

# **Humboldt Fish Tissue Metals Survey 2014**

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**List of Abbreviations, Acronyms, and Symbols**

AEM	Advanced Ecological Management LLC
$\bar{x}$	Average
CAS No.	Chemical abstract service number
°C	Degrees Celcius
ft	Feet
e.g.	For example
pH	Measure of acidity or alkalinity of a solution
MDEQ	Michigan Department of Environmental Quality
MNFI	Michigan Natural Features Inventory
$\mu\text{S}/\text{cm}$	Microsiemens per centimeter
mg/L	Milligrams per liter of water
mg/kg	Milligrams per kilogram
ml	Milliliters
mm	Millimeters
MDL	Minimum detection limit
N	North
n.m.	Not measured
n.s.	Not sampled
<i>n</i>	Sample size
<i>s</i>	Standard deviation
Sec.	Section
T	Township
W	West

## 1.0 EXECUTIVE SUMMARY

A total of ten smallmouth bass were collected from Lake Lory and ten smallmouth bass were collected from Squaw Lake for metals analyses on June 8, 2014 (Figure 1-1). Nine out of ten smallmouth bass in Lake Lory were males and four out of ten smallmouth bass in Squaw Lake were males. All Lake Lory smallmouth bass collected for this report were collected as part of ongoing fish community studies of the lake. AEM fisheries personnel made no attempt to select a disproportionate number of males from Lake Lory for metals analyses.

Among all smallmouth bass, lengths ranged from 224 millimeters (mm) to 382 mm, and average length was 313.7 mm (standard deviation,  $s = 39.8$  mm; sample size,  $n = 20$ ). Scale sample analyses indicated that 20 smallmouth bass were at least two to four years old (Table 4-1).

Among all 20 smallmouth bass that were selected for metals analyses, copper concentrations within fillets ranged from 0.22 mg/kg to 0.56 mg/kg ( $\bar{x} = 0.34$  mg/kg;  $s = 0.08$  mg/kg), and from 1.6 mg/kg to 14.3 mg/kg ( $\bar{x} = 3.53$  mg/kg;  $s = 2.81$  mg/kg) in livers (Tables 4-2 through 4-5). Nickel concentrations ranged from less than 0.017 mg/kg to 0.58 mg/kg ( $\bar{x} = 0.027$  mg/kg;  $s = 0.010$  mg/kg) in fillets, and ranged from 0.019 mg/kg to 0.12 mg/kg ( $\bar{x} = 0.046$  mg/kg;  $s = 0.026$  mg/kg) in livers. Mercury levels in fillets ranged from 0.011 mg/kg to 0.026 mg/kg ( $\bar{x} = 0.185$  mg/kg;  $s = 0.051$  mg/kg).

Among all metal parameters measured in smallmouth bass fillets, average metals contents for iron, manganese, selenium, and strontium were higher in Lake Lory smallmouth bass than the average metals content of smallmouth bass in Squaw Lake (Table 4-2). Average nickel content of smallmouth bass livers from Lake Lory were higher than was observed in Squaw Lake smallmouth bass (Table 4-3).

## 2.0 INTRODUCTION

This memo provides a summary of metals content data in smallmouth bass (*Micropterus dolomieu*) collected from Lake Lory in the vicinity of the Humboldt Mill and from Squaw Lake, which is located approximately 20 miles south of Humboldt Mill (Figure 1-1) and is considered a reference lake for the Humboldt Mill project of Eagle Mine. The purpose of the 2014 fish metals survey was to determine baseline metal levels within representative

fish found in the Humboldt Mill vicinity (e.g., Lake Lory) and to compare the data with fish from one reference lake outside of the influence of Humboldt Mill (e.g., Squaw Lake).

Smallmouth bass collections for metals analyses were conducted by Advanced Ecological Management, LLC (AEM) in accordance with the MDEQ Nonferrous Metallic Mineral Mining Permit Number: MP O1 2007, following the GLEAS *Procedure #31 Fish Collection and Processing Procedure* (MDEQ, 1997). Information from this survey is intended to provide one year of baseline data regarding metals concentrations within smallmouth bass that were collected from the project vicinity.

AEM followed the Great Lakes and Environmental Assessment Section, Procedure 31 protocol to collect and handle smallmouth bass that were analyzed for the following metals: aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, and zinc. AEM processed each fish for collection of fillet and liver samples.

Fillets were monitored for the following metals: aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, and zinc. Livers were processed for divalent metals, including cadmium, copper, lead, nickel, silver, and zinc. Sample specimens will be processed by Inductively Coupled Plasma-Mass-Spectrometry Method 6020 through Pace Analytical Services, Inc. Minimum detection limits for each metal is presented in an appendix to this plan.

### **3.0 METHODS**

The 2014 smallmouth bass metals survey was conducted in locations that were sampled in the summer of 2014 as part of the Humboldt Mill aquatic survey using a boat-mounted electroshocker to collect fish.

#### **3.1 Fish Collection**

A boat-mounted shocking unit and generator (boom shocker) were used to collect fish in shallow water, near-shore areas of Lake Lory and Squaw Lake (Figure 1-3). Pulsed direct current was used during the survey to minimize trauma to the fish. Electroshocking duration was automatically recorded as the total seconds of electricity that was discharged from the boom shocker in each transect. Electroshocking within

Squaw Lake was conducted along the shoreline until a total of ten smallmouth bass of similar size were collected for metals analyses. Smallmouth bass were collected as part of an annual aquatic survey of Lake Lory.

### **3.2 Fish Tissue Analyses**

AEM followed the GLEAS, Procedure 31 protocol to collect and handle smallmouth bass. All collected fish were placed immediately in water-filled tubs to keep collected fish alive until 10 smallmouth bass of similar size were collected from each water body.

#### **3.3.1 Tissue Processing**

The processing area and all processing materials (e.g., knives, table, and balance tray) were rinsed with de-ionized water prior to fish processing. Photographs of each fish labeled with date, length, weight, and sample location information were collected (Exhibit B). Working from the smallest specimen to the largest specimen, each fish was weighed, measured, and sex was determined as they were processed. Scale samples were taken from a location adjacent to the dorsal fin and placed in aging sample envelopes labeled with date, body of water, station number, personnel, sample identification number, fish length, and fish weight.

Fillet tissue samples were processed according to guidance provided in Attachment 10 of GLEAS Procedure 31. The edible portion samples (left and right fillets) were wrapped in aluminum foil with dull side to fillet. Aluminum foil packages for each fish were placed in a separate clear plastic bag and labeled with the following information: date, water body, station number, species, fillet weights, and sample identification number. Liver samples from each fish were wrapped in aluminum foil with dull side to liver and placed in a separate clear plastic bag. Each liver package was labeled with the following information: date, water body, station number, species, liver weight, and sample identification number. Fillet and liver packages for each fish were placed in specimen packages and labeled with the following information: date, water body, station number, species, sample identification number, fish length, and fish weight.

All bags from a given sample station were placed in a large plastic bag and labeled with station number and water body. All bags were placed on ice and samples were subsequently frozen prior to shipping samples to the laboratory the next day. Chain of Custody forms provided by the laboratory were completed where processing was conducted. All samples were placed in a cooler provided by the laboratory, along with

completed Chain of Custody forms and ice, and sent to Pace Analytical Services, Inc. via next-day courier service following the completion of fish collection from both water bodies.

Fillets and livers were processed by Pace Analytical Services, Inc. using the Inductively Coupled Plasma-Mass-Spectrometry Method 6020. Fillets were processed for the following metals: aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, and zinc. Livers were processed for divalent metals, including cadmium, copper, lead, nickel, silver, and zinc.

Average metals contents presented in Table 4-2 and Table 4-3 were calculated based on laboratory results provided by Pace Analytical Services, Inc. Reported Minimum Detectable Limit (MDL) varied according to the amount of tissue that was available for analyses. MDL values were used in the calculation of average statistics for samples that were recorded as non-detect in Table 4-2 and Table 4-3.

## 4.0 RESULTS

All smallmouth bass that were analyzed for metals contents were collected from Lake Lory and Squaw Lake using a boom shocker on June 8, 2014. Photographs of individually labeled smallmouth bass collected for metals analyses are presented in Exhibit D.

### 4.2 Metals Concentration in Tissues

Copper, mercury, and nickel concentrations are summarized within the text of this report, and all other metals data are summarized within Tables 4-2 through 4-5. In addition, notable differences between metals from Lake Lory and Squaw Lake smallmouth bass are also discussed. Chain of Custody forms are presented in Exhibit E.

#### 4.2.1 Lake Lory

A total of 10 smallmouth bass were selected for metals analyses from Lake Lory (Table 4-1). Lake Lory smallmouth bass ranged in length from 224 mm to 382 mm, with an average length of 320.3 mm (standard deviation;  $s = 49.1$  mm; Table 4-2). The Lake Lory smallmouth bass ranged in weight from 141.4 gm to 563.0 gm (average weight;  $\bar{x} = 393.5$  gm,  $s = 136.1$  gm; Table 4-2), and ranged in age from two years old to at least four years old (Table 4-1).

A total of one female and nine males were analyzed for metals content. AEM collected smallmouth bass as part of an annual aquatic assessment of Lake Lory. No attempt was made by AEM to select a disproportionate number of males for this metals survey.

Copper concentrations of smallmouth bass fillets ranged from 0.22 mg/kg to 0.56 mg/kg ( $\bar{x} = 0.341$  mg/kg,  $s = 0.10$  mg/kg), and from 1.6 mg/kg to 14.3 mg/kg ( $\bar{x} = 4.8$  mg/kg,  $s = 3.58$  mg/kg) in livers (Tables 4-2 through 4-5). Nickel concentrations of smallmouth bass fillets ranged from 0.017 mg/kg to 0.034 mg/kg ( $\bar{x} = 0.024$  mg/kg,  $s = 0.01$  mg/kg) and from 0.034 mg/kg to 0.12 mg/kg ( $\bar{x} = 0.065$  mg/kg,  $s = 0.02$  mg/kg) in livers (Tables 4-2 through 4-5). Mercury levels were only measured in smallmouth bass fillets and ranged from 0.11 mg/kg to 0.26 mg/kg ( $\bar{x} = 0.191$  mg/kg;  $s = 0.05$  mg/kg).

#### **4.2.2 Squaw Lake**

A total of 10 smallmouth bass were selected for metals analyses from Squaw Lake (Table 4-1). Squaw Lake smallmouth bass ranged in length from 271 mm to 365 mm, with an average length of 307.0 mm ( $s = 29.0$  mm; Table 4-2). The Squaw Lake smallmouth bass ranged in weight from 245.6 gm to 542.1 gm (average weight;  $\bar{x} = 358.8$  gm,  $s = 92.9$  gm; Table 4-2), and ranged in age from at least two years old to at least four years old (Table 4-1). A total of six females and four males were analyzed for metals content.

Copper concentrations of smallmouth bass fillets ranged from 0.25 mg/kg to 0.45 mg/kg ( $\bar{x} = 0.338$  mg/kg,  $s = 0.07$  mg/kg), and from 1.7 mg/kg to 3.0 mg/kg ( $\bar{x} = 2.2$  mg/kg,  $s = 0.41$  mg/kg) in livers (Tables 4-2 through 4-5). Nickel concentrations of smallmouth bass fillets ranged from 0.021 mg/kg to 0.058 mg/kg ( $\bar{x} = 0.030$  mg/kg,  $s = 0.01$  mg/kg) and from 0.019 mg/kg to 0.036 mg/kg ( $\bar{x} = 0.027$  mg/kg,  $s = 0.01$  mg/kg) in livers (Tables 4-2 through 4-5). Mercury levels were only measured in smallmouth bass fillets and ranged from 0.11 mg/kg to 0.26 mg/kg ( $\bar{x} = 0.179$  mg/kg;  $s = 0.05$  mg/kg).

#### **4.2.3 Lake Lory-Squaw Lake Comparison**

Average metals concentration and the accompanying standard deviation was similar for most parameters within smallmouth bass tissues and livers among all Lake Lory and Squaw Lake data (Table 4-2 and Table 4-3). However, average metals contents for iron, manganese, selenium, and strontium were higher in Lake Lory smallmouth bass than

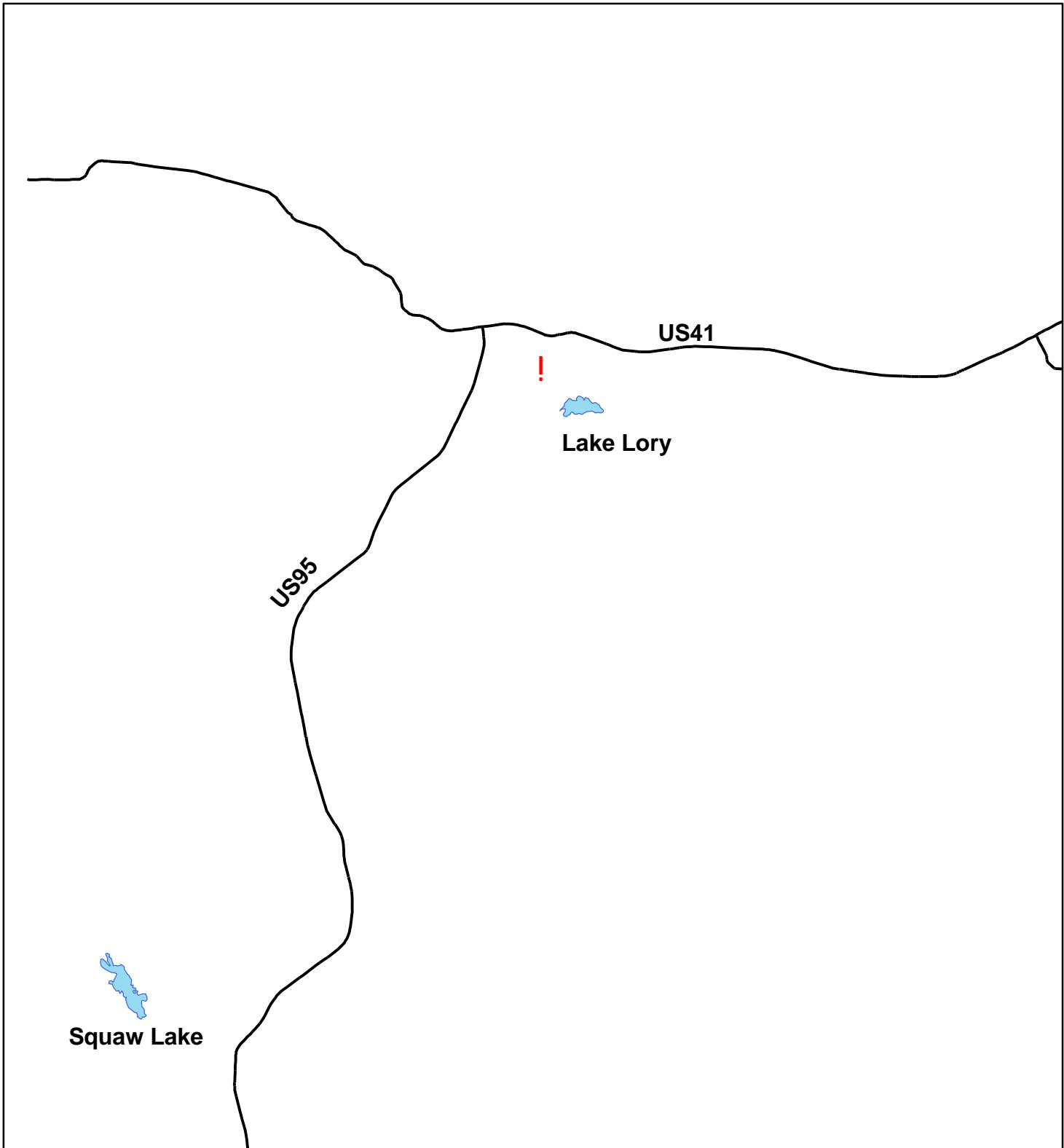
the average metals content of smallmouth bass in Squaw Lake (Table 4-2). Average nickel content of smallmouth bass livers from Lake Lory were higher than was observed in Squaw Lake smallmouth bass (Table 4-3).

## 5.0 REFERENCES

- AEM, 2011. Memo: Long Term Brook Trout Tissue Survey Protocol. August 8, 2011. Memo to Kennecott Eagle Minerals Company.
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- Becker, G. C. 1983. Fishes of Wisconsin. The University of Wisconsin Press, Madison, WI.
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- MDEQ (Michigan Department of Environmental Quality). 1997. Revised GLEAS Procedure #31, Fish Contaminant Monitoring Program, Fish Collection and Processing Procedure. Website, <<http://www.deq.state.mi.us/documents/deq-swq-gleas-proc31.pdf>>. (Accessed 11/18/2008).
- MNFI (Michigan Natural Features Inventory). 2008. Marquette County Element Data. Michigan State University. East Lansing, MI.

**EXHIBIT A**  
**REPORT FIGURES**

**Figure 1-1. Sample Locations.**



0 1 2 4 6 8 Miles

### Legend

! Humboldt Mill



**AeM**

ADVANCED  
ECOLOGICAL  
MANAGEMENT

<b>PROJECT</b>	Eagle Mine - Humboldt Mill
<b>TITLE</b>	Humboldt Fish Tissue Survey Lakes
<b>FIGURE</b>	1-1

Base map imagery obtained from Michigan Center for Geographic Information (<http://michigan.gov/cgi/>)

**EXHIBIT B**  
**REPORT TABLES**

**Table 4-1. Length, Weight, Sex, and Age of Smallmouth Bass (*Micropterus dolomieu*) Collected for Metals Analyses in June 2014.**

Sample Number	Sample Station	Length (mm)	Weight (gm)	Sex	Age
LLBASS-1	Lake Lory	356	563.0	Female	3+
LLBASS-2	Lake Lory	306	364.3	Male	2+
LLBASS-3	Lake Lory	344	472.6	Male	4+
LLBASS-4	Lake Lory	224	141.4	Male	2+
LLBASS-5	Lake Lory	333	404.3	Male	4+
LLBASS-6	Lake Lory	382	551.8	Male	4+
LLBASS-7	Lake Lory	325	395.1	Male	3+
LLBASS-8	Lake Lory	250	198.9	Male	2+
LLBASS-9	Lake Lory	325	384.6	Male	3+
LLBASS-10	Lake Lory	358	458.9	Male	4+
SLBASS-1	Squaw Lake	286	307.4	Female	2+
SLBASS-2	Squaw Lake	365	542.1	Male	4+
SLBASS-3	Squaw Lake	290	297.7	Female	3+
SLBASS-4	Squaw Lake	271	245.6	Female	3+
SLBASS-5	Squaw Lake	296	322.6	Male	4+
SLBASS-6	Squaw Lake	314	314.9	Male	3+
SLBASS-7	Squaw Lake	342	484.3	Male	3+
SLBASS-8	Squaw Lake	315	404.5	Female	3+
SLBASS-9	Squaw Lake	280	298.5	Female	3+
SLBASS-10	Squaw Lake	311	370.6	Female	3+

mm - millimeters

gm - grams

**Table 4-2. Fillet Tissue Average Metals Concentration and Average Fish Size from Ten Smallmouth Bass (*Micropterus dolomieu*) Collected from Lake Lory and Ten Smallmouth Bass Collected from Squaw Lake in June, 2014.**

Parameter	Units	Lake Lory			Squaw Lake		
		Minimum	Maximum	Average	Minimum	Maximum	Average
Fish Length	mm	224	382	320.3 (49.1)	271	365	307.0 (29.0)
Fish Weight	gm	141.1	563.0	393.5 (136.1)	245.6	542.1	358.8 (92.9)
Aluminum	mg/kg	1	2.2	1.42 (0.43)	1.1	2.3	1.35 (0.34)
Antimony*	mg/kg	0.0092	0.011	0.010 (0.00)	0.0097	0.011	0.010 (0.00)
Arsenic	mg/kg	0.049	0.22	0.091 (0.05)	0.015	0.21	0.0542 (0.06)
Barium	mg/kg	0.11	1.1	0.413 (0.29)	0.18	0.8	0.376 (0.20)
Beryllium*	mg/kg	0.013	0.015	0.014 (0.00)	0.014	0.015	0.0145 (0.00)
Boron*	mg/kg	0.21	0.38	0.238 (0.05)	0.22	0.25	0.232 (0.01)
Cadmium*	mg/kg	0.0066	0.022	0.009 (0.00)	0.0069	0.034	0.010 (0.01)
Chromium*	mg/kg	0.036	0.056	0.042 (0.01)	0.038	0.046	0.0409 (0.00)
Cobalt*	mg/kg	0.0047	0.0094	0.006 (0.00)	0.0049	0.0067	0.0053 (0.00)
Copper	mg/kg	0.22	0.56	0.341 (0.10)	0.25	0.45	0.338 (0.07)
Iron	mg/kg	2.9	6.6	4.61 (1.07)	2	4.5	2.89 (0.78)
Lead*	mg/kg	0.0094	0.014	0.011 (0.00)	0.0096	0.014	0.0106 (0.00)
Manganese	mg/kg	1.3	6.1	3.32 (1.53)	0.23	2.3	1.008 (0.63)
Mercury	mg/kg	0.11	0.26	0.191 (0.05)	0.11	0.26	0.179 (0.05)
Molybdenum	mg/kg	0.0097	0.053	0.03 (0.01)	0.0092	0.018	0.0108 (0.00)
Nickel	mg/kg	0.017	0.034	0.024 (0.01)	0.021	0.058	0.0297 (0.01)
Selenium	mg/kg	0.35	0.47	0.405 (0.04)	0.12	0.19	0.157 (0.02)
Silver*	mg/kg	0.0016	0.0035	0.002 (0.00)	0.0016	0.0083	0.0024 (0.00)
Strontium	mg/kg	5.6	36.5	15.23 (10.3)	1.2	3.9	2.62 (0.89)
Zinc	mg/kg	9.3	28.8	18.23 (6.45)	11.7	20.3	15.21 (2.19)

\* Minimum Detectable Limit used in calculation of average metals concentration for samples that were recorded as non-detectable.

mm - millimeters

gm - grams

mg/kg - milligram per kilogram

( ) - standard deviation

**Table 4-3. Liver Tissue Average Metals Concentration and Average Fish Size from Ten Smallmouth Bass (*Micropterus dolomieu*) Collected from Lake Lory and Ten Smallmouth Bass Collected from Squaw Lake in June, 2014.**

<b>Parameter</b>	<b>Units</b>	<b>Lake Lory</b>			<b>Squaw Lake</b>		
		<b>Minimum</b>	<b>Maximum</b>	<b>Average</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Average</b>
Fish Length	mm	224	382	320.3 (49.1)	271	365	307.0 (29.0)
Fish Weight	gm	141.4	563.0	393.5 (136.1)	245.6	542.1	358.8 (92.9)
Cadmium	mg/kg	0.023	0.4	0.137 (0.10)	0.043	0.31	0.085 (0.08)
Copper	mg/kg	1.6	14.3	4.81 (3.58)	1.7	3.0	2.24 (0.41)
Lead*	mg/kg	0.0095	0.03	0.014 (0.01)	0.0097	0.019	0.0121 (0.00)
Nickel	mg/kg	0.034	0.12	0.065 (0.02)	0.019	0.036	0.0267 (0.01)
Silver*	mg/kg	0.0018	0.18	0.040 (0.05)	0.0017	0.0056	0.0023 (0.00)
Zinc	mg/kg	22.2	30.8	27.21 (2.40)	22.7	28.3	26.15 (1.80)

\* Minimum Detectable Limit used in calculation of average metals concentration for samples that were recorded as non-detectable.

mm = millimeters

gm = grams

mg/kg = milligrams per kilograms

( ) – standard deviation

**Table 4-4. Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797001	LL BASS 1	Lake Lory	Aluminum	2.2	0.78	25.0	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Antimony	<0.011	0.011	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Arsenic	0.22	0.013	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Barium	0.26	0.017	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Beryllium	<0.015	0.015	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Boron	0.38	0.24	2.0	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Cadmium	0.022	0.0078	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Chromium	0.048	0.043	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Cobalt	<0.0055	0.0055	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Copper	0.56	0.029	0.10	mg/kg	06/08/14	06/30/14
4097797001	LL BASS 1	Lake Lory	Iron	4.2	0.78	25.0	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Lead	<0.011	0.011	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Manganese	2.3	0.044	0.50	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Mercury	0.23	0.0077	0.020	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Molybdenum	0.024	0.010	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Nickel	0.034	0.013	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Selenium	0.42	0.075	0.20	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Silver	0.0035	0.0019	0.050	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Strontium	8.4	0.022	0.10	mg/kg	06/08/14	06/28/14
4097797001	LL BASS 1	Lake Lory	Zinc	11.8	0.80	2.0	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Aluminum	1.7	0.73	23.3	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Antimony	<0.010	0.010	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Arsenic	0.11	0.012	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Barium	0.49	0.016	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Beryllium	<0.014	0.014	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Boron	<0.23	0.23	1.9	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Cadmium	<0.0073	0.0073	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Chromium	<0.040	0.040	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Cobalt	0.0094	0.0052	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Copper	0.30	0.027	0.093	mg/kg	06/08/14	06/30/14
4097797002	LL BASS 2	Lake Lory	Iron	4.2	0.73	23.3	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Lead	<0.010	0.010	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Manganese	3.4	0.041	0.47	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Mercury	0.16	0.0072	0.019	mg/kg	06/08/14	06/28/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797002	LL BASS 2	Lake Lory	Molybdenum	0.041	0.0098	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Nickel	0.028	0.012	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Selenium	0.40	0.070	0.19	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Silver	<0.0017	0.0017	0.047	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Strontium	13.9	0.021	0.093	mg/kg	06/08/14	06/28/14
4097797002	LL BASS 2	Lake Lory	Zinc	16.4	0.75	1.9	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Aluminum	1.3	0.77	24.5	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Antimony	<0.011	0.011	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Arsenic	0.085	0.013	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Barium	0.55	0.016	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Beryllium	<0.015	0.015	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Boron	<0.24	0.24	2.0	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Cadmium	<0.0077	0.0077	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Chromium	0.049	0.042	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Cobalt	<0.0054	0.0054	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Copper	0.39	0.028	0.098	mg/kg	06/08/14	06/30/14
4097797003	LL BASS 3	Lake Lory	Iron	6.6	0.77	24.5	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Lead	<0.011	0.011	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Manganese	6.1	0.044	0.49	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Mercury	0.20	0.0075	0.020	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Molybdenum	0.029	0.010	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Nickel	0.022	0.013	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Selenium	0.40	0.074	0.20	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Silver	<0.0018	0.0018	0.049	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Strontium	22.3	0.022	0.098	mg/kg	06/08/14	06/28/14
4097797003	LL BASS 3	Lake Lory	Zinc	22.1	0.79	2.0	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Aluminum	1.3	0.71	22.8	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Antimony	<0.010	0.010	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Arsenic	0.094	0.012	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Barium	0.25	0.015	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Beryllium	<0.014	0.014	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Boron	<0.22	0.22	1.8	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Cadmium	<0.0071	0.0071	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Chromium	<0.039	0.039	0.091	mg/kg	06/08/14	06/28/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797004	LL BASS 4	Lake Lory	Cobalt	<0.0051	0.0051	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Copper	0.34	0.026	0.091	mg/kg	06/08/14	06/30/14
4097797004	LL BASS 4	Lake Lory	Iron	5.4	0.72	22.8	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Lead	<0.010	0.010	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Manganese	2.8	0.041	0.46	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Mercury	0.11	0.0070	0.018	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Molybdenum	0.022	0.0096	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Nickel	0.018	0.012	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Selenium	0.36	0.069	0.18	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Silver	<0.0017	0.0017	0.046	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Strontium	7.8	0.020	0.091	mg/kg	06/08/14	06/28/14
4097797004	LL BASS 4	Lake Lory	Zinc	26.6	0.73	1.8	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Aluminum	1.2	0.66	21.0	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Antimony	<0.0092	0.0092	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Arsenic	0.082	0.011	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Barium	1.1	0.014	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Beryllium	<0.013	0.013	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Boron	<0.21	0.21	1.7	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Cadmium	<0.0066	0.0066	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Chromium	<0.036	0.036	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Cobalt	<0.0047	0.0047	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Copper	0.22	0.024	0.084	mg/kg	06/08/14	06/30/14
4097797005	LL BASS 5	Lake Lory	Iron	4.6	0.66	21.0	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Lead	0.014	0.0092	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Manganese	4.3	0.037	0.42	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Mercury	0.26	0.0065	0.017	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Molybdenum	0.053	0.0088	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Nickel	0.027	0.011	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Selenium	0.40	0.063	0.17	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Silver	<0.0016	0.0016	0.042	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Strontium	36.5	0.019	0.084	mg/kg	06/08/14	06/28/14
4097797005	LL BASS 5	Lake Lory	Zinc	28.8	0.67	1.7	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Aluminum	1.2	0.77	24.6	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Antimony	<0.011	0.011	0.098	mg/kg	06/08/14	06/28/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797006	LL BASS 6	Lake Lory	Arsenic	0.059	0.013	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Barium	0.57	0.017	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Beryllium	<0.015	0.015	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Boron	<0.24	0.24	2.0	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Cadmium	<0.0077	0.0077	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Chromium	<0.042	0.042	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Cobalt	<0.0055	0.0055	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Copper	0.37	0.028	0.098	mg/kg	06/08/14	06/30/14
4097797006	LL BASS 6	Lake Lory	Iron	5.0	0.77	24.6	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Lead	<0.011	0.011	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Manganese	5.2	0.044	0.49	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Mercury	0.21	0.0076	0.020	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Molybdenum	0.028	0.010	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Nickel	0.025	0.013	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Selenium	0.39	0.074	0.20	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Silver	<0.0018	0.0018	0.049	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Strontium	27.8	0.022	0.098	mg/kg	06/08/14	06/28/14
4097797006	LL BASS 6	Lake Lory	Zinc	21.6	0.79	2.0	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Aluminum	2.1	0.71	22.6	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Antimony	<0.0099	0.0099	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Arsenic	0.057	0.012	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Barium	0.27	0.015	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Beryllium	<0.014	0.014	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Boron	<0.22	0.22	1.8	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Cadmium	<0.0070	0.0070	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Chromium	<0.039	0.039	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Cobalt	<0.0050	0.0050	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Copper	0.40	0.026	0.090	mg/kg	06/08/14	06/30/14
4097797007	LL BASS 7	Lake Lory	Iron	5.6	0.71	22.6	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Lead	<0.0099	0.0099	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Manganese	3.4	0.040	0.45	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Mercury	0.20	0.0069	0.018	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Molybdenum	0.024	0.0095	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Nickel	0.020	0.012	0.090	mg/kg	06/08/14	06/28/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797007	LL BASS 7	Lake Lory	Selenium	0.47	0.068	0.18	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Silver	<0.0017	0.0017	0.045	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Strontium	12.8	0.020	0.090	mg/kg	06/08/14	06/28/14
4097797007	LL BASS 7	Lake Lory	Zinc	17.5	0.72	1.8	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Aluminum	1.1	0.67	21.4	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Antimony	<0.0094	0.0094	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Arsenic	0.049	0.011	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Barium	0.11	0.014	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Beryllium	<0.013	0.013	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Boron	<0.21	0.21	1.7	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Cadmium	<0.0067	0.0067	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Chromium	<0.037	0.037	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Cobalt	<0.0047	0.0047	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Copper	0.32	0.025	0.085	mg/kg	06/08/14	06/30/14
4097797008	LL BASS 8	Lake Lory	Iron	2.9	0.67	21.4	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Lead	<0.0094	0.0094	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Manganese	1.3	0.038	0.43	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Mercury	0.13	0.0066	0.017	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Molybdenum	0.0097	0.0090	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Nickel	0.017	0.011	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Selenium	0.35	0.064	0.17	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Silver	<0.0016	0.0016	0.043	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Strontium	5.6	0.019	0.085	mg/kg	06/08/14	06/28/14
4097797008	LL BASS 8	Lake Lory	Zinc	12.2	0.68	1.7	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Aluminum	1.0	0.70	22.4	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Antimony	<0.0099	0.0099	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Arsenic	0.083J	0.012	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Barium	0.33	0.015	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Beryllium	<0.014	0.014	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Boron	<0.22	0.22	1.8	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Cadmium	<0.0070	0.0070	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Chromium	0.056	0.039	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Cobalt	<0.0050	0.0050	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Copper	0.25	0.026	0.090	mg/kg	06/08/14	06/30/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797009	LL BASS 9	Lake Lory	Iron	3.8	0.70	22.4	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Lead	<0.0098	0.0098	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Manganese	2.9	0.040	0.45	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Mercury	0.17	0.0069	0.018	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Molybdenum	0.027	0.0094	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Nickel	0.022	0.012	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Selenium	0.43	0.067	0.18	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Silver	<0.0017	0.0017	0.045	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Strontium	10.2	0.020	0.090	mg/kg	06/08/14	06/28/14
4097797009	LL BASS 9	Lake Lory	Zinc	16.0	0.72	1.8	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Aluminum	1.1	0.68	21.7	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Antimony	<0.0096	0.0096	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Arsenic	0.070	0.012	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Barium	0.20	0.015	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Beryllium	<0.013	0.013	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Boron	<0.21	0.21	1.7	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Cadmium	<0.0068	0.0068	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Chromium	<0.037	0.037	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Cobalt	<0.0048	0.0048	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Copper	0.26	0.025	0.087	mg/kg	06/08/14	06/30/14
4097797010	LL BASS 10	Lake Lory	Iron	3.8	0.68	21.7	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Lead	<0.0095	0.0095	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Manganese	1.5	0.039	0.43	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Mercury	0.24	0.0067	0.017	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Molybdenum	0.024	0.0091	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Nickel	0.027	0.012	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Selenium	0.43	0.065	0.17	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Silver	<0.0016	0.0016	0.043	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Strontium	7.0	0.019	0.087	mg/kg	06/08/14	06/28/14
4097797010	LL BASS 10	Lake Lory	Zinc	9.3	0.70	1.7	mg/kg	06/08/14	06/28/14
4097781011	SL BASS 1	Squaw Lake	Aluminum	2.3	0.78	0.091	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Antimony	<0.011	0.011	0.091	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Arsenic	0.21	0.013	0.091	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Barium	0.43	0.017	0.091	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781011	SL BASS 1	Squaw Lake	Beryllium	<0.015	0.015	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Boron	<0.25	0.25	2.0	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Cadmium	0.034	0.0078	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Chromium	0.046	0.043	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Cobalt	0.0067	0.0056	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Copper	0.42	0.029	0.10	mg/kg	06/08/14	07/01/14
4097781011	SL BASS 1	Squaw Lake	Iron	4.5	0.79	25.0	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Lead	0.014	0.011	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Manganese	0.70	0.044	0.50	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Mercury	0.14	0.0077	0.020	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Molybdenum	0.012	0.010	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Nickel	0.046	0.013	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Selenium	0.17	0.075	0.20	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Silver	0.0083	0.0019	0.050	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Strontium	2.0	0.022	0.10	mg/kg	06/08/14	06/27/14
4097781011	SL BASS 1	Squaw Lake	Zinc	15.0	0.80	2.0	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Aluminum	1.2	0.69	22.0	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Antimony	<0.0097	0.0097	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Arsenic	0.044	0.012	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Barium	0.29	0.015	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Beryllium	<0.014	0.014	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Boron	<0.22	0.22	1.8	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Cadmium	<0.0069	0.0069	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Chromium	<0.038	0.038	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Cobalt	<0.0049	0.0049	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Copper	0.40	0.025	0.088	mg/kg	06/08/14	07/01/14
4097781012	SL BASS 2	Squaw Lake	Iron	3.1	0.69	22.0	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Lead	<0.0096	0.0096	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Manganese	0.85	0.039	0.44	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Mercury	0.14	0.0068	0.018	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Molybdenum	<0.0092	0.0092	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Nickel	0.023	0.012	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Selenium	0.19	0.066	0.18	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Silver	<0.0016	0.0016	0.044	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781012	SL BASS 2	Squaw Lake	Strontium	3.0	0.020	0.088	mg/kg	06/08/14	06/27/14
4097781012	SL BASS 2	Squaw Lake	Zinc	16.4	0.71	1.8	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Aluminum	1.3	0.76	24.4	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Antimony	<0.011	0.011	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Arsenic	0.045	0.013	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Barium	0.43	0.016	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Beryllium	<0.015	0.015	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Boron	<0.24	0.24	1.9	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Cadmium	<0.0076	0.0076	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Chromium	<0.042	0.042	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Cobalt	<0.0054	0.0054	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Copper	0.45	0.028	0.097	mg/kg	06/08/14	07/01/14
4097781013	SL BASS 3	Squaw Lake	Iron	4.0	0.77	24.4	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Lead	<0.011	0.011	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Manganese	1.4	0.043	0.49	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Mercury	0.25	0.0075	0.019	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Molybdenum	<0.010	0.010	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Nickel	0.058	0.013	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Selenium	0.16	0.073	0.19	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Silver	<0.0018	0.0018	0.049	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Strontium	2.9	0.022	0.097	mg/kg	06/08/14	06/27/14
4097781013	SL BASS 3	Squaw Lake	Zinc	13.8	0.78	1.9	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Aluminum	1.2	0.72	23.1	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Antimony	<0.010	0.010	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Arsenic	0.038	0.012	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Barium	0.80	0.016	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Beryllium	<0.014	0.014	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Boron	<0.23	0.23	1.8	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Cadmium	<0.0072	0.0072	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Chromium	<0.040	0.040	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Cobalt	<0.0051	0.0051	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Copper	0.25	0.027	0.092	mg/kg	06/08/14	07/01/14
4097781014	SL BASS 4	Squaw Lake	Iron	2.6	0.73	23.1	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Lead	<0.010	0.010	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Manganese	1.4	0.041	0.46	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781014	SL BASS 4	Squaw Lake	Mercury	0.14	0.0071	0.018	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Molybdenum	0.018	0.0097	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Nickel	0.024	0.012	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Selenium	0.14	0.070	0.18	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Silver	<0.0017	0.0017	0.046	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Strontium	3.9	0.021	0.092	mg/kg	06/08/14	06/27/14
4097781014	SL BASS 4	Squaw Lake	Zinc	20.3	0.74	1.8	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Aluminum	1.1	0.69	22.0	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Antimony	<0.0097	0.0097	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Arsenic	0.032	0.012	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Barium	0.24	0.015	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Beryllium	<0.014	0.014	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Boron	<0.22	0.22	1.8	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Cadmium	<0.0069	0.0069	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Chromium	<0.038	0.038	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Cobalt	<0.0049	0.0049	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Copper	0.25	0.025	0.088	mg/kg	06/08/14	07/01/14
4097781015	SL BASS 5	Squaw Lake	Iron	2.4	0.69	22.0	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Lead	<0.0096	0.0096	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Manganese	0.44	0.039	0.44	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Mercury	0.23	0.0068	0.018	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Molybdenum	<0.0092	0.0092	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Nickel	0.023	0.012	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Selenium	0.15	0.066	0.18	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Silver	<0.0016	0.0016	0.044	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Strontium	2.5	0.020	0.088	mg/kg	06/08/14	06/27/14
4097781015	SL BASS 5	Squaw Lake	Zinc	14.5	0.70	1.8	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Aluminum	1.2	0.74	23.7	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Antimony	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Arsenic	0.032J	0.013	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Barium	0.23	0.016	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Beryllium	<0.015	0.015	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Boron	<0.23	0.23	1.9	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Cadmium	<0.0074	0.0074	0.095	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781016	SL BASS 6	Squaw Lake	Chromium	<0.041	0.041	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Cobalt	<0.0053	0.0053	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Copper	0.32	0.027	0.095	mg/kg	06/08/14	07/01/14
4097781016	SL BASS 6	Squaw Lake	Iron	2.8J	0.75	23.7	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Lead	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Manganese	0.71	0.042	0.47	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Mercury	0.18	0.0073	0.019	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Molybdenum	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Nickel	0.021	0.013	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Selenium	0.16	0.071	0.19	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Silver	<0.0018	0.0018	0.047	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Strontium	2.3	0.021	0.095	mg/kg	06/08/14	06/27/14
4097781016	SL BASS 6	Squaw Lake	Zinc	15.2	0.76	1.9	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Aluminum	1.3	0.73	23.2	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Antimony	<0.010	0.010	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Arsenic	0.036	0.012	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Barium	0.18	0.016	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Beryllium	<0.014	0.014	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Boron	<0.23	0.23	1.9	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Cadmium	<0.0073	0.0073	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Chromium	<0.040	0.040	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Cobalt	<0.0052	0.0052	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Copper	0.29	0.027	0.093	mg/kg	06/08/14	07/01/14
4097781017	SL BASS 7	Squaw Lake	Iron	2.0	0.73	23.2	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Lead	0.011	0.010	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Manganese	0.23	0.041	0.46	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Mercury	0.21	0.0071	0.019	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Molybdenum	<0.0098	0.0098	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Nickel	0.021	0.012	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Selenium	0.17	0.070	0.19	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Silver	<0.0017	0.0017	0.046	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Strontium	1.5	0.021	0.093	mg/kg	06/08/14	06/27/14
4097781017	SL BASS 7	Squaw Lake	Zinc	14.4	0.74	1.9	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Aluminum	1.4	0.73	23.4	mg/kg	06/08/14	07/01/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781018	SL BASS 8	Squaw Lake	Antimony	<0.010	0.010	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Arsenic	0.040	0.013	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Barium	0.61	0.016	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Beryllium	<0.014	0.014	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Boron	<0.23	0.23	1.9	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Cadmium	<0.0073	0.0073	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Chromium	<0.040	0.040	0.093	mg/kg	06/08/14	07/01/14
4097781018	SL BASS 8	Squaw Lake	Cobalt	<0.0052	0.0052	0.093	mg/kg	06/08/14	07/01/14
4097781018	SL BASS 8	Squaw Lake	Copper	0.31	0.027	0.093	mg/kg	06/08/14	07/01/14
4097781018	SL BASS 8	Squaw Lake	Iron	2.4	0.73	23.4	mg/kg	06/08/14	07/01/14
4097781018	SL BASS 8	Squaw Lake	Lead	<0.010	0.010	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Manganese	1.5	0.041	0.47	mg/kg	06/08/14	07/01/14
4097781018	SL BASS 8	Squaw Lake	Mercury	0.11	0.0072	0.019	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Molybdenum	<0.0098	0.0098	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Nickel	0.024	0.012	0.093	mg/kg	06/08/14	07/01/14
4097781018	SL BASS 8	Squaw Lake	Selenium	0.17	0.070	0.19	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Silver	<0.0017	0.0017	0.047	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Strontium	3.2	0.021	0.093	mg/kg	06/08/14	06/27/14
4097781018	SL BASS 8	Squaw Lake	Zinc	15.7	0.75	1.9	mg/kg	06/08/14	07/01/14
4097781019	SL BASS 9	Squaw Lake	Aluminum	1.2	0.77	24.5	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Antimony	<0.011	0.011	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Arsenic	0.015	0.013	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Barium	0.18	0.016	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Beryllium	<0.015	0.015	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Boron	<0.24	0.24	2.0	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Cadmium	<0.0077	0.0077	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Chromium	<0.042	0.042	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Cobalt	<0.0054	0.0054	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Copper	0.35	0.028	0.098	mg/kg	06/08/14	07/01/14
4097781019	SL BASS 9	Squaw Lake	Iron	2.4	0.77	24.5	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Lead	<0.011	0.011	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Manganese	0.55	0.044	0.49	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Mercury	0.13	0.0075	0.020	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Molybdenum	<0.010	0.010	0.098	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-4 (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Fillets - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL *	EQL **	Units ***	Collection Date	Analysis Date
4097781019	SL BASS 9	Squaw Lake	Nickel	0.022	0.013	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Selenium	0.12	0.074	0.20	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Silver	<0.0018	0.0018	0.049	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Strontium	1.2	0.022	0.098	mg/kg	06/08/14	06/27/14
4097781019	SL BASS 9	Squaw Lake	Zinc	11.7	0.79	2.0	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Aluminum	1.3	0.74	23.8	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Antimony	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Arsenic	0.050	0.013	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Barium	0.37	0.016	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Beryllium	<0.015	0.015	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Boron	<0.23	0.23	1.9	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Cadmium	<0.0074	0.0074	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Chromium	0.042	0.041	0.095	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Cobalt	<0.0053	0.0053	0.095	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Copper	0.34	0.027	0.095	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Iron	2.7	0.75	23.8	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Lead	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Manganese	2.3	0.042	0.48	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Mercury	0.26	0.0073	0.019	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Molybdenum	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Nickel	0.035	0.013	0.095	mg/kg	06/08/14	07/01/14
4097781020	SL BASS 10	Squaw Lake	Selenium	0.14	0.072	0.19	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Silver	<0.0018	0.0018	0.048	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Strontium	3.7	0.021	0.095	mg/kg	06/08/14	06/27/14
4097781020	SL BASS 10	Squaw Lake	Zinc	15.1	0.76	1.9	mg/kg	06/08/14	07/01/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-5. Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Livers - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797011	LL BASS 1	Lake Lory	Cadmium	0.16	0.0068	0.087	mg/kg	06/08/14	06/28/14
4097797011	LL BASS 1	Lake Lory	Copper	2.0	0.025	0.087	mg/kg	06/08/14	06/30/14
4097797011	LL BASS 1	Lake Lory	Lead	<0.0096	0.0096	0.087	mg/kg	06/08/14	06/28/14
4097797011	LL BASS 1	Lake Lory	Nickel	0.043	0.012	0.087	mg/kg	06/08/14	06/28/14
4097797011	LL BASS 1	Lake Lory	Silver	0.0023	0.0016	0.044	mg/kg	06/08/14	06/28/14
4097797011	LL BASS 1	Lake Lory	Zinc	25.2	0.70	1.7	mg/kg	06/08/14	06/28/14
4097797012	LL BASS 2	Lake Lory	Cadmium	0.12	0.0068	0.087	mg/kg	06/08/14	06/28/14
4097797012	LL BASS 2	Lake Lory	Copper	5.2	0.025	0.087	mg/kg	06/08/14	06/30/14
4097797012	LL BASS 2	Lake Lory	Lead	<0.0095	0.0095	0.087	mg/kg	06/08/14	06/28/14
4097797012	LL BASS 2	Lake Lory	Nickel	0.070	0.012	0.087	mg/kg	06/08/14	06/28/14
4097797012	LL BASS 2	Lake Lory	Silver	0.051	0.0016	0.044	mg/kg	06/08/14	06/28/14
4097797012	LL BASS 2	Lake Lory	Zinc	28.2	0.70	1.7	mg/kg	06/08/14	06/28/14
4097797013	LL BASS 3	Lake Lory	Cadmium	0.11	0.0070	0.089	mg/kg	06/08/14	06/28/14
4097797013	LL BASS 3	Lake Lory	Copper	4.8	0.026	0.089	mg/kg	06/08/14	07/01/14
4097797013	LL BASS 3	Lake Lory	Lead	0.012	0.0098	0.089	mg/kg	06/08/14	06/28/14
4097797013	LL BASS 3	Lake Lory	Nickel	0.060	0.012	0.089	mg/kg	06/08/14	06/28/14
4097797013	LL BASS 3	Lake Lory	Silver	0.022	0.0017	0.045	mg/kg	06/08/14	06/28/14
4097797013	LL BASS 3	Lake Lory	Zinc	25.3	0.71	1.8	mg/kg	06/08/14	06/28/14
4097797014	LL BASS 4	Lake Lory	Cadmium	0.19	0.0072	0.092	mg/kg	06/08/14	06/28/14
4097797014	LL BASS 4	Lake Lory	Copper	2.6	0.026	0.092	mg/kg	06/08/14	07/01/14
4097797014	LL BASS 4	Lake Lory	Lead	<0.010	0.010	0.092	mg/kg	06/08/14	06/28/14
4097797014	LL BASS 4	Lake Lory	Nickel	0.055	0.012	0.092	mg/kg	06/08/14	06/28/14
4097797014	LL BASS 4	Lake Lory	Silver	0.0094	0.0017	0.046	mg/kg	06/08/14	06/28/14
4097797014	LL BASS 4	Lake Lory	Zinc	27.7	0.74	1.8	mg/kg	06/08/14	06/28/14
4097797015	LL BASS 5	Lake Lory	Cadmium	0.40	0.0074	0.094	mg/kg	06/08/14	06/28/14
4097797015	LL BASS 5	Lake Lory	Copper	14.3	0.027	0.094	mg/kg	06/08/14	07/01/14
4097797015	LL BASS 5	Lake Lory	Lead	0.025	0.010	0.094	mg/kg	06/08/14	06/28/14
4097797015	LL BASS 5	Lake Lory	Nickel	0.12	0.013	0.094	mg/kg	06/08/14	06/28/14
4097797015	LL BASS 5	Lake Lory	Silver	0.18	0.0018	0.047	mg/kg	06/08/14	06/28/14
4097797015	LL BASS 5	Lake Lory	Zinc	30.8	0.76	1.9	mg/kg	06/08/14	06/28/14
4097797016	LL BASS 6	Lake Lory	Cadmium	0.11	0.0074	0.095	mg/kg	06/07/14	06/28/14
4097797016	LL BASS 6	Lake Lory	Copper	3.9	0.027	0.095	mg/kg	06/07/14	07/01/14
4097797016	LL BASS 6	Lake Lory	Lead	<0.010	0.010	0.095	mg/kg	06/07/14	06/28/14
4097797016	LL BASS 6	Lake Lory	Nickel	0.068	0.013	0.095	mg/kg	06/07/14	06/28/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-5. (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Livers - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097797016	LL BASS 6	Lake Lory	Silver	0.0083	0.0018	0.048	mg/kg	06/07/14	06/28/14
4097797016	LL BASS 6	Lake Lory	Zinc	28.8	0.76	1.9	mg/kg	06/07/14	06/28/14
4097797017	LL BASS 7	Lake Lory	Cadmium	0.082	0.0075	0.096	mg/kg	06/08/14	06/28/14
4097797017	LL BASS 7	Lake Lory	Copper	4.5	0.028	0.096	mg/kg	06/08/14	07/01/14
4097797017	LL BASS 7	Lake Lory	Lead	<0.010	0.010	0.096	mg/kg	06/08/14	06/28/14
4097797017	LL BASS 7	Lake Lory	Nickel	0.052	0.013	0.096	mg/kg	06/08/14	06/28/14
4097797017	LL BASS 7	Lake Lory	Silver	0.037	0.0018	0.048	mg/kg	06/08/14	06/28/14
4097797017	LL BASS 7	Lake Lory	Zinc	28.6	0.77	1.9	mg/kg	06/08/14	06/28/14
4097797018	LL BASS 8	Lake Lory	Cadmium	0.023	0.0077	0.099	mg/kg	06/08/14	06/28/14
4097797018	LL BASS 8	Lake Lory	Copper	1.6	0.028	0.099	mg/kg	06/08/14	07/01/14
4097797018	LL BASS 8	Lake Lory	Lead	<0.011	0.011	0.099	mg/kg	06/08/14	06/28/14
4097797018	LL BASS 8	Lake Lory	Nickel	0.034	0.013	0.099	mg/kg	06/08/14	06/28/14
4097797018	LL BASS 8	Lake Lory	Silver	<0.0018	0.0018	0.049	mg/kg	06/08/14	06/28/14
4097797018	LL BASS 8	Lake Lory	Zinc	22.2	0.79	2.0	mg/kg	06/08/14	06/28/14
4097797019	LL BASS 9	Lake Lory	Cadmium	0.12	0.0074	0.095	mg/kg	06/08/14	06/28/14
4097797019	LL BASS 9	Lake Lory	Copper	5.4	0.027	0.095	mg/kg	06/08/14	07/01/14
4097797019	LL BASS 9	Lake Lory	Lead	0.013	0.010	0.095	mg/kg	06/08/14	06/28/14
4097797019	LL BASS 9	Lake Lory	Nickel	0.076	0.013	0.095	mg/kg	06/08/14	06/28/14
4097797019	LL BASS 9	Lake Lory	Silver	0.065	0.0018	0.048	mg/kg	06/08/14	06/28/14
4097797019	LL BASS 9	Lake Lory	Zinc	27.4	0.76	1.9	mg/kg	06/08/14	06/28/14
4097797020	LL BASS 10	Lake Lory	Cadmium	0.053	0.0072	0.093	mg/kg	06/08/14	06/28/14
4097797020	LL BASS 10	Lake Lory	Copper	3.8	0.027	0.093	mg/kg	06/08/14	07/01/14
4097797020	LL BASS 10	Lake Lory	Lead	0.030	0.010	0.093	mg/kg	06/08/14	06/28/14
4097797020	LL BASS 10	Lake Lory	Nickel	0.076	0.012	0.093	mg/kg	06/08/14	06/28/14
4097797020	LL BASS 10	Lake Lory	Silver	0.028	0.0017	0.046	mg/kg	06/08/14	06/28/14
4097797020	LL BASS 10	Lake Lory	Zinc	27.9	0.74	1.9	mg/kg	06/08/14	06/28/14
4097781001	SL BASS 1	Squaw Lake	Cadmium	0.070	0.0071	0.091	mg/kg	06/08/14	06/27/14
4097781001	SL BASS 1	Squaw Lake	Copper	1.9	0.026	0.091	mg/kg	06/08/14	07/01/14
4097781001	SL BASS 1	Squaw Lake	Lead	0.016	0.0099	0.091	mg/kg	06/08/14	06/27/14
4097781001	SL BASS 1	Squaw Lake	Nickel	0.036	0.012	0.091	mg/kg	06/08/14	06/27/14
4097781001	SL BASS 1	Squaw Lake	Silver	0.0056	0.0017	0.045	mg/kg	06/08/14	06/27/14
4097781001	SL BASS 1	Squaw Lake	Zinc	27.6	0.73	1.8	mg/kg	06/08/14	06/27/14
4097781002	SL BASS 2	Squaw Lake	Cadmium	0.071	0.0074	0.095	mg/kg	06/08/14	06/27/14
4097781002	SL BASS 2	Squaw Lake	Copper	3.0	0.027	0.095	mg/kg	06/08/14	07/01/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-5. (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Livers - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781002	SL BASS 2	Squaw Lake	Lead	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781002	SL BASS 2	Squaw Lake	Nickel	0.026	0.013	0.095	mg/kg	06/08/14	06/27/14
4097781002	SL BASS 2	Squaw Lake	Silver	0.0031	0.0018	0.048	mg/kg	06/08/14	06/27/14
4097781002	SL BASS 2	Squaw Lake	Zinc	26.1	0.76	1.9	mg/kg	06/08/14	06/27/14
4097781003	SL BASS 3	Squaw Lake	Cadmium	0.046	0.0066	0.084	mg/kg	06/08/14	06/27/14
4097781003	SL BASS 3	Squaw Lake	Copper	2.7	0.024	0.084	mg/kg	06/08/14	07/01/14
4097781003	SL BASS 3	Squaw Lake	Lead	0.010	0.0092	0.084	mg/kg	06/08/14	06/27/14
4097781003	SL BASS 3	Squaw Lake	Nickel	0.023	0.011	0.084	mg/kg	06/08/14	06/27/14
4097781003	SL BASS 3	Squaw Lake	Silver	0.0018	0.0016	0.042	mg/kg	06/08/14	06/27/14
4097781003	SL BASS 3	Squaw Lake	Zinc	25.6	0.67	1.7	mg/kg	06/08/14	06/27/14
4097781004	SL BASS 4	Squaw Lake	Cadmium	0.086	0.0070	0.090	mg/kg	06/08/14	06/27/14
4097781004	SL BASS 4	Squaw Lake	Copper	2.1	0.026	0.090	mg/kg	06/08/14	07/01/14
4097781004	SL BASS 4	Squaw Lake	Lead	<0.0099	0.0099	0.090	mg/kg	06/08/14	06/27/14
4097781004	SL BASS 4	Squaw Lake	Nickel	0.019	0.012	0.090	mg/kg	06/08/14	06/27/14
4097781004	SL BASS 4	Squaw Lake	Silver	<0.0017	0.0017	0.045	mg/kg	06/08/14	06/27/14
4097781004	SL BASS 4	Squaw Lake	Zinc	26.3	0.72	1.8	mg/kg	06/08/14	06/27/14
4097781005	SL BASS 5	Squaw Lake	Cadmium	0.070	0.0074	0.095	mg/kg	06/08/14	06/27/14
4097781005	SL BASS 5	Squaw Lake	Copper	2.5	0.027	0.095	mg/kg	06/08/14	07/01/14
4097781005	SL BASS 5	Squaw Lake	Lead	0.019	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781005	SL BASS 5	Squaw Lake	Nickel	0.031	0.013	0.095	mg/kg	06/08/14	06/27/14
4097781005	SL BASS 5	Squaw Lake	Silver	<0.0018	0.0018	0.047	mg/kg	06/08/14	06/27/14
4097781005	SL BASS 5	Squaw Lake	Zinc	22.7	0.76	1.9	mg/kg	06/08/14	06/27/14
4097781006	SL BASS 6	Squaw Lake	Cadmium	0.059	0.0072	0.092	mg/kg	06/08/14	06/27/14
4097781006	SL BASS 6	Squaw Lake	Copper	2.2	0.026	0.092	mg/kg	06/08/14	07/01/14
4097781006	SL BASS 6	Squaw Lake	Lead	0.015	0.010	0.092	mg/kg	06/08/14	06/27/14
4097781006	SL BASS 6	Squaw Lake	Nickel	0.029	0.012	0.092	mg/kg	06/08/14	06/27/14
4097781006	SL BASS 6	Squaw Lake	Silver	<0.0017	0.0017	0.046	mg/kg	06/08/14	06/27/14
4097781006	SL BASS 6	Squaw Lake	Zinc	26.5	0.73	1.8	mg/kg	06/08/14	06/27/14
4097781007	SL BASS 7	Squaw Lake	Cadmium	0.31	0.0074	0.095	mg/kg	06/08/14	06/27/14
4097781007	SL BASS 7	Squaw Lake	Copper	2.0	0.027	0.095	mg/kg	06/08/14	07/01/14
4097781007	SL BASS 7	Squaw Lake	Lead	<0.010	0.010	0.095	mg/kg	06/08/14	06/27/14
4097781007	SL BASS 7	Squaw Lake	Nickel	0.022	0.013	0.095	mg/kg	06/08/14	06/27/14
4097781007	SL BASS 7	Squaw Lake	Silver	<0.0018	0.0018	0.047	mg/kg	06/08/14	06/27/14
4097781007	SL BASS 7	Squaw Lake	Zinc	23.7	0.76	1.9	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**Table 4-5. (continued). Metals Contents of Smallmouth Bass (*Micropterus dolomieu*) Livers - 2014 Laboratory Data.**

Lab Sample Number	Field ID	Lake	Parameter	Result	MDL*	EQL**	Units***	Collection Date	Analysis Date
4097781008	SL BASS 8	Squaw Lake	Copper	1.7	0.027	0.094	mg/kg	06/08/14	07/01/14
4097781008	SL BASS 8	Squaw Lake	Lead	<0.010	0.010	0.094	mg/kg	06/08/14	06/27/14
4097781008	SL BASS 8	Squaw Lake	Nickel	0.024	0.012	0.094	mg/kg	06/08/14	06/27/14
4097781008	SL BASS 8	Squaw Lake	Silver	<0.0017	0.0017	0.047	mg/kg	06/08/14	06/27/14
4097781008	SL BASS 8	Squaw Lake	Zinc	26.6	0.75	1.9	mg/kg	06/08/14	06/27/14
4097781009	SL BASS 9	Squaw Lake	Cadmium	0.047	0.0069	0.089	mg/kg	06/08/14	06/27/14
4097781009	SL BASS 9	Squaw Lake	Copper	1.9	0.026	0.089	mg/kg	06/08/14	07/01/14
4097781009	SL BASS 9	Squaw Lake	Lead	<0.0097	0.0097	0.089	mg/kg	06/08/14	06/27/14
4097781009	SL BASS 9	Squaw Lake	Nickel	0.021	0.012	0.089	mg/kg	06/08/14	06/27/14
4097781009	SL BASS 9	Squaw Lake	Silver	<0.0017	0.0017	0.044	mg/kg	06/08/14	06/27/14
4097781009	SL BASS 9	Squaw Lake	Zinc	28.3	0.71	1.8	mg/kg	06/08/14	06/27/14
4097781010	SL BASS 10	Squaw Lake	Cadmium	0.050	0.0077	0.099	mg/kg	06/08/14	06/27/14
4097781010	SL BASS 10	Squaw Lake	Copper	2.4	0.028	0.099	mg/kg	06/08/14	07/01/14
4097781010	SL BASS 10	Squaw Lake	Lead	<0.011	0.011	0.099	mg/kg	06/08/14	06/27/14
4097781010	SL BASS 10	Squaw Lake	Nickel	0.036	0.013	0.099	mg/kg	06/08/14	06/27/14
4097781010	SL BASS 10	Squaw Lake	Silver	<0.0018	0.0018	0.049	mg/kg	06/08/14	06/27/14
4097781010	SL BASS 10	Squaw Lake	Zinc	28.1	0.79	2.0	mg/kg	06/08/14	06/27/14

\*MDL = Minimum detection limit

\*\*EQL = Estimated quantification limit

\*\*\*mg/kg = Milligrams per kilogram

**EXHIBIT C**

**PHOTOGRAPHS OF SMALLMOUTH BASS (*Micropterus dolomieu*) COLLECTED FOR METALS ANALYSES**



Photograph C-1. Smallmouth bass (*Micropterus dolomieu*) # 1 collected from Lake Lory, June, 2014. Note: bass is incorrectly labeled as LMB.



Photograph C-2. Smallmouth bass (*Micropterus dolomieu*) # 2 collected from Lake Lory, June, 2014. Note: bass is incorrectly labeled as LMB.



Photograph C-3. Smallmouth bass (*Micropterus dolomieu*) # 3 collected from Lake Lory, June, 2014. Note: bass is incorrectly labeled as LMB.



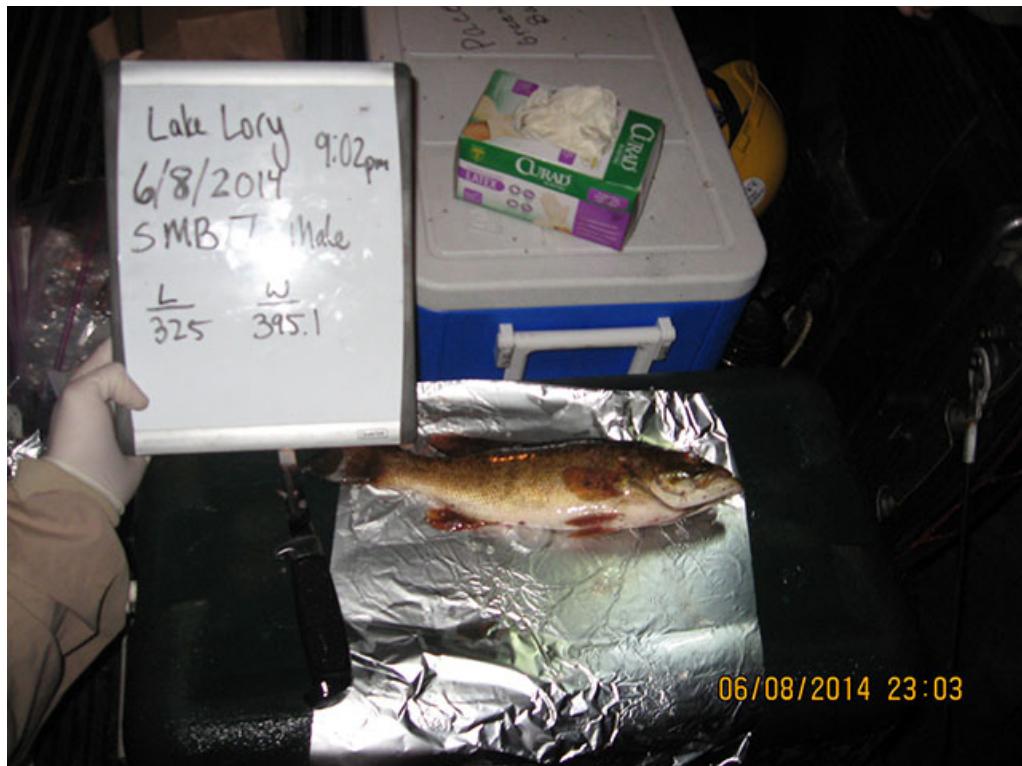
Photograph C-4. Smallmouth bass (*Micropterus dolomieu*) # 4 collected from Lake Lory, June, 2014. Note: bass is incorrectly labeled as LMB.



Photograph C-5. Smallmouth bass (*Micropterus dolomieu*) # 5 collected from Lake Lory, June, 2014.



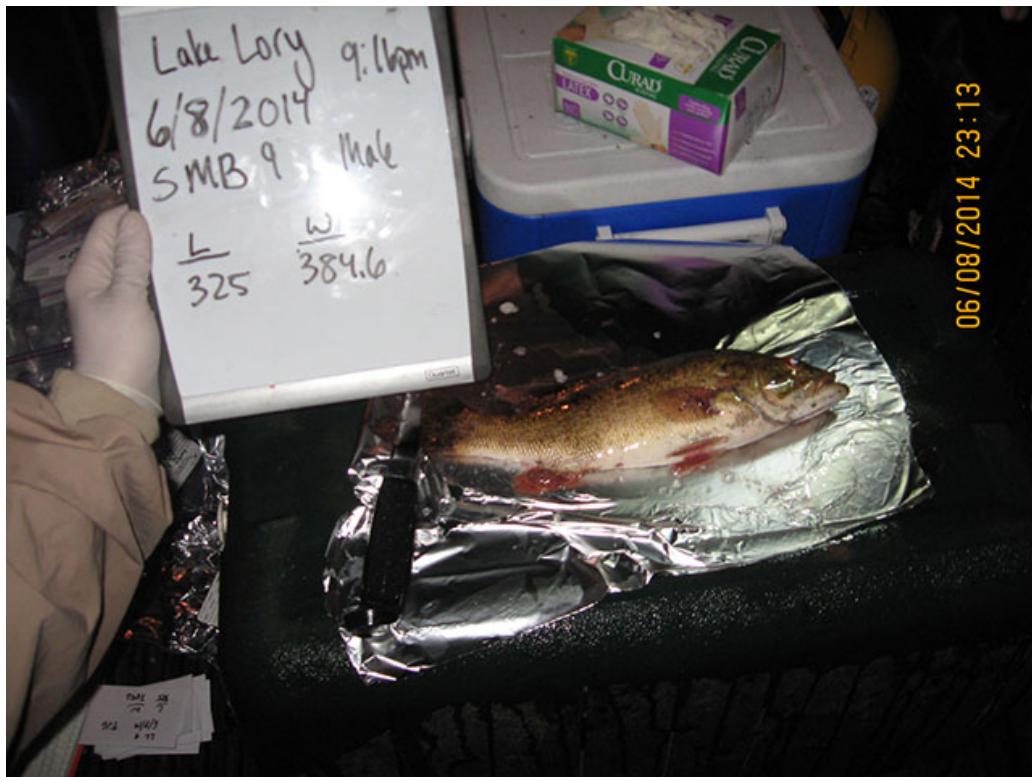
Photograph C-6. Smallmouth bass (*Micropterus dolomieu*) # 6 collected from Lake Lory, June, 2014.



Photograph C-7. Smallmouth bass (*Micropterus dolomieu*) # 7 collected from Lake Lory, June, 2014.



Photograph C-8. Smallmouth bass (*Micropterus dolomieu*) # 8 collected from Lake Lory, June, 2014.



Photograph C-9. Smallmouth bass (*Micropterus dolomieu*) # 9 collected from Lake Lory, June, 2014.



Photograph C-10. Smallmouth bass (*Micropterus dolomieu*) # 10 collected from Lake Lory, June, 2014.



Photograph C-11. Smallmouth bass (*Micropterus dolomieu*) # 1 collected from Squaw Lake June, 2014.



Photograph C-12. Smallmouth bass (*Micropterus dolomieu*) # 2 collected from Squaw Lake June, 2014.



Photograph C-13. Smallmouth bass (*Micropterus dolomieu*) # 3 collected from Squaw Lake June, 2014.



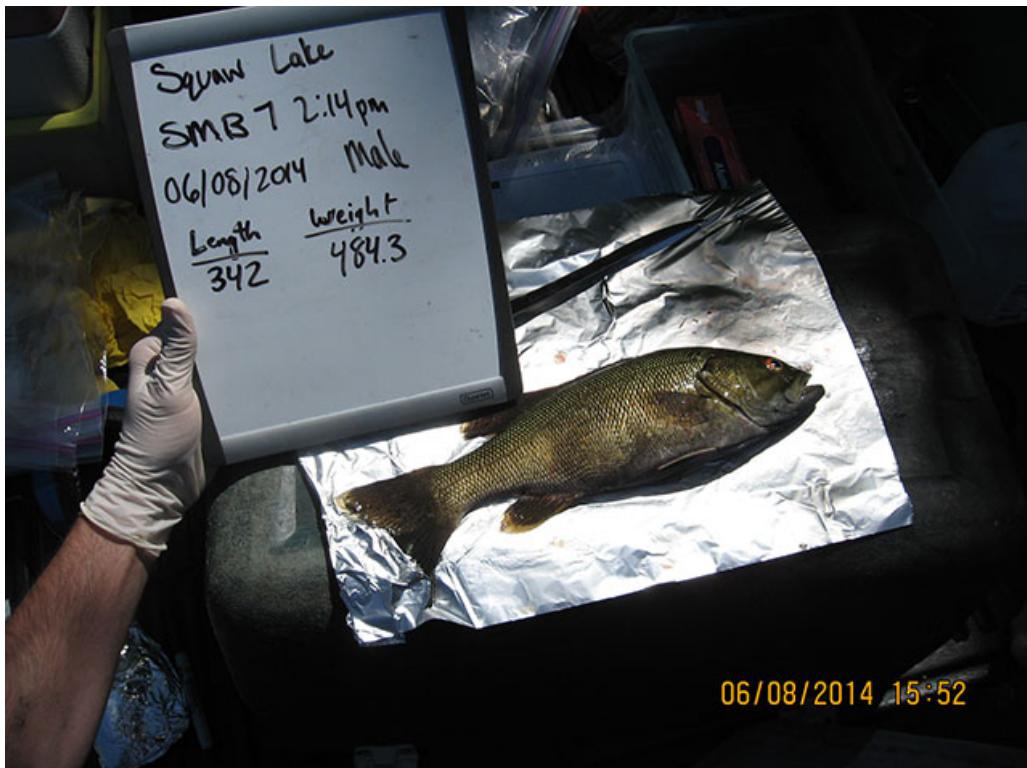
Photograph C-14. Smallmouth bass (*Micropterus dolomieu*) # 4 collected from Squaw Lake June, 2014.



Photograph C-15. Smallmouth bass (*Micropterus dolomieu*) # 5 collected from Squaw Lake June, 2014.



Photograph C-16. Smallmouth bass (*Micropterus dolomieu*) # 6 collected from Squaw Lake June, 2014.



Photograph C-17. Smallmouth bass (*Micropterus dolomieu*) # 7 collected from Squaw Lake June, 2014.



Photograph C-18. Smallmouth bass (*Micropterus dolomieu*) # 8 collected from Squaw Lake June, 2014.



Photograph C-19. Smallmouth bass (*Micropterus dolomieu*) # 9 collected from Squaw Lake June, 2014.



Photograph C-20. Smallmouth bass (*Micropterus dolomieu*) # 10 collected from Squaw Lake June, 2014.

**EXHIBIT D**  
**CHAIN OF CUSTODY FORMS**

(Please Print Clearly)

Company Name: ADVANCED ENVIRONMENTAL  
Branch/Location: RED CITY

Project Contact: DOUG WORKMAN  
Phone: 231 512 0506  
Project Number:

Project Name: LINDEN HUMBERT  
Project State: MI  
Sampled By (Print): DOUG WORKMAN  
Sampled By (Sign): DOUG WORKMAN  
PO#:

**CHAIN OF CUSTODY**

Data Package Options		MS/MSD	Matrix Codes
<input type="checkbox"/> (billable) EPA Level III	<input type="checkbox"/> On your sample	A = Air	W = Water
<input type="checkbox"/> (billable) EPA Level IV	<input type="checkbox"/> NOT needed on your sample	B = Biota	DW = Drinking Water
		C = Charcoal	GW = Ground Water
		S = Soil	SW = Surface Water
		SI = Sludge	WW = Waste Water
		WP = Wipe	

Quote #:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Sampled By (Print):	Sampled By (Sign):
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Sampled By (Print):	Sampled By (Sign):
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Contact:	Mail To Contact:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Project Contact:	Mail To Contact:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Project Contact:	Mail To Contact:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Sampled By (Print):	Sampled By (Sign):
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Sampled By (Print):	Sampled By (Sign):
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Sampled By (Print):	Sampled By (Sign):
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PO#:	Regulatory Program:
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Project Contact:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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PRESERVATION (CODE)*	PICK LETTER
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Analyses Requested	MATRIX
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DATE	TIME
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CLIENT FIELD ID	COLLECTION
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PACE LAB #	MS/MSD
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DATA PACKAGE OPTIONS	MS/MSD
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Project Name:	Project State:
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Sampled By (Print):	Sampled By (Sign):
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Project Contact:	Mail To Contact:
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Mail To Address:	Invoice To Phone:
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Invoice To Company:	Invoice To Address:
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Comments	LAB COMMENTS (Lab Use Only)	Profile #
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PICK LETTER	CODE*
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FILTERED? (YES/NO)	Y/N
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(Please Print Clearly)

Company Name: ADVANCED EVIDENCE MANAGEMENT

Branch/Location:

Dave WORKMAN

Project Contact:

231 812 DSCL

Phone:

Project Name:

Lvnsd Hmbsdt

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample  
 (billable) EPA Level III  
 NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Number:

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl

C=H<sub>2</sub>SO<sub>4</sub>

D=HNO<sub>3</sub>

E=DI Water

F=Methanol

G=NaOH

H=Sodium Bisulfate Solution

I=Sodium Thiosulfate

J=Other

Project Name:

Project State:

Sampled By (Print):

Dave W

Sampled By (Sign):

Dave W

PO #:

Regulatory

Program:

Data Package Options

(billable) On your sample

(billable) EPA Level III

NOT needed on your sample

MS/MSD

Matrix Codes

FILTERED? (YES/NO)

PICK LETTER

PRESERVATION (CODE)\*

Y/N

Ad Best Use Log

to lab per log

Preservation Codes

A=None

B=HCl