental concentrations: a) all concentrations in waters are reported in ppb; b) all concentrations in sediments are reported in ppm; c) concentrations "less than" the lower detection limit are denoted by a minus sign before this limit for the specific sample (except for fluorometrically determined uranium in waters, the convention for which is described in section A of this appendix); and d) a blank space in the data listings for any elemental concentration signifies that no analytical result was obtained for that element. The U/Th ratio given last in the data listing for each sediment sample is simply the uranium concentration found and reported for the sample divided by its thorium content. These ratios can often be useful, particularly in evaluation of the uranium data.[20]

## APPENDIX IV-C

## KEY TO SAMPLE TYPES

This numerical key provides the necessary tie between the specific type or form of each sample taken and each individual suite of field and laboratory data to which the sample relates. It defines the various sample types collected by the LASL in the DOE HSSR for uranium.

The two-digit key number assigned to each sample type designates three distinct properties of the samples taken. These properties are: (a) The general sample source (spring, stream, dry stream, etc.); (b) The sample medium (water or sediment); and (c) The treatment given the sample in the field or laboratory prior to its analysis by the LASL.

The key numbers are inserted in the sample type columns of the specially formatted DOE sample numbering system used in the data listings to positively identify the sample type for all LASL sample data submitted.

KEY NO. SOURCE / MEDIUM / TREATMENT

12 - Wet stream sediment sample dried at $\leq 100°C$ and sieved to -100 mesh through stainless steel sieves.

13 - Wet natural pond sediment sample dried at $\leq 100°C$ and sieved to -100 mesh through stainless steel sieves.

15 - Dry stream sediment sample dried at $\leq 100°C$ (if necessary) and sieved to -100 mesh through stainless steel sieves.

27 - Stream water sample acidified to a pH of $\leq 1$ with reagent-grade nitric acid ($HNO_3$).

29 - Natural pond or lake water sample acidified to a pH of $\leq 1$ with reagent-grade nitric acid ($HNO_3$).

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