EASTERN ATHABASCA REGIONAL MONITORING PROGRAM 2016/2017 COMMUNITY REPORT

Final Report

Prepared by:

Canada North Environmental Services
Saskatoon, Saskatchewan

Prepared for:

Government of Saskatchewan
Regina, Saskatchewan

Project No. 2490

November 2017

TABLE OF CONTENTS

LIST OF FIGURES ii

LIST OF TABLES iii

EXECUTIVE SUMMARY iv

1.0 INTRODUCTION 1
1.1 Background 1
1.1.1 Uranium Mining and Milling Operations in the Region 3
1.1.2 Communities in the Region 3
1.2 EARMP Community Program Objectives 3
1.3 Summary of EARMP Community Program Framework 5
1.3.1 Community Involvement 5
1.3.2 Communications Program in 2016/2017 6
1.3.3 Study Design and Objectives of the 2016/2017 Program 8
1.4 Report Structure 9

2.0 FISH CHEMISTRY 10

3.0 BERRY CHEMISTRY 13

4.0 MAMMAL CHEMISTRY 16

5.0 SUMMARY 19

6.0 LITERATURE CITED 20

Appendix A Detailed Data Analysis

Appendix B Raw Data

LIST OF FIGURES

Figure 1 Study location.

Figure 2 Study area overview.

Figure 3 Fish chemistry sampling areas, 2011 to 2016.

Figure 4 Berry chemistry sampling areas, 2011 to 2016.

Figure 5 Moose and caribou chemistry sampling areas, 2011 to 2017.

LIST OF TABLES

Table 1 Chemicals assessed for the EARMP community program.

Table 2 Summary results of the 2016 EARMP community fish chemistry program.

Table 3 Summary results of the 2016 EARMP community berry chemistry program.

Table 4 Summary results of the 2016/2017 EARMP community mammal chemistry program.

EXECUTIVE SUMMARY

The Eastern Athabasca Regional Monitoring Program (EARMP) was established in 2011 under the Province of Saskatchewan's Boreal Watershed Initiative. The EARMP community program was established to monitor the safety of traditionally harvested country foods by collecting and testing representative water, fish, berry, and mammal samples from the seven communities located in the region. Harvesting and consuming traditional country foods (berries, fish, and wild game) are an important part of the culture in northern Saskatchewan and contribute to an overall healthy lifestyle through physical activity and healthy eating. The intent of the EARMP community program is to provide confidence to community members that their traditional country foods are safe to eat today and will remain safe for future generations.

From September 2016 to March 2017 samples of lake trout, lake whitefish, blueberry, bog cranberry, barren-ground caribou meat, moose meat, and caribou and moose organs (heart, liver, and kidney) were collected from the EARMP communities. All samples were collected independently by, or with the aid of, community members from Black Lake Denesuline Nation, Camsell Portage, Fond du Lac Denesuline Nation, Stony Rapids, Uranium City, Wollaston Lake, and Hatchet Lake Denesuline Nation. Levels of chemicals in country foods submitted for testing were low and were similar to baseline and regional levels. Cadmium levels in moose meat from Uranium City and mercury levels in lake trout from Fond du Lac, which have been identified as elevated during previous monitoring years, were found to be low and within the regional reference range.

All country foods assessed in 2016/2017 from each community are considered safe to eat.

1.0 INTRODUCTION

1.1 Background

The Eastern Athabasca Regional Monitoring Program (EARMP) is a joint, long-term environmental monitoring program established in 2011 under the Province of Saskatchewan's Boreal Watershed Initiative. The program is supported by contributions from several stakeholders including Cameco Corporation, AREVA Resources Canada Inc., and the Saskatchewan Ministry of Environment. One of the primary goals of the Boreal Watershed Initiative is to assess the ecological integrity of Saskatchewan's northern watersheds in order to address potential environmental concerns and to identify sustainable management practices in the region. The EARMP was designed to identify potential cumulative effects downstream of uranium mining and milling operations in the Eastern Athabasca region of northern Saskatchewan (Figure 1).

Cumulative effects are defined as impacts on the environment that result from the incremental impact of an action when added to other past, present, and foreseeable future actions (Joint Panel 1992). Cumulative effects might occur when projects overlap spatially, such as when two watersheds exposed to uranium mining and milling activities converge. Cumulative effects may also occur temporally if contaminants are emitted into the environment over extended periods of time. The EARMP was developed to establish baseline conditions and facilitate the examination of spatial and temporal changes over the long term.

Extensive amounts of environmental monitoring are completed near each uranium mining and milling operation in northern Saskatchewan, which are regulated by both federal and provincial agencies including Environment and Climate Change Canada, the Canadian Nuclear Safety Commission, and the Saskatchewan Ministry of Environment. In addition, a community sampling occurred through the Athabasca Working Group (AWG) Environmental Monitoring Program for 17 years (2000-2017) and is now being managed under the new Ya'Thi Néné Collaboration Agreement. The EARMP was designed to complement other monitoring programs and allows a more comprehensive evaluation of potential cumulative effects from industry in northern Saskatchewan.

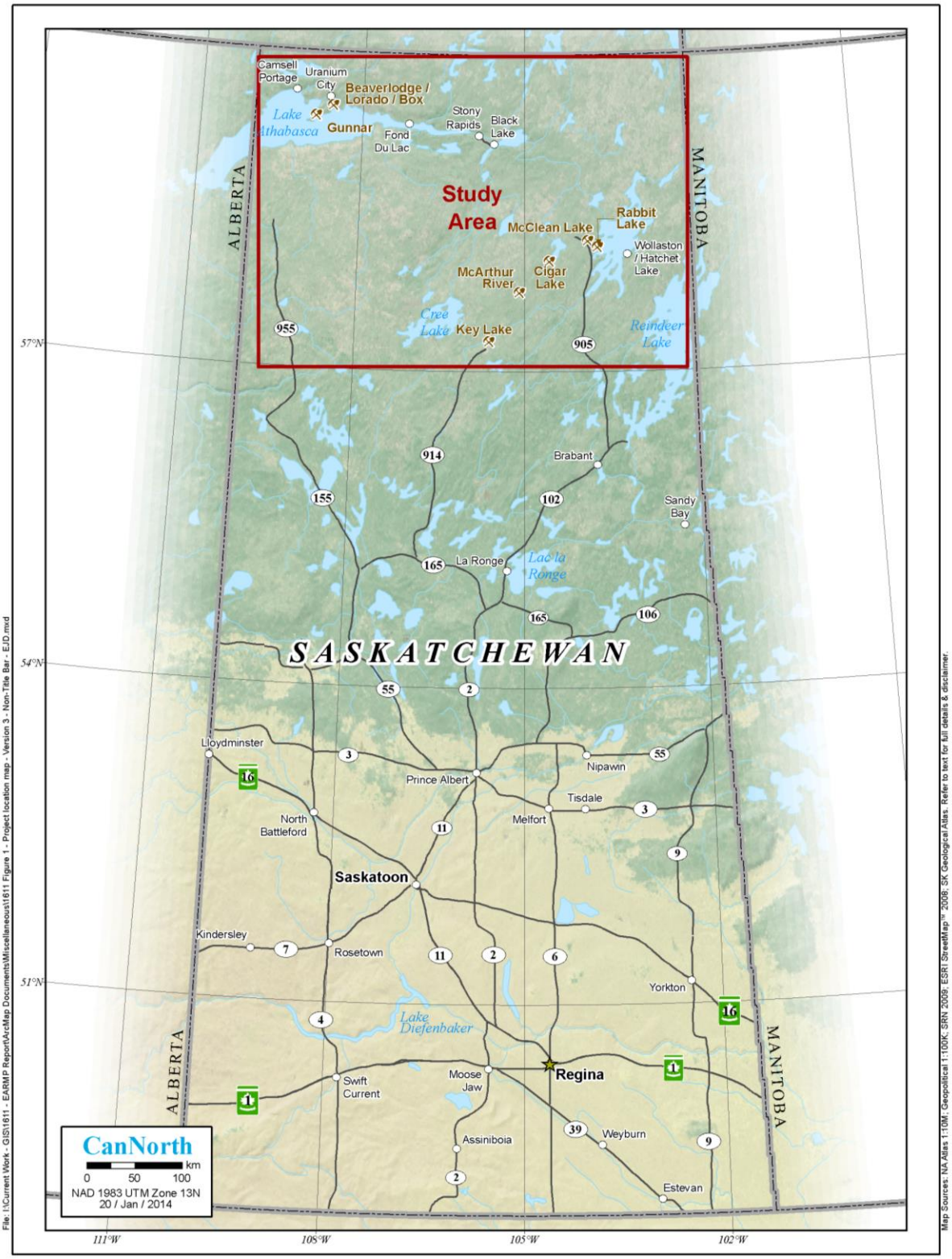


Figure 1

Study location.

The EARMP framework includes two programs: a community program and a technical program. The technical program was established to monitor potential long-term changes in the aquatic environment far far-field downstream of uranium mining and milling operations in the Eastern Athabasca region. Information from the technical program is presented in a separate report. The community program was established to monitor the safety of traditionally harvested country foods by collecting and testing water, fish, berry, and mammal samples from the seven communities located in the Athabasca region. The objective of this document is to present an update of the results from the sampling program completed in 2016/2017.

1.1.1 Uranium Mining and Milling Operations in the Region

There are five active uranium mines in the Eastern Athabasca region. These include Key Lake, McArthur River, McClean Lake, Rabbit Lake, and Cigar Lake. In addition, other decommissioned and/or abandoned uranium mine sites are located in the region and near the community of Uranium City. The locations of these uranium mining and milling operations are presented in Figure 2. Extensive monitoring in the local study areas generally includes testing the air, soil, vegetation, water, sediment, benthic invertebrates, and fish (Arcadis 2015; AREVA 2016; CanNorth 2016; EcoMetrix 2015a, 2015b). These sampling programs are designed specifically for each mine and are a requirement under the provincial operating licence and the Canadian Nuclear Safety Commissions (CNSC) license condition handbook.

1.1.2 Communities in the Region

There are seven communities in the region, including Black Lake Denesuline First Nation, Fond du Lac Denesuline First Nation, Stony Rapids, Wollaston Lake, Hatchet Lake Denesuline First Nation, Camsell Portage, and Uranium City (Figure 2). For the EARMP community program, the communities of Wollaston Lake and Hatchet Lake Denesuline First Nation were assessed together, creating a total of six community study areas.

1.2 EARMP Community Program Objectives

The EARMP community program was developed to address potential concerns about the safety of country foods that community members routinely consume. Country foods can

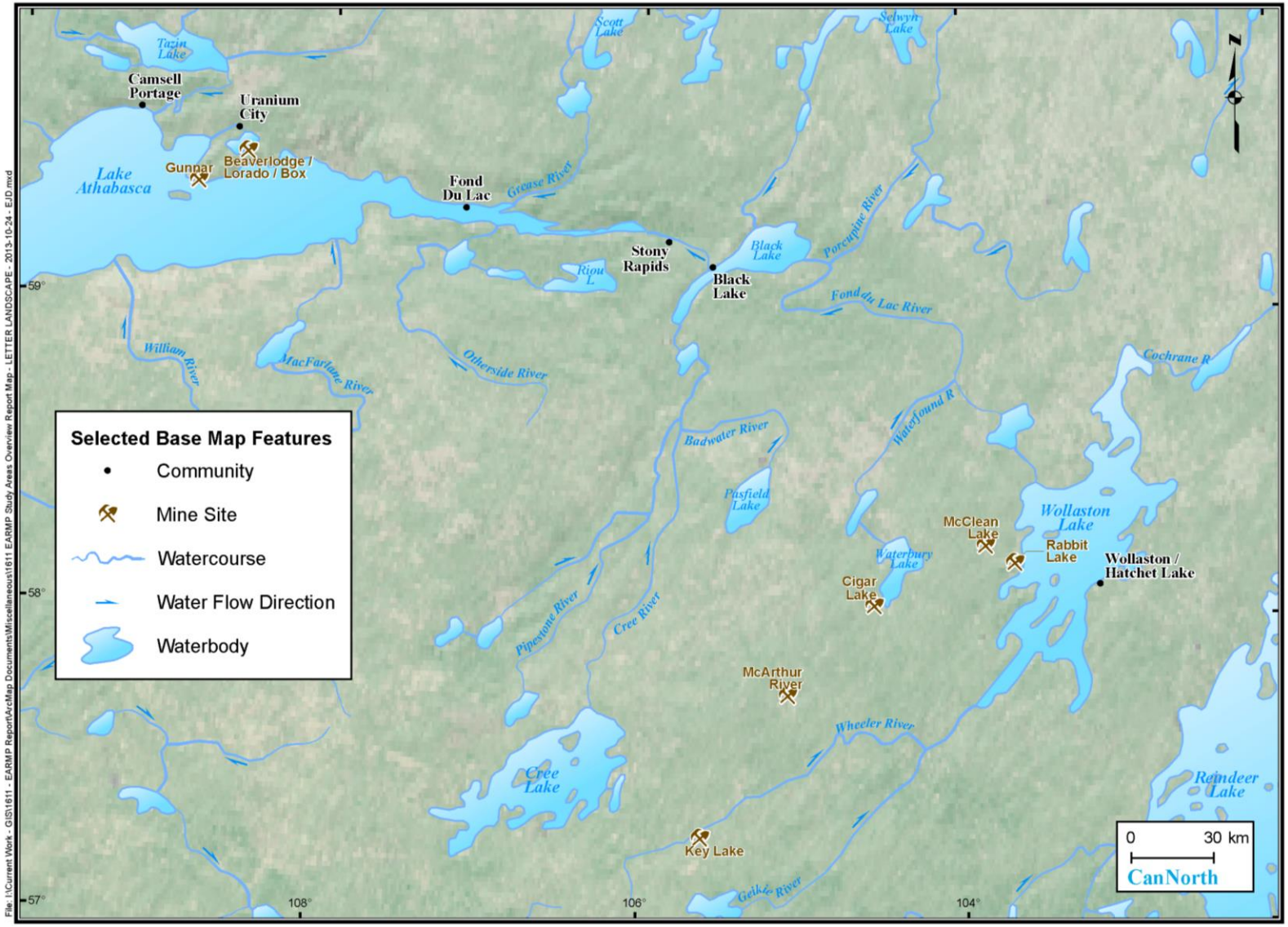


Figure 2
Study area overview.

be defined as "traditional native foods that are obtained from the land, such as wild game, birds, fish, and berries by local residents during subsistence hunting and gathering" (Peace Athabasca Delta Group Project 1972). Country food studies in Hatchet Lake and Uranium City have established that fish, berries, and wild game are important food sources for communities located in northern Saskatchewan (CanNorth 1999, 2011). In this way, the EARMP community program provides important information to the residents of northern Saskatchewan.

The EARMP community monitoring program objectives are to:

1. determine the safety of traditionally harvested food for local consumption;
2. establish long-term monitoring at community sampling areas to assess variability and potential changes over time;
3. build mutually beneficial relationships as well as engage and involve community members in the gathering of information for the program; and
4. communicate monitoring results to community members and other stakeholders through reporting, public media, and meetings.

1.3 Summary of EARMP Community Program Framework

1.3.1 Community Involvement

The community monitoring program relies on the participation of community members for the selection of sampling locations and sample collection. Prior to commencing the fieldwork in the summer of 2011, notices describing a new environmental monitoring program were distributed to the band chief/mayor and council for circulation and discussion within each community. The purpose of the notices was to invite community members to select representatives from each community to carry out the country foods sampling for the EARMP. Community members were selected from each community and provided training in the collection and shipping procedures for the EARMP community sampling program.

The collection of country food samples is carried out in one of two ways: either independently by the community member or in conjunction with a representative of CanNorth, who is responsible for the management of the program. The sampling locations within each community were established during the field training session when

physical variables such as water depth, fishing locations, and berry patches could be determined.

1.3.2 Communications Program in 2016/2017

Communicating the yearly monitoring results is one of the goals of the EARMP community program. The results of the program are shared with the communities in the region and the public through a number of different methods and are summarized below.

EARMP Promotions

The EARMP website continues to be the primary promotional strategy used to inform community members on upcoming events and reports that are available. The website is routinely updated with any new event pictures, information on community visits, sampling programs, and maps. The website (www.earmp.ca) also contains a wealth of information about the project objectives, contact information, downloads and data files, as well as links to other websites such as the stakeholders. Promotional materials including hats, toques, fish hooks, coffee mugs, and water bottles are often shipped to communities for fish derbies and community events.

Additional promotional materials include free EARMP calendars in English, Cree, and Dene that are shipped to the Athabasca communities and other northern communities once a year and circulated through the band offices, community health centers, post offices, and schools. Ads are also posted in Opportunity North magazine throughout the year, which is distributed throughout the north and includes information about the program as well as contact information for those who have any questions or concerns. In early 2017, EARMP participated in an interview on MBC radio to discuss the 2016 results. MBC radio reaches over 70 communities across northern Saskatchewan.

Northern Saskatchewan Environmental Quality Committee (NSEQC)

As an advisory committee of the provincial government, the NSEQC gives northerners a voice on environmental, socio-economic, and Occupational Health and Safety (OH&S) issues in regards to the northern Saskatchewan uranium industry (from exploration to decommissioning). Although not a regulatory body, the NSEQC is a well informed and well respected group which assists in the free flow of information and understanding

among communities, industry, and government. The committee is composed of trusted and knowledgeable people each nominated by his/her community, is a bridge between northerners, government, and the uranium mining industry. The main responsibility of NSEQC representatives is to bring community issues, concerns, and recommendations on the uranium industry to this forum and in turn to bring information, decisions, and directions back to their communities.

The EARMP community program results are generally presented to the NSEQC members yearly (2012 to 2015) and provide an opportunity to facilitate the communication of the results of the program and to answer any questions, concerns, or suggestions of community members in relation to the monitoring program. In 2016 EARMP did not present to the NSEQC as it was awaiting approval by the Government of Saskatchewan as the five-year term concluded with a review of the program.

Moving forward EARMP is committed to engaging with the NSEQC membership and will be attending the EQC meeting in November of 2017 in order to update community representatives on the results of the program.

Science Ambassador Program

The Science Ambassador Program pairs senior university science, engineering, and health science students with rural and remote Aboriginal community schools, to support creative and culturally-relevant science teaching and learning. Science Ambassadors work alongside teachers to present hands-on science activities, facilitate class discussions, and mentor students exploring possibilities for careers and continuing science education.

In the past three years (2014-2016), the EARMP has sponsored the communities with schools in the Athabasca region. With the permission of the local school principal/teacher and working with the U of S Science Ambassador Program, a science lesson was developed around the environmental monitoring that currently takes place across northern Saskatchewan. In 2016, EARMP continued to work with the program by working with elders in three communities providing lake trout for classroom fish dissections. In the fall of 2016 EARMP sponsored the purchase of digital field microscopes for three Athabasca Basin communities involved in the Science Ambassador Program (for more details on the program visit www.artsandscience.usask.ca/scienceoutreach/).

1.3.3 Study Design and Objectives of the 2016/2017 Program

The specific objective of the 2016/2017 EARMP community monitoring program is to continue to monitor the chemical characteristics of traditionally harvested foods by testing samples gathered by community members in the fall of 2016 and winter of 2017 and comparing the results to the baseline established during the previous sampling years to assess potential changes over time.

In 2016/2017, updates are available for fish, berries, and ungulate chemistry from the communities. As discussed above, sample selection and collection was completed directly by, or with the assistance of, community residents. Although a full suite of chemical parameters were measured for each sample, this report focused on a smaller list of chemicals, which have been identified as the chemicals of most interest for uranium operations by regulatory agencies, environmental assessments, as well as other monitoring programs (see Table 1 below).

Table 1

Chemicals assessed for the EARMP community program.

Chemicals	
Aluminum	Molybdenum
Ammonia*	Nickel
Arsenic	Polonium-210
Cadmium	Radium-226
Cobalt	Selenium
Copper	Thorium-230
Iron	Uranium
Lead	Vanadium
Lead-210	Zinc
Mercury**	

*For water only.
**Mercury is not associated with uranium mining and milling operations (refer to Appendix A for more information).

Chemistry results from the country foods tested in 2016/2017 were compared to available guidelines, to levels of chemicals measured in country foods collected throughout northern Saskatchewan during other monitoring programs (i.e., regional reference range), and to levels of chemicals measured as part of the baseline data collection years from 2011 and 2012. Comparing the results of the EARMP community program to available guidelines and regional reference data is valuable because although most foods contain detectable levels of environmental chemicals, they are not necessarily a concern to human

health. A full description of the EARMP community monitoring framework is provided in CanNorth 2015.

1.4 Report Structure

The EARMP community report is subdivided into six major sections including appendices:

1.0 Introduction
2.0 Fish Chemistry
3.0 Berry Chemistry
4.0 Mammal Chemistry
5.0 Summary

Appendix A presents the results of detailed data analyses completed on the 2016/2017 community data, while the raw data are provided in Appendix B.

2.0 FISH CHEMISTRY

Fish chemistry samples were collected by community members using overnight gill nets set at waterbodies near their communities or by angling (Figure 3). Fish collected from each community in 2016 included lake trout and lake whitefish. In 2016, three samples from each species in each of the six study areas were targeted. In previous year's northern pike from Uranium City and Camsell Portage were also collected.

All fish collected for chemistry near the communities were frozen and shipped to CanNorth offices in Saskatoon where they were identified to species, measured (fork length) to the nearest 1 mm, weighed to the nearest 20 g, and sexed. A visual external health assessment was completed for each fish and the stomach contents were described. Ageing structures (otoliths[1]) were removed and submitted to North Shore Environmental to determine the age of the fish. The fish flesh was then submitted to SRC for chemical analysis. The detailed data analyses are presented in Appendix A and are summarized below. The raw fish chemistry data are provided in Appendix B.

The levels of chemicals in the community fish samples from 2016 were often so low that the laboratory could not measure them. This was the case for cadmium, molybdenum, uranium, vanadium, lead-210, radium-226, and thorium-230 in over half of the lake whitefish and lake trout samples assessed in each of the communities. Aluminum in lake whitefish and nickel and polonium-210 in lake trout were also below levels the laboratory could measure in over half of the samples from each community.

In 2016, mercury levels in lake trout were within the regional reference range in all sampling areas. During previous sampling years mercury levels have been slightly higher than the regional reference range, and in the case of Fond du Lac average levels were slightly higher than levels where some restrictions on eating are normally recommended. This was largely because of the age and size class of the lake trout sampled, as older and thus commonly larger fish accumulate more mercury over time. The average level of cobalt was slightly higher than the regional reference range in the 2016 lake trout samples from Fond du Lac. However, the levels are still considered low since they are so close to the lowest level the laboratory can measure.

[1]Otoliths are calcified structures that fish use for balance and orientation. They can be used to age some species of fish.

No other concerns were noted in the 2016 fish chemistry data and lake trout and lake whitefish are considered safe to eat in each of the EARMP communities. A summary of the EARMP community program fish chemistry results is presented in Table 2.

Table 2

Summary results of the 2016 EARMP community fish chemistry program.

Community	Within Regional Reference Range	Similar to Baseline Levels	Safe to Eat
Black Lake	✓	✓	Yes
Camsell Portage	✓	✓	Yes
Fond du Lac	✓, 2 exceptions	✓, 1 exception	Yes
Stony Rapids	✓	✓	Yes
Uranium City	✓	✓	Yes
Wollaston Lake/ Hatchet Lake	✓	✓	Yes

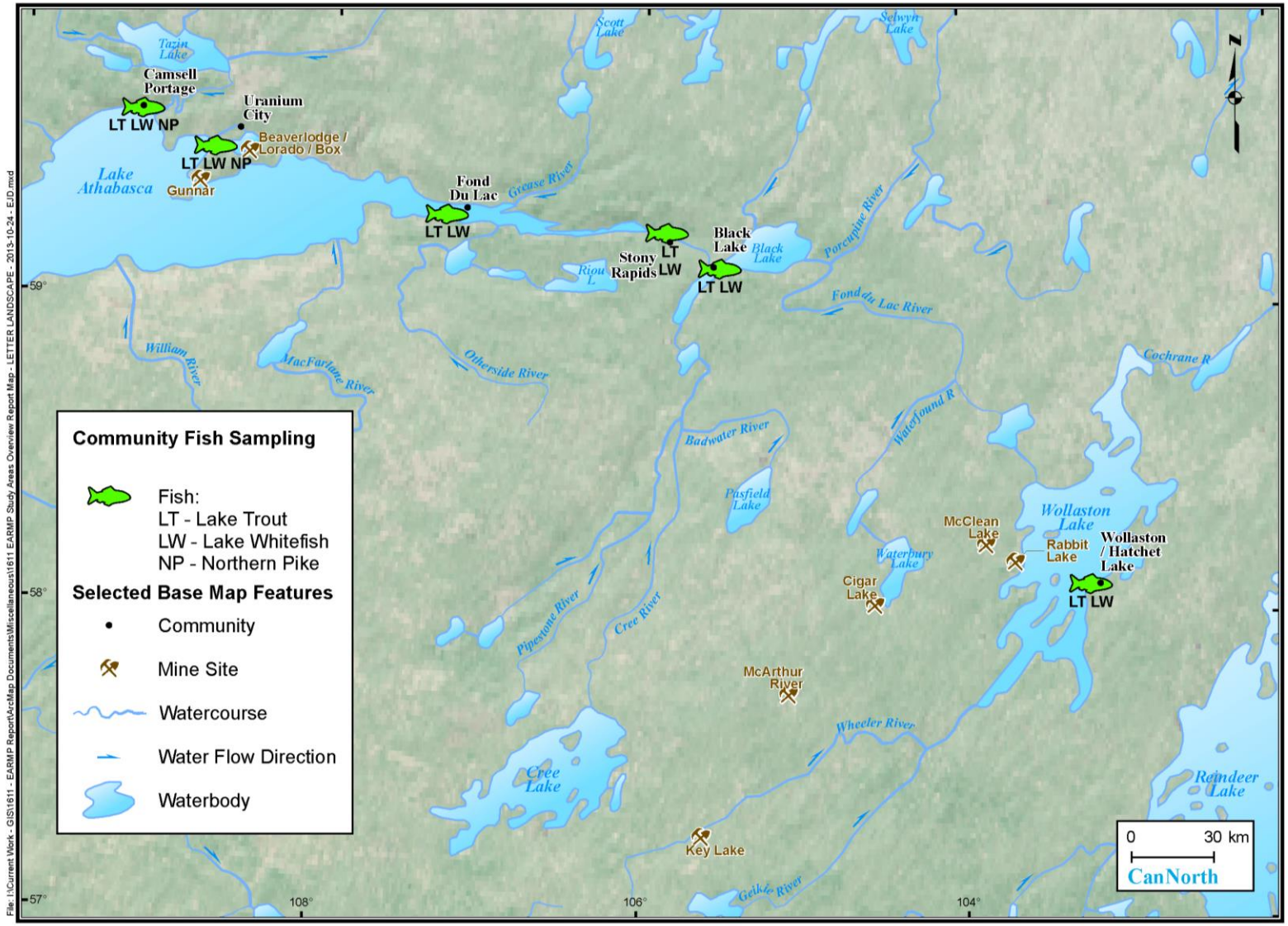


Figure 3
Fish chemistry sampling areas, 2011 to 2016.

3.0 BERRY CHEMISTRY

Near each study community, berry samples were hand-collected by local community members independently or with the aid of CanNorth personnel. Sampling was conducted at three locations typically used for berry collection by community members (Figure 4). Depending on accessibility and on current local abundance, the type of berry selected for collection was either blueberry or bog cranberry. In total, 12 blueberry and 6 bog cranberry samples were collected for the 2016 program. All samples were double-bagged and frozen until submission to SRC for chemical analysis.

A summary of the EARMP community program berry chemistry results is presented in Table 3. The detailed data analyses are presented in Appendix A and are summarized below. The raw chemistry data for berries are provided in Appendix B.

Table 3

Summary results of the 2016 EARMP community berry chemistry program.

Community	Within the Regional Reference Range	Similar to Baseline Levels	Safe to Eat
Black Lake	✓	✓	Yes
Camsell Portage	✓	✓	Yes
Fond du Lac	✓, 2 exceptions	✓, 2 exceptions	Yes
Stony Rapids	✓	✓	Yes
Uranium City	✓, 1 exception	✓, 1 exception	Yes
Wollaston Lake/ Hatchet Lake	✓	✓	Yes

Levels of chemicals in the blueberries and cranberries were often too low for the laboratory to measure. This included levels of arsenic, cadmium selenium, uranium, vanadium, and thorium-230, which were below measurable levels in more than half of the samples from most communities.

For those chemicals that were at levels that the laboratory could measure, most were within the regional reference range and similar to baseline levels. Notably, levels of lead in blueberries from Stony Rapids decreased from 2015 to levels below the regional reference range in 2016. Molybdenum and nickel levels in blueberry samples from Fond du Lac and molybdenum in cranberry samples from Uranium City were higher than the regional reference range and baseline concentrations in 2016. However, the levels observed were within the range of values observed in berries from grocery stores across

Canada (HC 2011). Levels will continue to be monitored to ensure they are not increasing over time.

Overall, blueberries and bog cranberries are considered safe to eat in all of the EARMP communities.

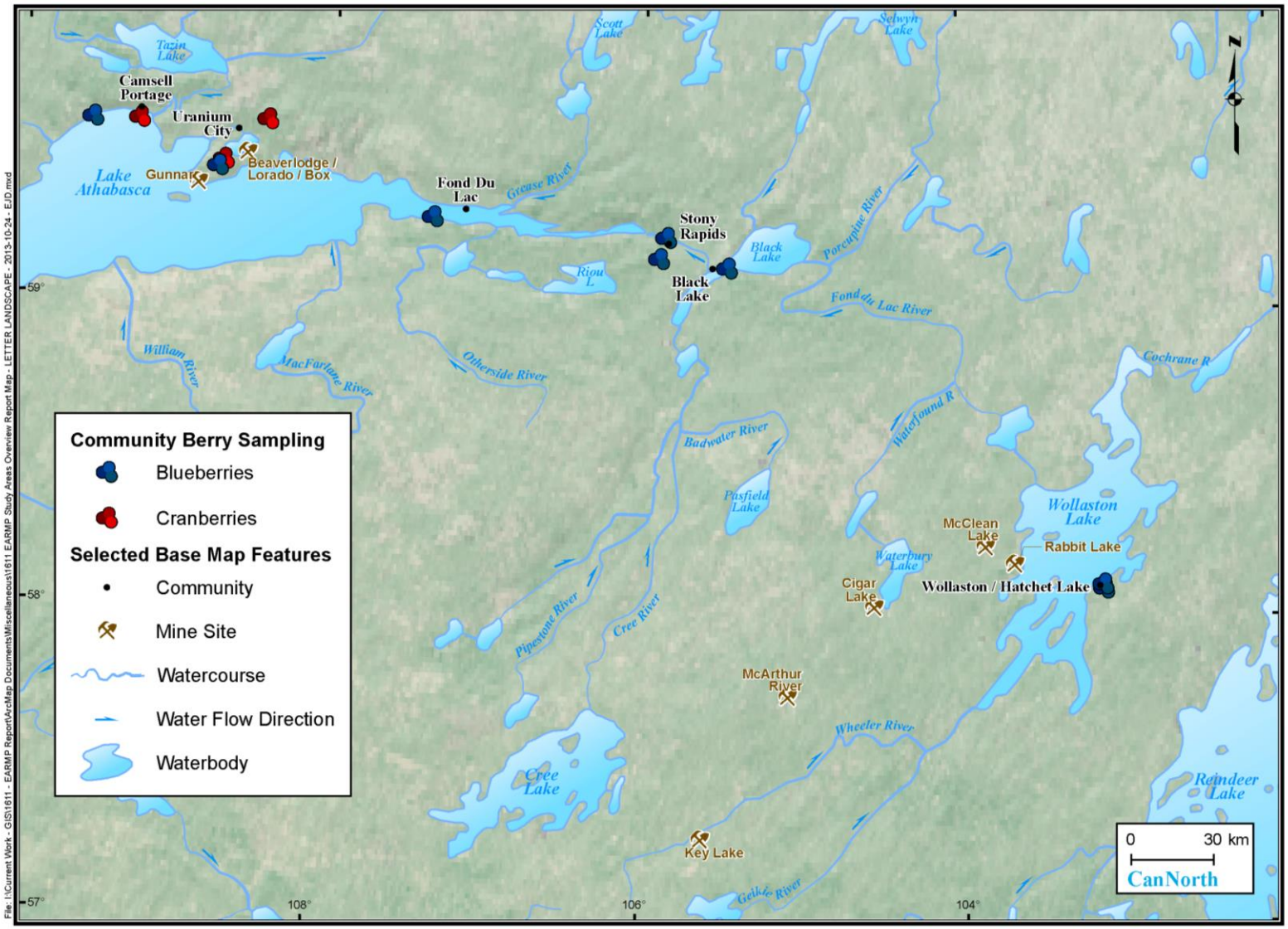


Figure 4
Berry chemistry sampling areas, 2011 to 2016.

4.0 MAMMAL CHEMISTRY

Mammal samples were collected by local community members during their routine hunting activities. Two main species commonly hunted and consumed in northern Saskatchewan were targeted; barren-ground caribou and moose. Moose samples were collected near the communities of Uranium City and Camsell Portage (Figure 5). Although barren-ground caribou samples were collected from most communities, it should be noted that several communities hunt in the same general area (Figure 5) but hunting locations do vary from year to year and species availability.

Between January and March 2017, two barren-ground caribou flesh samples from each of Black Lake, Fond du Lac, and Wollaston Lake/Hatchet Lake were submitted. Two moose from Camsell Portage, and one moose from each of Fond du Lac, Stony Rapids, and Uranium City were also submitted in the fall of 2016. In addition, organ samples (heart, liver, and kidney) were retained from some of the moose and caribou as requested by the communities. This included:

- caribou heart from Fond du Lac and Black Lake;
- caribou liver from Fond du Lac and Wollaston Lake;
- caribou kidney from Black Lake;
- moose liver and kidney from Uranium City; and
- moose kidney from Stony Rapids.

Once samples were received from the communities they were submitted by CanNorth to SRC for chemical analysis.

A summary of the EARMP community program mammal chemistry results is presented in Table 4. The detailed data analyses are presented in Appendix A and are summarized below. The raw mammal chemistry data are provided in Appendix B. The focus of the discussion below will be on flesh samples. The organ data will be used alongside the flesh data in an update to the Human Health Risk Assessment during the next monitoring year in 2018.

The levels of certain chemicals were often too low for the laboratory to measure. In barren-ground caribou meat, levels of aluminum, molybdenum, nickel, uranium, vanadium, lead-210, radium-226, and thorium-230 were too low for the laboratory to

measure in more than half of the samples from each community. In moose meat, arsenic, molybdenum, uranium, vanadium, lead-210, radium-226, and thorium-230 were too low to measure in more than half the samples from each community.

Of the chemicals with levels that the laboratory could measure, all levels were within the regional reference range for both the caribou and moose meat in 2016/2017. This included moose meat samples from Uranium City, which had higher levels of cadmium in the last two monitoring phases.

Overall, moose and caribou meat are considered safe to eat in all of the EARMP communities.

Table 4

Summary results of the 2016/2017 EARMP community mammal flesh chemistry program.

Community	Within the Regional Reference Range	Similar to Baseline Assessment	Safe to Eat
Black Lake	✓	✓	Yes
Camsell Portage	✓	✓	Yes
Fond du Lac	✓	✓	Yes
Stony Rapids	✓	✓	Yes
Uranium City	✓	✓	Yes
Wollaston Lake/Hatchet Lake	✓	✓	Yes

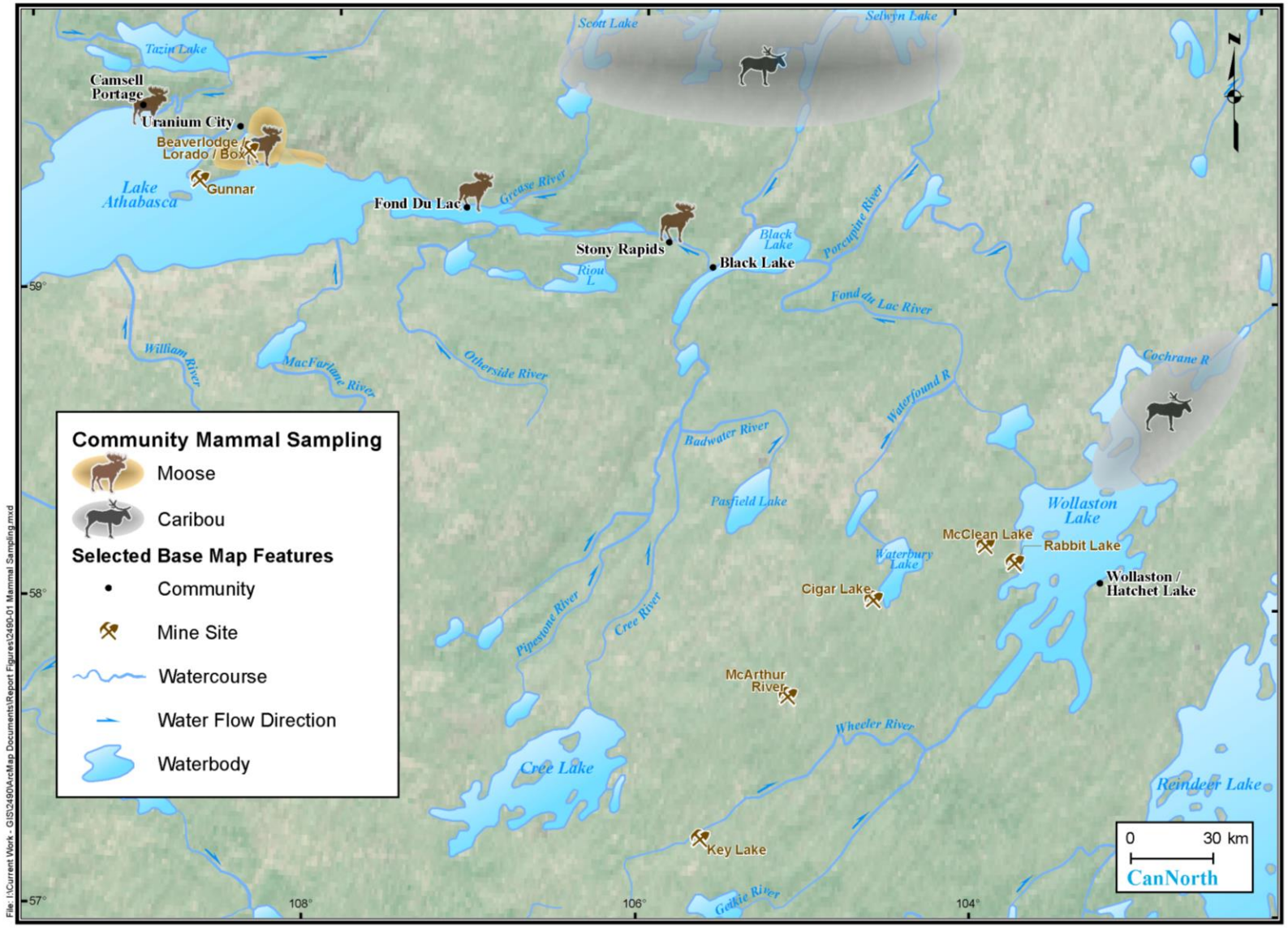


Figure 5
Moose and caribou chemistry sampling areas, 2011 to 2017.

5.0 SUMMARY

The 2016 sampling program took place between September 2016 and March 2017 and included sampling country foods (lake trout/lake whitefish, blueberries/cranberries, and moose/caribou) from the six Athabasca communities. The levels of chemicals were generally found to be low in all of the samples. Cadmium levels in moose meat from Uranium City and mercury levels in lake trout from Fond du Lac, which have been identified as elevated during previous monitoring years, were found to be low and within the regional reference range in 2016. All country foods assessed in 2016 from each community are considered safe to eat.

6.0 LITERATURE CITED

Arcadis Canada Inc. (Arcadis). 2015. Rabbit Lake Operation Environmental Performance Report 2010 to 2014. Prepared for Cameco Corporation, Saskatoon, Saskatchewan.

AREVA Resources Canada Inc. (AREVA). 2016. McClean Lake Operation Technical Information Document Environmental Performance. Volume 1 of 2 – Environmental Monitoring, May.

Canada North Environmental Services (CanNorth). 1999. Hatchet Lake dietary study. Prepared for the Atomic Energy Control Board, Ottawa, Ontario.

Canada North Environmental Services (CanNorth). 2011. Country foods study Uranium City, Saskatchewan. Year 1. Prepared for Cameco Corporation, Saskatoon, Saskatchewan.

Canada North Environmental Services (CanNorth). 2015. Eastern Athabasca Regional Monitoring Program 2014 community report. Prepared for the Government of Saskatchewan, Regina, Saskatchewan.

Canada North Environmental Services (CanNorth). 2016. Cigar Lake Operation Environmental Performance Report 2011 to 2015. Prepared for Cameco Corporation, Saskatoon, Saskatchewan.

EcoMetrix Incorporated (EcoMetrix). 2015a. Key Lake Operation Environment Performance Report 2010 to 2014. Prepared for Cameco Corporation, Saskatoon, Saskatchewan.

EcoMetrix Incorporated (EcoMetrix). 2015b. McArthur River Operation Environment Performance Report 2010 to 2014. Prepared for Cameco Corporation, Saskatoon, Saskatchewan.

Health Canada. 2011. Total Diet Study – concentration of contaminants & other chemicals in food composites. Website: http://www.hc-sc.gc.ca/fn-an/surveill/total-diet/concentration/index-eng.php. Accessed July 2017.

Joint Panel. 1992. Assessing cumulative effects of Saskatchewan uranium mines development. Prepared for Joint Federal/Provincial Panel on uranium mining in northern Saskatchewan.

Peace Athabasca Delta Project Group. 1972. The Peace-Athabasca Delta - A Canadian resource, summary report. Edmonton: Queen's Printer, Province of Alberta.

APPENDICES

LIST OF APPENDICES

Appendix A Detailed Data Analysis

Appendix B Raw Data

APPENDIX A

DETAILED DATA ANALYSIS

APPENDIX A: DETAILED DATA ANALYSIS

1.0 FISH CHEMISTRY

To evaluate the EARMP community fish chemistry data, concentrations of the reduced chemical list were compared to:

1. available guidelines,
2. regional reference data; and
3. previous monitoring phases.

Lake trout and lake whitefish samples were collected from each community in 2016. Three samples of each species were collected from each community. A summary of fish descriptive statistics (length, weight, and age) is provided in Appendix A, Figure 1 for lake trout and Appendix A, Figure 2 for lake whitefish. Summaries of available chemical concentrations measured in regional reference data, baseline data, and the 2014 to 2016 EARMP community data are presented in Appendix A, Table 1. Data were graphed if >50% of the concentrations for a certain chemical were above the laboratory reported detection limit (RDL) in at least one community (Appendix A, Figure 3 and Appendix A, Figure 4). The raw fish chemistry results are presented in Appendix B, Table 1.

Chemical concentrations in the community fish samples from 2016 were often so low that the laboratory could not measure the level. This was the case for cadmium, molybdenum, uranium, vanadium, lead-210, radium-226, and thorium-230 in over half of the lake whitefish and lake trout samples assessed in each of the communities. In addition, aluminum in lake whitefish and nickel and polonium-210 in lake trout were below levels the laboratory could measure in over half of the samples from each community.

Average arsenic concentrations fall within the updated regional reference range in lake trout from all communities, but slightly higher than the regional reference range in lake whitefish from most of the communities during at least one of the monitoring years (Appendix A, Figure 4). It is noted that overall, the 2016 arsenic levels were lower or comparable to those measured during the baseline monitoring years from which a human health risk assessment indicated the fish were safe to eat. Average cobalt concentrations marginally exceeded the regional reference range in the 2016 lake trout samples from

Fond du Lac. However, concentrations are considered low as values remain near the laboratory reported detection limit.

Overall, the levels of chemicals assessed in lake trout and lake whitefish are considered low and not a concern.

2.0 BERRY CHEMISTRY

To evaluate the EARMP community berry chemistry data, concentrations of the reduced chemical list were compared to:

1. regional reference data;
2. previous monitoring phases; and
3. available literature including supermarket values

Summaries of available chemical concentrations measured in regional reference data, baseline data, and the 2016 EARMP community data are presented in Appendix A, Table 2 for blueberries and Appendix A, Table 3 for bog cranberry. Data were graphed if >50% of the concentrations for a certain chemical were above the RDL in at least one community (Appendix A, Figure 5 and Appendix A, Figure 6). Detailed data are presented in Appendix B, Table 2 and Appendix B, Table 3.

Levels of chemicals in the blueberries and cranberries were often too low for the laboratory to measure. This included levels of arsenic, cadmium selenium, uranium, vanadium, and thorium-230, which were below measurable levels in more than half of the samples from most communities. Notably, levels of lead in blueberries from Stony Rapids decreased from 2015 (0.1 ± 0.1 µg/g) to levels below the regional reference range in 2016 (0.03 ± 0.03 µg/g; Appendix A, Figure 5).

Chemicals that measured above the regional reference range in some of the communities included molybdenum and nickel. Molybdenum levels in blueberry samples from Fond du Lac (Appendix A, Figure 5) and cranberry samples from Uranium City (Appendix A, Figure 6) were higher than the regional reference range and baseline concentrations in 2016. However, the levels observed remain within the range of values available for supermarket berries including blueberries, strawberries, and raspberries (0.051 µg/g to 3.06 µg/g; HC 2011). Similarly, nickel levels in blueberry samples from Fond du Lac

(Appendix A, Figure 5) were higher than the regional reference range and baseline concentrations in 2016, but within the range of values available for supermarket berries (0.0374 µg/g to 0.677 µg/g; HC 2011). Levels of chemicals will continue to be monitored to ensure they are not increasing over time.

Overall, blueberries and bog cranberries are considered safe to eat in all of the EARMP communities.

3.0 MAMMAL CHEMISTRY

To evaluate the EARMP community barren-ground caribou and moose chemistry data, concentrations of the reduced chemical list were compared to:

1. regional reference data; and
2. previous monitoring phases.

Summaries of available caribou and moose chemical concentrations measured in regional reference data, baseline data, and the 2016/2017 EARMP community data are presented in Appendix A, Table 4 for caribou and Appendix A, Table for moose. It is noted that mammals are collected throughout the fall and winter season, thus the sampling year spans from late 2016 (moose) to early 2017 (caribou). Data were graphed if >50% of the concentrations for a certain chemical were above the RDL in at least one community (Appendix A, Figure 7 and Appendix A, Figure 8). The raw mammal chemistry results are presented in Appendix B, Tables 3 to 7.

Concentrations of chemicals that were too low for the laboratory to measure varied only slightly between the barren-ground caribou and moose flesh samples. In barren-ground caribou flesh, levels of aluminum, molybdenum, nickel, uranium, vanadium, lead-210, radium-226, and thorium-230 were below RDLs in more than half of the samples in Black Lake, Fond du Lac, and Wollaston Lake. In moose flesh, arsenic, molybdenum, uranium, vanadium, lead-210, radium-226, and thorium-230 were below RDLs in more than half of the samples from each community.

Concentrations of all chemicals assessed were within the regional reference range for both caribou and moose flesh samples assessed in 2016/2017. This includes moose flesh

samples from Uranium City, which had elevated levels of cadmium in the last two monitoring phases.

No additional snowshoe hare were submitted in 2016/2017 (Appendix A, Table); however, caribou and moose heart, kidney, and liver samples were submitted by community members for analysis. Generally speaking, heavy metals follow a predictable pattern in mammals with the highest metal concentrations in kidney, less in the liver, and lowest in muscle tissue, and levels increase with the age of the animal (Gamberg 2005). Therefore, as was expected, the liver and kidney samples collected on average have higher levels of chemicals than the flesh samples. As community members are known to eat snowshoe hare and ungulate heart, kidney, and liver, this information will be included the next Human Health Risk Assessment update for the program.

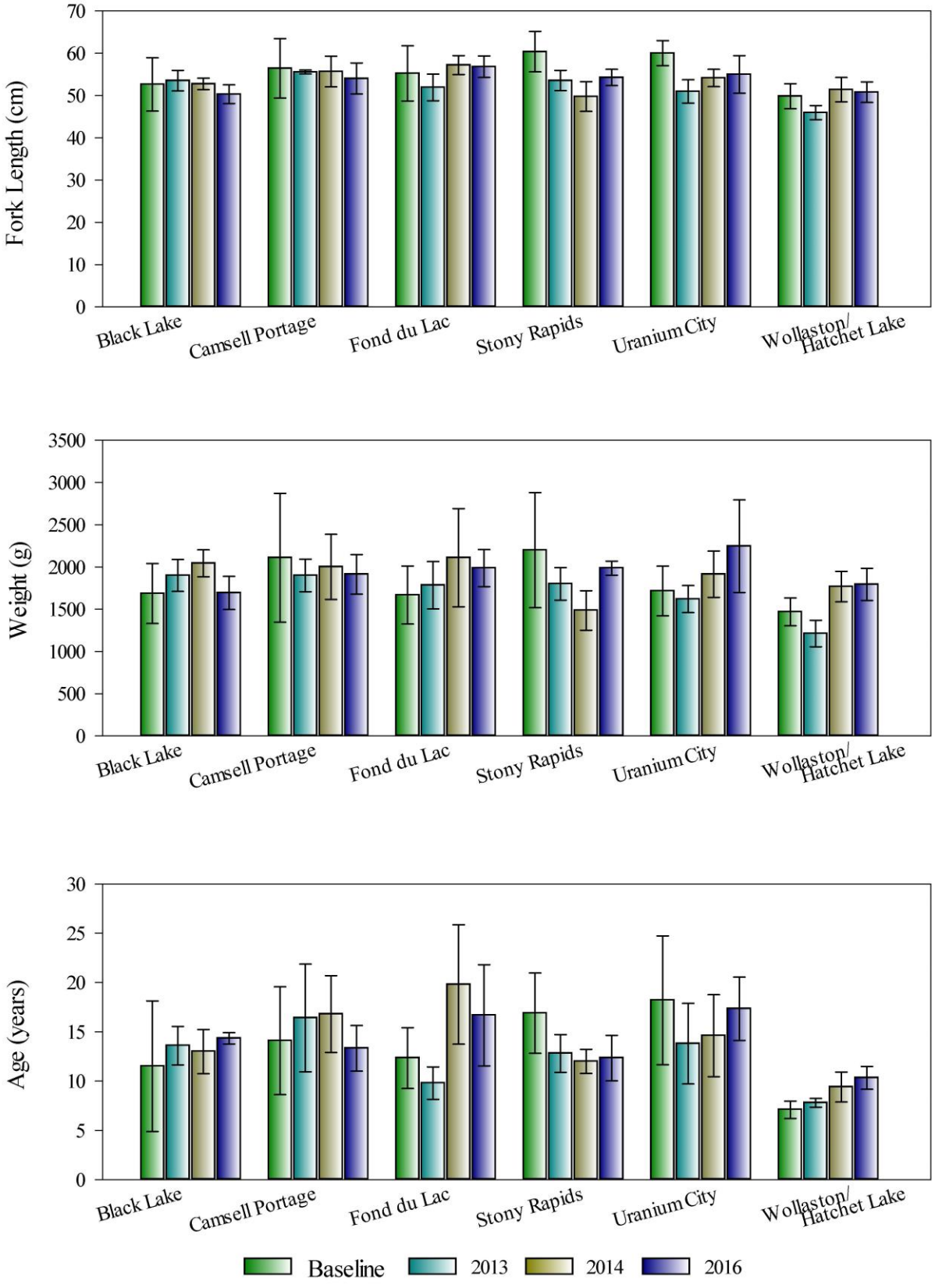
4.0 LITERATURE CITED

Gamberg, M. 2005. Contaminants in Yukon moose and caribou — 2004. Gamberg Consulting. Whitehorse, Yukon.

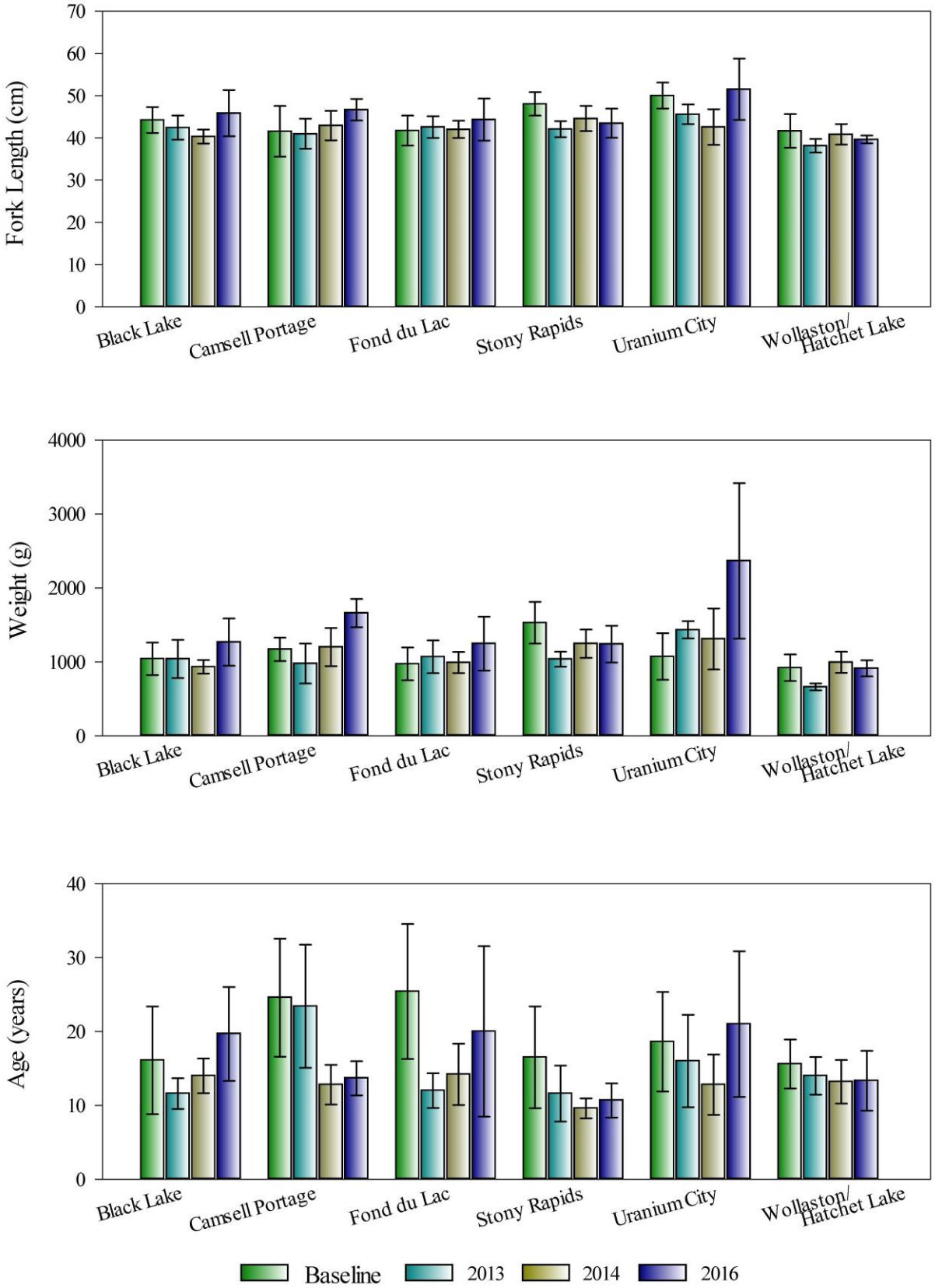
Health Canada. 2011. Total Diet Study – concentration of contaminants & other chemicals in food composites. Website: http://www.hc-sc.gc.ca/fn-an/surveill/total-diet/concentration/index-eng.php. Accessed July 2017.

LIST OF FIGURES

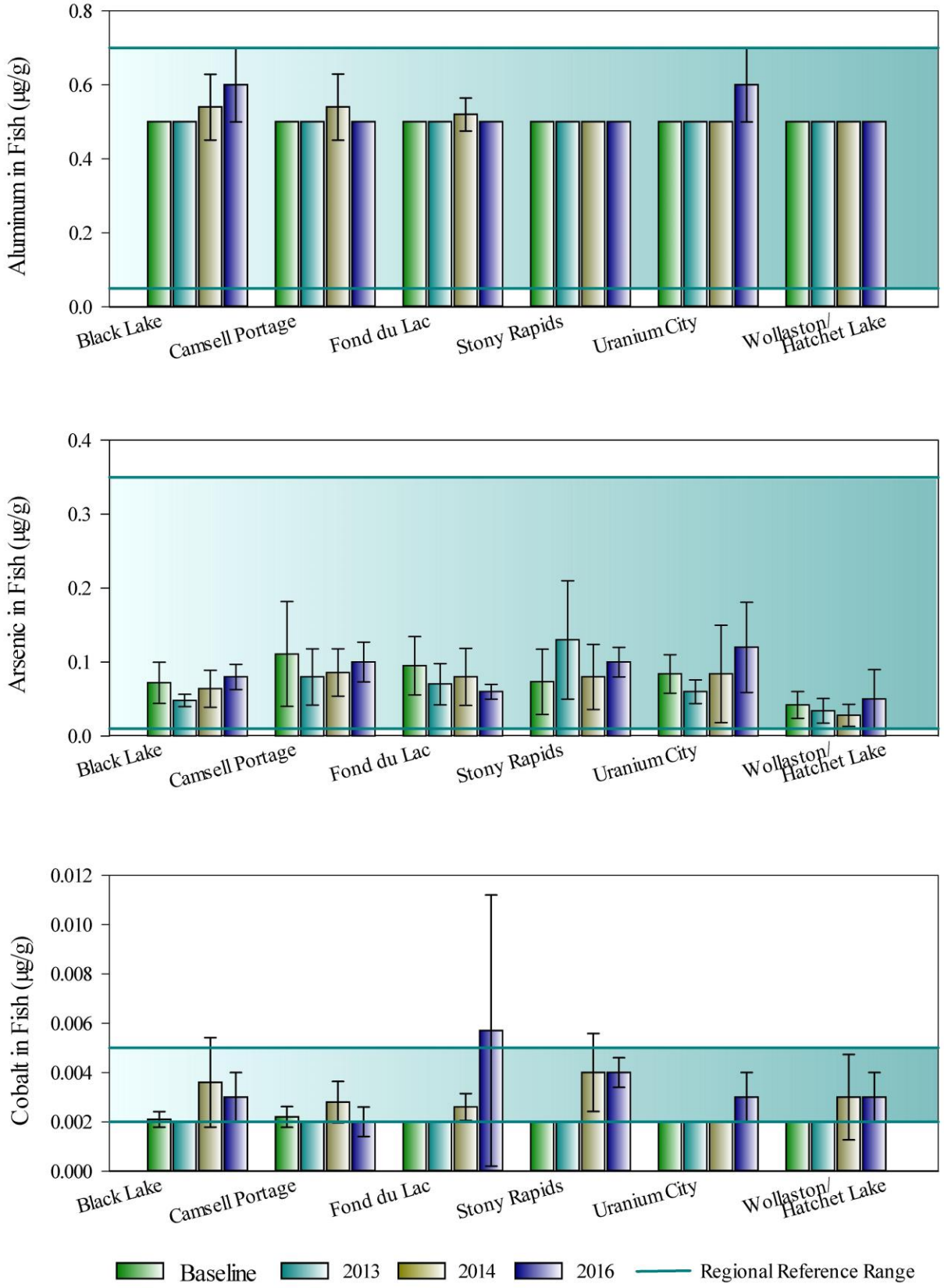
Appendix A, Figure 1	Lake trout length, weight, and age, 2011 to 2016.
Appendix A, Figure 2	Lake whitefish length, weight, and age, 2011 to 2016.
Appendix A, Figure 3	Chemicals in lake trout from the EARMP community study area, 2011 to 2016.
Appendix A, Figure 4	Chemicals in lake whitefish from the EARMP community study area, 2011 to 2016.
Appendix A, Figure 5	Chemicals in blueberries from the EARMP community study area, 2011 to 2016
Appendix A, Figure 6	Chemicals in cranberries from the EARMP community study area, 2011 to 2016.
Appendix A, Figure 7	Chemicals in barren-ground caribou from the EARMP community study area, 2011 to 2017.
Appendix A, Figure 8	Chemicals in moose from the EARMP community study area, 2011 to 2016.



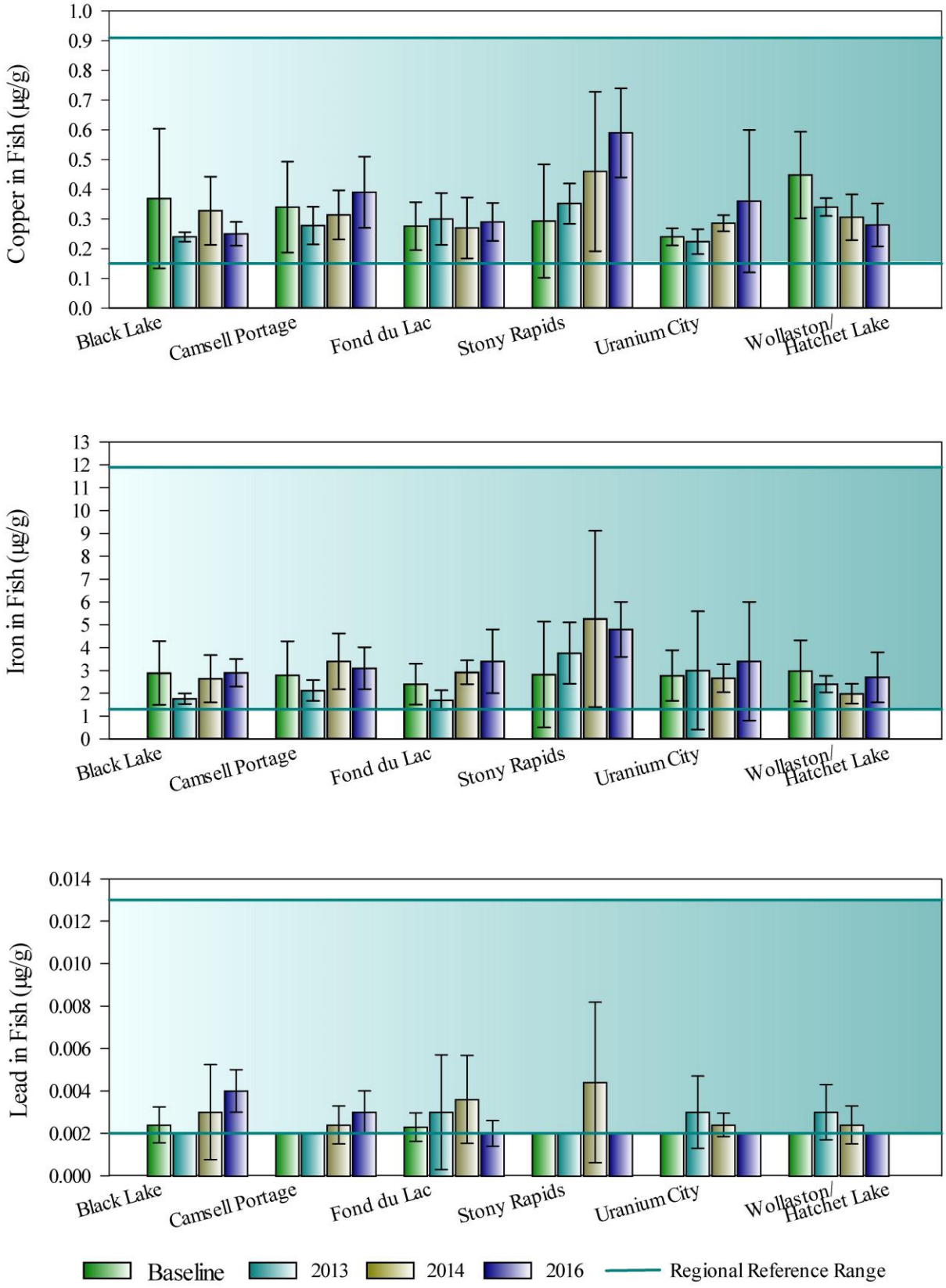
Appendix A, Figure 1
Lake trout length, weight, and age, 2011 to 2016.



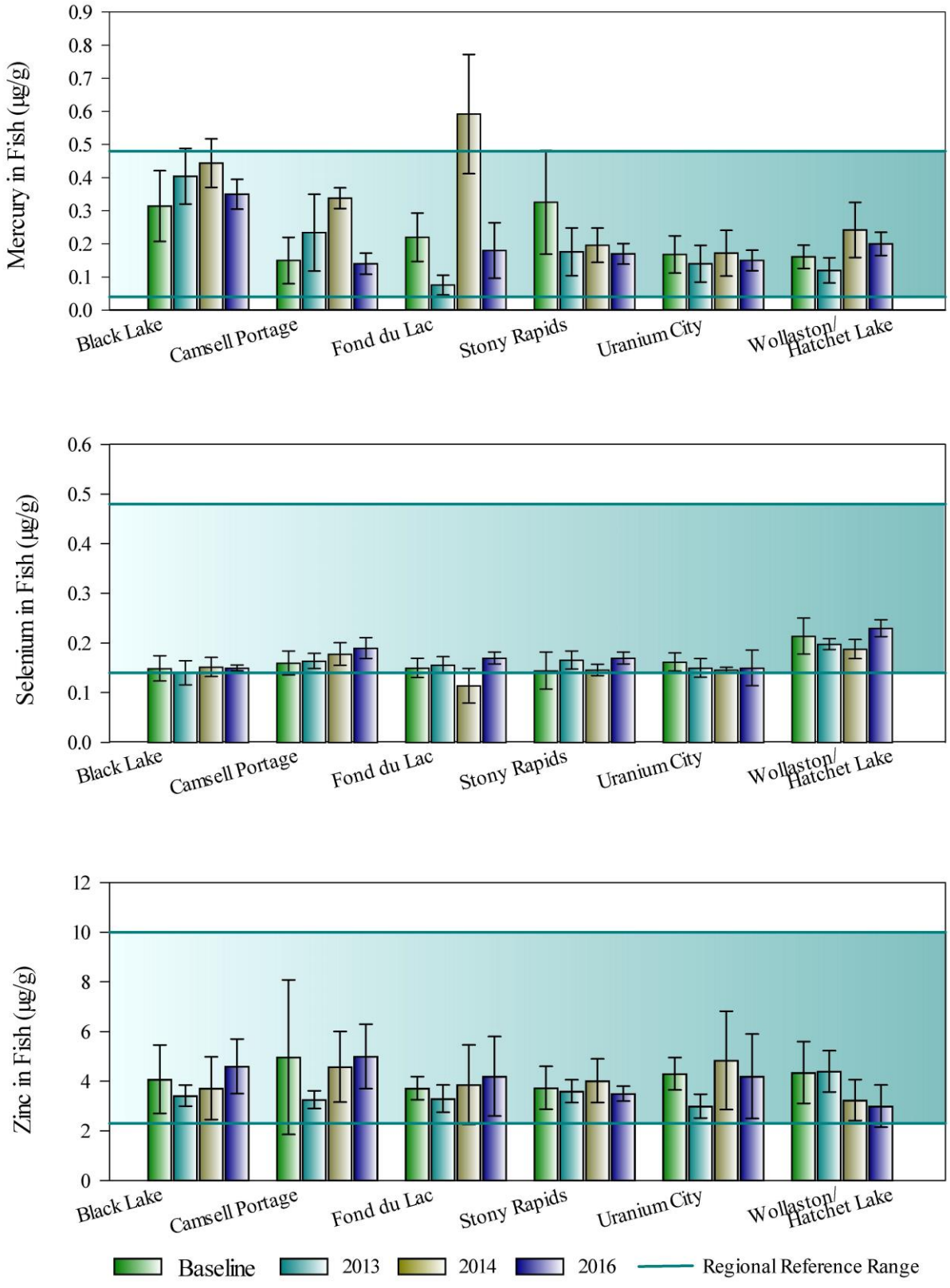
Appendix A, Figure 2
Lake whitefish length, weight, and age, 2011 to 2016.



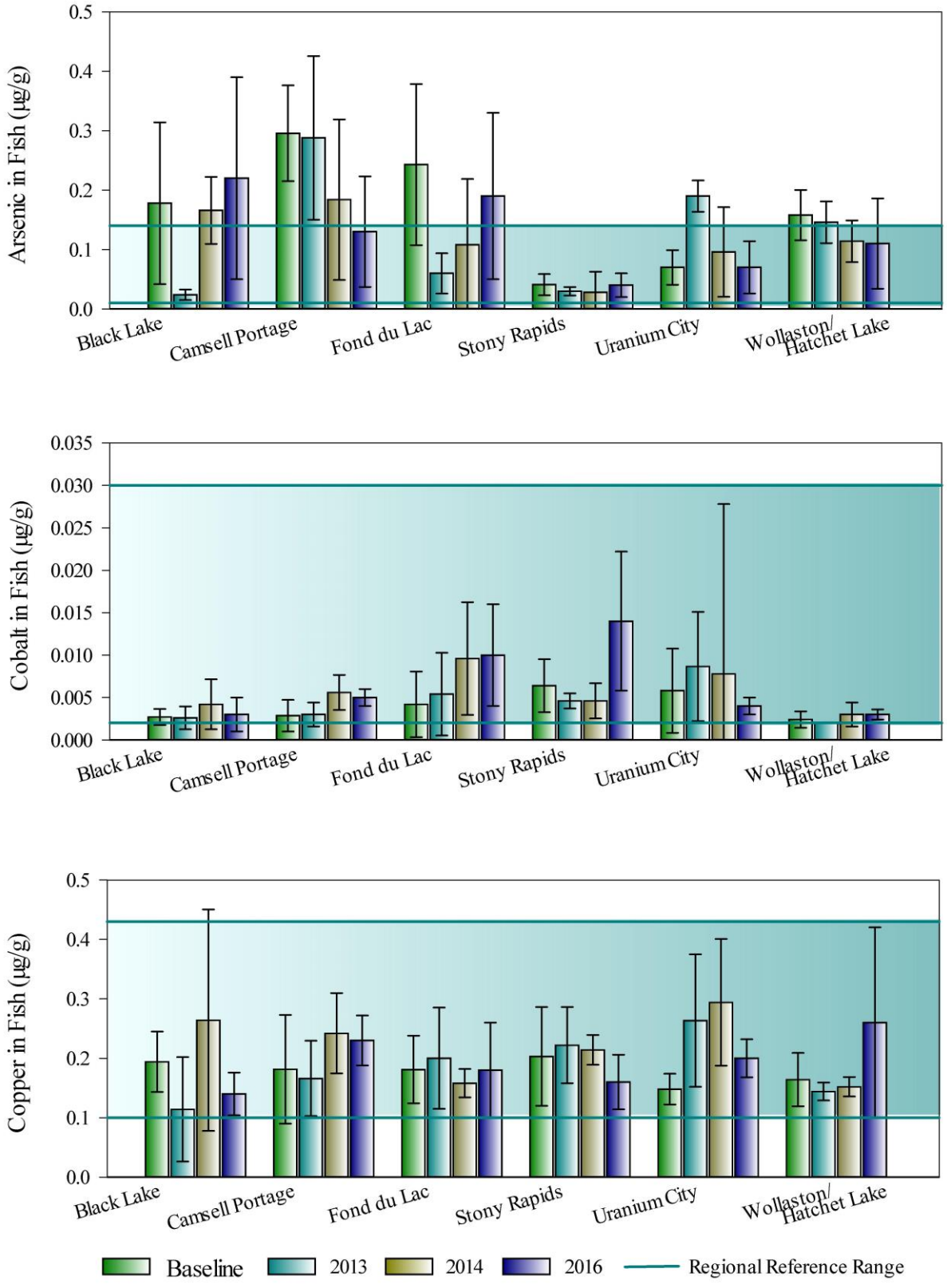
Appendix A, Figure 3
Chemicals in lake trout from the EARMP community study area, 2011 to 2016.



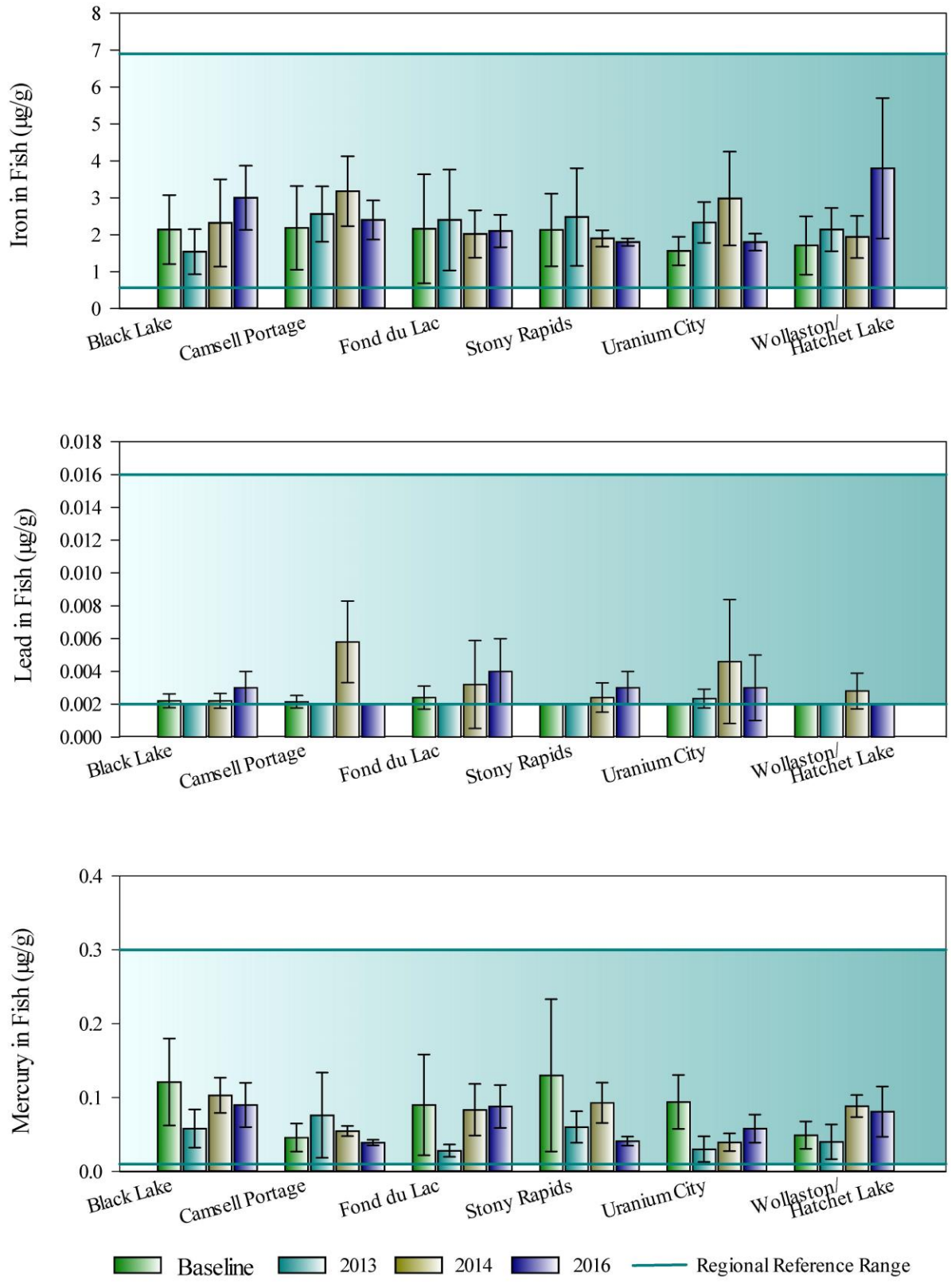
Appendix A, Figure 3
Chemicals in lake trout from the EARMP community study area, 2011 to 2016.



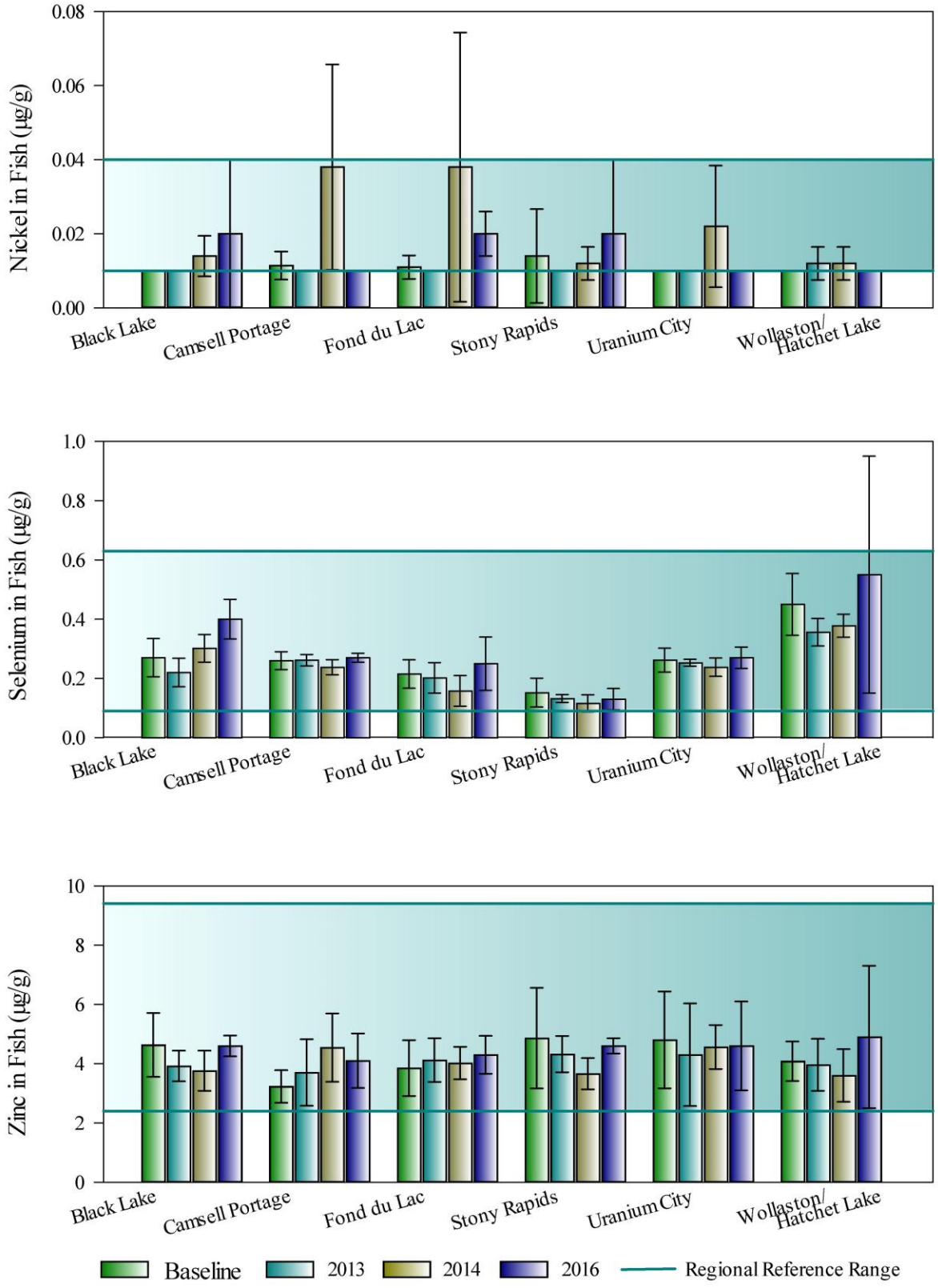
Appendix A, Figure 3
Chemicals in lake trout from the EARMP community study area, 2011 to 2016.



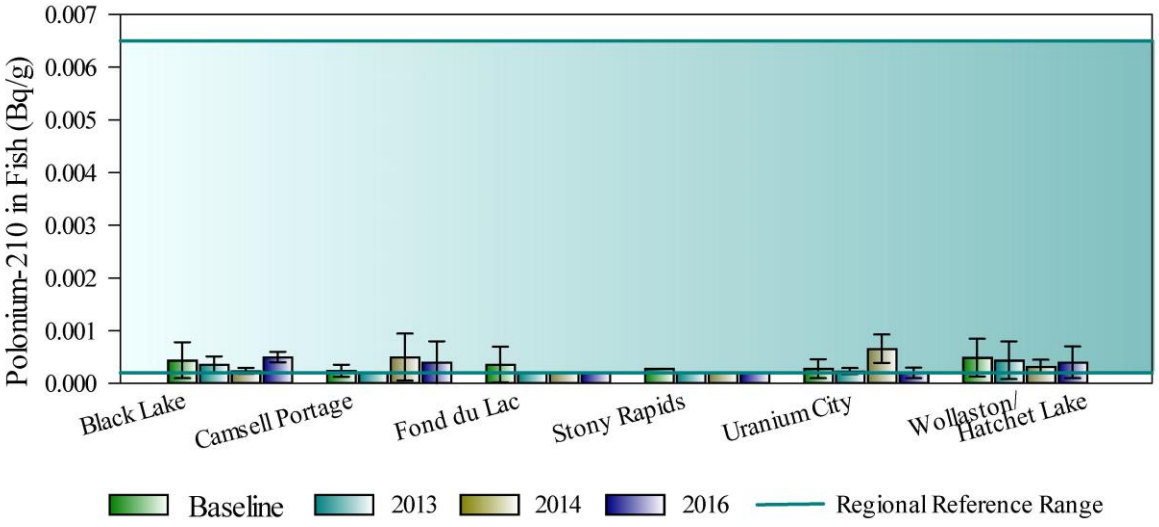
Appendix A, Figure 4
Chemicals in lake whitefish from the EARMP community study area, 2011 to 2016.



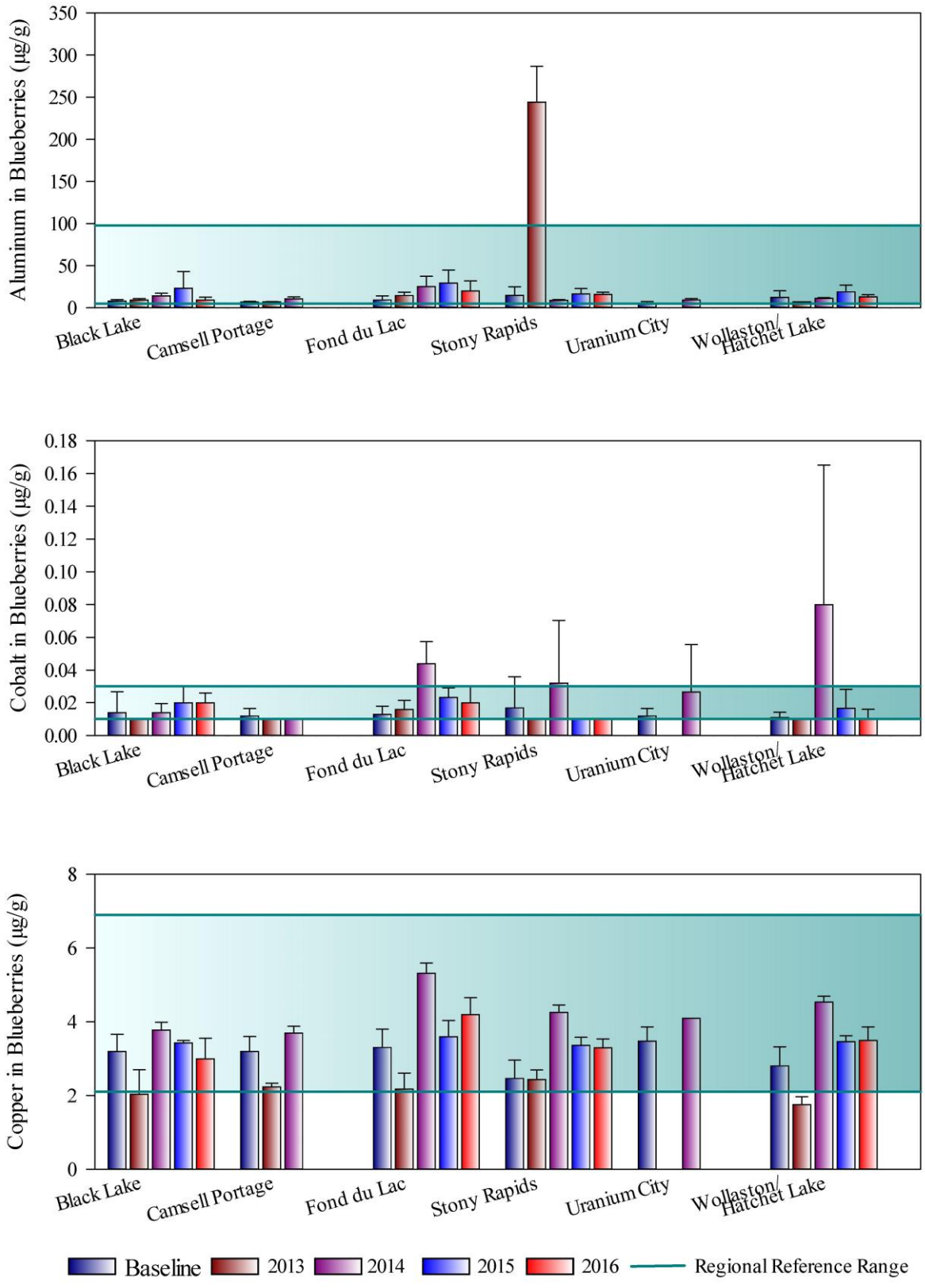
Appendix A, Figure 4
Chemicals in lake whitefish from the EARMP community study area, 2011 to 2016.



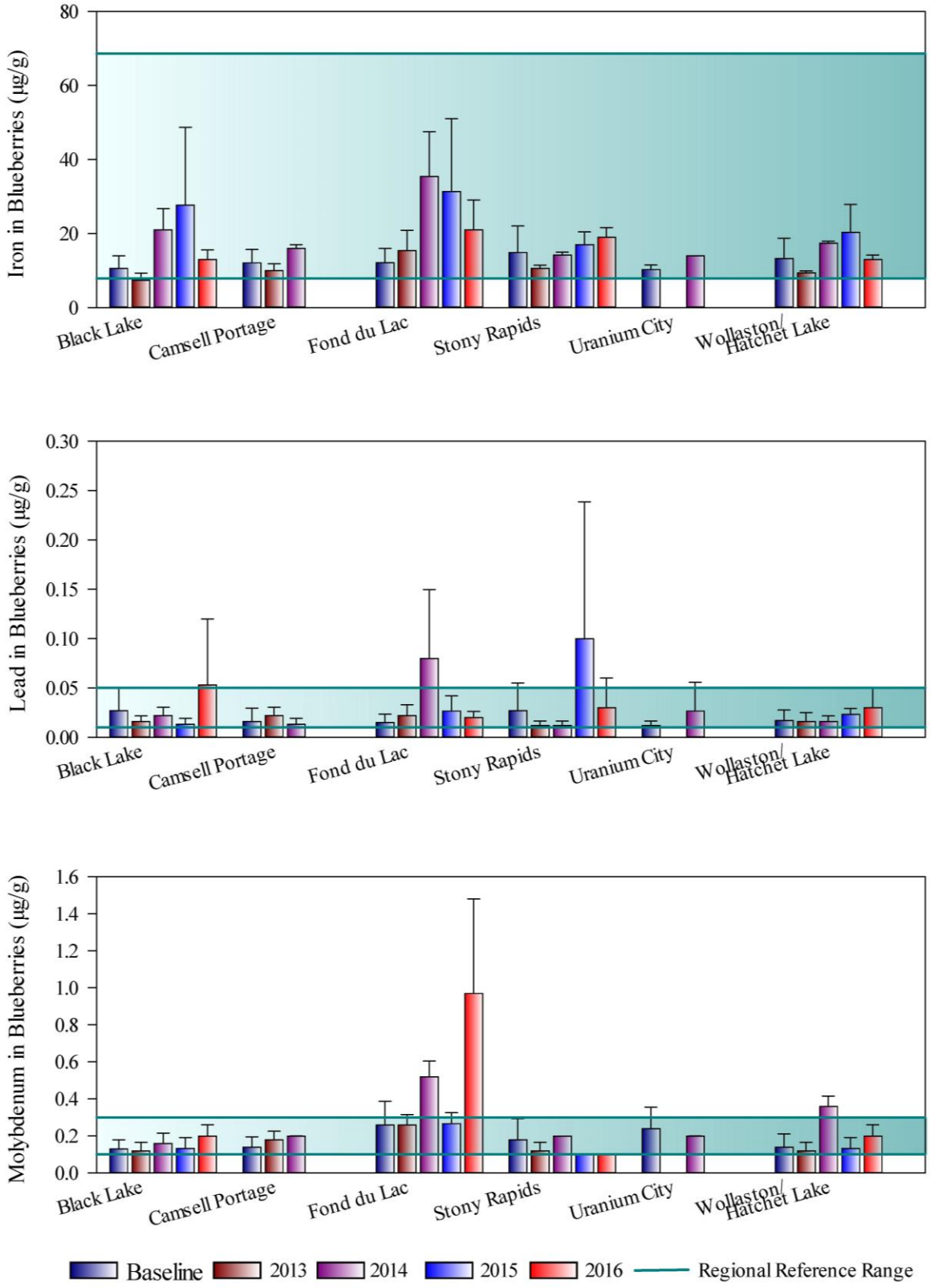
Appendix A, Figure 4
Chemicals in lake whitefish from the EARMP community study area, 2011 to 2016.



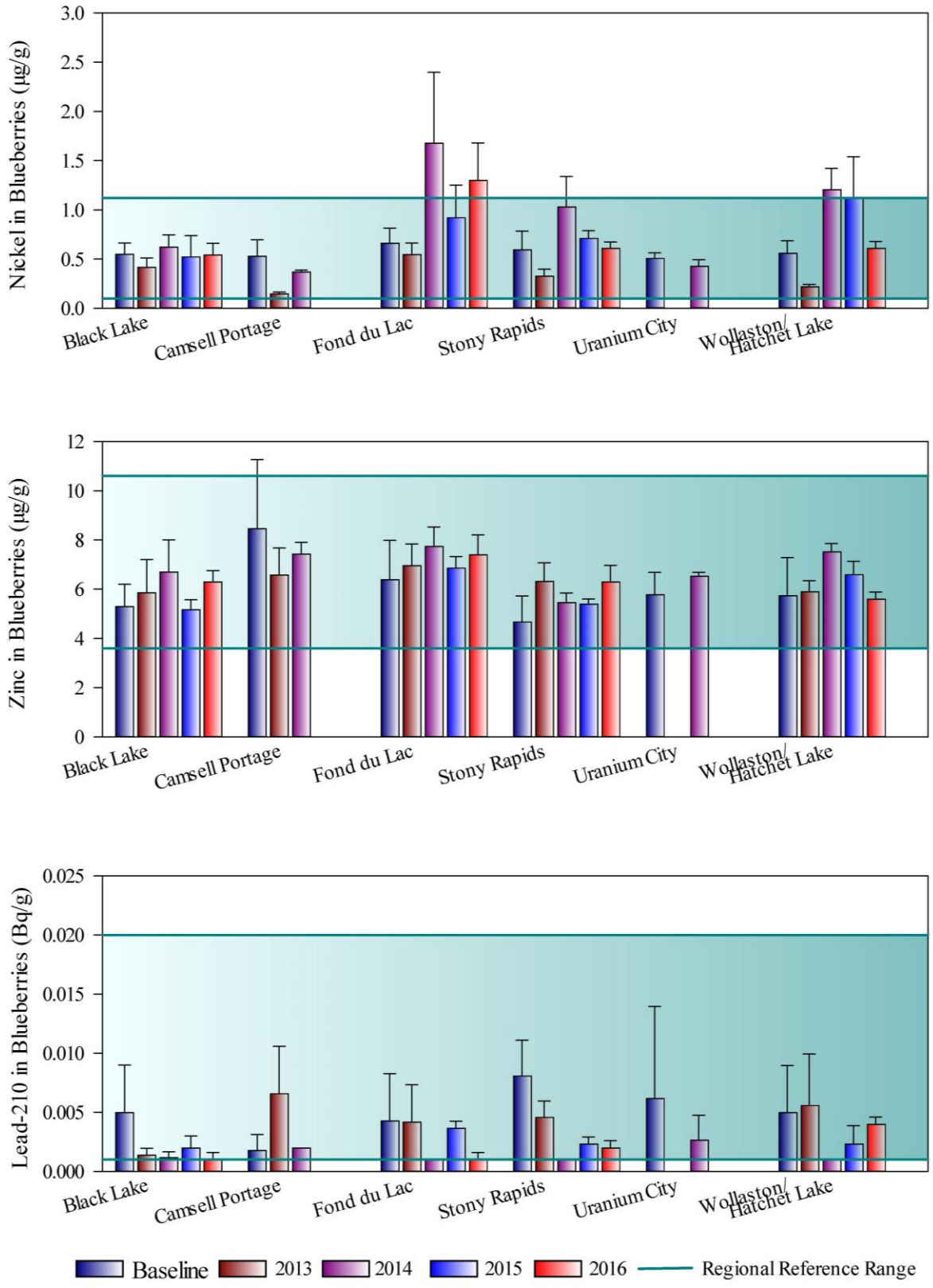
Appendix A, Figure 4
Chemicals in lake whitefish from the EARMP community study area, 2011 to 2016.



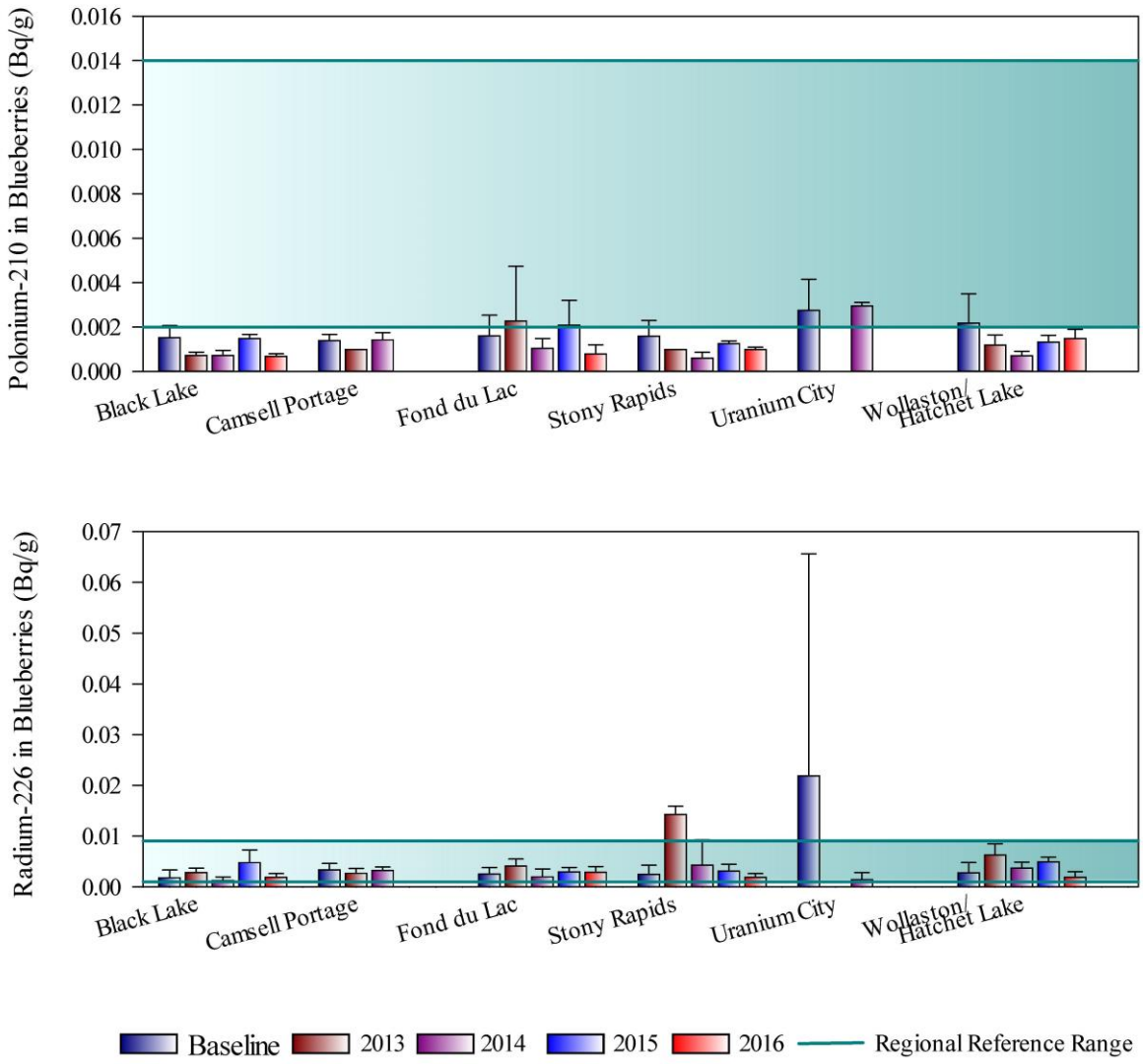
Appendix A, Figure 5
Chemicals in blueberries from the EARMP community study area, 2011 to 2016.



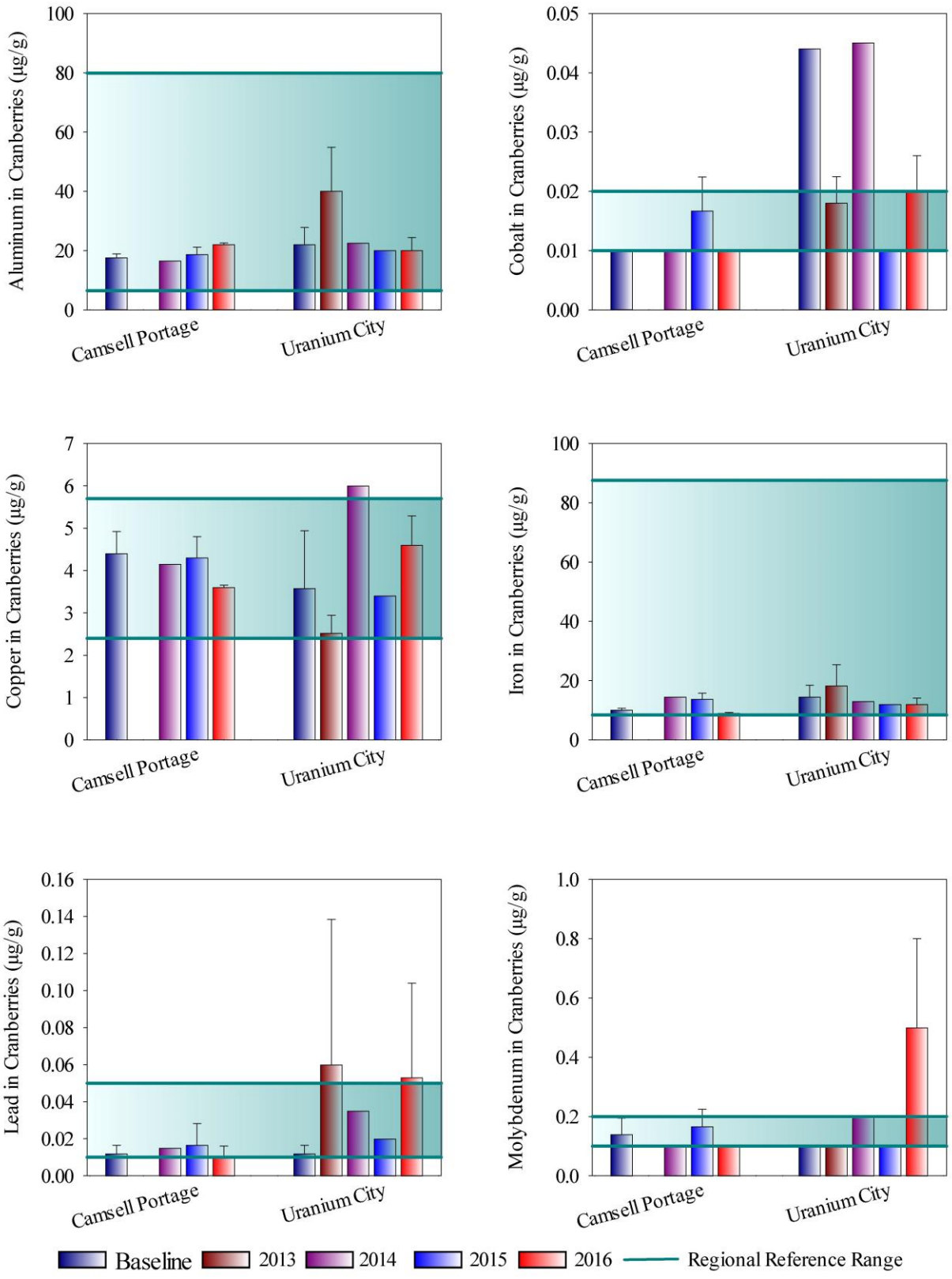
Appendix A, Figure 5
Chemicals in blueberries from the EARMP community study area, 2011 to 2016.



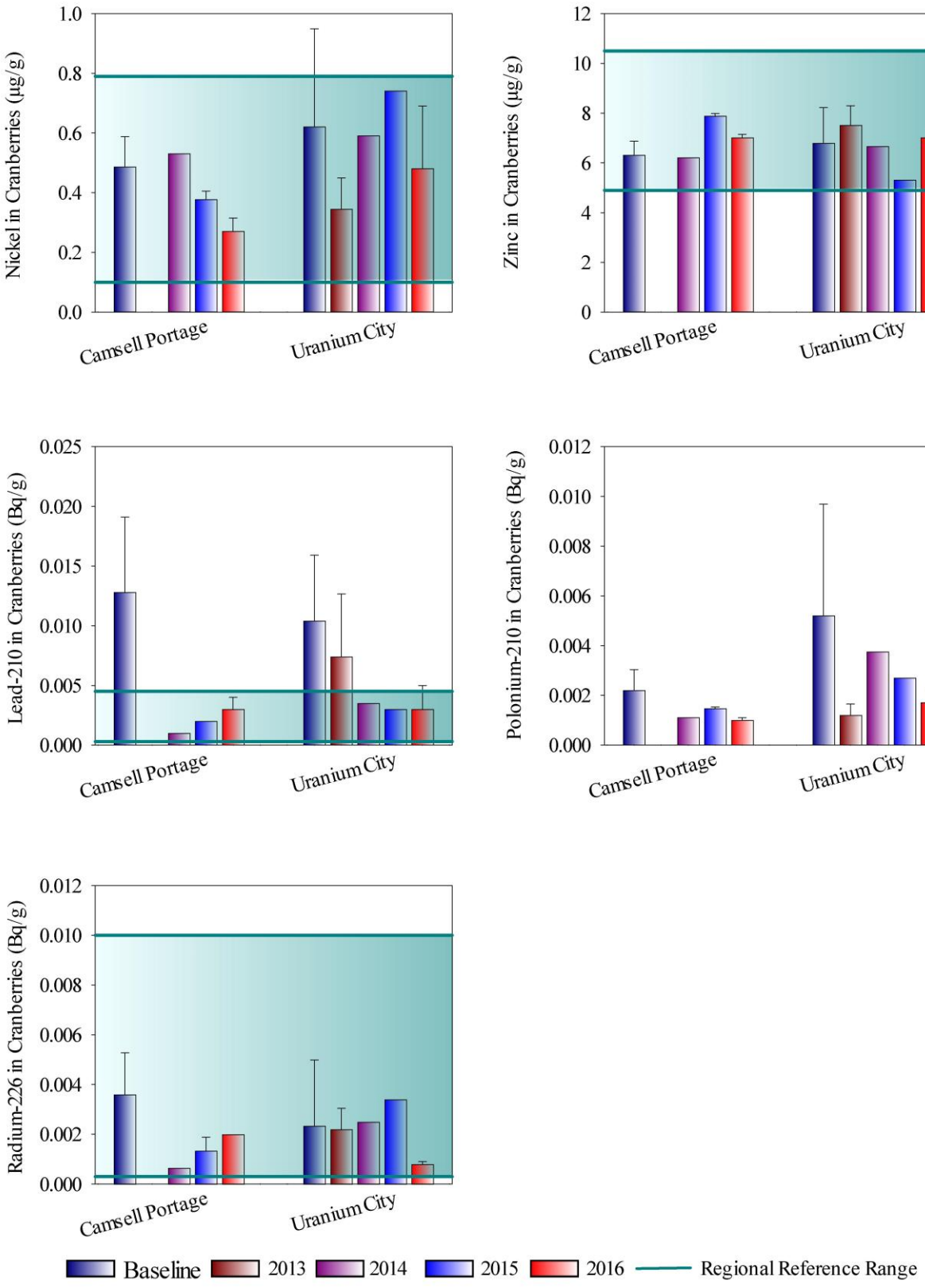
Appendix A, Figure 5
Chemicals in blueberries from the EARMP community study area, 2011 to 2016.



Appendix A, Figure 5
Chemicals in blueberries from the EARMP community study area, 2011 to 2016.

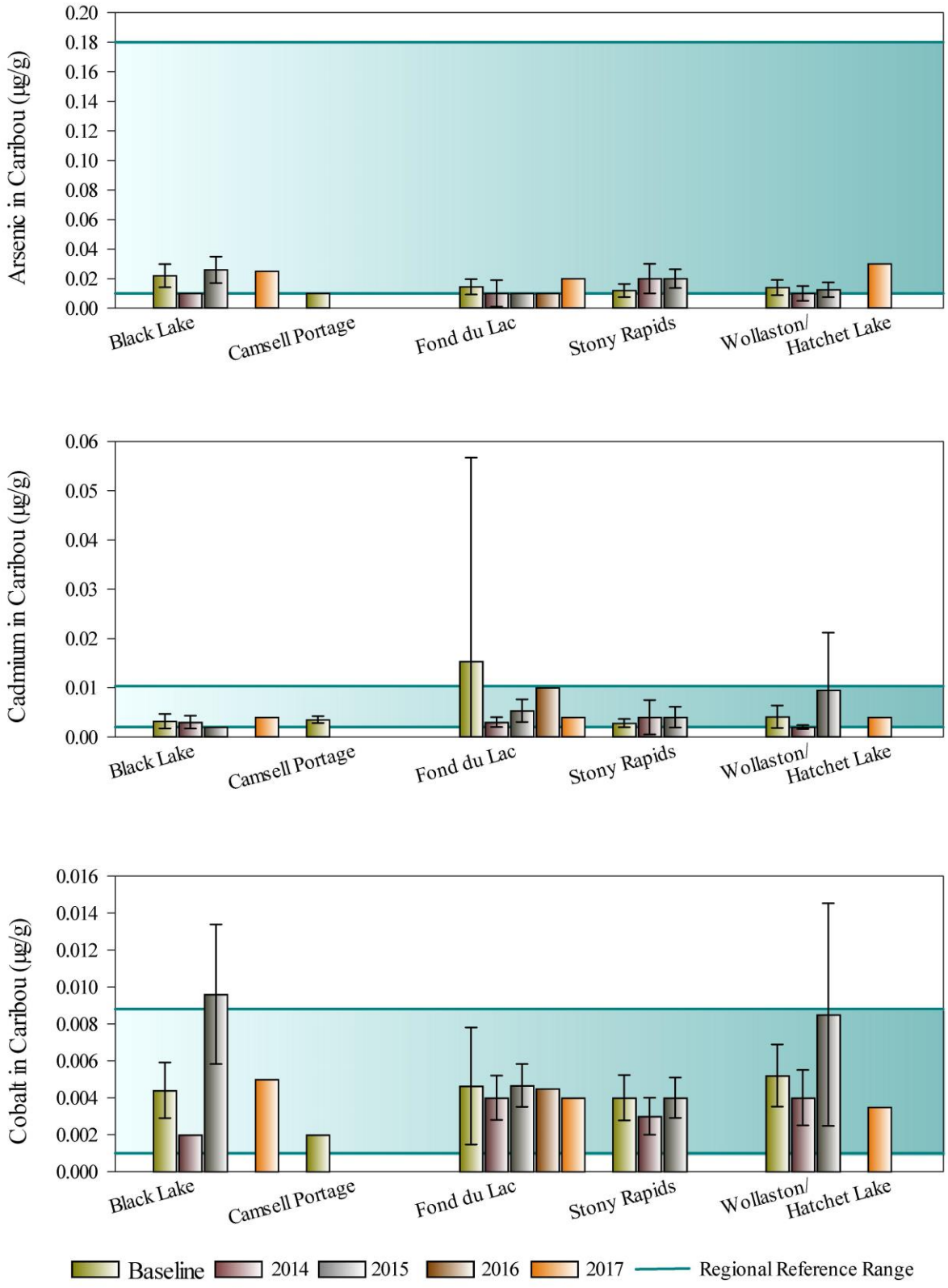


Appendix A, Figure 6
Chemicals in cranberries from the EARMP community study area, 2011 to 2016.

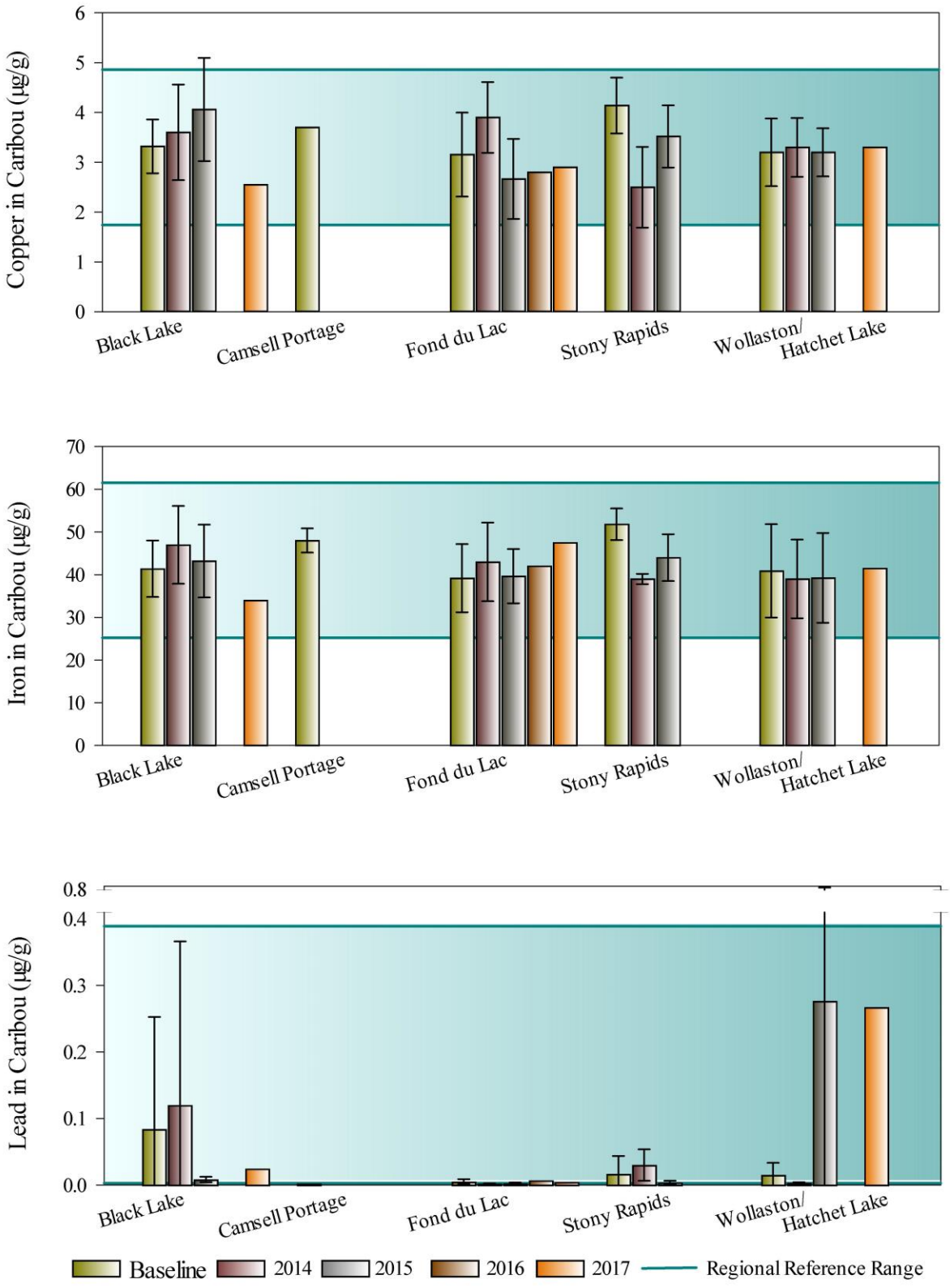


Appendix A, Figure 6
Chemicals in cranberries from the EARMP community study area, 2011 to 2016.

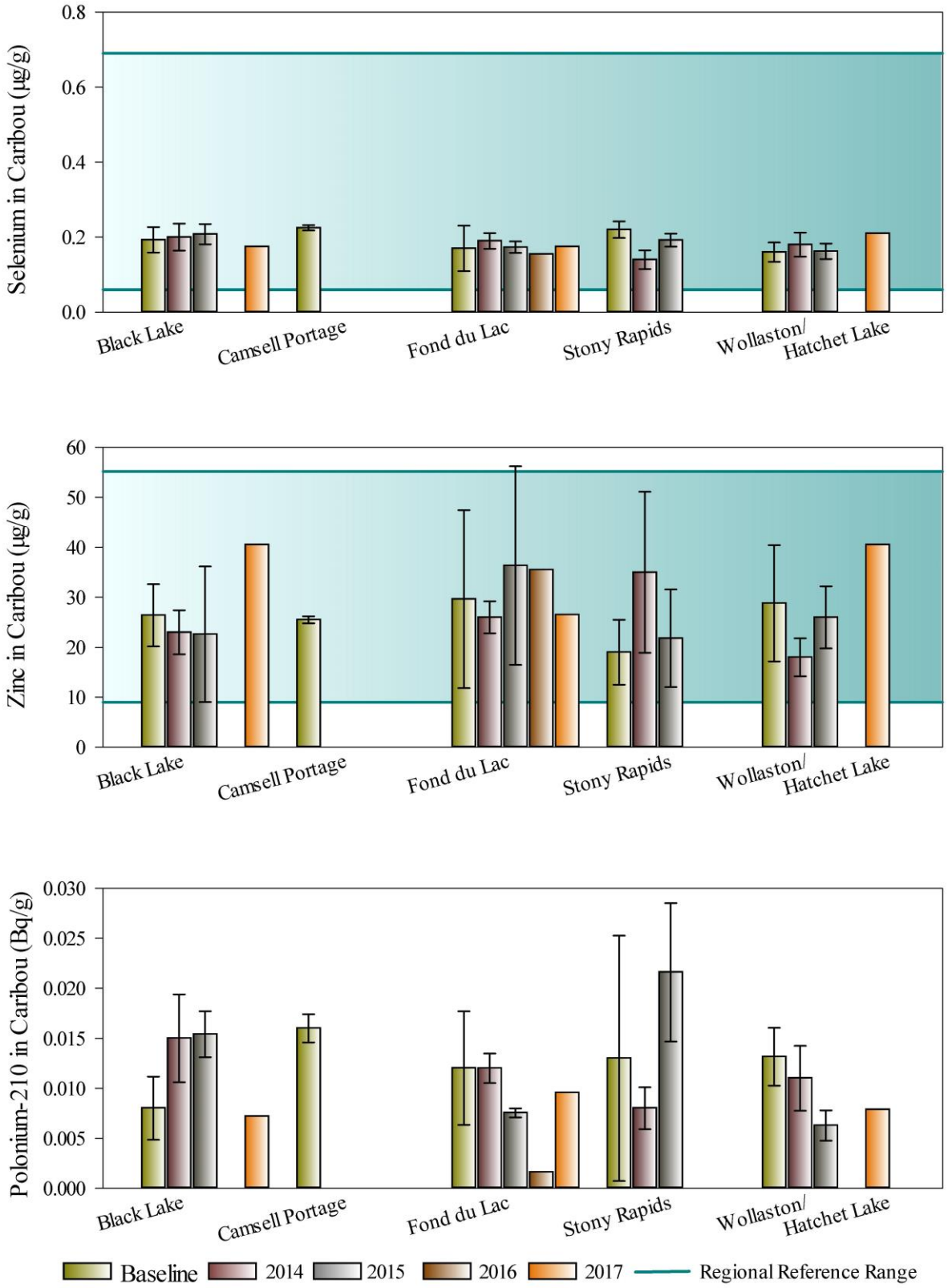
No regional reference range could be calculated for Polonium-210 in cranberry as there was insufficient data.



Appendix A, Figure 7
Chemicals in barren-ground caribou from the EARMP community study area, 2011 to 2017.

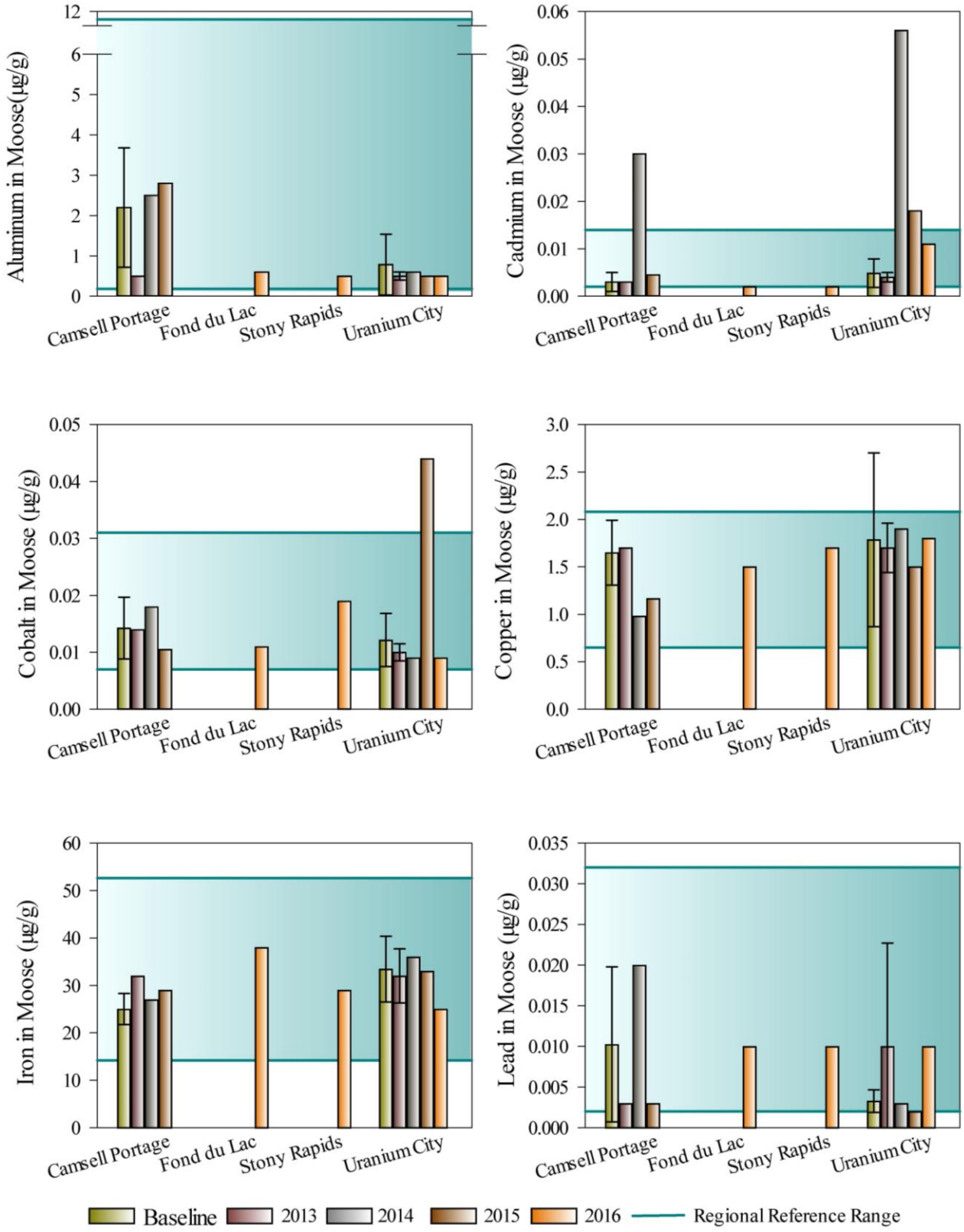


Appendix A, Figure 7
Chemicals in barren-ground caribou from the EARMP community study area, 2011 to 2017.

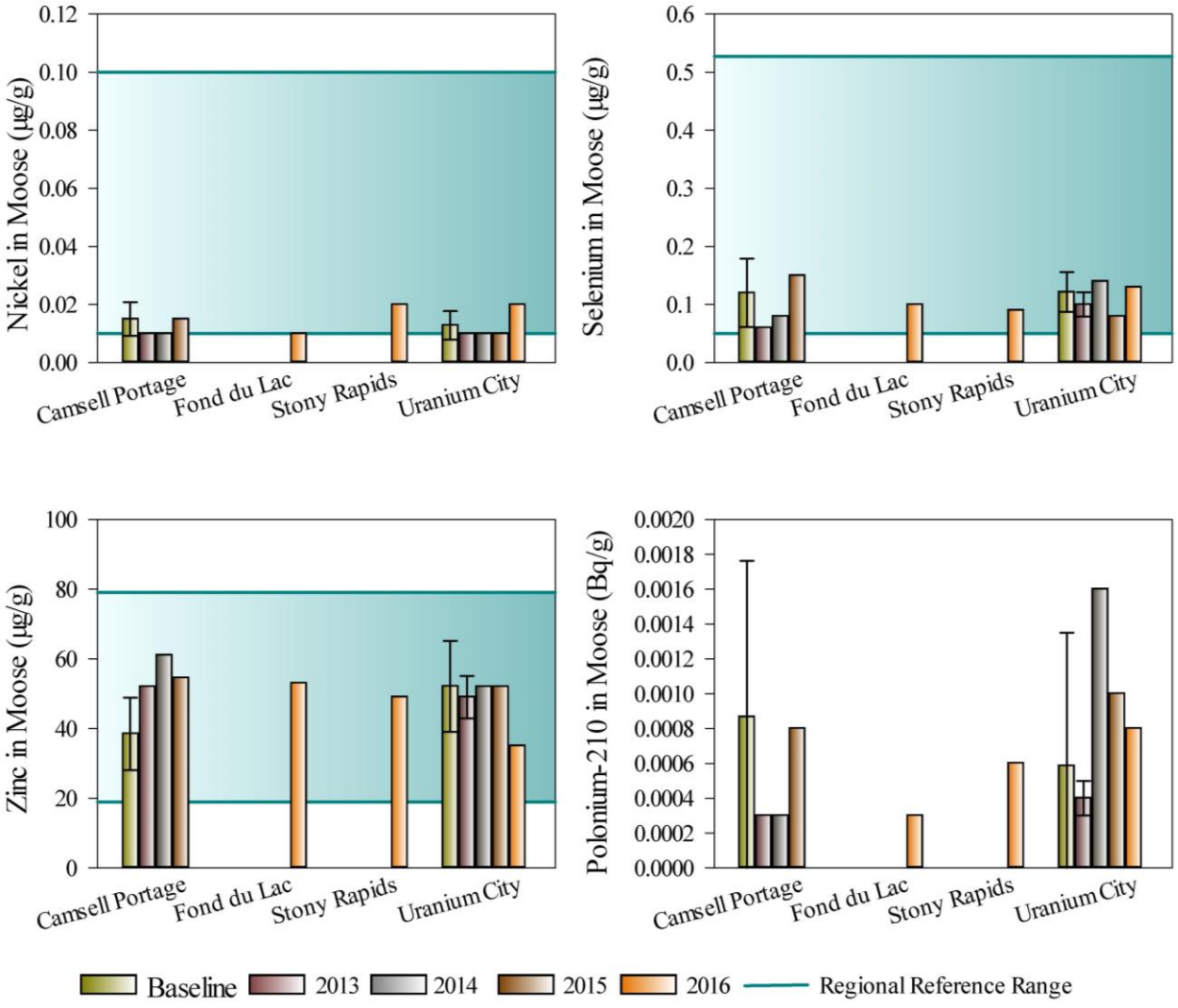


Appendix A, Figure 7
Chemicals in barren-ground caribou from the EARMP community study area, 2011 to 2017.

No regional reference range could be calculated for Polonium-210 in caribou as there was insufficient data.



Appendix A, Figure 8
Chemicals in moose from the EARMP community study area, 2011 to 2016.



Appendix A, Figure 8
Chemicals in moose from the EARMP community study area, 2011 to 2016.

No regional reference range could be calculated for Polonium-210 in moose as there was insufficient data

LIST OF TABLES

Appendix A, Table 1	Summary fish flesh chemistry results for the EARMP community program.
Appendix A, Table 2	Summary blueberry chemistry results for the EARMP community program.
Appendix A, Table 3	Summary bog cranberry chemistry results for the EARMP community program.
Appendix A, Table 4	Summary barren-ground caribou flesh chemistry results for the EARMP community program.
Appendix A, Table	Summary moose flesh chemistry results for the EARMP community program.
Appendix A, Table	Summary additional mammal chemistry results (snowshoe hare) collected from Uranium City and Camsell Portage, 2013/2014.
Appendix A, Table	Summary barren-ground caribou and moose organ chemistry results for the EARMP community program.

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Regional Reference Range[2, 3]							
	Lake Trout				Lake Whitefish			
	Lower Limit	Median	Upper Limit	n	Lower Limit	Median	Upper Limit	n
Metals and Trace Elements								
Aluminum	0.05	0.2	0.7	10	<0.01	0.08	0.6	28
Arsenic	0.010	0.030	0.35	59	<0.01	0.034	0.14	69
Cadmium	-	-	-	54	-	-	-	69
Cobalt	<0.002	<0.002	0.005	54	0.002	0.002	0.03	69
Copper	0.15	0.29	0.91	59	0.10	0.20	0.43	69
Iron	1.3	3.5	12	59	0.56	2.4	6.9	69
Lead	<0.002	<0.002	0.01	54	<0.002	<0.002	0.02	69
Mercury	<0.04	0.2	0.5	44	<0.01	0.05	0.3	59
Molybdenum	-	-	-	54	-	-	-	69
Nickel	-	-	-	54	<0.01	<0.01	0.04	69
Selenium	0.14	0.22	0.48	59	0.091	0.27	0.63	69
Uranium	<0.001	<0.001	0.005	54	<0.001	<0.001	0.005	69
Vanadium	-	-	-	54	-	-	-	69
Zinc	2.3	4.2	10	59	2.4	4.2	9.4	69
Radionuclides								
Lead-210 (Bq/g)	<0.001	<0.001	0.03	54	-	-	-	69
Polonium-210 (Bq/g)	-	-	-	44	<0.0002	0.0009	0.007	42
Radium-226 (Bq/g)	0.00005	0.00006	0.0002	44	0.00005	0.00006	0.0001	64
Thorium-230 (Bq/g)	-	-	-	45	-	-	-	47

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Black Lake (Black Lake)										
	Lake Trout										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	0.09	4	0.6	0.1	1
Arsenic	0.072	0.028	0.048	0.0084	0	0.064	0.025	0	0.080	0.017	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	0.0003	0.002	-	5	0.004	0.002	1	0.003	0.001	1
Copper	0.37	0.23	0.24	0.016	0	0.33	0.11	0	0.25	0.040	0
Iron	2.9	1.4	1.8	0.23	0	2.6	1.0	0	2.9	0.61	0
Lead	0.002	0.0008	0.002	-	5	0.003	0.002	3	0.004	0.001	0
Mercury	0.31	0.11	0.40	0.084	0	0.44	0.073	0	0.35	0.045	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	-	0.01	-	5	0.02	0.01	2	0.01	0.006	1
Selenium	0.15	0.026	0.14	0.024	0	0.15	0.019	0	0.15	0.0058	0
Uranium	0.001	0.0003	0.001	-	5	0.001	0	2	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	4.1	1.4	3.4	0.42	0	3.7	1.3	0	4.6	1.1	0
Radionuclides											
Lead-210 (Bq/g)	0.001	0.0004	0.001	-	5	0.001	0	4	0.001	-	3
Polonium-210 (Bq/g)	0.0002	0	0.0002	-	5	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.00006	0.00002	0.00007	0.00002	4	0.00005	-	5	0.00006	-	3
Thorium-230 (Bq/g)	0.00011	0.00003	0.0001	0.00004	5	0.00009	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Black Lake (Black Lake)										
	Lake Whitefish										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	-	5	0.5	-	3
Arsenic	0.18	0.14	0.024	0.0089	0	0.17	0.056	0	0.22	0.17	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.003	0.0009	0.003	0.001	2	0.004	0.003	2	0.003	0.002	0
Copper	0.19	0.051	0.11	0.088	0	0.26	0.19	0	0.14	0.036	0
Iron	2.1	0.93	1.5	0.61	0	2.3	1.2	0	3.0	0.87	0
Lead	0.002	0.0004	0.002	-	5	0.002	0.0004	4	0.003	0.001	0
Mercury	0.12	0.059	0.058	0.026	0	0.10	0.024	0	0.090	0.030	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0	0.01	-	5	0.01	0.005	3	0.02	0.02	1
Selenium	0.27	0.065	0.22	0.048	0	0.30	0.047	0	0.40	0.067	0
Uranium	0.001	0.0003	0.001	-	5	0.001	-	5	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	4.6	1.1	3.9	0.52	0	3.8	0.68	0	4.6	0.35	0
Radionuclides											
Lead-210 (Bq/g)	0.002	0.001	0.001	0	4	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0004	0.0003	0.0004	0.0002	0	0.0002	0.00005	2	0.0005	0.0001	0
Radium-226 (Bq/g)	0.0004	0.0007	0.0002	0.0001	3	0.00009	0.00006	4	0.00006	-	3
Thorium-230 (Bq/g)	0.0005	0.0008	0.0001	0.00004	4	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Camsell Portage (Ellis Bay)										
	Lake Trout										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	0.09	4	0.5	-	3
Arsenic	0.11	0.071	0.076	0.038	0	0.086	0.032	0	0.10	0.027	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	0.0004	0.002	0	4	0.003	0.0008	2	0.002	0.0006	1
Copper	0.34	0.15	0.28	0.063	0	0.31	0.083	0	0.39	0.12	0
Iron	2.8	1.5	2.1	0.45	0	3.4	1.2	0	3.1	0.92	0
Lead	0.002	-	0.002	-	5	0.002	0.0009	3	0.003	0.001	1
Mercury	0.15	0.070	0.23	0.12	0	0.34	0.031	0	0.14	0.032	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0.006	0.02	0.02	4	0.02	0.02	2	0.01	0.006	2
Selenium	0.16	0.024	0.16	0.015	0	0.18	0.023	0	0.19	0.021	0
Uranium	0.002	0.004	0.001	-	5	0.001	0	4	0.001	0	2
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	5.0	3.1	3.3	0.36	0	4.6	1.4	0	5.0	1.3	0
Radionuclides											
Lead-210 (Bq/g)	0.001	-	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0003	0.0002	0.0002	-	5	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.0001	0.00005	0.00007	0.00002	3	0.00005	-	5	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.00010	0.00001	5	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Camsell Portage (Ellis Bay)										
	Lake Whitefish										
	Baseline (n = 7)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.7	0.3	2	0.5	-	3
Arsenic	0.30	0.081	0.29	0.14	0	0.18	0.14	0	0.13	0.093	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.003	0.002	0.003	0.001	2	0.006	0.002	0	0.005	0.001	0
Copper	0.18	0.092	0.17	0.063	0	0.24	0.068	0	0.23	0.042	0
Iron	2.2	1.1	2.6	0.75	0	3.2	0.95	0	2.4	0.53	0
Lead	0.002	0.0004	0.002	-	5	0.006	0.002	1	0.002	-	3
Mercury	0.050	0.019	0.08	0.058	0	0.055	0.0070	0	0.039	0.0038	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0.004	0.01	-	5	0.04	0.03	1	0.01	-	3
Selenium	0.26	0.030	0.26	0.019	0	0.24	0.026	0	0.27	0.015	0
Uranium	0.001	0.0004	0.003	0.001	1	0.002	0.0005	2	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	3.2	0.55	3.7	1.1	0	4.5	1.2	0	4.1	0.9	0
Radionuclides											
Lead-210 (Bq/g)	0.001	0.0004	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0002	0.0001	0.0002	-	5	0.0005	0.0004	1	0.0004	0.0004	1
Radium-226 (Bq/g)	0.0001	0.00010	0.00010	0.00006	3	0.00006	-	5	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.0001	-	5	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Fond du Lac (Fond du Lac River)										
	Lake Trout										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	0.04	4	0.5	-	3
Arsenic	0.1	0.04	0.07	0.03	0	0.08	0.04	0	0.06	0.01	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	-	0.002	-	5	0.003	0.0005	1	0.0057	0.0055	1
Copper	0.28	0.081	0.30	0.087	0	0.27	0.10	0	0.29	0.064	0
Iron	2.4	0.90	1.7	0.43	0	2.9	0.53	0	3.4	1.4	0
Lead	0.002	0.0007	0.003	0.003	4	0.004	0.002	1	0.002	0.0006	0
Mercury	0.22	0.073	0.08	0.030	0	0.59	0.18	0	0.18	0.084	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	-	0.01	0.005	3	0.02	0.004	1	0.01	0.006	2
Selenium	0.15	0.019	0.16	0.017	0	0.11	0.035	0	0.17	0.012	0
Uranium	0.001	0.0003	0.001	-	5	0.001	0.0004	4	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	3.7	0.47	3.3	0.55	0	3.9	1.6	0	4.2	1.6	0
Radionuclides											
Lead-210 (Bq/g)	0.001	0.0004	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0002	-	0.0002	-	5	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.00006	-	0.00006	0.000004	5	0.00006	0.00001	4	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.0001	-	5	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Fond du Lac (Fond du Lac River)										
	Lake Whitefish										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.6	0.3	0.5	-	5	0.5	0.04	4	0.5	0.06	2
Arsenic	0.24	0.14	0.06	0.034	0	0.11	0.11	0	0.19	0.14	0
Cadmium	0.002	0.001	0.002	0	4	0.002	-	5	0.002	-	3
Cobalt	0.0040	0.0039	0.0054	0.0049	1	0.010	0.0067	0	0.010	0.0060	0
Copper	0.18	0.057	0.20	0.085	0	0.16	0.024	0	0.18	0.080	0
Iron	2.2	1.5	2.4	1.4	0	2.0	0.64	0	2.1	0.44	0
Lead	0.002	0.0007	0.002	-	5	0.003	0.003	3	0.004	0.002	1
Mercury	0.090	0.068	0.028	0.0084	0	0.083	0.035	0	0.088	0.029	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0.003	0.01	0	4	0.04	0.04	1	0.02	0.006	1
Selenium	0.22	0.048	0.20	0.052	0	0.16	0.052	0	0.25	0.090	0
Uranium	0.001	0.0007	0.001	-	5	0.002	0.001	4	0.001	0.0006	2
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	3.9	0.94	4.1	0.74	0	4.0	0.55	0	4.3	0.64	0
Radionuclides											
Lead-210 (Bq/g)	0.004	-	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0004	0.0003	0.0002	-	5	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.0004	0.0007	0.00007	0.00002	4	0.00007	0.00001	4	0.00006	-	3
Thorium-230 (Bq/g)	0.002	-	0.0001	-	5	0.0001	0.00004	4	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Stony Rapids (Fond du Lac River)										
	Lake Trout										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	-	5	0.5	-	3
Arsenic	0.07	0.044	0.13	0.080	0	0.080	0.044	0	0.10	0.020	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	0	0.002	-	5	0.004	0.002	1	0.004	0.0006	0
Copper	0.29	0.19	0.35	0.068	0	0.46	0.27	0	0.59	0.15	0
Iron	2.8	2.3	3.8	1.3	0	5.3	3.9	0	4.8	1.2	0
Lead	0.002	-	0.002	-	5	0.004	0.004	2	0.002	-	3
Mercury	0.33	0.16	0.18	0.072	0	0.20	0.052	0	0.17	0.031	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0	0.01	0	4	0.02	0.02	3	0.01	0.006	2
Selenium	0.14	0.037	0.17	0.018	0	0.15	0.011	0	0.17	0.012	0
Uranium	0.001	0.0003	0.001	-	5	0.001	-	5	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	3.7	0.86	3.6	0.46	0	4.0	0.88	0	3.5	0.30	0
Radionuclides											
Lead-210 (Bq/g)	0.001	0	0.001	0	4	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0002	0.00007	0.0002	0.00004	3	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.00006	-	0.00007	0.00002	4	0.00007	-	5	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.0001	-	5	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Stony Rapids (Fond du Lac River)										
	Lake Whitefish										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.50	-	5	0.5	-	5	0.5	0.06	2
Arsenic	0.04	0.02	0.03	0.007	0	0.03	0.03	0	0.04	0.02	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.0060	0.0031	0.0046	0.00089	0	0.005	0.0021	0	0.014	0.0082	0
Copper	0.20	0.083	0.22	0.064	0	0.21	0.025	0	0.16	0.046	0
Iron	2.1	0.98	2.5	1.3	0	1.9	0.22	0	1.8	0.10	0
Lead	0.002	-	0.002	-	5	0.002	0.001	4	0.003	0.001	0
Mercury	0.13	0.10	0.06	0.021	0	0.093	0.027	0	0.041	0.0062	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0.01	0.01	-	5	0.01	0.004	4	0.02	0.02	1
Selenium	0.15	0.049	0.13	0.013	0	0.12	0.029	0	0.13	0.036	0
Uranium	0.001	0	0.001	-	5	0.002	0.003	4	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	4.9	1.7	4.3	0.61	0	3.7	0.53	0	4.6	0.26	0
Radionuclides											
Lead-210 (Bq/g)	0.001	-	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0003	-	0.0002	0	4	0.0002	0	4	0.0002	-	3
Radium-226 (Bq/g)	0.0002	0.0003	0.00007	0.00002	3	0.00006	-	5	0.00006	-	3
Thorium-230 (Bq/g)	0.0003	0.0006	0.0001	-	5	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Uranium City (Prospector Bay)										
	Lake Trout										
	Baseline (n = 5)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	-	5	0.6	0.1	0
Arsenic	0.08	0.03	0.06	0.02	0	0.084	0.07	0	0.12	0.061	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	-	0.002	-	5	0.002	0	2	0.003	0.001	2
Copper	0.24	0.029	0.22	0.042	0	0.29	0.027	0	0.36	0.24	0
Iron	2.8	1.1	3.0	2.6	0	2.7	0.62	0	3.4	2.6	0
Lead	0.002	-	0.003	0.002	1	0.002	0.0005	3	0.002	0	2
Mercury	0.20	0.046	0.14	0.056	0	0.17	0.069	0	0.15	0.031	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	-	0.01	0.004	4	0.01	0.004	3	0.01	-	3
Selenium	0.17	0.005	0.15	0.019	0	0.15	0.0055	0	0.15	0.036	0
Uranium	0.001	-	0.001	-	5	0.002	0.002	4	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	4.3	0.65	3.0	0.48	0	4.8	2.0	0	4.2	1.7	0
Radionuclides											
Lead-210 (Bq/g)	0.001	-	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0002	-	0.0002	0	4	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.00006	0.000004	0.00009	0.000061	3	0.00006	0.00001	4	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.0001	0.00004	4	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Uranium City (Prospector Bay)										
	Lake Whitefish										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	3	0.5	0.04	4	0.5	0	2
Arsenic	0.07	0.029	0.19	0.026	0	0.10	0.075	0	0.070	0.044	0
Cadmium	0.002	-	0.002	0	2	0.002	0	4	0.002	-	3
Cobalt	0.006	0.005	0.009	0.006	0	0.008	0.005	0	0.004	0.001	0
Copper	0.15	0.026	0.26	0.11	0	0.29	0.11	0	0.20	0.032	0
Iron	1.6	0.38	2.3	0.55	0	3.0	1.3	0	1.8	0.23	0
Lead	0.002	-	0.002	0.0006	1	0.005	0.004	2	0.003	0.002	2
Mercury	0.090	0.036	0.03	0.017	0	0.039	0.012	0	0.058	0.019	0
Molybdenum	0.02	-	0.02	-	3	0.02	-	5	0.02	-	3
Nickel	0.01	-	0.01	0	2	0.02	0.02	0	0.01	-	3
Selenium	0.26	0.040	0.25	0.012	0	0.24	0.031	0	0.27	0.036	0
Uranium	0.001	-	0.001	-	3	0.002	0.0009	2	0.001	-	3
Vanadium	0.02	-	0.02	-	3	0.02	-	5	0.02	-	3
Zinc	4.8	1.6	4.3	1.7	0	4.6	0.74	0	4.6	1.5	0
Radionuclides											
Lead-210 (Bq/g)	0.001	-	0.001	-	3	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0003	0.0002	0.0002	0.00006	2	0.0007	0.0003	0	0.0002	0.0001	2
Radium-226 (Bq/g)	0.00006	-	0.00006	0	2	0.00008	0.00002	3	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.0001	-	3	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Wollaston Lake/Hatchet Lake (Wollaston Lake)										
	Lake Trout										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.50	-	5	0.5	-	5	0.5	-	3
Arsenic	0.04	0.02	0.03	0.02	0	0.03	0.01	0	0.05	0.04	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	-	0.002	-	5	0.003	0.002	2	0.003	0.001	1
Copper	0.45	0.15	0.34	0.030	0	0.31	0.077	0	0.28	0.072	0
Iron	3.0	1.3	2.4	0.36	0	2.0	0.43	0	2.7	1.1	0
Lead	0.002	-	0.003	0.001	4	0.002	0.0009	4	0.002	-	3
Mercury	0.16	0.035	0.12	0.038	0	0.24	0.083	0	0.20	0.035	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	0.003	0.01	-	5	0.02	0.02	3	0.01	-	3
Selenium	0.21	0.036	0.20	0.011	0	0.19	0.019	0	0.23	0.017	0
Uranium	0.001	-	0.001	0.0004	4	0.001	0	4	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	4.4	1.3	4.4	0.83	0	3.2	0.83	0	3.0	0.85	0
Radionuclides											
Lead-210 (Bq/g)	0.001	0	0.001	-	5	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0002	-	0.0002	-	5	0.0002	-	5	0.0002	-	3
Radium-226 (Bq/g)	0.00009	0.00008	0.00009	0.00006	2	0.00005	-	5	0.00006	-	3
Thorium-230 (Bq/g)	0.0001	-	0.0001	-	5	0.0001	-	5	0.0001	-	3

Appendix A, Table 1

Summary fish flesh chemistry results for the EARMP community program.

Chemical[1]	Wollaston Lake/Hatchet Lake (Wollaston Lake)										
	Lake Whitefish										
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements											
Aluminum	0.5	-	0.5	-	5	0.5	-	5	0.5	0	2
Arsenic	0.16	0.042	0.15	0.035	0	0.11	0.035	0	0.11	0.076	0
Cadmium	0.002	-	0.002	-	5	0.002	-	5	0.002	-	3
Cobalt	0.002	0.0010	0.002	0	4	0.003	0.001	1	0.003	0.0006	0
Copper	0.16	0.045	0.14	0.015	0	0.15	0.016	0	0.26	0.16	0
Iron	1.7	0.79	2.1	0.59	0	1.9	0.57	0	3.8	1.9	0
Lead	0.002	0	0.002	0	4	0.003	0.001	2	0.002	-	3
Mercury	0.050	0.019	0.040	0.023	0	0.088	0.015	0	0.081	0.034	0
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Nickel	0.01	-	0.01	0.004	3	0.01	0.004	1	0.01	0	2
Selenium	0.45	0.10	0.36	0.046	0	0.38	0.039	0	0.55	0.40	0
Uranium	0.001	-	0.001	-	5	0.001	0	4	0.001	-	3
Vanadium	0.02	-	0.02	-	5	0.02	-	5	0.02	-	3
Zinc	4.1	0.67	4.0	0.88	0	3.6	0.89	0	4.9	2.4	0
Radionuclides											
Lead-210 (Bq/g)	0.002	-	0.0009	0.0003	4	0.001	-	5	0.001	-	3
Polonium-210 (Bq/g)	0.0005	0.0004	0.0004	0.0004	3	0.0003	0.0001	1	0.0004	0.0003	1
Radium-226 (Bq/g)	0.0005	0.0008	0.0003	0.0004	2	0.00007	0.00002	4	0.00006	-	3
Thorium-230 (Bq/g)	0.0007	-	0.0001	-	5	0.0001	-	5	0.0001	-	3

[1]All concentrations are reported on a µg/g wet weight basis, except when specified otherwise.

[2]Regional reference data are from reference lakes north of Point's North sampled between 2006 and 2015. The median corresponds to the 50th percentile, while the lower and upper limits are the 2.5th and 97.5th percentiles that delimit the 95% range of the reference data.

[3]Regional reference ranges could not be computed when all or nearly all values were lower than the reported detection limit (RDL).

S.D. = Standard deviation; S.D. of 0 signify no variance between samples; "-" indicates insufficient data to calculate S.D.

<RDL = number of samples with values below the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Regional Reference Range[2, 3]			
	Lower Limit	Median	Upper Limit	n
Metals and Trace Elements				
Aluminum	4.9	12.1	97.7	43
Arsenic	-	-	-	22
Cadmium	-	-	-	22
Cobalt	<0.01	0.01	0.03	22
Copper	2.1	3.6	6.9	43
Iron	7.9	15.3	68.6	43
Lead	<0.01	0.01	0.05	22
Molybdenum	<0.1	0.1	0.3	43
Nickel	0.1	0.57	1.12	43
Selenium	-	-	-	22
Uranium	<0.002	0.003	0.017	21
Vanadium	-	-	-	22
Zinc	3.6	6.9	10.6	43
Radionuclides				
Lead-210 (Bq/g)	<0.001	0.004	0.02	19
Polonium-210 (Bq/g)	<0.002	0.003	0.014	8
Radium-226 (Bq/g)	0.001	0.003	0.009	30
Thorium-230 (Bq/g)	-	-	-	8

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Black Lake													
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2015 (n = 3)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements														
Aluminum	7.9	2.1	9.2	1.8	0	14	3.2	0	23	20	0	9.2	3.4	0
Arsenic	0.05	-	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Cadmium	0.01	-	0.01	0.004	3	0.01	-	5	0.01	-	3	0.01	-	3
Cobalt	0.01	0.01	0.01	0	4	0.01	0.005	0	0.02	0.01	1	0.02	0.006	0
Copper	3.2	0.46	2.0	0.65	0	3.8	0.20	0	3.4	0.060	0	3.0	0.55	0
Iron	11	3.5	7.4	1.9	0	21	5.8	0	28	21	0	13	2.6	0
Lead	0.027	0.024	0.016	0.0055	2	0.022	0.0084	1	0.010	0.0058	1	0.053	0.067	1
Molybdenum	0.1	0.05	0.1	0.04	1	0.2	0.05	2	0.1	0.06	0	0.2	0.06	0
Nickel	0.55	0.12	0.42	0.095	0	0.62	0.13	0	0.52	0.22	0	0.54	0.12	0
Selenium	0.05	0.01	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Uranium	0.01	-	0.01	0	4	0.02	0.008	1	0.01	-	3	0.01	-	3
Vanadium	0.1	-	0.1	-	5	0.1	-	5	0.1	-	3	0.1	-	3
Zinc	5.3	0.90	5.9	1.3	0	6.7	1.3	0	5.2	0.40	0	6.3	0.46	0
Radionuclides														
Lead-210 (Bq/g)	0.005	0.004	0.001	0.0005	3	0.001	0.0004	4	0.002	0.001	0	0.001	0.0006	1
Polonium-210 (Bq/g)	0.0015	0.00053	0.0007	0.0001	0	0.0007	0.0002	0	0.0015	0.00017	0	0.0007	0.0001	0
Radium-226 (Bq/g)	0.002	0.001	0.003	0.0008	0	0.001	0.0006	0	0.005	0.002	0	0.002	0.0006	0
Thorium-230 (Bq/g)	0.002	0.0005	0.002	-	5	0.001	-	5	0.001	0	2	0.001	-	3

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Camsell Portage							
	Baseline (n = 5)		2013 (n = 5)			2014 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements								
Aluminum	7.0	0.57	7.1	0.39	0	11	2.2	0
Arsenic	0.05	-	0.05	-	5	0.05	-	3
Cadmium	0.01	-	0.01	-	5	0.01	-	3
Cobalt	0.01	0.004	0.01	-	5	0.01	0	2
Copper	3.2	0.39	2.2	0.089	0	3.7	0.17	0
Iron	12	3.7	10	1.9	0	16	1.0	0
Lead	0.016	0.013	0.022	0.0084	1	0.013	0.0058	0
Molybdenum	0.1	0.05	0.2	0.04	0	0.2	0	0
Nickel	0.53	0.17	0.15	0.019	0	0.37	0.017	0
Selenium	0.05	-	0.05	-	5	0.05	-	3
Uranium	0.02	0.03	0.01	-	5	0.01	0	0
Vanadium	0.1	-	0.1	-	5	0.1	-	3
Zinc	8.5	2.8	6.6	1.1		7.4	0.47	0
Radionuclides								
Lead-210 (Bq/g)	0.002	0.001	0.007	0.004	2	0.002	0	0
Polonium-210 (Bq/g)	0.0014	0.00027	0.0010	0	4	0.0014	0.00032	0
Radium-226 (Bq/g)	0.003	0.001	0.003	0.0008	0	0.003	0.0006	0
Thorium-230 (Bq/g)	0.001	-	0.002	-	5	0.001	-	3

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Fond du Lac													
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2015 (n = 3)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements														
Aluminum	9.4	4.9	15	4.0	0	25	12	0	29	16	0	20	12	0
Arsenic	0.05	-	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Cadmium	0.01	-	0.01	-	5	0.01	-	5	0.01	-	3	0.01	-	3
Cobalt	0.01	0.005	0.02	0.005	1	0.04	0.01	0	0.02	0.006	0	0.02	0.01	1
Copper	3.3	0.49	2.2	0.43	0	5.3	0.27	0	3.6	0.44	0	4.2	0.45	0
Iron	12	3.9	15	5.5	0	35	12	0	31	20	0	21	8.1	0
Lead	0.02	0.008	0.02	0.01	0	0.08	0.07	0	0.03	0.02	0	0.02	0.006	0
Molybdenum	0.26	0.13	0.26	0.055	0	0.52	0.084	0	0.30	0.060	0	0.97	0.51	0
Nickel	0.66	0.16	0.55	0.12	0	1.7	0.72	0	0.90	0.33	0	1.3	0.38	0
Selenium	0.06	0.01	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Uranium	0.01	0.003	0.01	-	5	0.01	0	1	0.01	-	3	0.01	-	3
Vanadium	0.1	-	0.1	-	5	0.1	-	5	0.1	-	3	0.1	-	3
Zinc	6.4	1.6	7.0	0.87	0	7.7	0.79	0	6.9	0.46	0	7.4	0.81	0
Radionuclides														
Lead-210 (Bq/g)	0.004	0.004	0.004	0.003	2	0.001	0	3	0.004	0.0006	0	0.001	0.0006	2
Polonium-210 (Bq/g)	0.0016	0.00092	0.0023	0.0025	1	0.0011	0.00043	0	0.0021	0.0011	0	0.00080	0.00040	0
Radium-226 (Bq/g)	0.003	0.001	0.004	0.001	0	0.002	0.001	1	0.003	0.0008	0	0.003	0.001	0
Thorium-230 (Bq/g)	0.001	-	0.002	-	5	0.001	-	5	0.001	0.00	2	0.001	-	3

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Stony Rapids													
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2015 (n = 3)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements														
Aluminum	15	10	244	43		8.9	0.86	0	17	6.4	0	16	2.5	0
Arsenic	0.05	-	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Cadmium	0.01	0.003	0.01	-	5	0.01	-	5	0.01	-	3	0.01	-	3
Cobalt	0.02	0.02	0.01	-	5	0.03	0.04	1	0.01	0	2	0.01	0	0
Copper	2.5	0.49	2.4	0.25		4.3	0.19	0	3.4	0.21	0	3.3	0.23	0
Iron	15	7.2	11	0.91		14	0.84	0	17	3.5	0	19	2.6	0
Lead	0.03	0.03	0.01	0.004	3	0.01	0.004	2	0.10	0.1	0	0.03	0.03	0
Molybdenum	0.2	0.1	0.1	0.04	2	0.2	0	0	0.1	0	2	0.1	0	0
Nickel	0.59	0.19	0.33	0.073		1.0	0.31	0	0.70	0.080	0	0.61	0.064	0
Selenium	0.05	0	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Uranium	0.01	0.004	0.01	-	5	0.01	0.009	3	0.01	-	3	0.01	-	3
Vanadium	0.1	-	0.1	-	5	0.1	-	5	0.1	-	3	0.1	-	3
Zinc	4.7	1.0	6.3	0.75		5.5	0.38	0	5.4	0.20	0	6.3	0.67	0
Radionuclides														
Lead-210 (Bq/g)	0.008	0.003	0.005	0.001	4	0.001	0	3	0.002	0	0	0.002	0	1
Polonium-210 (Bq/g)	0.0016	0.00070	0.0010	0	3	0.0006	0.0002	1	0.0013	0.00012	0	0.0010	0.00010	0
Radium-226 (Bq/g)	0.003	0.002	0.014	0.0015		0.004	0.005	0	0.003	0.001	0	0.002	0.0006	0
Thorium-230 (Bq/g)	0.002	-	0.002	-	5	0.001	-	5	0.001	0.0	2	0.001	-	3

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Uranium City				
	Baseline (n = 5)		2014 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL
Metals and Trace Elements					
Aluminum	5.9	1.6	9.3	1.7	0
Arsenic	0.05	-	0.05	-	3
Cadmium	0.01	-	0.01	-	3
Cobalt	0.01	0.004	0.03	0.03	2
Copper	3.5	0.4	4.1	0	0
Iron	10	1.3	14	0	0
Lead	0.01	0.004	0.03	0.03	1
Molybdenum	0.2	0.1	0.2	0	0
Nickel	0.51	0.055	0.43	0.067	0
Selenium	0.05	-	0.05	-	3
Uranium	0.01	-	0.01	0	2
Vanadium	0.1	-	0.1	-	3
Zinc	5.8	0.9	6.5	0.15	0
Radionuclides					
Lead-210 (Bq/g)	0.006	0.008	0.003	0.002	0
Polonium-210 (Bq/g)	0.00276	0.0014	0.0030	0.00015	0
Radium-226 (Bq/g)	0.022	0.044	0.002	0.001	0
Thorium-230 (Bq/g)	0.0012	0.0004	0.001	-	3

Appendix A, Table 2

Summary blueberry chemistry results for the EARMP community program.

Chemical[1]	Wollaston Lake/Hatchet Lake													
	Baseline (n = 10)		2013 (n = 5)			2014 (n = 5)			2015 (n = 3)			2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals and Trace Elements														
Aluminum	12	7.77	7.0	0.32	0	11	0.84	0	19	7.9	0	13	2.5	0
Arsenic	0.05	-	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Cadmium	0.01	-	0.01	-	5	0.01	-	5	0.01	-	3	0.01	-	3
Cobalt	0.01	0.003	0.01	0	3	0.08	0.09	0	0.02	0.01	0	0.01	0.006	0
Copper	2.8	0.51	1.8	0.21	0	4.5	0.15	0	3.5	0.15	0	3.5	0.36	0
Iron	13	5.5	9.4	0.55	0	17	0.55	0	20	7.6	0	13	1.2	0
Lead	0.02	0.01	0.02	0.009	3	0.02	0.005	2	0.02	0.006	0	0.03	0.02	0
Molybdenum	0.1	0.07	0.1	0.04	3	0.4	0.05	0	0.1	0.06	0	0.2	0.06	0
Nickel	0.56	0.13	0.22	0.026	0	1.2	0.22	0	1.1	0.42	0	0.61	0.068	0
Selenium	0.05	0	0.05	-	5	0.05	-	5	0.05	-	3	0.05	-	3
Uranium	0.01	0.003	0.01	-	5	0.01	0.009	3	0.01	-	3	0.01	-	3
Vanadium	0.1	-	0.1	-	5	0.1	-	5	0.1	-	3	0.1	-	3
Zinc	5.7	1.5	5.9	0.45		7.5	0.33	0	6.6	0.53	0	5.6	0.29	0
Radionuclides														
Lead-210 (Bq/g)	0.005	0.004	0.006	0.004	2	0.001	0	4	0.002	0	1	0.004	0.0006	0
Polonium-210 (Bq/g)	0.0022	0.0013	0.0012	0.00045	4	0.0007	0.00019	0	0.0013	0.00031	0	0.0015	0.00040	0
Radium-226 (Bq/g)	0.003	0.002	0.006	0.002	0	0.004	0.0011	0	0.005	0.0008	0	0.002	0.001	1
Thorium-230 (Bq/g)	0.002	-	0.002	-	5	0.001	-	5	0.001	-	3	0.001	-	3

[1]All concentrations are in µg/g on a dry weight basis, unless specified otherwise.

[2]Regional reference data are from the AWG program (2000 to 2010) and the Uranium City Country Foods program (2011). Data are not available from all communities in all years. The median corresponds to the 50th percentile, while the lower and upper limits are the 2.5th and 97.5th percentiles that delimit the 95% range of the reference data.

[3]Regional reference ranges could not be computed when all or nearly all values were lower than the reported detection limit (RDL).

S.D. = Standard deviation; S.D. of 0 signify "no variance between samples"; "-" indicates insufficient data to calculate S.D.

<RDL = less than the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

Appendix A, Table 3

Summary bog cranberry chemistry results for the EARMP community program.

Chemical[1]	Regional Reference Range[2, 3]			
	Lower Limit	Median	Upper Limit	n
Metals				
Aluminum	6.5	21.1	79.9	18
Arsenic	-	-	-	55
Cadmium	<0.01	<0.01	0.03	18
Cobalt	<0.01	<0.01	0.02	18
Copper	2.4	3.7	5.7	55
Iron	8.4	12.1	87.6	55
Lead	<0.01	0.02	0.05	18
Molybdenum	<0.1	<0.1	0.2	55
Nickel	<0.1	0.35	0.79	55
Selenium	-	-	-	55
Uranium	0.001	0.003	0.029	37
Vanadium	-	-	-	55
Zinc	4.9	7.2	10.5	55
Radionuclides				
Lead-210 (Bq/g)	<0.0003	0.0015	0.0045	17
Polonium-210 (Bq/g)	-	-	-	0
Radium-226 (Bq/g)	<0.0003	0.0018	0.01	55
Thorium-230 (Bq/g)	-	-	-	0

Appendix A, Table 3

Summary bog cranberry chemistry results for the EARMP community program.

Chemical[1]	Camsell Portage										
	Baseline (n = 5)		2014 (n = 2)			2015 (n = 3)			2016 (n = 3)		
	Average	SD	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals											
Aluminum	18	1.3	17	-	0	19	2.5	0	22	0.58	0
Arsenic	0.05	0	0.05	-	2	0.05	-	3	0.05	-	3
Cadmium	0.01	0	0.01	-	2	0.01	0	1	0.01	-	3
Cobalt	0.01	0	0.01	-	0	0.02	0	0	0.01	0	2
Copper	4.4	0.52	4.2	-	0	4.3	0.50	0	3.6	0.058	0
Iron	10	0.54	15	-	0	14	2.1	0	9.0	0.25	0
Lead	0.01	0.004	0.02	-	1	0.02	0.01	2	0.01	0.006	1
Molybdenum	0.1	0.05	0.1	-	2	0.2	0	0	0.1	-	3
Nickel	0.49	0.10	0.53	-	0	0.38	0.029	0	0.27	0.045	0
Selenium	0.05	0	0.05	-	2	0.05	-	3	0.05	-	3
Uranium	0.01	0.004	0.01	-	1	0.02	0	2	0.01	-	3
Vanadium	0.1	0	0.1	-	2	0.1	-	3	0.1	-	3
Zinc	6.3	0.57	6.2	-	0	7.9	0.12	0	7.0	0.15	0
Radionuclides											
Lead-210 (Bq/g)	0.013	0.006	0.001	-	1	0.002	0	0	0.003	0.001	0
Polonium-210 (Bq/g)	0.0022	0.00084	0.0011	-	0	0.0010	0	0	0.0010	0.00010	0
Radium-226 (Bq/g)	0.004	0.002	0.0007	-	1	0.001	0.0006	0	0.002	0	0
Thorium-230 (Bq/g)	0.002	0	0.001	-	2	0.001	-	3	0.001	-	3

Appendix A, Table 3

Summary bog cranberry chemistry results for the EARMP community program.

Chemical[1]	Uranium City												
	Baseline (n = 5)		2013 (n = 5)			2014 (n = 2)			2015 (n = 1)		2016 (n = 3)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Value	<RDL	Average	S.D.	<RDL
Metals													
Aluminum	22	5.8	40	15	0	23	-	0	20	0	20	4.4	0
Arsenic	0.05	-	0.05	-	5	0.05	-	2	0.05	1	0.05	-	3
Cadmium	0.01	-	0.02	0.004	1	0.01	-	2	0.01	1	0.01	-	3
Cobalt	0.04	0.05	0.02	0.004	0	0.05	-	0	0.01	1	0.02	0.006	0
Copper	3.6	1.4	2.5	0.42	0	6.0	-	0	3.4	0	4.6	0.69	0
Iron	15	3.9	18	7.2	0	13	-	0	12	0	12	2.1	0
Lead	0.01	0.004	0.06	0.08	0	0.04	-	0	0.02	0	0.053	0.051	0
Molybdenum	0.1	-	0.1	0	1	0.2	-	0	0.1	0	0.5	0.3	0
Nickel	0.62	0.33	0.34	0.11	0	0.59	-	0	0.74	0	0.48	0.21	0
Selenium	0.05	-	0.05	-	5	0.05	-	2	0.05	1	0.05	-	3
Uranium	0.01	0.004	0.01	0.009	4	0.02	-	1	0.01	1	0.01	-	3
Vanadium	0.1	-	0.1	-	5	0.1	-	2	0.1	1	0.1	-	3
Zinc	6.8	1.5	7.5	0.80	0	6.7	-	0	5.3	0	7.0	0.55	0
Radionuclides													
Lead-210 (Bq/g)	0.010	0.006	0.007	0.005	3	0.004	-	0	0.003	0	0.003	0.002	0
Polonium-210 (Bq/g)	0.0052	0.0045	0.0012	0.00045	1	0.0038	-	0	0.0027	0	0.0017	0.00060	0
Radium-226 (Bq/g)	0.002	0.003	0.002	0.0008	1	0.003	-	0	0.003	0	0.0008	0.0001	0
Thorium-230 (Bq/g)	0.002	-	0.002	-	5	0.001	-	2	0.001	1	0.001	-	3

[1]All concentrations are in µg/g on a dry weight basis, unless specified otherwise.

[2]Regional reference data are from the AWG program (2000 to 2010) and the Uranium City Country Foods program (2011). Data are not available from all communities in all years. The median corresponds to the 50th percentile, while the lower and upper limits are the 2.5th and 97.5th percentiles that delimit the 95% range of the reference data.

[3]Regional reference ranges could not be computed when all or nearly all values were lower than the reported detection limit (RDL).

S.D. = Standard deviation; S.D. of 0 signify "no variance between samples"; "-" indicates insufficient data to calculate S.D.

<RDL = less than the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

Appendix A, Table 4

Summary barren-ground caribou flesh chemistry results for the EARMP community program.

Chemical[1]	Regional Reference Range[2, 3]			
	Lower Limit	Median	Upper Limit	n
Metals				
Aluminum	0.02	0.3	1.1	11
Arsenic	0.01	0.04	0.18	32
Cadmium	0.002	0.004	0.01	13
Cobalt	0.001	0.004	0.009	13
Copper	1.7	2.9	4.9	30
Iron	25	39	62	32
Lead	0.003	0.003	0.39	13
Molybdenum	-	-	-	32
Nickel	0.01	0.02	0.04	32
Selenium	0.06	0.28	0.69	32
Uranium	0.001	0.001	0.003	32
Vanadium	-	-	-	32
Zinc	9	29	55	32
Radionuclides				
Lead-210 (Bq/g)	0.001	0.001	0.003	32
Polonium-210 (Bq/g)	-	-	-	0
Radium-226 (Bq/g)	0.00003	0.00006	0.00011	25
Thorium-230 (Bq/g)	-	-	-	0

Appendix A, Table 5

Summary barren-ground caribou flesh chemistry results for the EARMP community program.

Chemical[1]	Black Lake										
	Baseline (n = 10)		2013/2014 (n = 5)			2014/2015 (n = 5)			2016/2017		
	Average	S.D.	Average	S.D.	< RDL	Average	S.D.	< RDL	1	2	Average
Metals											
Aluminum	0.5	0	0.7	0.3	2	0.5	-	5	<0.5	<0.5	0.5
Arsenic	0.02	0.008	0.01	0	2	0.03	0.009	0	0.03	0.02	0.03
Cadmium	0.003	0.002	0.003	0.001	1	0.002	-	4	0.003	0.005	0.004
Cobalt	0.004	0.002	0.002	0	3	0.010	0.0038	3	0.004	0.006	0.01
Copper	3.3	0.54	3.6	0.96	0	4.1	1.0	0	2.5	2.6	2.6
Iron	41	6.6	47	9.1	0	43	8.5	0	35	33	34
Lead	0.084	0.17	0.12	0.25	1	0.008	0.004	1	0.043	0.006	0.025
Molybdenum	0.02	-	0.02	-	5	0.02	-	5	<0.02	<0.02	0.02
Nickel	0.01	0.005	0.01	-	5	0.02	0.02	5	0.01	<0.01	0.01
Selenium	0.19	0.034	0.20	0.036	0	0.21	0.027	0	0.17	0.18	0.18
Uranium	0.001	0	0.001	-	5	0.001	-	5	<0.001	<0.001	0.001
Vanadium	0.02	-	0.02	-	5	0.02	-	5	<0.02	<0.02	0.02
Zinc	26	6.2	23	4.4	0	23	13.6	0	35	46	41
Radionuclides											
Lead-210 (Bq/g)	0.001	0	0.001	-	5	0.001	-	5	<0.001	<0.001	0.001
Polonium-210 (Bq/g)	0.0080	0.0032	0.015	0.0044	0	0.015	0.0023	0	0.0081	0.0063	0.007
Radium-226 (Bq/g)	0.003	0.003	0.0002	0.0001	2	0.0001	0.00007	2	<0.00007	<0.00005	0.00006
Thorium-230 (Bq/g)	0.0001	-	0.0001	-	5	0.0001	0.00005	5	<0.0001	<0.0001	0.0001

Appendix A, Table 5

Summary barren-ground caribou flesh chemistry results for the EARMP community program.

Chemical[1]	Fond du Lac												
	Baseline (n = 11)		2013/2014 (n = 5)			2014/2015 (n = 3)			2015/2016 (n = 2)		2016/2017		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	Average	<RDL	1	2	Average
Metals													
Aluminum	0.5	-	0.5	0	4	0.5	0.06	2	0.5	2	<0.5	<0.5	0.5
Arsenic	0.01	0.005	0.01	0.009	4	0.01	0	1	0.01	0	0.03	<0.01	0.02
Cadmium	0.02	0.04	0.003	0.001	1	0.005	0.002	0	0.01	0	0.004	0.004	0.004
Cobalt	0.005	0.003	0.004	0.001	1	0.005	0.001	0	0.005	0	0.005	0.003	0.004
Copper	3.2	0.84	3.9	0.71	0	2.7	0.80	0	2.8	0	2.4	3.4	2.9
Iron	39	8.0	43	9.2	0	40	6.4	0	42	0	34	61	48
Lead	0.005	0.004	0.002	0.0004	3	0.003	0.001	2	0.007	1	0.004	0.005	0.005
Molybdenum	0.02	-	0.02	-	5	0.02	-	3	0.02	2	<0.02	<0.02	0.02
Nickel	0.02	0.02	0.01	-	5	0.01	0	2	0.01	2	<0.01	<0.01	0.01
Selenium	0.17	0.060	0.19	0.021	0	0.17	0.015	0	0.16	0	0.15	0.20	0.18
Uranium	0.001	0.0004	0.001	-	5	0.001	-	3	0.001	2	<0.001	<0.001	0.001
Vanadium	0.02	-	0.02	-	5	0.02	-	3	0.02	2	<0.02	<0.02	0.02
Zinc	30	18	26	3.2	0	36	20	0	36	0	39	14	27
Radionuclides													
Lead-210 (Bq/g)	0.002	0.002	0.001	-	5	0.001	-	3	0.001	2	<0.001	<0.001	0.001
Polonium-210 (Bq/g)	0.012	0.0057	0.012	0.0015	0	0.0075	0.00045	0	0.0016	0	0.0071	0.012	0.0096
Radium-226 (Bq/g)	0.00008	0.00004	0.00007	0.000009	3	0.00007	0.00001	2	0.00008	0	<0.00008	<0.00009	0.00008
Thorium-230 (Bq/g)	0.0001	0.00007	0.0001	-	5	0.0001	-	3	0.0001	2	<0.0002	<0.0002	0.0002

Appendix A, Table 5

Summary barren-ground caribou flesh chemistry results for the EARMP community program.

Chemical[1]	Stony Rapids							
	Baseline (n = 8)		2013/2014 (n = 3)			2014/2015 (n = 5)		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL
Metals								
Aluminum	0.6	0.31	0.5	-	3	0.5	-	5
Arsenic	0.01	0.004	0.02	0.01	0	0.02	0.006	0
Cadmium	0.003	0.0008	0.004	0.004	1	0.004	0.002	2
Cobalt	0.004	0.001	0.003	0.001	0	0.004	0.001	0
Copper	4.1	0.56	2.5	0.81	0	3.5	0.62	0
Iron	52	3.7	39	1.2	0	44	5.5	0
Lead	0.017	0.027	0.030	0.024	0	0.004	0.003	2
Molybdenum	0.02	-	0.020	-	3	0.02	-	4
Nickel	0.01	0	0.08	0.087	1	0.01	-	5
Selenium	0.22	0.022	0.14	0.025	0	0.19	0.017	0
Uranium	0.001	0.0004	0.001	-	3	0.001	0.0004	4
Vanadium	0.02	-	<0.02	-	3	0.02	-	5
Zinc	19	6.5	35	16.1	0	22	9.8	0
Radionuclides								
Lead-210 (Bq/g)	0.001	0.0004	0.001	0.0006	2	0.001	-	4
Polonium-210 (Bq/g)	0.013	0.0123	0.008	0.0021	0	0.022	0.0069	0
Radium-226 (Bq/g)	0.001	0.0005	0.00006	-	3	0.00008	0.00001	2
Thorium-230 (Bq/g)	0.002	-	0.0001	-	3	0.0002	-	5

Appendix A, Table 5

Summary barren-ground caribou flesh chemistry results for the EARMP community program.

Chemical[1]	Wollaston Lake/Hatchet Lake										
	Baseline (n = 10)		2013/2014 (n = 5)			2014/2015 (n = 4)			2016/2017		
	Average	S.D.	Average	S.D.	<RDL	Average	S.D.	<RDL	1	2	Average
Metals											
Aluminum	0.52	0.063	0.5	0.04	4	0.5	-	4	<0.5	<0.5	0.5
Arsenic	0.01	0.005	0.01	0.005	2	0.01	0.005	2	0.03	0.03	0.03
Cadmium	0.004	0.002	0.002	0.0004	0	0.010	0.012	0	0.004	0.004	0.004
Cobalt	0.005	0.002	0.004	0.002	1	0.009	0.006	0	0.003	0.004	0.004
Copper	3.2	0.68	3.3	0.59	0	3.2	0.48	0	3.0	3.6	3.3
Iron	41	11	39	9.2	0	39	11	0	45	38	42
Lead	0.015	0.018	0.003	0.001	3	0.28	0.55	3	0.52	0.014	0.27
Molybdenum	0.02	-	0.02	-	5	0.02	-	4	<0.02	<0.02	0.02
Nickel	0.01	0.003	0.01	-	5	0.01	-	4	<0.01	<0.01	0.01
Selenium	0.16	0.026	0.18	0.032	0	0.16	0.021	0	0.20	0.22	0.21
Uranium	0.001	-	0.001	-	5	0.001	-	4	<0.001	<0.001	0.001
Vanadium	0.02	-	0.02	-	5	0.02	-	4	<0.02	<0.02	0.02
Zinc	29	11.6	18	3.8	0	26	6.2	0	43	38	41
Radionuclides											
Lead-210 (Bq/g)	0.001	0.0003	0.001	-	5	0.001	-	4	<0.001	<0.001	0.001
Polonium-210 (Bq/g)	0.013	0.0029	0.011	0.0032	0	0.0063	0.0015	0	0.0075	0.0082	0.0079
Radium-226 (Bq/g)	0.00007	0.00001	0.0001	0.00006	3	0.00007	0.00002	3	<0.00007	<0.00007	0.00007
Thorium-230 (Bq/g)	0.0001	-	0.0001	0.00005	5	0.0001	-	4	<0.0001	<0.0001	0.0001

[1]All concentrations are reported in µg/g wet weight basis, except when specified otherwise.

[2]Regional reference data are from the AWG program (2000 to 2010) and the Uranium City Country Foods program (2011). Data are not available from all communities in all years. The median corresponds to the 50th percentile, while the lower and upper limits are the 2.5th and 97.5th percentiles that delimit the 95% range of the reference data.

[3]Regional reference ranges could not be computed when all or nearly all values were lower than the reported detection limit (RDL).

<RDL = less than the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

Appendix A, Table 6

Summary moose flesh chemistry results for the EARMP community program.

Chemical[1]	Regional Reference Range[2, 3]			
	Lower Limit	Median	Upper Limit	n
Metals and Trace Elements				
Aluminum	0.2	0.5	10.9	40
Arsenic	0.01	0.02	0.21	37
Cadmium	0.002	0.004	0.014	10
Cobalt	0.007	0.015	0.031	10
Copper	0.7	1.3	2.1	40
Iron	14	30	53	40
Lead	0.002	0.010	0.032	10
Molybdenum	-	-	-	40
Nickel	0.01	0.01	0.10	38
Selenium	0.05	0.23	0.53	37
Uranium	0.001	0.001	0.011	36
Vanadium	-	-	-	40
Zinc	19	48	79	40
Radionuclides				
Lead-210 (Bq/g)	0.0001	0.0002	0.0013	35
Polonium-210 (Bq/g)	-	-	-	1
Radium-226 (Bq/g)	0.00005	0.00005	0.00009	35
Thorium-230 (Bq/g)	-	-	-	1

Appendix A, Table 7

Summary moose flesh chemistry results for the EARMP community program.

Chemical[1]	Camsell Portage								Fond Du Lac	Stoney Rapids
	Baseline (n = 4)		2013/2014 (n = 2)		2014/2015 (n = 2)		2015/2016 (n = 2)		2016 (n = 1)	2016 (n = 1)
	Average	S.D.	Average	<RDL	Average	<RDL	Average	<RDL		
Metals										
Aluminum	2.2	1.5	0.5	2	2.5	0	2.8	0	0.6	0.5
Arsenic	0.01	-	0.01	2	0.01	2	0.01	2	<0.01	0.01
Cadmium	0.003	0.002	0.003	0	0.027	0	0.005	0	0.002	0.002
Cobalt	0.014	0.0054	0.014	0	0.018	0	0.011	0	0.011	0.019
Copper	1.7	0.34	1.7	0	1.0	0	1.2	0	1.5	1.7
Iron	25	3.3	32	0	27	0	29	0	38	29
Lead	0.010	0.010	0.003	1	0.020	0	0.003	0	0.01	0.01
Molybdenum	0.02	-	0.02	2	0.02	2	0.02	2	<0.02	<0.02
Nickel	0.02	0.006	0.01	2	0.01	2	0.02	1	<0.01	0.02
Selenium	0.12	0.059	0.06	0	0.08	0	0.15	0	0.1	0.09
Uranium	0.001	-	0.001	2	0.002	1	0.002	1	<0.001	<0.001
Vanadium	0.02	-	0.02	2	0.02	2	0.02	2	<0.02	<0.02
Zinc	39	10	52	0	61	0	55	0	53	49
Radionuclides										
Lead-210 (Bq/g)	0.0008	-	0.001	2	0.001	2	0.001	2	<0.001	<0.001
Polonium-210 (Bq/g)	0.0009	0.00090	0.0003	1	0.0003	1	0.0008	0	0.0003	0.0006
Radium-226 (Bq/g)	0.00010	0.000066	0.00007	0	0.00006	2	0.00007	0	<0.00005	<0.00007
Thorium-230 (Bq/g)	0.0001	0.00006	0.0001	2	0.0001	2	0.00010	2	<0.0001	<0.0001

Appendix A, Table 7

Summary moose flesh chemistry results for the EARMP community program.

Chemical[1]	Uranium City							
	Baseline (n = 7)		2013/2014 (n = 3)			2014/2015 (n = 1)	2015/2016 (n = 1)	2016 (n = 1)
	Average	S.D.	Average	S.D.	<RDL			
Metals								
Aluminum	0.8	0.76	0.5	0.1	2	0.6	<0.5	0.5
Arsenic	0.01	0	0.01	-	3	<0.01	<0.01	<0.01
Cadmium	0.005	0.0030	0.004	0.001	0	0.056	0.018	0.011
Cobalt	0.012	0.0047	0.010	0.0015	0	0.009	0.044	0.009
Copper	1.8	0.92	1.7	0.26	0	1.9	1.5	1.8
Iron	33	6.9	32	5.7	0	36	33	25
Lead	0.003	0.001	0.01	0.01	0	0.003	0.002	0.01
Molybdenum	0.02	-	0.02	-	3	<0.02	<0.02	<0.02
Nickel	0.01	0.005	0.01	-	3	<0.01	<0.01	0.02
Selenium	0.12	0.034	0.10	0.021	0	0.14	0.08	0.13
Uranium	0.001	0.0008	0.001	-	3	<0.001	<0.001	<0.001
Vanadium	0.02	-	0.02	-	3	<0.02	<0.02	<0.02
Zinc	52	13	49	6.1	0	52	52	35
Radionuclides								
Lead-210 (Bq/g)	0.0007	0.0007	0.001	-	3	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0006	0.0008	0.0004	0.0001	0	0.0016	0.001	0.0008
Radium-226 (Bq/g)	0.00007	-	0.00008	0.00003	1	<0.00005	0.00006	<0.00009
Thorium-230 (Bq/g)	0.0001	0.00005	0.0001	-	3	<0.0001	<0.0001	<0.0002

[1]All concentrations are reported on a µg/g wet weight basis, except when specified otherwise.

[2]Regional reference data are from the AWG program. Data used are from 2000 to 2010. However, data are not available from all communities in all years.

[3]Regional reference ranges could not be computed when all or nearly all values were lower than the reported detection limit (RDL).

S.D. = Standard deviation; S.D. of 0 signify "no variance between samples"; "-" indicates insufficient data to calculate S.D.

<RDL = less than the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

Appendix A, Table 8

Summary additional mammal chemistry results (snowshoe hare) collected from Uranium City and Camsell Portage, 2013/2014.

Chemical[1]	Camsell Portage						Uranium City				
	Baseline[2]			2013/2014			Baseline[2]			2013/2014	
	Average	S.D.	N	1	2	3	Average	S.D	N	1	2
Metals											
Aluminum	0.5	0.04	5	<0.5	<0.5	<0.5	0.5	0.04	5	<0.5	0.5
Cadmium	0.002	-	5	<0.002	0.004	0.006	0.004	0.0033	5	<0.002	0.0050
Copper	1.8	0.38	5	1.9	2.1	1.8	1.8	0.37	5	2.4	2.10
Iron	26	6.6	5	19	25	20	26	3.6	5	21	31.0
Lead	0.003	0.0005	5	0.003	0.002	0.002	0.003	0.0017	5	0.002	<0.002
Molybdenum	0.02	-	5	<0.02	<0.02	<0.02	0.02	-	5	<0.02	<0.02
Nickel	0.01	0	5	<0.01	<0.01	0.07	0.02	0.009	5	0.02	0.050
Selenium	0.06	0.012	5	0.03	0.08	0.14	0.06	0.044	5	0.15	0.070
Uranium	0.001	-	5	<0.001	<0.001	<0.001	0.001	-	5	<0.001	<0.001
Zinc	13	3.2	5	13	11	16	15	4.7	5	10	16.0
Radionuclides											
Lead-210 (Bq/g)	0.001	-	5	<0.001	<0.001	<0.001	0.001	-	5	<0.001	<0.001
Polonium-210 (Bq/g)	0.002	0.0007	5	0.002	0.002	0.002	0.002	0.0004	5	0.002	0.00150
Radium-226 (Bq/g)	0.00017	0.000097	5	0.00010	<0.00006	0.00010	0.00011	0.000050	5	0.00010	<0.00007
Thorium-230 (Bq/g)	0.0001	-	5	<0.0001	<0.0001	<0.0001	0.0001	-	5	<0.0002	<0.0001
Trace Elements											
Arsenic	0.01	-	5	<0.01	<0.01	<0.01	0.01	-	5	0.02	<0.01
Cobalt	0.004	0.0008	5	<0.002	0.005	0.032	0.006	0.0027	5	0.005	0.0040
Vanadium	0.02	-	5	<0.02	<0.02	<0.02	0.02	-	5	<0.02	<0.02

[1]All concentrations are reported in µg/g wet weight basis, except when specified otherwise.

[2]Baseline data for snowshoe hare were collected in 2011 as part of the Uranium City County Foods Program (CanNorth and SENES 2012). Values less than RDLs were set equal to RDLs for the calculation of average and standard deviations.

S.D. = Standard deviation; standard deviations of 0 signify "no variance between samples," not "a very small variance."

Appendix A, Table 9

Summary barren-ground caribou and moose organ chemistry results for the EARMP community program.

Chemical[1]	Caribou								
	Black Lake			Fond du Lac				Wollaston Lake	
	Heart (n = 1)	Kidney (n = 2)		Heart (n = 1)	Kidney (n = 5)		Liver (n = 1)	Liver (n = 3)	
		Average	<RDL		Average	<RDL		Average	<RDL
Metals									
Aluminum	<0.5	0.6	1	<0.5	0.5	5	<0.5	0.6	1
Arsenic	0.01	0.02	0	0.01	0.01	2	<0.01	0.02	0
Cadmium	0.004	5.8	0	0.002	8.0	0	0.004	1.2	0
Cobalt	0.014	0.049	0	0.02	0.036	0	0.013	0.088	0
Copper	4.5	4.3	0	4.5	4.2	0	3.3	40	0
Iron	55	31	0	59	46	0	37	165	0
Lead	0.005	0.056	0	0.01	0.086	0	0.003	0.087	0
Molybdenum	<0.02	0.18	0	<0.02	0.13	0	<0.02	0.87	0
Nickel	<0.01	0.02	1	0.01	0.01	3	0.02	0.01	2
Selenium	0.27	0.97	0	0.26	1.3	0	0.18	0.40	0
Uranium	<0.001	0.001	2	<0.001	0.001	5	<0.001	0.004	3
Vanadium	<0.02	0.02	2	<0.02	0.02	5	<0.02	0.02	3
Zinc	19	24	0	20	26	0	37	30	0
Radionuclides									
Lead-210 (Bq/g)	<0.001	0.036	0	<0.001	0.064	0	<0.001	0.029	1
Polonium-210 (Bq/g)	0.012	0.070	0	0.0092	0.081	0	0.0088	0.12	0
Radium-226 (Bq/g)	<0.00006	0.0003	1	<0.00007	0.0005	0	<0.00006	0.0001	2
Thorium-230 (Bq/g)	<0.0001	0.0003	2	<0.0001	0.0004	4	<0.0001	0.0002	3

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

<RDL = less than the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

Appendix A, Table 9

Summary barren-ground caribou and moose organ chemistry results for the EARMP community program.

Chemical[1]	Moose								
	Camsell Portage				Stony Rapids	Uranium City			
	Liver (n = 3)		Kidney (n = 4)		Kidney (n = 1)	Liver (n = 3)		Kidney (n = 3)	
	Average	<RDL	Average	<RDL		Average	<RDL	Average	<RDL
Metals									
Aluminum	0.7	1	0.7	3	<0.5	0.8	2	0.5	3
Arsenic	0.01	3	0.01	4	0.01	0.01	2	0.01	2
Cadmium	1.2	0	6.7	0	0.73	0.64	0	12.2	0
Cobalt	0.21	0	0.14	0	0.29	0.067	0	0.15	0
Copper	33	0	3.1	0	13.2	18.9	0	2.7	0
Iron	137	0	61	0	200	313	0	35	0
Lead	0.003	1	0.003	2	0.004	0.009	1	0.005	1
Molybdenum	1.0	0	0.33	0	1.1	0.49	1	0.20	0
Nickel	0.01	3	0.05	0	0.02	0.01	3	0.05	0
Selenium	0.45	0	0.87	0	0.24	0.30	0	0.69	0
Uranium	0.007	3	0.001	4	<0.001	0.004	3	0.001	3
Vanadium	0.02	3	0.02	4	<0.02	0.02	3	0.02	3
Zinc	18	0	21	0	27	17	0	24	0
Radionuclides									
Lead-210 (Bq/g)	0.001	2	0.002	2	0.001	0.001	1	0.001	0
Polonium-210 (Bq/g)	0.01	0	0.01	0	0.0042	0.0032	0	0.0044	0
Radium-226 (Bq/g)	0.0001	1	0.0002	1	<0.00008	0.0002	0	0.0001	2
Thorium-230 (Bq/g)	0.0002	3	0.0002	4	<0.0002	0.0001	3	0.0001	3

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

<RDL = less than the laboratory reported detection limit.

Values less than the RDL were set equal to the RDL when calculating summary statistics.

APPENDIX B

RAW DATA

LIST OF TABLES

Appendix B, Table 1	Detailed fish flesh chemistry data from the EARMP community program 2011 to 2016.
Appendix B, Table 2	Detailed blueberry chemistry results for the EARMP community program, 2011 to 2016.
Appendix B, Table 3	Detailed bog cranberry chemistry results for the EARMP community program, 2011 to 2016.
Appendix B, Table 4	Detailed barren-ground caribou flesh chemistry results for the EARMP community program, 2012 to 2017.
Appendix B, Table 5	Detailed moose flesh chemistry results for the EARMP community program, 2011 to 2016.
Appendix B, Table 6	Detailed snowshoe hare flesh chemistry results for the EARMP community program, 2011 to 2014.
Appendix B, Table 7	Detailed moose and caribou liver and kidney chemistry results from the EARMP community program, 2014 to 2017.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Black Lake (Black Lake)																						
	Lake Trout																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.7	<0.5	0.6
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.05	0.06	0.07	0.05	0.10	0.06	0.14	0.07	0.06	0.06	0.05	0.04	0.04	0.05	0.06	0.07	0.1	0.04	0.04	0.07	0.1	0.07	0.07
Barium	0.02	0.03	0.01	<0.01	0.03	<0.01	0.01	0.01	0.02	0.01	0.01	<0.01	<0.01	0.01	0.02	0.01	0.03	0.01	<0.01	<0.01	0.04	0.16	0.18
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	<0.002	0.002	0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005	0.003	0.002	0.006	<0.002	0.003	0.004	<0.002
Copper	0.27	0.41	0.31	0.22	1	0.31	0.31	0.43	0.18	0.25	0.22	0.24	0.26	0.25	0.23	0.42	0.35	0.19	0.45	0.23	0.29	0.24	0.21
Iron	1.9	3.3	2	4.5	6	2.2	2	2.6	1.5	2.9	1.7	2	2	1.6	1.5	3.9	3.3	1.4	2.8	1.8	3.6	2.8	2.4
Lead	<0.002	0.004	<0.002	<0.002	<0.002	0.002	<0.002	0.002	<0.002	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.007	<0.002	<0.002	<0.002	0.003	0.004	0.005
Manganese	0.06	0.08	0.08	0.08	0.09	0.08	0.06	0.05	0.07	0.1	0.08	0.06	0.09	0.09	0.06	0.1	0.12	0.07	0.08	0.09	0.12	0.14	0.08
Mercury	0.45	0.41	0.37	0.33	0.37	0.16	0.16	0.18	0.36	0.35	0.42	0.5	0.45	0.37	0.28	0.37	0.53	0.37	0.45	0.5	0.4	0.31	0.35
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.04	0.01	<0.01	<0.01	0.02	0.01	<0.01
Selenium	0.11	0.15	0.15	0.11	0.13	0.15	0.18	0.17	0.18	0.16	0.13	0.11	0.13	0.17	0.16	0.18	0.14	0.13	0.15	0.16	0.15	0.16	0.15
Silver	<0.002	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.10	0.07	0.09	0.05	0.13	0.07	0.21	0.27	0.2	0.8	0.05	0.03	0.23	0.27	0.07	0.15	0.12	0.08	0.3	0.06	0.19	0.68	0.1
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.09	0.08	0.07	0.08	0.07	0.07	0.08	0.07	0.08	0.01	0.01	0.01	0.02	0.01	0.09	0.09	0.08	0.07	0.08	0.01	0.03	0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	2.9	4.7	2.5	2.2	5.9	3.6	4.7	4.4	3.6	6.3	3	3.2	4.1	3.5	3.3	5.5	4.1	2.5	4	2.5	5.8	4.2	3.7
Physical Properties																							
Moisture (%)	77.19	77.72	73.93	76.78	77.42	73.79	71.07	77.81	77.02	76.28	75.03	76.5	74.42	74.85	72.4	73.77	75.34	76.29	75.02	73.38	76.61	69.74	66.98
Length (cm)	44.9	51.2	48.7	48.3	50.5	51.3	52.7	51.2	62.5	65.2	54.0	56.0	53.2	54.8	49.6	52.6	53.2	53.5	50.5	54	48	52.4	50.5
Weight (g)	1730	1710	1480	1450	1740	1360	1740	1180	2060	2410	1940	2200	1720	1880	1760	1920	2240	1965	1900	2190	1580	1920	1580
Sex	F	M	M	F	M	F	M	M	F	M	F	F	M	M	M	M	F	F	M	M	M	M	M
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	12	10	7	10	10	7	7	6	27	19	12	17	13	13	13	14	14	9	14	14	15	14	16
Radionuclides																							
Lead-210 (Bq/g)	0.002	<0.001	0.002	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00004	<0.00006	<0.00007	<0.00005	<0.00006	<0.00006	<0.0001	<0.00005	0.00005	<0.00006	<0.00006	0.0001	<0.00008	<0.00006	<0.00006	<0.00006	<0.00004	<0.00005	<0.00003	<0.00005	<0.00006	<0.00006	<0.00007
Thorium-230 (Bq/g)	<0.00009	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.00009	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.00007	<0.0001	<0.00007	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.
GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical	Black Lake (Black Lake)																						
	Lake Whitefish																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW08	LW09	LW10	LW01	LW02	LW03
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.25	0.27	0.40	0.14	0.37	0.04	0.05	0.08	0.14	0.04	0.01	0.03	0.03	0.03	0.02	0.2	0.16	0.2	0.07	0.2	0.04	0.38	0.24
Barium	0.06	0.13	0.09	<0.01	0.02	0.02	0.01	0.02	<0.01	0.02	0.02	0.02	0.02	0.01	0.01	<0.01	0.02	<0.01	<0.01	0.02	0.06	0.06	0.01
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.003	0.005	<0.002	0.003	0.003	<0.002	0.002	<0.002	<0.002	0.003	<0.002	0.002	<0.002	0.005	0.002	<0.002	<0.002	0.005	0.003	0.009	0.006	0.002	0.002
Copper	0.24	0.21	0.12	0.17	0.14	0.16	0.19	0.25	0.28	0.18	0.06	0.27	0.09	0.08	0.07	0.14	0.12	0.58	0.27	0.21	0.1	0.17	0.15
Iron	2.3	2.9	2.5	1.4	1.5	1	2	2.7	4	1.1	1.8	2.5	1.2	1.1	1.1	1.1	1.3	4	2.8	2.4	2.4	4	2.6
Lead	<0.002	0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.003	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.002	0.004	0.002
Manganese	0.18	0.39	0.22	0.06	0.09	0.06	0.07	0.11	0.06	0.06	0.08	0.07	0.07	0.05	0.04	0.08	0.11	0.09	0.09	0.1	0.1	0.17	0.13
Mercury	0.16	0.13	0.14	0.06	0.21	0.13	0.16	0.15	0.02	0.05	0.05	0.09	0.03	0.04	0.08	0.097	0.13	0.068	0.1	0.12	0.061	0.12	0.088
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	0.02	0.04
Selenium	0.30	0.35	0.25	0.36	0.31	0.28	0.24	0.26	0.15	0.2	0.2	0.23	0.3	0.18	0.19	0.27	0.34	0.29	0.25	0.36	0.32	0.44	0.43
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.79	0.24	1.20	0.28	0.22	0.27	0.31	0.25	0.16	0.17	0.55	0.45	0.47	0.47	0.42	0.27	0.49	0.25	0.21	0.28	0.69	0.15	0.31
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.09	0.08	0.08	0.08	0.07	0.08	0.09	0.08	0.08	0.02	0.01	0.02	0.01	<0.01	0.07	0.08	0.07	0.09	0.08	0.02	<0.01	0.01
Uranium	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	3.9	4.6	3.5	4.7	3.3	6.7	6.2	4.6	4.4	4.4	3.4	4.7	4	3.5	4	3.6	3.1	4.9	3.5	3.7	4.8	4.2	4.8
Physical Properties																							
Moisture (%)	75.22	76.01	76.93	75.27	75.79	74.3	72.89	75.74	78.39	76.9	79.98	78.5	79.92	79.2	78.64	75.64	76.94	77.68	75.67	75.1	75.55	80.28	76.47
Length (cm)	38.3	41.8	45.5	48.0	45.2	46.0	45.7	45.5	40.2	46.2	43.9	41.5	38	43.2	45.6	39.5	42.4	38	41	40.7	50.6	47.1	39.9
Weight (g)	840	1060	1360	890	1450	980	1020	920	760	1140	1200	920	660	1100	1320	950	1060	805	895	950	1580	1280	940
Sex	F	M	M	F	F	M	M	M	M	F	M	M	F	F	F	F	F	M	M	M	F	F	M
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	21	21	26	10	27	9	15	15	7	10	12	10	10	11	15	15	16	10	14	15	16	27	16
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.004	<0.004	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0002	<0.0002	0.0005	0.0007	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.0002	0.0004	0.0006	0.0003	0.0003	0.0002	0.0003	<0.0002	0.0003	<0.0002	0.0002	0.0004	0.0004	0.0006
Radium-226 (Bq/g)	<0.00006	<0.00006	0.00009	<0.00007	<0.00006	<0.00006	<0.00006	0.001	0.002	<0.00006	0.0002	<0.00007	0.0004	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00005	0.0002	<0.00006	<0.00005	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.002	<0.002	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2012 and 2016.

Chemical[1]	Uranium City (Prospectors Bay)[2]																	
	Lake Trout																	
	2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	AN1-1	AN1-1	AN1-1
	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03
Metals and Trace Elements																		
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5	0.7
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.07	0.07	0.08	0.07	0.13	0.07	0.04	0.04	0.07		0.06	0.04	0.07	0.05	0.2	0.09	0.08	0.19
Barium	0.01	0.03	0.02	0.02	0.03	<0.01	<0.01	<0.01	0.04	0.01	0.03	0.06	0.02	0.03	0.04	0.01	0.04	0.03
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	0.002	0.002	<0.002	<0.002	0.004
Copper	0.27	0.21	0.21	0.26	0.26	0.18	0.19	0.22	0.28	0.25	0.29	0.27	0.3	0.25	0.32	0.25	0.2	0.63
Iron	2.2	4.5	2.0	3.3	1.9	1.2	1.6	2.7	7.5	1.9	2.1	2.1	2.7	3.6	2.8	2.4	1.4	6.4
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.004	0.002	0.006	0.003	0.003	<0.002	<0.002	<0.002	<0.002	0.002	<0.002
Manganese	0.08	0.07	0.05	0.05	0.05	0.07	0.06	0.07	0.12	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.08	0.11
Mercury	0.17	0.24	0.23	0.21	0.13	0.13	0.15	0.23	0.09	0.1	0.16	0.11	0.14	0.29	0.16	0.12	0.14	0.18
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01
Selenium	0.18	0.17	0.17	0.18	0.17	0.15	0.14	0.18	0.15	0.13	0.15	0.15	0.14	0.15	0.14	0.11	0.16	0.18
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.17	0.11	0.13	0.25	0.32	0.05	0.04	0.07	0.18	0.16	0.15	0.12	0.26	0.08	0.16	0.3	0.08	0.14
Thallium	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	0.01	0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.07	0.07	0.07	0.07	0.06	0.04	0.02	0.03	0.03	0.03	0.08	0.08	0.1	0.08	0.07	<0.01	<0.01	0.02
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	4.3	4.0	3.7	5.4	4.1	2.7	2.7	3.1	3.8	2.7	7.2	3.4	3.6	3.2	6.8	3.2	3.2	6.1
Physical Properties																		
Moisture (%)	74.73	78.66	78.14	75.87	76.3	76.09	74.75	77.52	77.24	77.69	74.48	72.13	75.17	78.5	73.75	70.91	72.53	72.2
Length (cm)	55.6	60.2	59.1	61.8	63.4	46.8	50.1	52.3	51.5	54.2	54.9	52	52.1	56.7	55.1	59.6	50.7	54.7
Weight (g)	1380	1700	1520	1840	2140	1500	1580	1580	1540	1900	1940	1710	1605	2305	2010	2840	1760	2140
Sex	M	M	M	M	M	F	M	F	M	F	F	M	M	F	M	F	M	M
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	12	24	25	19	11	12	11	21	13	12	13	12	13	13	22	15	16	21
Radionuclides																		
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00005	<0.00006	<0.00006	<0.00006	0.00006	<0.00006	0.0002	<0.00006	0.00009	<0.00006	<0.00006	<0.00006	0.00008	<0.00005	<0.00006	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.
GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2012 and 2016.

Chemical[1]	Uranium City (Prospectors Bay)[2]															
	Lake Whitefish															
	2012					2013			2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LW06	LW07	LW08	LW09	LW10	LW01	LW02	LW03	LW01	LW02	LW03	LW04	LW05	LW01	LW02	LW03
Metals and Trace Elements																
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.08	0.03	0.09	0.05	0.1	0.17	0.18	0.22	0.23	0.06	0.07	0.05	0.07	0.04	0.12	0.05
Barium	0.01	0.02	0.01	0.01	0.01	0.02	<0.01	0.02	0.01	0.1	0.02	0.09	0.03	0.11	0.04	0.02
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	0.003	0.013	0.009	<0.002	0.004	0.006	0.016	0.004	0.004	0.007	0.016	0.008	0.005	0.003	0.004
Copper	0.12	0.13	0.17	0.18	0.14	0.22	0.18	0.39	0.48	0.22	0.28	0.26	0.23	0.21	0.22	0.16
Iron	1.0	2.0	1.8	1.6	1.4	2.3	1.8	2.9	4.3	1.8	2	4.4	2.4	1.9	1.5	1.9
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.003	<0.002	0.003	<0.002	0.005	0.011	0.006	<0.002	<0.002
Manganese	0.07	0.06	0.07	0.07	0.12	0.1	0.06	0.11	0.09	0.12	0.12	0.1	0.08	0.09	0.1	0.09
Mercury	0.05	0.13	0.06	0.12	0.11	0.05	0.02	0.02	0.051	0.033	0.053	0.026	0.034	0.063	0.037	0.074
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.01	0.01	0.05	0.02	<0.01	<0.01	<0.01
Selenium	0.28	0.22	0.23	0.32	0.26	0.26	0.24	0.26	0.24	0.27	0.23	0.19	0.26	0.28	0.3	0.23
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.22	0.19	0.4	0.4	0.25	0.25	0.23	0.25	0.26	1.8	0.29	0.65	0.31	0.21	0.48	0.31
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.07	0.08	0.08	0.08	0.03	0.03	0.04	0.08	0.1	0.08	0.11	0.11	<0.01	<0.01	<0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	4.3	4.5	7.6	4.3	3.3	3.2	3.4	6.3	4	4.1	4.7	5.8	4.2	6.3	3.8	3.6
Physical Properties																
Moisture (%)	79.31	78.4	75.72	73.83	76.89	79.25	76.91	72.22	74.04	74.06	76.04	75.15	76.82	68.43	76.07	73.75
Length (cm)	46.7	49.6	48.8	55.0	50.0	46.9	47	42.9	47.2	41.5	45.9	41.7	36.5	57.8	43.6	53.1
Weight (g)	640	980	1140	1520	1080	1480	1520	1300	1780	1090	1620	1310	750	3380	1280	2440
Sex	M	M	F	F	F	M	M	F	M	F	M	F	M	M	M	F
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	12	29	14	17	21	23	14	11	19	10	15	10	10	18	13	32
Radionuclides																
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	0.0006	0.0005	0.0004	0.0011	0.0007	<0.0002	0.0003	<0.0002
Radium-226 (Bq/g)	<0.00006	<0.00007	<0.00005	<0.00006	<0.00008	0.00006	<0.00006	<0.00006	0.0001	<0.00006	<0.00006	<0.00007	0.0001	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.
GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed Camsell Portage (Ellis Bay) fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Camsell Portage (Ellis Bay)																						
	Lake Trout																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	AN1-1	AN1-1	AN1-1
	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.12	0.08	0.12	0.08	0.12	0.06	0.14	0.04	0.06	0.29	0.07	0.12	0.11	0.05	0.03	0.06	0.07	0.13	0.11	0.06	0.11	0.07	0.12
Barium	0.04	0.01	<0.01	<0.01	<0.01	0.05	0.08	0.02	0.04	0.02	<0.01	0.01	<0.01	0.22	0.04	<0.01	<0.01	0.04	0.02	0.02	0.02	0.03	0.04
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.003	0.003	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.003	<0.002	0.004	0.002	<0.002	0.003
Copper	0.52	0.52	0.11	0.32	0.28	0.24	0.28	0.33	0.58	0.21	0.22	0.28	0.38	0.23	0.28	0.29	0.2	0.39	0.29	0.4	0.49	0.26	0.42
Iron	4.5	3.0	1.0	2.2	2.0	1.5	2.7	3.5	5.8	1.6	1.4	2.1	2.1	2.6	2.4	4.7	1.5	3	3.8	4	2.6	2.6	4.2
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.004	<0.002	0.004	0.003
Manganese	0.1	0.09	0.09	0.07	0.08	0.06	0.09	0.6	0.08	0.06	0.09	0.06	0.08	0.08	0.09	0.08	0.06	0.07	0.08	0.07	0.07	0.13	0.07
Mercury	0.13	0.2	0.28	0.07	0.18	0.17	0.08	0.06	0.21	0.14	0.19	0.24	0.09	0.41	0.24	0.37	0.33	0.32	0.37	0.3	0.12	0.13	0.18
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.03	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	0.01	<0.01	0.03	<0.01	0.06	<0.01	<0.01	0.02
Selenium	0.14	0.18	0.15	0.16	0.18	0.15	0.16	0.15	0.18	0.1	0.17	0.14	0.16	0.17	0.18	0.17	0.15	0.19	0.21	0.17	0.21	0.17	0.2
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.3	0.19	0.26	0.2	0.15	0.06	0.13	0.07	0.68	0.65	0.1	0.09	0.21	0.09	0.12	0.12	0.08	0.15	0.31	0.14	0.18	0.43	0.26
Thallium	<0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.07	0.15	0.06	0.07	0.06	0.01	0.02	0.02	0.01	<0.01	0.03	0.08	0.06	0.04	0.05	0.08	0.08	0.08	0.09	0.09	<0.01	<0.01	0.01
Uranium	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	11	3.8	2.9	3.8	3.5	2.6	3.2	2.6	10	6.3	3	2.8	3.6	3.3	3.6	4	2.5	5	5.1	6.3	3.7	5.2	6.2
Physical Properties																							
Moisture (%)	73.73	71.7	74.1	70.34	67.36	73.93	76.07	75.33	76.29	72.6	69.45	68.65	72.36	78.67	79.54	78.57	74.76	75.37	77.41	77.04	71.70	72.13	74.82
Length (cm)	49.8	48.6	53.9	48.5	55.6	62.2	69.1	53.0	60.3	63.5	55.0	56.1	55.2	55.9	55.6	58.8	56.8	51.5	52.2	59.1	56.2	49.8	56.1
Weight (g)	1490	1480	1920	1420	2480	3640	2920	1420	1760	2560	2200	1920	1720	1920	1740	2245	2200	1750	1450	2360	2120	1660	1960
Sex	M	M	F	F	F	F	M	M	M	F	M	F	M	M	M	M	M	M	M	M	M	M	M
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	12	8	23	8	11	19	13	9	20	18	15	15	10	25	17	23	17	13	14	17	12	12	16
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00007	<0.00006	0.0002	0.00009	0.0001	<0.00007	<0.00007	<0.00006	<0.00005	<0.00004	0.0001	<0.00004	<0.00006	<0.00006	0.00009	<0.00006	<0.00003	<0.00003	<0.00005	<0.00006	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00007	<0.00006	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.
GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed Camsell Portage (Ellis Bay) fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Camsell Portage (Ellis Bay)																								
	Lake Whitefish																				Northern Pike				
	2011					2012		2013					2014					2016			2012				
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	AN1-1	AN1-1	AN1-1	AN1-1	AN1-1
	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW08	NP01	NP02	NP03	NP04	NP05
Metals and Trace Elements																									
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.38	0.24	0.36	0.31	0.17	0.37	0.24	0.14	0.31	0.34	0.17	0.48	0.25	0.26	0.33	0.03	0.05	0.24	0.09	0.07	0.09	0.15	0.09	0.12	0.1
Barium	<0.01	0.04	0.06	<0.01	<0.01	0.03	0.02	0.04	0.05	0.05	0.02	0.02	0.09	0.02	0.04	0.02	<0.01	0.02	0.01	0.03	0.02	0.02	0.02	0.02	<0.01
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	0.007	0.002	0.002	<0.002	0.003	0.004	0.005	0.002	<0.002	<0.002	0.006	0.004	0.007	0.008	0.003	0.006	0.004	0.004	0.003	0.003	<0.002	<0.002	0.003
Copper	0.12	0.15	0.38	0.11	0.15	0.18	0.18	0.27	0.14	0.13	0.18	0.11	0.36	0.23	0.19	0.21	0.22	0.26	0.24	0.18	0.39	0.45	0.16	0.17	0.28
Iron	1.5	1.2	3.6	1.1	2.2	1.8	3.9	2.9	2.5	3.6	1.6	2.2	4.5	2.3	3.8	2.4	2.9	2.8	2.6	1.8	2.8	3.2	1.3	0.6	3.2
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.008	0.005	0.008	0.006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Manganese	0.12	0.19	0.13	0.12	0.1	0.11	0.11	0.17	0.32	0.14	0.1	0.13	0.16	0.07	0.1	0.07	0.08	0.11	0.09	0.07	0.08	0.09	0.08	0.08	0.08
Mercury	0.07	0.06	0.03	0.03	0.02	0.05	0.06	0.17	0.07	0.04	0.02	0.08	0.051	0.06	0.06	0.044	0.058	0.037	0.043	0.036	0.19	0.13	0.08	0.17	0.24
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.03	0.08	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	0.29	0.25	0.25	0.22	0.25	0.31	0.25	0.27	0.26	0.24	0.29	0.25	0.25	0.23	0.27	0.2	0.24	0.28	0.27	0.25	0.2	0.17	0.22	0.18	0.19
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.15	0.74	1	0.18	0.24	0.15	0.23	0.51	0.64	0.43	0.2	0.25	0.92	0.24	0.28	0.71	0.21	0.24	0.22	0.27	0.16	0.2	0.18	0.11	0.14
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.07	0.07	0.06	0.06	0.07	0.02	<0.01	0.04	0.03	0.04	0.04	0.05	0.11	0.11	0.16	0.1	0.12	<0.01	<0.01	<0.01	0.02	0.02	0.02	0.01	0.01
Uranium	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.003	0.002	<0.001	0.003	0.002	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	3	2.8	4.4	3.3	3.1	2.8	3.2	5.5	3.3	2.5	3.9	3.3	4.9	3.6	6.4	3.8	4	3.9	3.3	5.1	4.2	9.8	5.4	4.9	6.5
Physical Properties																									
Moisture (%)	74.81	78.24	73.86	77.91	76.16	74.12	74.97	77.14	77.18	76.99	75.03	77.45	75.83	74.78	76.26	77.59	74.18	72.23	74.17	76.38	76.89	77.35	76.06	77.29	79.91
Length (cm)	32.0	43.2	40.0	39.5	38.6	49.1	48.5	40.2	44.8	37.9	37.4	44.6	41.3	44	47.6	38.2	43.5	45.4	45.0	49.6	76.0	67.7	67.8	72.3	89.5
Weight (g)	1250	1260	1380	1120	880	1180	1120	840	1120	820	720	1380	980	1280	1460	880	1400	1560	1540	1880	2800	2760	1660	2760	4860
Sex	M	M	F	F	F	M	M	F	F	F	M	M	F	F	F	F	F	M	M	F	F	M	F	F	F
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	31	27	22	18	11	30	33	30	25	25	9	28	14	14	14	8	14	15	15	11	6	9	5	7	16
Radionuclides																									
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	0.0002	0.0007	0.0012	<0.0002	0.0009	0.0002	0.0002	0.0004	0.0008	0.0003	0.0003
Radium-226 (Bq/g)	<0.00006	<0.00006	<0.0002	<0.00006	0.0003	<0.00007	<0.00006	0.0001	<0.00006	<0.00006	<0.00008	0.0002	<0.00006	<0.00007	<0.00006	<0.00005	<0.00005	<0.00006	<0.00006	<0.00006	<0.00006	<0.00007	<0.00008	<0.00006	0.00008
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0003	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.003

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 and 2016.

Chemical[1]	Fond du Lac (Fond du Lac River)																						
	Lake Trout																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LT01	LT02	LT03	LT04	LT05	LT06	LT07	LT08	LT09	LT10	LT06	LT07	LT08	LT09	LT10	LT06	LT07	LT08	LT09	LT10	LT01	LT02	LT03
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.17	0.08	0.10	0.05	0.12	0.05	0.06	0.1	0.14	0.08	0.05	0.04	0.08	0.11	0.06	0.07	0.04	0.11	0.13	0.05	0.05	0.05	0.07
Barium	<0.01	0.02	0.01	0.66	0.01	0.02	0.02	0.02	<0.01	<0.01	<0.01	0.01	0.01	<0.01	0.01	0.01	<0.01	0.01	0.01	0.04	0.03	0.06	0.07
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.003	0.002	0.003	<0.002	0.003	0.012
Copper	0.17	0.31	0.4	0.19	0.4	0.31	0.26	0.23	0.28	0.21	0.36	0.25	0.24	0.43	0.24	0.2	0.17	0.4	0.22	0.36	0.22	0.33	0.33
Iron	2.1	2.1	3.2	1.8	2.8	3.4	1.8	1.4	4.0	1.4	2.2	1.3	1.6	2.1	1.3	2.6	2.3	3.3	2.8	3.6	3	2.2	5
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.008	<0.002	<0.002	0.003	<0.002	0.002	0.004	0.007	0.002	0.002	0.003
Manganese	0.09	0.08	0.09	0.1	0.08	0.07	0.04	0.07	0.06	0.08	0.05	0.06	0.07	0.07	0.05	0.09	0.04	0.12	0.14	0.1	0.07	0.08	0.08
Mercury	0.26	0.30	0.24	0.1	0.23	0.17	0.14	0.14	0.26	0.31	0.09	0.11	0.09	0.05	0.04	0.83	0.46	0.49	0.74	0.44	0.19	0.085	0.25
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	0.02	<0.01	0.02	0.02	0.02	<0.01	<0.01	0.02
Selenium	0.17	0.12	0.16	0.16	0.13	0.16	0.14	0.18	0.15	0.13	0.18	0.14	0.14	0.16	0.16	0.13	0.07	0.16	0.09	0.12	0.16	0.18	0.16
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.11	0.16	0.18	0.20	0.18	0.12	0.09	0.21	0.16	0.15	0.1	0.09	0.11	0.04	0.08	0.19	0.05	0.13	0.15	0.13	0.08	0.14	0.09
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.01	0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.09	0.09	0.1	0.08	0.08	0.07	0.08	0.08	0.08	0.01	<0.01	0.01	0.01	<0.01	0.09	0.04	0.1	0.08	0.09	<0.01	<0.01	0.01
Uranium	<0.001	0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	3	3.7	4.2	3.2	3.9	4.2	3.4	3.8	4.4	3.4	4.2	3.3	2.9	3.3	2.8	3.8	1.8	3.6	6.3	3.8	6.1	3	3.6
Physical Properties																							
Moisture (%)	76.91	76.77	74.35	75.75	71.88	77.01	75.5	69.03	77.64	68.66	74.35	74.57	75.49	72.33	73.93	81.13	73.27	76.95	79.64	74.4	77.54	71.06	72.59
Length (cm)	49.6	46.4	53.9	49.1	49.2	60.5	55.6	61.2	63.4	63.5	48.5	52.7	56.8	51.5	50.1	54.5	57.1	60.2	55.7	58.5	58.9	57.6	54
Weight (g)	1430	1310	2020	1230	1530	1680	1420	1940	1840	2280	1520	1940	2200	1640	1620	1405	2205	2860	1670	2410	2160	2060	1740
Sex	M	F	F	F	M	M	M	F	F	F	M	M	M	M	M	F	M	F	F	F	F	F	M
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	12	10	15	9	8	17	11	15	-	14	9	11	12	9	8	29	20	16	21	13	18	11	21
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00005	<0.00006	<0.00005	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00005	<0.00006	<0.00004	0.00007	<0.00005	<0.00006	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed Fond du Lac fish flesh chemistry data for the EARMP community program, 2011 and 2016.

Chemical[1]	Fond du Lac (Fond du Lac River)																						
	Lake Whitefish																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LW06	LW07	LW08	LW09	LW10	LW01	LW02	LW03	LW04	LW05	LW01	LW02	LW03	LW04	LW05	LW01	LW02	LW03	LW04	LW05	LW04	LW05	LW06
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.6	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.40	0.19	0.20	0.52	0.29	0.02	0.22	0.22	0.18	0.19	0.04	0.04	0.11	0.08	0.03	0.16	0.02	0.04	0.28	0.04	0.03	0.29	0.26
Barium	0.06	0.04	0.02	<0.01	0.03	0.02	0.04	0.01	0.07	0.02	0.01	<0.01	0.02	0.03	0.01	0.14	<0.01	0.04	0.06	0.05	0.06	0.21	0.01
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.002	<0.002	<0.002	<0.002	0.006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.003	0.005	0.003	0.003	0.015	0.003	0.002	0.003	0.003	<0.002	0.004	0.014	0.003	0.004	<0.002	0.007	0.006	0.02	0.003	0.012	0.016	0.011	0.004
Copper	0.14	0.18	0.12	0.22	0.28	0.27	0.16	0.16	0.15	0.13	0.22	0.16	0.15	0.34	0.13	0.13	0.14	0.19	0.16	0.17	0.19	0.1	0.26
Iron	1.7	2.9	1.3	2.6	6.0	2.0	1.0	1.4	1.4	1.3	2.1	3.1	1.3	4.4	1.1	1.8	1.4	3.1	1.8	2	1.8	1.9	2.6
Lead	<0.002	0.002	<0.002	<0.002	<0.002	0.003	0.004	0.003	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.008	<0.002	<0.002	0.004	0.005	<0.002
Manganese	0.17	0.13	0.07	0.14	0.08	0.05	0.08	0.14	0.19	0.08	0.08	0.09	0.06	0.1	0.07	0.21	0.07	0.19	0.1	0.1	0.08	0.22	0.09
Mercury	0.14	0.12	0.14	0.18	0.18	0.02	0.05	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.04	0.086	0.14	0.051	0.081	0.059	0.079	0.12	0.065
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.02	0.04	<0.01	0.1	0.02	0.02	<0.01
Selenium	0.25	0.15	0.22	0.20	0.29	0.17	0.28	0.2	0.16	0.23	0.22	0.13	0.27	0.21	0.18	0.15	0.11	0.12	0.24	0.17	0.34	0.24	0.16
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	1.00	0.88	0.55	0.15	0.36	0.51	0.24	0.27	1.6	0.2	0.19	0.26	0.19	0.61	0.15	2.2	0.33	1.2	0.68	0.33	0.21	1.4	0.31
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.08	0.09	0.07	0.1	0.07	0.08	0.07	0.08	0.07	0.02	0.01	0.02	0.02	0.02	0.1	0.09	0.1	0.07	0.09	0.02	0.01	<0.01
Uranium	0.002	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	0.002	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	3	4.2	3.2	3	4.2	6.2	3.8	3.5	4	3.4	3.8	4	3.9	5.4	3.5	3.3	4.6	4.4	4.2	3.6	5	4	3.8
Physical Properties																							
Moisture (%)	73.98	78.34	76.86	75.56	75.69	75.73	71.01	74.93	73.77	76.15	75.67	78.03	73.18	76.28	78.04	78.86	77.96	76.51	77.23	76.57	74.6	81.27	73.88
Length (cm)	38.5	44.9	36.4	41.1	42.2	44.4	43.8	46.6	42.8	36.5	46.5	43.4	40.5	40.1	42.3	42.5	45	41.3	41.9	39.4	47.0	38.6	47.4
Weight (g)	900	1340	805	1100	1120	940	1040	1100	860	520	1420	1120	980	820	1000	965	1240	910	965	875	1540	840	1360
Sex	M	M	F	F	M	M	F	M	F	M	F	M	F	M	M	F	F	M	F	M	F	M	F
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	30	26	31	33	38	7	27	20	15	27	14	12	13	13	8	19	9	15	17	11	11	33	16
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00008	<0.00006	<0.00006	<0.00006	<0.00007	<0.00007	<0.00008	<0.00009	<0.001	0.002	<0.00009	0.0001	<0.00006	<0.00006	<0.00006	0.00008	<0.00006	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.002	<0.002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Stony Rapids (Fond du Lac River)																					
	Lake Trout																					
	2011					2012				2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	SP01-01	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LT01	LT02	LT03	LT04	LT05	LT06	LT07	LT08	LT09	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03	LT04	LT05	LT01	LT02	LT03
Metals and Trace Elements																						
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.02	0.06	0.05	0.06	0.09	0.07	0.18	0.06	0.07	0.06	0.18	0.25	0.09	0.08	0.14	0.11	0.04	0.07	0.04	0.1	0.12	0.08
Barium	<0.01	<0.01	0.01	<0.01	0.01	0.01	0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.1	0.09	<0.01	0.07	0.03	0.02	0.05	0.03
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.006	0.005	<0.002	0.004	0.003	0.004	0.004	0.003
Copper	0.28	0.2	0.22	0.22	0.17	0.21	0.78	0.2	0.36	0.39	0.45	0.32	0.32	0.28	0.43	0.93	0.34	0.3	0.3	0.43	0.73	0.61
Iron	1.9	1.7	1.5	1.6	1.2	2.3	8.6	2.6	4.0	3.6	3.3	6.1	3.1	2.7	10	8.9	3	2.3	2.1	4	6.1	4.2
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.011	0.003	<0.002	0.004	<0.002	<0.002	<0.002	<0.002
Manganese	0.09	0.09	0.08	0.12	0.06	0.09	0.08	0.1	0.07	0.11	0.07	0.06	0.06	0.07	0.13	0.09	0.06	0.07	0.06	0.05	0.05	0.08
Mercury	0.27	0.46	0.57	0.38	0.49	0.12	0.19	0.18	0.27	0.17	0.12	0.13	0.3	0.16	0.11	0.24	0.23	0.21	0.19	0.14	0.2	0.16
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.06	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01
Selenium	0.10	0.11	0.09	0.14	0.16	0.15	0.19	0.17	0.19	0.16	0.19	0.15	0.18	0.15	0.13	0.15	0.16	0.15	0.14	0.18	0.16	0.16
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.10	0.09	0.21	0.23	0.09	0.13	0.14	0.14	0.14	0.08	0.14	0.30	0.14	0.10	0.26	0.15	0.2	0.34	0.28	0.22	0.25	0.17
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	0.01	0.01	0.01	<0.01	0.02	0.01	<0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.07	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.04	0.03	0.04	0.03	0.03	0.14	0.09	0.09	0.09	0.08	0.02	<0.01	0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	4.7	3.1	3.4	3.3	2.5	3.8	5.4	3.6	3.8	3.1	4	4	3.8	3.1	3.3	5.2	4.3	4.3	3	3.5	3.8	3.2
Physical Properties																						
Moisture (%)	77.77	77.9	77.43	76.77	73.64	78.8	76.77	78.11	78.05	73.56	74.02	75.29	75.06	73.99	73.76	75.09	76.3	76.67	75.55	70.53	75.35	72.93
Length (cm)	54.9	55.9	57.2	64.9	69.6	57.2	62.8	61.0	59.8	52.0	52.5	55.0	57.0	51.2	49.5	51.9	44.7	54	48.7	55	55.7	52.1
Weight (g)	1750	2060	2180	2840	3720	1520	2060	1840	1820	1720	1680	1940	2060	1600	1580	1640	1100	1670	1440	2080	1960	1920
Sex	F	F	F	F	M	M	M	M	M	F	M	F	M	F	F	M	M	M	F	F	F	F
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	10	15	16	17	15	14	22	21	22	12	12	11	16	13	11	14	12	12	11	15	11	15
Radionuclides																						
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00007	<0.00006	<0.00008	<0.00006	0.0001	<0.00006	<0.00006	<0.00008	<0.00006	<0.00007	<0.00006	<0.00005	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.
GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Stony Rapids (Fond du Lac River)																						
	Lake Whitefish																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LW06	LW07	LW08	LW09	LW10	LW01	LW02	LW03	LW04	LW05	LW06	LW07	LW08	LW09	LW10	LW06	LW07	LW08	LW09	LW10	LW04	LW05	LW06
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.06	0.03	0.03	0.07	0.02	0.02	0.06	0.05	0.03	0.04	0.03	0.02	0.04	0.03	0.03	0.01	0.01	0.01	0.02	0.09	0.02	0.06	0.04
Barium	0.01	0.01	0.09	<0.01	0.02	0.01	0.05	0.01	0.01	0.02	<0.01	0.02	<0.01	<0.01	0.02	0.07	<0.01	0.08	0.03	0.04	<0.01	0.04	0.05
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.005	0.009	0.012	0.004	0.008	<0.002	0.009	0.005	0.007	0.003	0.004	0.004	0.006	0.004	0.005	0.003	0.005	0.003	0.004	0.008	0.012	0.023	0.007
Copper	0.36	0.15	0.14	0.26	0.19	0.24	0.14	0.3	0.14	0.11	0.31	0.15	0.17	0.23	0.25	0.19	0.2	0.25	0.23	0.2	0.17	0.11	0.2
Iron	3.5	2.0	2.0	2.2	1.7	1.3	1.4	4.2	1.9	1.1	4.7	1.9	1.2	2.2	2.4	1.9	1.8	1.6	2.2	2	1.9	1.7	1.8
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	0.004	0.004	0.002
Manganese	0.09	0.1	0.18	0.08	0.1	0.08	0.22	0.08	0.1	0.1	0.09	0.12	0.08	0.12	0.19	0.09	0.09	0.1	0.18	0.09	0.12	0.08	0.08
Mercury	0.23	0.06	0.15	0.37	0.06	0.05	0.05	0.14	0.06	0.13	0.09	0.04	0.04	0.07	0.06	0.13	0.098	0.08	0.1	0.056	0.036	0.048	0.039
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	0.04
Selenium	0.13	0.10	0.15	0.27	0.12	0.18	0.12	0.14	0.18	0.13	0.14	0.13	0.15	0.12	0.12	0.11	0.08	0.11	0.12	0.16	0.12	0.17	0.1
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.23	0.26	2.00	0.12	0.24	0.28	1.8	0.3	0.23	0.24	0.27	0.22	0.17	0.22	0.25	0.36	0.1	0.18	0.3	0.29	0.5	0.5	0.34
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.07	0.08	0.08	0.07	0.09	0.06	0.07	0.07	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.09	0.06	0.09	0.09	0.08	<0.01	<0.01	0.01
Uranium	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	4.0	4.0	4.1	8.3	4.7	6.1	7.0	3.6	3.4	3.4	4.0	4.6	3.4	4.9	4.7	3.8	2.8	3.6	4.2	3.9	4.5	4.9	4.4
Physical Properties																							
Moisture (%)	76.78	78.07	78.94	77.19	75.5	74.99	80.97	76.82	80.22	79.53	76.95	78.07	73.93	75.51	76.73	74.28	79.2	76.81	75.18	76.08	76.94	75.08	76.91
Length (cm)	47.8	44.8	48.1	51.4	42.5	48.0	47.0	50.6	50.8	49.5	44.5	42.2	43.3	39.9	40.5	44	43.2	44.2	41.8	49.6	42.0	47.4	41.0
Weight (g)	1490	1640	1730	2060	1410	1420	980	1680	1360	1520	1180	940	1100	1000	960	1300	1120	1120	1130	1560	1160	1520	1040
Sex	F	F	F	F	M	F	F	M	F	F	M	F	F	M	M	F	F	F	M	F	F	F	F
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	27	14	13	29	8	9	14	18	15	18	18	8	11	11	10	11	9	9	8	11	8	12	12
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00008	0.0001	0.00006	0.0001	<0.00006	<0.00005	0.001	<0.00006	<0.00007	<0.00005	<0.00006	<0.00006	0.0001	0.00009	<0.00006	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0002	<0.00009	<0.00008	<0.0002	<0.0001	<0.0001	<0.002	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Wollaston Lake/Hatchet Lake (Welcome Bay, Wollaston Lake)																					
	Lake Trout																					
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	SP01-01	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LT01	LT02	LT03	LT04	LT05	LT06	LT07	LT08	LT09	LT10	LT07	LT08	LT09	LT10	LT11	LT07	LT08	LT09	LT10	LT11	LT01	LT02	LT03
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.06	0.03	0.04	0.02	0.04	0.05	0.04	0.04	0.08	0.02	0.02	0.04	0.03	0.06	0.02	0.01	0.03	0.02	0.03	0.05	0.03	0.02	0.09
Barium	0.02	0.02	0.02	0.02	<0.01	0.02	0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.01	0.02	0.02	0.03	0.02	0.01	0.03	<0.01	<0.01	<0.01
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	0.006	0.002	0.004	<0.002	0.003
Copper	0.62	0.48	0.53	0.31	0.3	0.52	0.39	0.4	0.69	0.24	0.35	0.38	0.34	0.3	0.32	0.44	0.25	0.29	0.26	0.29	0.32	0.33	0.2
Iron	6.0	4.0	2.6	1.8	1.9	3.1	2.8	2.2	3.8	1.6	2.3	3	2.6	2.2	2.1	2	1.9	1.7	1.6	2.7	3.2	3.4	1.4
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005	-0.002	<0.002	0.004	<0.002	<0.002	<0.002	<0.002	<0.002
Manganese	0.1	0.1	0.07	0.06	0.07	0.08	0.06	0.08	0.07	0.05	0.08	0.09	0.1	0.1	0.09	0.08	0.11	0.06	0.1	0.09	0.11	0.09	0.1
Mercury	0.15	0.16	0.16	0.20	0.12	0.24	0.15	0.13	0.16	0.14	0.14	0.1	0.09	0.1	0.18	0.18	0.26	0.2	0.19	0.38	0.16	0.22	0.22
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	0.17	0.28	0.19	0.18	0.19	0.27	0.21	0.22	0.22	0.21	0.21	0.2	0.2	0.18	0.2	0.19	0.18	0.2	0.21	0.16	0.21	0.24	0.24
Silver	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.09	0.22	0.09	0.15	0.05	0.19	0.09	0.07	0.11	0.03	0.19	0.1	0.05	0.04	0.05	0.12	0.24	0.08	0.04	0.16	0.06	0.03	0.02
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.08	0.07	0.03	0.03	0.03	0.07	0.04	0.08	0.08	0.07	0.08	0.08	0.01	<0.01	0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	-0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	5.5	6.6	3.9	3.1	3.3	5.8	3.6	3.8	4.8	3.1	5.7	4.2	3.8	4.8	3.7	3.6	3	2.5	2.6	4.5	4	2.7	2.4
Physical Properties																							
Moisture (%)	78.93	75.5	76.46	75.65	75.48	75.41	73.15	73.02	79.09	75.73	76.78	72.75	72.82	71.52	74.12	78.37	75.48	75.05	77.38	74.92	75.2	77.38	77.09
Length (cm)	51.5	46.3	46.8	47.9	46.6	55.6	50.5	50.8	50.5	52.0	45.3	46.5	44.1	45.4	48.5	48.4	49.8	52.2	50.6	55.9	48.0	52.0	52.4
Weight (g)	1730	1220	1440	1410	1430	1760	1420	1360	1400	1520	1200	1340	1060	1060	1400	1580	1610	1850	1780	2020	1600	1800	1980
Sex	F	M	M	F	M	M	M	M	M	M	M	M	F	F	F	M	F	M	M	F	F	F	F
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	7	7	7	8	6	6	7	7	9	7	8	7	8	8	8	8	9	9	9	12	11	9	11
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Radium-226 (Bq/g)	<0.00006	<0.00006	<0.00006	0.0003	0.00009	<0.00006	<0.00006	<0.00005	<0.00007	<0.00005	0.0002	0.00007	<0.00006	<0.00006	0.00008	<0.00004	<0.00006	<0.00005	<0.00005	<0.00005	<0.00006	<0.00006	<0.00005
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-0.00008	<0.0001	<0.00009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 1

Detailed fish flesh chemistry data for the EARMP community program, 2011 to 2016.

Chemical[1]	Wollaston Lake/Hatchet Lake (Welcome Bay, Wollaston Lake)																						
	Lake Whitefish																						
	2011					2012					2013					2014					2016		
	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1	GN1-1
	LW06	LW07	LW08	LW09	LW10	LW01	LW02	LW03	LW04	LW05	LW01	LW02	LW03	LW05	LW06	LW01	LW02	LW03	LW05	LW06	LW04	LW05	LW06
Metals and Trace Elements																							
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.24	0.13	0.17	0.09	0.18	0.19	0.12	0.17	0.16	0.13	0.15	0.18	0.17	0.09	0.14	0.14	0.15	0.11	0.11	0.06	0.13	0.18	0.03
Barium	0.11	0.01	0.01	0.02	0.02	0.02	0.02	0.04	0.02	0.02	0.02	0.01	0.12	0.05	0.03	0.02	0.02	0.04	0.08	0.02	<0.01	<0.01	<0.01
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	0.002	<0.002	0.003	<0.002	<0.002	<0.002	0.002	<0.002	0.004	0.002	0.005	<0.002	0.002	0.003	0.004	0.003
Copper	0.26	0.16	0.18	0.12	0.14	0.12	0.18	0.13	0.14	0.21	0.13	0.16	0.16	0.14	0.13	0.17	0.17	0.14	0.14	0.14	0.15	0.45	0.19
Iron	2.2	1.3	1.5	3.1	1.4	1.1	1.0	1.5	1.0	3.0	1.8	1.7	2.5	3.0	1.7	1.7	1.5	2	2.9	1.6	2.9	5.9	2.5
Lead	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.002	0.004	0.004	<0.002	<0.002	<0.002	<0.002	<0.002
Manganese	0.15	0.09	0.09	0.12	0.1	0.09	0.07	0.14	0.1	0.13	0.11	0.09	0.1	0.25	0.11	0.12	0.1	0.11	0.24	0.1	0.12	0.11	0.1
Mercury	0.06	0.05	0.05	0.05	0.08	0.03	0.02	0.07	0.03	0.05	0.02	0.02	0.06	0.07	0.03	0.086	0.094	0.11	0.07	0.082	0.063	0.059	0.12
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	0.01	0.02	0.01	0.01	<0.01	<0.01	<0.01	0.01
Selenium	0.39	0.41	0.34	0.38	0.38	0.5	0.53	0.38	0.68	0.51	0.31	0.34	0.32	0.41	0.4	0.44	0.34	0.36	0.39	0.36	1	0.41	0.24
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.47	0.08	0.11	0.24	0.14	0.11	0.13	0.25	0.15	0.18	0.16	0.12	0.14	0.62	0.21	0.15	0.15	0.16	0.54	0.11	0.1	0.09	0.14
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.07	0.08	0.08	0.11	0.08	0.07	0.07	0.07	0.07	0.07	0.04	0.04	0.03	0.03	0.04	0.1	0.07	0.08	0.09	0.08	0.02	0.01	0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	5.1	3.0	3.8	4.7	4.3	3.7	4.5	3.2	4.5	4.0	3.7	3.7	5.5	3.3	3.6	4.9	3.3	4.1	2.8	2.9	3.5	3.6	7.7
Physical Properties																							
Moisture (%)	73.6	75.29	75.27	76.01	73.6	73.9	70.19	74.68	71.83	76.61	73.91	73.39	75.49	79.53	78.4	71.26	72.78	76.4	76.45	79.18	77.36	76.23	77.69
Length (cm)	36.5	38.0	40.6	36.9	39.2	47.9	43.3	46.2	44.4	43.6	36.2	37.4	37.5	39.5	40.1	43.4	37.9	42.4	38.6	41.9	38.7	40.5	39.7
Weight (g)	780	820	940	810	825	1380	880	1060	860	840	620	620	640	700	720	1230	850	930	950	1010	700	920	1020
Sex	M	M	M	M	F	M	F	F	F	M	M	F	F	F	M	M	F	M	F	M	M	M	M
Maturity	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Age (years)	16	16	14	12	17	19	11	21	12	18	12	12	15	13	18	12	13	18	13	10	17	14	9
Radionuclides																							
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.001	<0.004	<0.004	0.0003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0003	0.0004	<0.0002	0.0002	0.0004	<0.0002	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	0.0002	0.0006	0.0005	<0.0002	0.0004	0.0002	0.0003	0.0008	<0.0002	0.0002
Radium-226 (Bq/g)	<0.00006	<0.00006	<0.00008	<0.00006	<0.00006	<0.00006	0.001	<0.00005	0.002	0.002	<0.001	0.0001	<0.0001	0.0001	0.0001	<0.00006	<0.00006	<0.00006	<0.00006	0.0001	<0.00006	<0.00006	<0.00006
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.002	<0.0001	<0.002	<0.002	<0.00002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

GN = gill net; LT = lake trout; LW = lake whitefish; M = male; F = female; A = adult.

Appendix B, Table 2

Detailed blueberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Black Lake																									
	2011					2012					2013					2014					2015			2016		
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3
Metals and Trace Elements																										
Aluminum	6	8.6	7.9	8.6	6	13	6	7.1	7.9	7.7	11	7.1	11	8.9	7.8	19	16	12	12	12	45	19	5.7	6.8	13	7.7
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	12	15	13	11	15	13	14	17	15	15	11	12	14	14	7	21	18	24	22	24	14	15	12	16	18	12
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	6	5	5	3	5	6	8	5	5	7	8	4	7	5	13	4	4	4	4	4	4	4	6	5	4	3
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	0.05	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.01	0.01	0.01	0.03	0.02	<0.01	0.02	0.02	0.01
Copper	3.3	3.2	2.5	2.6	3.1	2.8	3.8	3.5	3.4	3.8	3.2	1.8	1.8	1.8	1.6	3.7	3.6	4	3.6	4	3.5	3.4	3.4	2.7	3.6	2.6
Iron	8.4	11	8.6	11	10	20	10	8.1	8.8	9.8	10	6	8	8	5	31	21	18	18	17	51	22	10	11	16	12
Lead	0.07	0.02	0.02	0.07	<0.01	0.03	<0.01	<0.01	0.02	<0.01	0.02	0.02	<0.01	0.02	<0.01	0.03	0.03	0.02	0.02	<0.01	0.02	0.01	<0.01	0.13	0.02	<0.01
Manganese	160	130	120	180	220	100	100	170	170	120	160	220	200	250	160	220	200	89	98	83	300	390	200	150	139	182
Molybdenum	0.2	0.2	0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.2	0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.2
Nickel	0.66	0.68	0.54	0.56	0.38	0.32	0.56	0.58	0.66	0.54	0.58	0.38	0.41	0.37	0.34	0.47	0.55	0.78	0.59	0.72	0.69	0.6	0.28	0.49	0.68	0.46
Selenium	<0.05	0.08	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	2.1	4.4	3.5	2.1	1.2	1.1	1.7	1.7	2	1.8	1.7	1.8	3	2	2	3.7	3.6	11	9.8	9.9	1.5	1.6	0.9	1.5	3	1.2
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	<0.05	0.08	0.06	0.1	0.15	0.1	0.05	0.05	0.08	<0.05	0.11	<0.05	0.12	0.07	0.06	0.69	0.52	0.23	0.22	0.34	3.4	0.98	0.2	0.1	0.29	0.1
Uranium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.03	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	4.8	6.1	5	3.9	5.5	3.9	6.1	6	5.3	6.4	5.8	6.2	6.7	7	3.6	8.8	7.1	6.2	5.7	5.7	5.6	5.1	4.8	6.4	6.7	5.8
Physical Properties																										
Moisture (%)	86.24	86.69	85.12	86.04	87.39	86.19	85.89	84.95	84.99	84.86	84.23	83.47	84.32	83.26	84.73	85.74	85.93	87.13	86.97	87.28	85.47	85.47	84.86	84.76	85.97	84.71
Radionuclides																										
Lead-210 (Bq/g)	0.009	0.005	0.007	0.009	0.012	0.002	0.002	<0.001	0.002	<0.001	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.003	0.001	0.002	<0.001	0.002	0.001
Polonium-210 (Bq/g)	0.001	0.002	0.001	0.002	<0.0009	0.0015	0.002	0.0024	0.0014	0.0012	0.0008	0.0008	0.0005	0.0008	0.0008	0.0007	0.0007	0.0011	0.0005	0.0007	0.0017	0.0014	0.0014	0.0008	0.0006	0.0007
Radium-226 (Bq/g)	0.002	0.004	0.004	0.002	0.002	<0.00003	0.0012	<0.00003	0.0028	0.001	0.0025	0.0042	0.0029	0.0028	0.0022	0.002	0.0008	0.001	0.001	0.002	0.0059	0.0066	0.0022	0.002	0.002	0.001
Thorium-230 (Bq/g)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0009	<0.0005	<0.0005	<0.001	<0.001	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 2

Detailed blueberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Fond du Lac																									
	2011					2012					2013					2014					2015			2016		
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3
Metals and Trace Elements																										
Aluminum	4.4	9.5	6.2	7	6.2	14	20	7.3	13	5.9	10	21	13	14	15	29	13	33	12	39	47	18	23	34	15	11
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	12	12	13	13	12	12	9.9	14	11	11	14	14	16	18	15	20	16	22	14	29	18	14	18	16	27	19
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	8	6	7	8	6	14	6	5	8	5	6	4	5	4	6	6	7	6	5	7	5	5	6	4	5	4
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	0.02	0.02	0.02	0.01	0.05	0.03	0.05	0.03	0.06	0.03	0.02	0.02	0.03	0.01	<0.01
Copper	2.7	3	3.6	3.2	3.9	2.8	3.9	3.3	3.9	2.8	1.8	2.4	2.8	1.8	2.1	5.2	5	5.6	5.2	5.6	3.9	3.8	3.1	4.6	4.2	3.7
Iron	10	8.2	9.7	11	9.3	14	21	12	16	10	10	23	17	17	10	48	23	40	22	44	54	18	22	30	20	14
Lead	<0.01	0.02	<0.01	0.03	0.01	0.03	0.01	<0.01	0.01	<0.01	0.04	0.02	0.02	0.01	0.02	0.02	0.03	0.17	0.14	0.04	0.04	0.01	0.03	0.03	0.02	0.02
Manganese	140	150	140	140	130	280	460	240	370	310	460	410	660	700	460	400	380	400	390	390	290	340	480	336	94	113
Molybdenum	0.4	0.2	0.4	0.4	0.4	0.2	0.2	<0.1	0.2	<0.1	0.2	0.3	0.3	0.3	0.2	0.5	0.5	0.6	0.4	0.6	0.3	0.3	0.2	0.4	1.4	1.1
Nickel	0.97	0.67	0.75	0.8	0.74	0.48	0.55	0.54	0.6	0.5	0.4	0.7	0.62	0.53	0.48	2.2	0.89	2.3	0.89	2.1	1.3	0.69	0.77	1.7	1.2	0.96
Selenium	<0.05	<0.05	<0.05	0.08	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	1.3	1.3	1.4	1.6	1.3	2.8	1.8	1.8	2.6	1.6	1.8	2.4	1.8	1.8	2	6.4	2.5	6.3	1.9	5	4.4	2.6	2.5	3.1	3.8	2.5
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	<0.05	0.08	0.08	0.08	0.1	0.35	0.88	0.07	0.42	0.05	0.21	0.86	0.43	0.4	0.21	1.5	0.46	2	0.33	1.7	3.3	0.76	0.77	1.2	0.49	0.19
Uranium	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	5.6	6	7.5	7	7.1	4.4	5.1	10	5.4	5.8	6.7	6.2	7.1	8.4	6.4	7.7	7.7	8.6	6.5	8.2	6.6	6.6	7.4	7.9	7.9	6.5
Physical Properties																										
Moisture (%)	87.10	85.50	86.68	84.60	86.31	83.99	83.87	84.56	83.79	84.11	84.33	83.47	84.18	84.47	83.71	84.83	82.79	84.76	82.2	84.79	86.12	86.14	86.17	83.54	82.53	82.76
Radionuclides																										
Lead-210 (Bq/g)	<0.004	0.007	0.01	0.011	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	0.002	<0.001	0.009	0.005	<0.001	<0.001	0.001	0.001	<0.001	0.003	0.004	0.004	0.002	<0.001	<0.001
Polonium-210 (Bq/g)	0.001	0.002	0.001	0.004	0.002	0.0012	0.0009	0.0015	0.0012	0.0014	0.001	0.0066	0.0008	0.002	<0.001	0.001	0.001	0.0008	0.0007	0.0018	0.001	0.0021	0.0032	0.0012	0.0007	0.0005
Radium-226 (Bq/g)	0.002	0.004	0.003	0.001	0.005	0.0023	0.0018	0.0026	0.0021	0.0026	0.003	0.0033	0.0038	0.006	0.005	0.001	0.004	<0.0005	0.002	0.003	0.0022	0.0031	0.0038	0.003	0.002	0.004
Thorium-230 (Bq/g)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.0004	<0.001	<0.0003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.0009	<0.0009	<0.0009	0.002	<0.0005	<0.0005	<0.001	<0.001	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 2

Detailed blueberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Stony Rapids																									
	2011					2012					2013					2014					2015			2016		
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3
Metals and Trace Elements																										
Aluminum	21	8	27	37	10	9.6	8.9	7	11	7.6	300	180	250	240	250	7.8	9.3	10	8.3	8.9	22	18	9.5	13	16	18
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	15	15	16	8.9	13	14	12	12	10	13	10	9	13	14	13	22	21	21	18	21	13	15	15	14	15	15
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	12	5	4	3	4	5	4	11	14	6	4	4	4	5	5	4	5	5	5	16	5	5	7	12	5	5
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	0.01	0.07	0.01	0.02	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.1	<0.01	0.02	<0.01	<0.01	0.01	0.01	0.01	0.01
Copper	2.9	3.2	3	2.4	2.9	1.9	2	2.3	2.1	2	2.4	2.8	2.1	2.5	2.4	4.5	4.2	4.2	4	4.4	3.6	3.3	3.2	3	3.4	3.4
Iron	16	12	23	32	11	12	12	11	10	9.9	9.9	10	10	11	12	14	15	14	13	15	19	19	13	22	17	18
Lead	0.01	<0.01	0.02	0.04	<0.01	0.1	<0.01	0.03	0.03	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.02	0.01	0.26	0.02	0.02	0.06	0.01	0.03
Manganese	140	100	130	70	180	290	250	230	240	260	210	200	270	340	300	130	150	140	270	140	130	150	220	229	337	357
Molybdenum	0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	0.4	0.3	0.3	0.2	0.1	<0.1	<0.1	0.1	0.2	0.2	0.2	0.2	0.2	<0.1	<0.1	0.1	0.1	0.1	0.1
Nickel	0.75	0.68	0.84	0.82	0.74	0.39	0.48	0.47	0.37	0.4	0.38	0.42	0.24	0.3	0.29	1.1	1.1	1.4	0.54	1	0.68	0.65	0.8	0.68	0.57	0.57
Selenium	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	2.6	1.7	2.9	2.5	2	1.7	1.5	2.9	2.6	2.4	3.4	3	3.5	4.5	3.8	2.5	2.5	2.2	5.3	2.6	1.6	1.7	3.1	3	1.7	1.8
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05
Titanium	0.26	0.12	1.6	1.4	0.19	0.2	0.23	0.09	0.26	0.11	0.08	0.14	0.07	0.06	0.06	0.12	0.3	0.17	0.08	0.26	0.7	0.81	0.28	0.29	0.37	0.47
Uranium	<0.01	<0.01	0.02	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	5.8	6.4	5.1	4.9	5.3	3.3	3.7	4.9	3.4	4	5.9	5.8	5.9	7.6	6.4	5.2	5.2	5.5	6.1	5.3	5.2	5.4	5.6	5.5	6.7	6.6
Physical Properties																										
Moisture (%)	85.84	85.47	84.14	85.08	86.57	85.35	85.14	84.42	85.08	84.82	85.92	85.78	86.59	86.18	86.45	86.37	86.04	86.1	86.52	86.16	86.67	86.62	86.11	85.76	83.59	83.88
Radionuclides																										
Lead-210 (Bq/g)	<0.004	0.005	0.012	0.006	<0.004	<0.01	<0.01	<0.01	<0.01	<0.01	0.007	<0.004	<0.004	<0.004	<0.004	0.001	0.001	<0.001	<0.001	<0.001	0.003	0.002	0.002	0.002	<0.001	0.002
Polonium-210 (Bq/g)	0.002	0.002	0.002	0.003	0.002	0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.0002	0.0008	0.0007	0.0008	0.0006	0.0012	0.0014	0.0012	0.0011	0.0009	0.001
Radium-226 (Bq/g)	0.003	0.006	0.001	<0.0009	0.001	0.003	<0.001	0.003	0.003	0.004	0.015	0.014	0.016	0.012	0.015	0.003	0.002	0.002	0.013	0.002	0.004	0.0039	0.0018	0.002	0.002	0.001
Thorium-230 (Bq/g)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0009	<0.001	<0.001	<0.001	<0.001	<0.0005	0.0007	<0.0005	<0.0009	<0.0009	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 2

Detailed blueberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Wollaston Lake/Hatchet Lake																									
	2011					2012					2013					2014					2015			2016		
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3
Metals and Trace Elements																										
Aluminum	6.1	3.9	8.7	6.2	5.9	14	20	12	26	22	7.4	6.8	6.8	6.7	7.3	11	11	10	12	12	28	13	16	13	10	15
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	16	17	15	14	15	10	9.9	7.7	16	16	13	13	11	12	10	21	19	15	22	18	17	13	14	20	13	22
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	7	4	7	13	6	5	7	17	7	8	4	5	4	5	5	5	5	8	6	5	6	7	6	5	4	6
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	0.02	0.01	0.2	0.03	0.14	0.03	0.01	0.01	0.01	0.02	0.01
Copper	2.9	1.7	3	3	2.6	3.4	2.9	2.5	2.6	3.5	1.8	1.7	2.1	1.6	1.6	4.5	4.4	4.5	4.8	4.5	3.5	3.3	3.6	3.4	3.9	3.2
Iron	6.8	5.4	12	9.5	9	17	17	15	21	20	10	9	10	9	9	17	18	18	17	17	29	15	17	12	14	12
Lead	0.04	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.03	0.02	0.02	0.03	<0.01	0.02	<0.01	<0.01	<0.01	0.02	0.02	<0.01	0.02	0.02	0.02	0.03	0.02	0.01	0.05
Manganese	270	290	300	290	260	150	160	110	180	190	150	140	150	140	150	100	81	90	84	59	160	170	180	88	317	118
Molybdenum	<0.1	<0.1	<0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.1	<0.1	0.2	<0.1	<0.1	0.3	0.4	0.3	0.4	0.4	0.2	0.1	0.1	0.2	0.3	0.2
Nickel	0.66	0.28	0.59	0.5	0.59	0.66	0.44	0.68	0.5	0.68	0.23	0.19	0.24	0.19	0.24	1.1	0.92	1.2	1.3	1.5	1.6	0.82	0.94	0.69	0.59	0.56
Selenium	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	3.4	1.2	3.1	3.8	3.6	1.3	1.2	1.1	1.4	2.8	1.8	2.3	1.6	1.8	1.5	2.6	3.7	1.5	2.6	5.4	3.1	1.4	1.6	5.4	2.6	4.2
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	<0.05	0.07	0.13	0.09	0.09	0.38	1.3	0.4	0.91	0.51	0.1	0.05	0.05	0.11	0.09	0.16	0.17	0.14	0.17	0.25	1.1	0.34	0.88	0.1	0.19	0.14
Uranium	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	5.7	3	5.5	5.1	4.4	6.6	7.7	4.7	6.7	8	6.4	6	6.2	5.6	5.3	7.3	8.1	7.3	7.5	7.4	6	6.8	7	5.8	5.3	5.8
Physical Properties																										
Moisture (%)	85.31	84.46	84.79	84.44	85.11	84.44	84.81	84.13	85.40	84.17	85.61	85.47	85.66	85.56	85.51	86.34	86.99	86.93	87.01	86.51	88	84.22	84.43	85.72	86.66	86.27
Radionuclides																										
Lead-210 (Bq/g)	0.005	0.009	0.008	0.01	0.004	<0.001	0.001	0.001	<0.001	<0.01	0.008	0.002	<0.002	0.012	<0.004	0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.002	<0.001	0.004	0.004	0.003
Polonium-210 (Bq/g)	0.002	0.002	0.004	0.004	0.004	0.0012	0.0012	0.0008	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.0006	0.001	0.0005	0.0008	0.0007	0.0016	0.001	0.0014	0.0018	0.0011	0.0015
Radium-226 (Bq/g)	<0.001	0.001	<0.001	0.006	<0.001	0.0024	0.0032	0.0032	0.0057	0.004	0.008	0.005	0.006	0.009	0.004	0.004	0.002	0.004	0.005	0.004	0.006	0.0046	0.0045	0.002	<0.0005	0.003
Thorium-230 (Bq/g)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.0009	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0009	<0.0006	<0.0005	<0.0005	<0.0009	<0.001	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 2

Detailed blueberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Camsell Portage													Uranium City							
	2012					2013					2014			2012					2014		
	1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	1	2	3
Metals and Trace Elements																					
Aluminum	7.2	7.3	7	7.4	6	6.8	7.7	6.7	7.1	7.2	10	13	8.6	5.3	5.6	8.7	4.4	5.4	9.2	7.7	11
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	12	24	20	22	20	11	13	12	12	13	22	24	20	12	11	12	12	9.9	14	14	14
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	5	8	8	8	6	4	4	4	4	4	5	6	5	8	8	9	6	7	3	4	3
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	0.06
Copper	3.5	3	3.4	3.5	2.6	2.2	2.2	2.2	2.2	2.4	3.8	3.8	3.5	3.9	3.4	3.7	3.5	2.9	4.1	4.1	4.1
Iron	11	8.7	9.7	18	13	8	10	10	13	9	15	17	16	11	9.7	10	12	8.7	14	14	14
Lead	<0.01	0.04	<0.01	<0.01	<0.01	0.03	0.02	0.03	<0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.01	<0.01	<0.01	0.06	0.01
Manganese	280	490	490	480	580	350	390	360	380	360	430	470	370	280	330	280	200	140	430	440	450
Molybdenum	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	<0.1	0.2	0.2	0.2
Nickel	0.44	0.37	0.6	0.79	0.44	0.12	0.17	0.16	0.14	0.14	0.36	0.36	0.39	0.54	0.47	0.58	0.44	0.51	0.37	0.41	0.5
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	1.4	1.4	1.4	1.6	1.5	0.9	1	1	1	1.1	1.9	1.8	2	1.3	1.1	1.4	1.3	1.6	1.3	1.3	1.4
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.15	0.21	0.14	<0.05	<0.05	<0.05	0.05	0.05	0.17	0.13	0.21
Uranium	0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	13	6.5	8.9	8	5.9	6	6.7	5.6	8.4	6.2	7.6	7.8	6.9	6.3	5.9	6.2	6.3	4.2	6.7	6.5	6.4
Physical Properties																					
Moisture (%)	83.98	85.16	84.30	84.62	85.57	84.78	84.99	84.99	84.76	84.82	84.37	84.9	83.77	84.40	83.99	84.04	85.06	84.43	89.62	89.29	89.56
Radionuclides																					
Lead-210 (Bq/g)	0.001	0.004	<0.001	0.001	0.002	<0.004	0.013	0.004	0.008	<0.004	0.002	0.002	0.002	0.002	0.004	0.003	0.002	0.02	0.001	0.005	0.002
Polonium-210 (Bq/g)	0.0014	0.0017	0.0013	0.001	0.0016	<0.001	0.001	<0.001	<0.001	<0.001	0.0018	0.0013	0.0012	0.0021	0.005	0.0032	0.0015	0.002	0.0031	0.003	0.0028
Radium-226 (Bq/g)	0.0025	0.0028	0.0025	0.0049	0.0045	0.003	0.002	0.002	0.004	0.003	0.003	0.004	0.003	0.0014	0.006	0.0016	0.1	0.001	0.0007	0.003	0.001
Thorium-230 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.0009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 3

Detailed bog cranberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Camsell Portage												
	2011					2014		2015			2016		
	1	2	3	4	5	1	2	1	2	3	1	2	3
Metals and Trace Elements													
Aluminum	17	17	19	19	16	17	16	16	19	21	22	21	22
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	14	13	14	15	9.1	15	15	18	19	19	7.6	8.5	8.6
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	9	8	8	10	9	6	5	10	6	6	6	7	6
Cadmium	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	<0.01	<0.01
Copper	4.5	4.2	4.8	4.9	3.6	4	4.3	4.3	3.8	4.8	3.6	3.6	3.7
Iron	9.7	9.7	10	10	11	15	14	16	12	13	9.3	8.8	9
Lead	<0.01	<0.01	<0.01	0.01	0.02	0.02	<0.01	0.03	<0.01	<0.01	<0.01	0.02	0.01
Manganese	110	120	100	100	80	170	170	140	200	220	171	124	155
Molybdenum	0.1	0.1	0.2	0.2	<0.1	<0.1	<0.1	0.2	0.1	0.2	<0.1	<0.1	<0.1
Nickel	0.46	0.46	0.49	0.65	0.37	0.54	0.52	0.36	0.36	0.41	0.23	0.32	0.27
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	2.3	2	2.1	2.5	1.8	2.3	2.3	3.1	3.8	4.5	1	1.2	1.1
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.9	<0.05	1.3	<0.05	<0.05	<0.05
Titanium	0.06	0.06	<0.05	0.08	0.17	0.08	0.08	0.1	0.11	0.12	0.07	0.22	<0.05
Uranium	0.01	<0.01	0.01	<0.01	0.02	<0.01	0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	6.6	6.4	6.5	6.7	5.3	6.2	6.2	7.8	7.8	8	7.2	7	6.9
Physical Properties													
Moisture (%)	87.53	87.36	87.13	86.87	86.78	86.06	86.2	87.73	87.24	87.37	85.66	85.54	85.58
Radionuclides													
Lead-210 (Bq/g)	0.007	0.006	0.020	0.013	0.018	0.001	<0.001	0.002	0.002	0.002	0.002	0.004	0.003
Polonium-210 (Bq/g)	0.003	0.002	0.001	0.002	0.003	0.0011	0.0011	0.0015	0.0014	0.0015	0.0009	0.0011	0.001
Radium-226 (Bq/g)	0.004	0.002	0.006	0.004	0.002	0.0008	<0.0005	0.0016	0.0017	0.0007	0.002	0.002	0.002
Thorium-230 (Bq/g)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.0006	<0.0005	<0.0005	<0.001	<0.001	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 3

Detailed bog cranberry chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Uranium City															
	2011					2013					2014		2015	2016		
	1	2	3	4	5	1	2	3	4	5	1	2	1	1	2	3
Metals and Trace Elements																
Aluminum	20	29	15	19	27	21	56	50	45	28	22	23	20	18	25	17
Antimony	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	13	9.1	11	9.4	13	10	12	14	12	10	13	12	15	11	10	10
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron	10	9	8	14	10	18	16	15	7	5	6	6	9	6	4	7
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	0.02	0.14	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.05	0.04	<0.01	0.02	0.03	0.02
Copper	5.9	3.6	2.6	2.6	3.2	2.6	2.1	2.3	2.4	3.2	5.6	6.4	3.4	4.2	5.4	4.2
Iron	16	20	9.5	13	14	13	12	26	26	14	12	14	12	11	14	10
Lead	0.01	0.01	0.01	0.01	0.02	0.02	0.2	0.03	0.02	0.03	0.04	0.03	0.02	0.11	0.04	0.01
Manganese	150	110	300	210	220	210	150	100	81	100	160	160	90	158	103	120
Molybdenum	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.7	0.1	0.7
Nickel	1.1	0.8	0.28	0.5	0.42	0.2	0.28	0.42	0.46	0.36	0.59	0.59	0.74	0.34	0.72	0.38
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	3.4	2.5	2.5	2.4	1.8	2.1	2.2	2.2	2.1	1.5	1.6	1.5	3.7	1.9	1.3	2
Thallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	0.07	0.47	0.06	0.18	0.14	0.11	0.56	0.6	0.7	0.33	0.16	0.11	0.19	0.1	0.14	<0.05
Uranium	0.01	0.02	<0.01	0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	8.9	7.3	5.7	5.2	6.8	7.2	8.9	7.4	7	7	6.2	7.1	5.3	6.7	7.6	6.6
Physical Properties																
Moisture (%)	88.39	87.69	87.22	86.9	87.44	84.89	85.4	85.63	85.57	85.84	86.38	86.63	85.92	85.2	86.48	84.88
Radionuclides																
Lead-210 (Bq/g)	0.005	0.005	0.016	0.010	0.016	0.016	0.009	<0.004	<0.004	<0.004	0.005	0.002	0.003	0.005	0.002	0.003
Polonium-210 (Bq/g)	0.003	0.003	0.013	0.002	0.005	0.002	0.001	0.001	<0.001	0.001	0.0039	0.0036	0.0027	0.0024	0.0015	0.0013
Radium-226 (Bq/g)	0.002	0.007	<0.0009	<0.0009	<0.0009	<0.001	0.002	0.003	0.002	0.003	0.003	0.002	0.0034	0.0008	0.0008	0.0009
Thorium-230 (Bq/g)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001

[1]All concentrations are in µg/g dry weight, unless specified otherwise.

Appendix B, Table 4

Detailed barren-ground caribou flesh chemistry results for the EARMP community program, 2012 to 2017.

Chemical[1]	Black Lake																					
	2012					2013					2014					2015					2017	
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2
Metals and Trace Elements																						
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	0.06	0.04	0.38	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.02	0.01	0.02	0.02	0.02	0.04	0.02	0.03	0.02	0.02	0.01	0.01	0.01	<0.01	<0.01	0.02	0.03	0.02	0.04	0.02	0.03	0.02
Barium	0.2	0.03	0.04	0.03	0.25	0.04	0.02	0.02	0.01	<0.01	0.02	0.05	0.11	0.33	0.02	0.04	0.03	0.02	0.03	0.02	0.21	0.17
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	0.7	0.2	0.6	<0.2	0.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.002	0.004	0.002	<0.002	<0.002	0.004	0.003	0.002	0.006	0.005	0.002	<0.002	0.003	0.005	0.004	0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.005
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Cobalt	0.005	0.004	0.003	0.003	0.003	0.008	0.005	0.004	0.004	0.005	<0.002	0.002	0.002	<0.002	0.002	0.009	0.006	0.009	0.008	0.016	0.004	0.006
Copper	4.3	2.6	3.0	3.0	3.3	3.3	4.2	3.4	3.0	3.1	4.6	3.3	3.2	2.4	4.6	4.9	3.5	4.6	4.8	2.5	2.5	2.6
Iron	43	29	40	38	45	33	49	44	50	43	49	38	58	37	52	46	32	53	48	37	35	33
Lead	0.013	<0.002	0.008	<0.002	0.005	0.003	0.31	0.003	0.48	0.013	<0.002	0.008	0.56	0.028	0.004	0.015	0.009	0.007	0.005	0.006	0.043	0.006
Manganese	0.45	0.29	0.35	0.38	0.42	0.28	0.53	0.34	0.3	0.26	0.48	0.56	0.48	0.34	0.42	0.49	0.34	0.54	0.48	0.3	0.24	0.32
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	0.04	0.04	0.01	<0.01
Selenium	0.15	0.2	0.21	0.19	0.2	0.15	0.27	0.18	0.2	0.18	0.24	0.15	0.21	0.17	0.21	0.22	0.18	0.24	0.22	0.18	0.17	0.18
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.03	0.03	0.02	0.02	0.03	0.05	0.04	0.03	0.03	0.03	0.03	0.06	0.12	0.27	0.05	0.04	0.03	0.02	0.02	0.03	0.07	0.04
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.08	0.07	0.07	0.08	0.09	0.11	0.08	0.08	0.08	0.06	0.1	0.07	0.1	0.09	0.07	0.07	0.07	0.07	0.06	<0.01	<0.01
Uranium	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	17	31	21	16	29	26	29	33	30	32	19	21	23	30	20	14	23	15	15	46	35	46
Physical Properties																						
Moisture (%)	74.06	74.11	74.21	73.58	72.53	76.52	73.84	75.07	75.5	74.1	70.87	67.93	65.21	69.85	71.08	73.58	73.63	72.12	72.03	73.79	75.45	72.45
Radionuclides																						
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.011	0.0095	0.0083	0.01	0.011	0.0007	0.0052	0.0065	0.0085	0.0094	0.023	0.014	0.013	0.015	0.012	0.019	0.014	0.015	0.016	0.013	0.0081	0.0063
Radium-226 (Bq/g)	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	0.008	<0.005	<0.005	<0.005	<0.005	<0.00006	0.0003	<0.00006	0.0003	0.0001	0.0002	0.0002	<0.00008	0.0001	<0.00006	<0.00007	<0.00005
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 4

Detailed barren-ground caribou flesh chemistry results for the EARMP community program, 2012 to 2017.

Chemical[1]	Fond du Lac																				
	2012					2013						2014					2015			2017	
	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	1	2	3	1	2
Metals and Trace Elements																					
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	0.6	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	<0.01	<0.01	<0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.01	<0.01	<0.01	0.03	<0.01	<0.01	0.01	<0.01	0.01	0.03	<0.01
Barium	0.08	0.02	0.03	0.04	0.02	0.05	0.14	0.11	0.08	0.12	0.32	0.01	<0.01	0.02	0.02	0.04	<0.01	<0.01	0.18	0.04	0.17
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	0.4	0.5	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.004	0.002	0.003	0.002	<0.002	0.004	0.002	0.005	<0.002	0.003	0.14	0.004	0.004	<0.002	0.003	0.002	0.004	0.004	0.008	0.004	0.004
Chromium	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.004	0.006	0.006	0.003	0.003	0.003	<0.002	0.003	0.002	0.006	0.013	0.005	0.004	0.005	0.004	<0.002	0.004	0.004	0.006	0.005	0.003
Copper	3.9	2.3	2.2	4.1	3.1	1.8	2.6	3.2	3.3	3.9	4.3	4.2	4.3	2.6	4	4.2	3.5	2.6	1.9	2.4	3.4
Iron	48	31	29	48	32	30	36	43	50	39	45	46	47	27	48	49	47	36	36	34	61
Lead	0.008	<0.002	<0.002	<0.002	<0.002	0.006	0.006	0.008	<0.002	0.014	0.004	0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	0.004	0.004	0.005
Manganese	0.39	0.26	0.25	0.43	0.32	0.24	0.26	0.33	0.37	0.53	0.8	0.38	0.35	0.32	0.39	0.44	0.41	0.33	0.29	0.21	0.31
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.08	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Selenium	0.15	0.15	0.15	0.18	0.15	0.12	0.13	0.16	0.2	0.14	0.34	0.19	0.17	0.17	0.18	0.22	0.19	0.17	0.16	0.15	0.2
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.07	0.05	0.06	0.05	0.03	0.06	0.07	0.07	0.05	0.08	0.14	0.04	0.04	0.03	0.05	0.05	0.03	0.04	0.07	0.04	0.09
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	-	-	-	-	-	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.08	0.07	0.08	0.09	0.08	0.05	0.09	0.08	0.08	0.08	0.06	0.13	0.12	0.05	0.13	0.07	0.07	0.08	<0.01	0.02
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	22	56	59	16	49	40	15	23	12	16	18	28	22	30	26	24	22	28	59	39	14
Physical Properties																					
Moisture (%)	71.24	76.19	74.05	73.91	73.77	71.94	71.95	72.9	73.46	71.99	68.45	62.73	71.46	75.61	72.28	70.81	73.17	73	71.99	76.17	73.17
Radionuclides																					
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	0.002	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0042	0.0084	0.0098	0.0096	0.0021	0.015	0.015	0.015	0.016	0.016	0.021	0.012	0.012	0.011	0.01	0.014	0.0071	0.008	0.0075	0.0071	0.012
Radium-226 (Bq/g)	<0.00005	0.0002	0.0001	<0.00004	0.00008	<0.00006	<0.00006	<0.00006	<0.00007	<0.00007	0.00009	<0.00006	<0.00006	<0.00006	0.00007	0.00008	<0.00006	0.00008	<0.00006	<0.00008	<0.00009
Thorium-230 (Bq/g)	<0.0001	0.0003	<0.0002	<0.00008	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 4

Detailed barren-ground caribou flesh chemistry results for the EARMP community program, 2012 to 2017.

Chemical[1]	Camsell Portage		Stony Rapids												
	2013		2013					2014			2015				
	1	2	1	2	3	4	5	1	2	3	1	2	3	4	5
Metals and Trace Elements															
Aluminum	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	<0.01	<0.01	0.01	0.01	0.01	0.02	0.01	0.03	0.02	0.01	0.02	0.02	0.03	0.02	0.01
Barium	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.12	0.03	0.01	0.02	0.02	0.01
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.004	0.003	0.003	0.004	0.002	0.003	0.002	<0.002	0.002	0.008	0.007	<0.002	<0.002	0.006	0.003
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1
Cobalt	0.002	<0.002	0.006	0.003	0.004	0.004	0.003	0.004	0.002	0.003	0.005	0.004	0.002	0.005	0.004
Copper	3.7	3.7	4.0	4.6	4.7	3.3	4.1	2.4	3.4	1.8	2.4	4.3	3.6	3.8	3.5
Iron	50	46	52	55	46	51	55	38	38	40	34	43	46	47	50
Lead	<0.002	<0.002	0.002	0.065	0.009	0.003	0.004	0.005	0.052	0.032	0.004	0.002	<0.002	0.009	<0.002
Manganese	0.35	0.26	0.46	0.55	0.42	0.44	0.44	0.3	0.28	0.36	0.21	0.47	0.41	0.42	0.51
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.18	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	0.23	0.22	0.21	0.26	0.21	0.21	0.21	0.16	0.14	0.11	0.17	0.18	0.22	0.2	0.19
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.04	0.04	0.02	0.03	0.02	<0.02	<0.02	0.05	0.04	0.17	0.03	0.02	0.03	0.04	0.03
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.08	0.07	0.03	0.12	0.2	0.09	0.11	0.13	0.04	0.08	0.07	0.07	0.06	0.08	0.07
Uranium	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	26	25	22	13	16	29	15	40	17	48	41	15	15	18	20
Physical Properties															
Moisture (%)	72.15	72.11	70.86	70.2	70	70.4	71	74.41	74.78	67.52	73.27	73.71	72.62	72.05	71.78
Radionuclides															
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	0.001	<0.002	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.017	0.015	0.026	0.001	<0.001	0.012	0.025	0.0083	0.01	0.0059	0.013	0.017	0.025	0.033	0.02
Radium-226 (Bq/g)	<0.00008	<0.0001	0.002	<0.001	<0.001	0.002	0.001	<0.00006	<0.00006	<0.00005	<0.00007	0.0001	0.00008	<0.00007	0.0001
Thorium-230 (Bq/g)	<0.0002	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0002

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 4

Detailed barren-ground caribou flesh chemistry results for the EARMP community program, 2012 to 2017.

Chemical[1]	Wollaston Lake/Hatchet Lake																				
	2012					2013					2014					2015				2017	
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	1	2
Metals and Trace Elements																					
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.02	<0.02
Arsenic	<0.01	<0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	<0.01	0.02	<0.01	0.01	0.02	<0.01	<0.01	0.01	0.02	<0.01	0.03	0.03
Barium	0.04	0.09	0.03	0.04	0.09	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.05
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	0.4	<0.2	0.4	0.3	0.4	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.005	0.008	0.002	0.004	0.002	0.008	0.003	<0.002	0.004	0.003	0.002	0.002	<0.002	<0.002	0.003	0.003	0.003	0.005	0.027	0.004	0.004
Chromium	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.003	0.003	0.007	0.005	0.004	0.008	0.006	0.006	0.004	0.006	0.003	0.006	<0.002	0.003	0.004	0.017	0.006	0.003	0.008	0.003	0.004
Copper	3.1	3.2	2.5	3.9	3.1	4.4	2.3	2.4	3.6	3.5	3.6	3.3	2.3	3.8	3.5	3.1	3	2.8	3.9	3	3.6
Iron	37	35	26	45	29	63	36	43	52	43	42	43	23	44	45	42	36	27	52	45	38
Lead	0.013	0.002	<0.002	0.046	0.051	0.006	0.003	0.013	0.014	<0.002	<0.002	<0.002	0.003	0.005	<0.002	<0.002	1.1	<0.002	<0.002	0.52	0.014
Manganese	0.35	0.29	0.25	0.53	0.33	0.46	0.27	0.29	0.5	0.44	0.31	0.37	0.21	0.37	0.41	0.39	0.29	0.29	0.4	0.33	0.39
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	0.15	0.17	0.17	0.19	0.13	0.18	0.13	0.12	0.19	0.17	0.21	0.13	0.16	0.2	0.18	0.14	0.16	0.16	0.19	0.2	0.22
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.04	0.03	0.03	0.02	0.03	0.05	0.03	0.03	0.02	<0.02	0.02	0.04	0.05	0.03	0.04	0.02	0.03	0.02	0.03	0.04	<0.02
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.07	0.07	0.07	0.07	0.07	0.11	0.09	0.11	0.08	0.09	0.03	0.06	0.06	0.07	0.11	0.06	0.06	0.06	0.06	0.01	<0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	33	30	30	20	29	16	52	42	20	16	16	20	18	13	23	33	29	23	19	43	38
Physical Properties																					
Moisture (%)	74.5	73.6	75.2	74.14	75.2	72.82	78.45	77.45	73.98	72.58	75.58	74.52	75	74.43	73.43	76.77	73.74	74.44	68.86	74.15	74.87
Radionuclides																					
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.016	0.013	0.011	0.015	0.011	0.011	0.012	0.0095	0.019	0.014	0.0082	0.0083	0.012	0.016	0.01	0.0079	0.0072	0.0047	0.0053	0.0075	0.0082
Radium-226 (Bq/g)	<0.00006	<0.00007	<0.00006	<0.00006	<0.00005	<0.00008	<0.00006	<0.00006	0.0001	<0.00007	<0.00008	<0.00009	0.0002	<0.00006	0.00007	<0.00006	<0.00005	<0.00006	0.0001	<0.00007	<0.00007
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 5

Detailed moose flesh chemistry results for the EARMP community program, 2011 to 2016.

Chemical[1]	Fond Du Lac	Stoney Rapids	Uranium City Study Area													Camsell Portage Study Area									
			2011				2012			2013			2014	2015	2016	2011				2013		2014		2015	
	2016	2016	Mackintosh Bay	Deadman Channel	Melville Lake	Orbit Bay	Ace Creek	Gunnar	Milliken Lake	1	2	3	1	1	1	1	2	3	4	1	2	1	2	1	2
Metals and Trace Elements																									
Aluminum	0.6	0.5	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.6	<0.5	0.5	1.5	3	<0.5	3.8	<0.5	<0.5	0.6	4.4	5.1	0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
Arsenic	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Barium	0.05	0.06	0.03	0.02	<0.01	0.02	0.04	0.22	0.08	0.02	0.09	0.02	<0.01	0.04	0.1	0.04	0.15	0.03	0.02	0.05	0.02	0.07	0.04	0.05	0.02
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.002	0.002	0.003	<0.002	0.002	0.004	0.011	0.006	0.003	0.004	0.005	0.003	0.056	0.018	0.011	<0.002	0.006	0.002	<0.002	0.002	0.003	0.003	0.05	0.005	0.004
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.011	0.019	0.013	0.014	0.003	0.017	0.016	0.01	0.012	0.01	0.011	0.008	0.009	0.044	0.009	0.014	0.011	0.022	0.01	0.012	0.015	0.02	0.016	0.015	0.006
Copper	1.5	1.7	1.3	1.8	3.8	1.7	1.2	1.4	1.3	1.6	2	1.5	1.9	1.5	1.8	2.0	1.2	1.8	1.6	1.5	1.8	0.56	1.4	0.93	1.4
Iron	38	29	30	25	42	42	35	34	26	34	37	26	36	33	25	21	25	25	29	29	34	22	32	29	29
Lead	0.01	0.01	<0.002	<0.002	<0.002	<0.002	0.005	0.004	0.003	0.003	0.025	0.003	0.003	0.002	0.01	0.018	0.019	<0.002	0.002	0.004	<0.002	0.029	0.011	0.004	<0.002
Manganese	0.22	0.24	0.16	0.16	0.33	0.14	0.17	0.18	0.15	0.14	0.24	0.14	0.22	0.23	0.16	0.2	0.18	0.21	0.13	0.13	0.16	0.38	0.27	0.2	0.18
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	<0.01	0.02	0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Selenium	0.1	0.09	0.11	0.16	0.18	0.09	0.1	0.11	0.1	0.09	0.12	0.08	0.14	0.08	0.13	0.2	0.06	0.1	0.12	0.06	0.06	0.08	0.08	0.17	0.13
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.06	0.03	<0.02	<0.02	0.04	0.03	0.08	0.05	0.05	0.02	0.03	0.03	0.04	0.03	0.06	0.1	0.06	0.03	0.02	0.06	0.04	0.06	0.09	0.06	0.02
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	0.05	0.06	0.14	0.08	0.1	0.13	0.08	0.08	0.06	0.06	0.06	0.06	0.09	0.01	0.11	0.09	0.25	0.09	0.08	0.07	0.07	0.1	0.22	0.14	<0.01
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	53	49	50	49	31	49	75	56	55	44	48	56	52	52	35	24	38	47	45	59	45	63	58	61	48
Physical Properties																									
Moisture (%)	75.66	73.9	74.42	72.36	72.74	73.84	69.87	74.09	74.28	74.01	71.23	74.71	75.54	76.93	76.46	75.01	73.92	75.02	75.12	73.27	72.65	73.14	70.99	73.2	74.63
Radionuclides																									
Lead-210 (Bq/g)	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.00002	<0.00001	<0.00002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0003	0.0006	<0.0002	0.0005	0.0023	0.0003	0.0002	0.0004	<0.0002	0.0004	0.0005	0.0003	0.0016	0.001	0.0008	0.0019	0.0004	0.0003	-	0.0004	0.0002	0.0004	<0.0002	0.0011	0.0005
Radium-226 (Bq/g)	<0.00005	<0.00007	<0.00006	<0.0001	<0.00006	<0.00007	<0.00009	<0.00006	<0.00008	0.00008	0.0001	<0.00005	<0.00005	0.00006	<0.00009	<0.00008	<0.00007	0.0002	<0.00006	0.00006	0.00007	<0.00006	<0.00006	0.00005	0.00008
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.00009	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 6

Detailed snowshoe hare flesh chemistry results for the EARMP community program, 2011 to 2014.

Chemical[1]	Uranium City							Camsell Portage							
	2011					2014		2011					2014		
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 1	Sample 2	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 1	Sample 2	Sample 3
Metals and Trace Elements															
Aluminum	0.6	<0.5	<0.5	0.5	<0.5	<0.5	0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Barium	0.27	0.05	0.09	0.04	0.05	0.13	0.28	0.09	0.04	0.08	0.03	0.08	0.18	0.1	0.12
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	0.004	<0.002	0.003	0.003	<0.002	<0.002	0.005	0.003	0.004	0.01	<0.002	0.002	<0.002	0.004	0.006
Chromium	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cobalt	0.007	0.005	0.004	0.004	0.006	0.005	0.004	0.01	0.006	0.007	0.003	0.004	<0.002	0.005	0.032
Copper	1.5	1.5	1	1.4	1.1	2.4	2.1	1.8	2.4	1.5	1.8	1.5	1.9	2.1	1.8
Iron	27	22	22	14	20	21	31	31	28	24	22	24	19	25	20
Lead	<0.002	0.003	<0.002	<0.002	0.003	0.002	<0.002	0.003	<0.002	0.006	<0.002	<0.002	0.003	0.002	0.002
Manganese	0.27	0.2	0.37	0.29	0.18	0.24	1.1	0.72	0.46	0.32	0.22	0.22	0.36	0.28	0.39
Molybdenum	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	0.01	0.02	<0.01	<0.01	<0.01	0.02	0.05	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.07
Selenium	0.13	0.05	0.1	0.12	0.06	0.15	0.07	0.04	0.03	0.13	0.02	0.06	0.03	0.08	0.14
Silver	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Strontium	0.39	0.1	0.28	0.1	0.19	0.14	0.19	0.27	0.07	0.22	0.05	0.09	0.2	0.1	0.29
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tin	0.02	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.02	0.02	<0.01	<0.01	<0.01
Titanium	0.07	0.04	0.07	0.08	0.15	0.05	0.1	0.08	0.07	0.05	0.08	0.04	0.09	0.06	0.09
Uranium	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	25	24	17	10	19	10	16	14	11	23	13	13	13	11	16
Physical Properties															
Moisture (%)	77.55	77.14	77.49	78.65	78.51	70.07	65.8	77.61	76.53	75.79	77.6	78.45	71.24	75.39	73.89
Radionuclides															
Lead-210 (Bq/g)	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.0014	0.0013	0.0015	0.00003	0.0016	0.0022	0.0015	0.0011	0.0018	0.0021	0.0013	0.0012	0.0017	0.002	0.0018
Radium-226 (Bq/g)	<0.00006	0.00009	0.0001	0.0001	0.00009	0.0001	0.00007	0.0001	<0.00007	0.0001	0.0001	0.0002	0.0001	<0.00006	0.0001
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 7

Detailed barren-ground caribou and moose organ chemistry results for the EARMP community program, 2014 to 2017.

Chemical[1]	2014/2015 Sampling Year									
	Fond du Lac			Uranium City		Camsell Portage				Wollaston Lake
	Caribou Kidney			Moose Liver	Moose Kidney	Moose Liver		Moose Kidney		Caribou Liver
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 1	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1
Metals and Trace Elements										
Aluminum	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	1.1	<0.5	1.2	0.7
Arsenic	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Cadmium	6.2	9.6	6.8	0.48	8	1.7	1.1	8.6	6.5	0.65
Cobalt	0.029	0.044	0.046	0.054	0.097	0.25	0.2	0.12	0.2	0.075
Copper	3.6	4.9	4.3	28	3	38	47	2.1	3.8	26
Iron	40	60	60	120	41	100	150	70	90	140
Lead	0.073	0.068	0.078	0.008	0.002	<0.002	0.003	<0.002	0.002	0.097
Molybdenum	0.12	0.11	0.14	0.65	0.24	0.9	1	0.21	0.42	1
Nickel	<0.01	0.01	0.01	<0.01	0.04	<0.01	<0.01	0.05	0.06	<0.01
Selenium	1.3	1.6	1.4	0.2	0.67	0.22	0.21	0.71	0.78	0.4
Uranium	<0.001	<0.001	<0.001	<0.01	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	23	28	27	14	25	15	20	16	23	24
Radionuclides										
Lead-210 (Bq/g)	0.072	0.054	0.042	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Polonium-210 (Bq/g)	0.088	0.081	0.086	0.0021	0.0032	0.0036	0.0024	0.0018	0.0023	0.0093
Radium-226 (Bq/g)	0.0003	0.0009	0.0005	0.00007	<0.00006	0.0001	<0.0001	<0.00006	0.0005	0.0002
Thorium-230 (Bq/g)	<0.0003	<0.0006	<0.0005	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0004	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 7

Detailed barren-ground caribou and moose organ chemistry results for the EARMP community program, 2014 to 2017.

Chemical[1]	2015/2016 Sampling Year							
	Black Lake	Fond du Lac		Uranium City		Camsell Portage		
	Caribou Kidney	Caribou Kidney		Moose Live	Moose Kidney	Moose Liver	Moose Kidney	
	Sample 1	Sample 1	Sample 2	Sample 1	Sample 1	Sample 1	Sample 1	Sample 2
Metals and Trace Elements								
Aluminum	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
Arsenic	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	6.9	10	7.3	0.054	20	0.66	6.8	4.9
Cobalt	0.035	0.036	0.025	0.068	0.25	0.18	0.18	0.058
Copper	5	4.4	3.6	0.55	2.2	15	3.8	2.6
Iron	37	28	40	680	33	160	52	30
Lead	0.07	0.12	0.089	<0.002	<0.002	0.003	<0.002	0.004
Molybdenum	0.15	0.16	0.12	<0.02	0.17	1.1	0.45	0.25
Nickel	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.03	0.04
Selenium	1	1.2	1.1	0.18	0.53	0.92	1.2	0.78
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	24	26	25	15	24	20	26	20
Radionuclides								
Lead-210 (Bq/g)	0.049	0.077	0.073	0.002	0.002	0.001	0.002	0.002
Polonium-210 (Bq/g)	0.064	0.083	0.066	0.0018	0.0037	0.026	0.027	0.0076
Radium-226 (Bq/g)	0.0005	0.0003	0.0003	0.0003	0.00007	0.0002	0.0001	0.0003
Thorium-230 (Bq/g)	<0.0003	0.0005	<0.0003	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.

Appendix B, Table 7

Detailed barren-ground caribou and moose organ chemistry results for the EARMP community program, 2014 to 2017.

Chemical[1]	2016/2017								
	Fond du Lac		Wollaston Lake		Black Lake		Uranium City		Stoney Rapids
	Caribou Heart	Caribou Liver	Caribou1 Liver	Caribou2 Liver	Caribou Heart	Caribou Kidney	Moose Liver	Moose Kidney	Moose Kidney
Metals and Trace Elements									
Aluminum	<0.5	<0.5	0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Arsenic	0.01	<0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.01
Cadmium	0.002	0.004	1.8	1.6	0.004	4.7	1.4	8.6	0.73
Cobalt	0.02	0.013	0.1	0.071	0.014	0.062	0.078	0.11	0.29
Copper	4.5	3.3	54.6	31.7	4.5	3.5	28.1	2.9	13.2
Iron	59	37	190	170	55	24	140	31	200
Lead	0.01	0.003	0.076	0.055	0.005	0.041	0.018	0.012	0.004
Molybdenum	<0.02	<0.02	0.74	0.57	<0.02	0.21	0.81	0.2	1.1
Nickel	0.01	0.02	0.02	<0.01	<0.01	0.03	<0.01	0.08	0.02
Selenium	0.26	0.18	0.4	0.4	0.27	0.94	0.53	0.88	0.24
Uranium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Vanadium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	20	37	36	41	19	24	23	23	27
Radionuclides									
Lead-210 (Bq/g)	<0.001	<0.001	0.056	0.04	<0.001	0.023	<0.001	<0.001	0.001
Polonium-210 (Bq/g)	0.0092	0.0088	0.24	0.18	0.012	0.076	0.0057	0.0063	0.0042
Radium-226 (Bq/g)	<0.00007	<0.00006	<0.00007	<0.00007	<0.00006	<0.0001	0.0001	0.00030	<0.00008
Thorium-230 (Bq/g)	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002

[1]All concentrations are presented on a µg/g wet weight basis, unless specified otherwise.