APPENDIX IX.11

FISH BASELINE DATA

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Table IX.11-1 Fish Species Named in Report or Observed In Study Lakes

Scientific Name	Common Name	Code
Thymallus arcticus	Arctic grayling	ARGR
Culaea inconstans	Brook stickleback	BRST
Lota lota	Burbot	BURB
Couesius plumbus	Lake chub	LKCH
Salvelinus namaycush	Lake trout	LKTR
Catostomus catostomus	Longnose sucker	LNSC
Prosopium cylindraceum	Round whitefish	RNWH
Cottus cognatus	Slimy sculpin	SLSC

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
NL2	Gill Net	Longnose sucker	U	361	690	released - ok
NL2	Gill Net	Longnose sucker	U	401	830	released - ok
NL2	Gill Net	Longnose sucker	U	424	950	released - ok
NL2	Gill Net	Longnose sucker	U	400	680	released - ok
NL2	Gill Net	Longnose sucker	U	391	870	released - ok
NL2	Gill Net	Longnose sucker	U			escaped
NL2	Gill Net	Longnose sucker	U			escaped
NL2	Gill Net	Longnose sucker	U	403	835	released - ok
NL2	Gill Net	Longnose sucker	U	378	750	released - ok
NL2	Gill Net	Longnose sucker	U	385	780	released - ok
NL3	Gill Net	Longnose sucker	U	378	690	released - ok
NL3	Gill Net	Longnose sucker	U	365	600	released - ok
NL3	Gill Net	Longnose sucker	U			escaped
Reference Lake	Angling - general	Lake trout	U	540	2025	released ok
Reference Lake	Angling - general	Lake trout	U	578	3000	released ok
Reference Lake	Angling - general	Lake trout	U	754	4550	released ok
Reference Lake	Angling - general	Lake trout	U			escaped
Reference Lake	Angling - general	Lake trout	U			escaped
Reference Lake	Angling - general	Lake trout	U			escaped
Reference Lake	Angling - general	Lake trout	U	545	1575	released ok
Reference Lake	Angling - general	Lake trout	U	596	2540	released ok
Reference Lake	Angling - general	Lake trout	U			escaped
Reference Lake	Angling - general	Lake trout	U	561	2150	released ok
Reference Lake	Angling - general	Lake trout	U	534	1450	released ok - left sponge under scale - weight not valid
Reference Lake	Angling - general	Lake trout	U	838	6300	released ok - appeared to have scar on left flank, healed
Reference Lake	Gill Net	Lake trout	F	361	550	mortality
Reference Lake	Gill Net	Lake trout	F	787	5200	mortality
Reference Lake	Gill Net	Lake trout	F	340	300	mortality
Reference Lake	Gill Net	Lake trout	F	584	2100	mortality
Reference Lake	Gill Net	Lake trout	F	550	1925	mortality - fin already clipped
Reference Lake	Gill Net	Lake trout	F	589	1750	sacrificed
Reference Lake	Gill Net	Lake trout	M	575	2125	mortality
Reference Lake	Gill Net	Lake trout	M	570	1900	mortality
Reference Lake	Gill Net	Lake trout	M	669	3400	mortality
Reference Lake	Gill Net	Lake trout	M	580	2450	mortality
Reference Lake	Gill Net	Lake trout	M	369	520	mortality
Reference Lake	Gill Net	Lake trout	M	374	550	mortality
Reference Lake	Gill Net	Lake trout	U	650	1875	released ok
Reference Lake	Gill Net	Lake trout	U	580	2375	released ok
Reference Lake	Gill Net	Lake trout	U			escaped
Reference Lake	Gill Net	Lake trout	U			escaped
Reference Lake	Gill Net	Lake trout	U	456	1050	released ok
Reference Lake	Gill Net	Lake trout	U	637	2350	released ok
Reference Lake	Gill Net	Lake trout	U	520	1375	released ok
Reference Lake	Gill Net	Lake trout	U	599	2700	released ok
Reference Lake	Gill Net	Lake trout	U	520	1450	released ok
Reference Lake	Gill Net	Lake trout	U	562	2150	released ok
Reference Lake	Gill Net	Lake trout	U	332	300	released ok
Reference Lake	Gill Net	Lake trout	U	310	250	released ok
Reference Lake	Gill Net	Lake trout	U	592	2750	released ok
Reference Lake	Gill Net	Lake trout	U	196	100	released ok

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
Reference Lake	Gill Net	Lake trout	U	605	2510	released ok
Reference Lake	Gill Net	Longnose sucker	U	440	1495	released ok
Reference Lake	Gill Net	Longnose sucker	U	432	1425	released ok
Reference Lake	Gill Net	Longnose sucker	U	416	1100	released ok
Reference Lake	Gill Net	Longnose sucker	U	402	1050	released ok
Reference Lake	Gill Net	Longnose sucker	U	445	1475	released ok
Reference Lake	Gill Net	Longnose sucker	U	452	1500	released ok
Reference Lake	Gill Net	Longnose sucker	U	410	1100	released ok
Reference Lake	Gill Net	Longnose sucker	U	372	775	
Reference Lake	Gill Net	Longnose sucker	U	470	1700	
Reference Lake	Gill Net	Longnose sucker	U			escaped
Reference Lake	Gill Net	Longnose sucker	U	424	1000	released ok
Reference Lake	Gill Net	Longnose sucker	U			escaped
Reference Lake	Gill Net	Longnose sucker	U			escaped
Reference Lake	Gill Net	Longnose sucker	U			escaped
Reference Lake	Gill Net	Longnose sucker	U	453	1150	released ok
Reference Lake	Gill Net	Longnose sucker	U	410	925	released ok
Reference Lake	Gill Net	Longnose sucker	U	400	850	released ok
Reference Lake	Gill Net	Longnose sucker	U	462	1675	released ok
Reference Lake	Gill Net	Longnose sucker	U	474	1650	released ok
Reference Lake	Gill Net	Round whitefish	F	289	175	mortality
Reference Lake	Gill Net	Round whitefish	F	276	125	mortality
Reference Lake	Gill Net	Round whitefish	F	278	125	mortality
Reference Lake	Gill Net	Round whitefish	F	305	280	mortality
Reference Lake	Gill Net	Round whitefish	F	274	205	mortality
Reference Lake	Gill Net	Round whitefish	F	263	190	mortality
Reference Lake	Gill Net	Round whitefish	F	202	90	mortality
Reference Lake	Gill Net	Round whitefish	F	274	230	mortality
Reference Lake	Gill Net	Round whitefish	F	298	290	mortality
Reference Lake	Gill Net	Round whitefish	M	315	200	mortality
Reference Lake	Gill Net	Round whitefish	M	252	160	mortality - not biomarked
Reference Lake	Gill Net	Round whitefish	M	269	200	mortality
Reference Lake	Gill Net	Round whitefish	M	272	210	mortality
Reference Lake	Gill Net	Round whitefish	M	262	190	mortality
Reference Lake	Gill Net	Round whitefish	M	281	255	mortality
Reference Lake	Gill Net	Round whitefish	M	262	190	mortality
Reference Lake	Gill Net	Round whitefish	M	244	155	mortality - not required for biomarking
Reference Lake	Gill Net	Round whitefish	M	259	180	mortality
Reference Lake	Gill Net	Round whitefish	M	258	165	mortality - 2 fish labeled as 152 in field notebook - no aging structures for 152
Reference Lake	Gill Net	Round whitefish	M	199	80	mortality - not required for biomarking
Reference Lake	Gill Net	Round whitefish	M	269	200	mortality - not required for biomarking
Reference Lake	Gill Net	Round whitefish	M	309	300	mortality - not required for biomarking
Reference Lake	Gill Net	Round whitefish	M	254	160	mortality - not required for biomarking
Reference Lake	Gill Net	Round whitefish	M	230	140	mortality - not required for biomarking
Snap Lake	Angling - general	Arctic grayling	U	249	210	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	231	160	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	228	150	external exam ok

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
Snap Lake	Angling - general	Arctic grayling	U	280	260	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	317	400	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	248	210	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	230	170	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	305	380	external exam ok
Snap Lake	Angling - general	Arctic grayling	U	255	200	released ok
Snap Lake	Angling - general	Arctic grayling	U	237	170	released ok
Snap Lake	Angling - general	Lake trout	F	428	700	released ok
Snap Lake	Angling - general	Lake trout	F	651	3950	released ok
Snap Lake	Angling - general	Lake trout	F	530	2250	mortality
Snap Lake	Angling - general	Lake trout	F	415	850	released ok
Snap Lake	Angling - general	Lake trout	F	714	5400	released ok
Snap Lake	Angling - general	Lake trout	F	559	2400	released ok
Snap Lake	Angling - general	Lake trout	F	540	1600	released ok
Snap Lake	Angling - general	Lake trout	M	675	3550	external ok
Snap Lake	Angling - general	Lake trout	M	675	3200	mortality
Snap Lake	Angling - general	Lake trout	M	640	2675	
Snap Lake	Angling - general	Lake trout	M	425	750	released ok
Snap Lake	Angling - general	Lake trout	M	575	2500	released ok
Snap Lake	Angling - general	Lake trout	M	557	2400	released ok
Snap Lake	Angling - general	Lake trout	M	427	700	released ok
Snap Lake	Angling - general	Lake trout	M	596	2550	released ok - lost 2 lake trout while angling
Snap Lake	Angling - general	Lake trout	M	728	4500	released ok
Snap Lake	Angling - general	Lake trout	M	730	4825	released ok
Snap Lake	Angling - general	Lake trout	M	633	3350	released ok
Snap Lake	Angling - general	Lake trout	M	653	2950	released ok
Snap Lake	Angling - general	Lake trout	M	429	950	released ok
Snap Lake	Angling - general	Lake trout	M	445	1025	released ok
Snap Lake	Angling - general	Lake trout	M	407	800	released ok
Snap Lake	Angling - general	Lake trout	M	655	3525	released ok
Snap Lake	Angling - general	Lake trout	M	380	550	released ok
Snap Lake	Angling - general	Lake trout	M	685	4500	released ok
Snap Lake	Angling - general	Lake trout	M	630	3000	released ok
Snap Lake	Angling - general	Lake trout	M	423	900	released ok
Snap Lake	Angling - general	Lake trout	M	430	750	released ok
Snap Lake	Angling - general	Lake trout	M	648	3300	released ok
Snap Lake	Angling - general	Lake trout	U	760	4425	external ok - released
Snap Lake	Angling - general	Lake trout	U	530	1590	external exam ok
Snap Lake	Angling - general	Lake trout	U	425	825	released ok
Snap Lake	Angling - general	Lake trout	U	605	2575	mortality
Snap Lake	Angling - general	Lake trout	U	411	650	released ok
Snap Lake	Angling - general	Lake trout	U	368	550	released ok
Snap Lake	Angling - general	Lake trout	U	563	2675	released ok
Snap Lake	Angling - general	Lake trout	U	446	800	released ok
Snap Lake	Angling - general	Lake trout	U	584	2500	released ok
Snap Lake	Gill Net	Lake trout	F	442	1000	
Snap Lake	Gill Net	Lake trout	F	504	1350	
Snap Lake	Gill Net	Lake trout	F	480	1225	
Snap Lake	Gill Net	Lake trout	F	666	2650	
Snap Lake	Gill Net	Lake trout	F	400	1200	mortality
Snap Lake	Gill Net	Lake trout	F	640	3300	released ok
Snap Lake	Gill Net	Lake trout	F	649	3125	released ok
Snap Lake	Gill Net	Lake trout	F	520	1875	mortality
Snap Lake	Gill Net	Lake trout	F	586	2150	mortality
Snap Lake	Gill Net	Lake trout	F	549	2200	mortality

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
Snap Lake	Gill Net	Lake trout	F	693	3700	released ok
Snap Lake	Gill Net	Lake trout	M	410	725	
Snap Lake	Gill Net	Lake trout	M	638	3000	
Snap Lake	Gill Net	Lake trout	M	632	3675	
Snap Lake	Gill Net	Lake trout	M	580	2100	
Snap Lake	Gill Net	Lake trout	M	618	2700	released ok
Snap Lake	Gill Net	Lake trout	M	609	2950	released ok
Snap Lake	Gill Net	Lake trout	M	626	3200	released ok
Snap Lake	Gill Net	Lake trout	M	629	3450	released ok
Snap Lake	Gill Net	Lake trout	M	700	4200	released ok
Snap Lake	Gill Net	Lake trout	M	414	1250	released ok
Snap Lake	Gill Net	Lake trout	M	415	1150	released ok
Snap Lake	Gill Net	Lake trout	M	719	4500	released ok
Snap Lake	Gill Net	Lake trout	M	531	2000	released ok
Snap Lake	Gill Net	Lake trout	M	392	1050	released ok
Snap Lake	Gill Net	Lake trout	M	453	1500	released ok
Snap Lake	Gill Net	Lake trout	M	455	1550	released ok
Snap Lake	Gill Net	Lake trout	M	635	3300	released ok
Snap Lake	Gill Net	Lake trout	M	622	3100	released ok
Snap Lake	Gill Net	Lake trout	M	372	500	mortality
Snap Lake	Gill Net	Lake trout	M	735	3700	released ok
Snap Lake	Gill Net	Lake trout	M	710	4200	released ok
Snap Lake	Gill Net	Lake trout	M	640	3000	released ok
Snap Lake	Gill Net	Lake trout	M	650	2900	released ok
Snap Lake	Gill Net	Lake trout	M	658	3200	released ok
Snap Lake	Gill Net	Lake trout	M	621	2750	released ok
Snap Lake	Gill Net	Lake trout	M	790	5225	released ok
Snap Lake	Gill Net	Lake trout	M	561	1800	released ok
Snap Lake	Gill Net	Lake trout	M	682	4550	released ok
Snap Lake	Gill Net	Lake trout	M	725	3520	mortality
Snap Lake	Gill Net	Lake trout	M	571	2225	mortality
Snap Lake	Gill Net	Lake trout	M	595	2625	mortality
Snap Lake	Gill Net	Lake trout	M	525	2050	released ok
Snap Lake	Gill Net	Lake trout	M	710	4650	mortality
Snap Lake	Gill Net	Lake trout	U	684	4250	head slightly disproportionate (big) to body.
Snap Lake	Gill Net	Lake trout	U	289	270	
Snap Lake	Gill Net	Lake trout	U	290	290	
Snap Lake	Gill Net	Lake trout	U	272	225	diphyllo parasite on external - empty stomach
Snap Lake	Gill Net	Lake trout	U	555	1850	external ok
Snap Lake	Gill Net	Lake trout	U	675	3550	external exam ok
Snap Lake	Gill Net	Lake trout	U	760	4425	external exam ok
Snap Lake	Gill Net	Lake trout	U	396	475	external exam ok
Snap Lake	Gill Net	Lake trout	U	620	2575	external exam ok
Snap Lake	Gill Net	Lake trout	U	453	800	external exam ok
Snap Lake	Gill Net	Lake trout	U	746	4400	external exam ok
Snap Lake	Gill Net	Lake trout	U	499	1425	external exam ok
Snap Lake	Gill Net	Lake trout	U	666	3150	external ok
Snap Lake	Gill Net	Lake trout	U	430	725	external exam ok
Snap Lake	Gill Net	Lake trout	U	475	1050	external exam ok
Snap Lake	Gill Net	Lake trout	U	610	2700	external exam ok
Snap Lake	Gill Net	Lake trout	U	269	200	released - external exam ok

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
Snap Lake	Gill Net	Lake trout	U	655	2950	external exam ok
Snap Lake	Gill Net	Lake trout	U	685	3250	external exam ok
Snap Lake	Gill Net	Lake trout	U	664	3550	external exam ok
Snap Lake	Gill Net	Lake trout	U	705	4500	external exam ok
Snap Lake	Gill Net	Lake trout	U	685	3400	external exam ok
Snap Lake	Gill Net	Lake trout	U	749	4350	external exam ok
Snap Lake	Gill Net	Lake trout	U	770	4500	external exam ok
Snap Lake	Gill Net	Lake trout	U	661	3375	external exam ok
Snap Lake	Gill Net	Lake trout	U	523	1650	external exam ok
Snap Lake	Gill Net	Lake trout	U	640	3000	external exam ok
Snap Lake	Gill Net	Lake trout	U	645	3150	external exam ok
Snap Lake	Gill Net	Lake trout	U	598	2375	external exam ok
Snap Lake	Gill Net	Lake trout	U	670	3350	released ok, distended abdomen - possible gravid female
Snap Lake	Gill Net	Lake trout	U	520	1950	released ok
Snap Lake	Gill Net	Lake trout	U	585	2800	released ok
Snap Lake	Gill Net	Lake trout	U	428	700	released ok
Snap Lake	Gill Net	Lake trout	U	575	2700	released ok
Snap Lake	Gill Net	Lake trout	U	382	625	released ok
Snap Lake	Gill Net	Lake trout	U	419	750	released ok
Snap Lake	Gill Net	Lake trout	U	366	500	released ok
Snap Lake	Gill Net	Longnose sucker	U	305	350	external exam ok
Snap Lake	Gill Net	Round whitefish	F	232	120	
Snap Lake	Gill Net	Round whitefish	F	258	160	
Snap Lake	Gill Net	Round whitefish	F	237	125	
Snap Lake	Gill Net	Round whitefish	F	230	135	
Snap Lake	Gill Net	Round whitefish	F	236	130	mortality - external exam ok
Snap Lake	Gill Net	Round whitefish	F	219	110	mortality - external exam ok
Snap Lake	Gill Net	Round whitefish	F	223	125	mortality - external exam ok
Snap Lake	Gill Net	Round whitefish	F	230	125	
Snap Lake	Gill Net	Round whitefish	F	255	170	
Snap Lake	Gill Net	Round whitefish	F	335	360	
Snap Lake	Gill Net	Round whitefish	F	315	295	
Snap Lake	Gill Net	Round whitefish	F	300	245	
Snap Lake	Gill Net	Round whitefish	F	264	200	
Snap Lake	Gill Net	Round whitefish	F	190	85	mortality - external exam ok
Snap Lake	Gill Net	Round whitefish	F	254	125	mortality
Snap Lake	Gill Net	Round whitefish	F	262	150	mortality
Snap Lake	Gill Net	Round whitefish	F	216	50	mortality
Snap Lake	Gill Net	Round whitefish	F	287	200	mortality
Snap Lake	Gill Net	Round whitefish	F	211	100	mortality
Snap Lake	Gill Net	Round whitefish	M	259	220	
Snap Lake	Gill Net	Round whitefish	M	231	135	
Snap Lake	Gill Net	Round whitefish	M	231	135	
Snap Lake	Gill Net	Round whitefish	M	227	120	mortality - external exam ok
Snap Lake	Gill Net	Round whitefish	M	230	140	mortality - external exam ok
Snap Lake	Gill Net	Round whitefish	M	280	210	
Snap Lake	Gill Net	Round whitefish	M	272	190	
Snap Lake	Gill Net	Round whitefish	M	257	180	

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
Snap Lake	Gill Net	Round whitefish	M	233	125	mortality
Snap Lake	Gill Net	Round whitefish	U	255	200	released - external ok
Snap Lake	Gill Net	Round whitefish	U	269	220	mortality - external ok
Snap Lake	Gill Net	Round whitefish	U	255	200	released - external ok
Snap Lake	Gill Net	Round whitefish	U	304	240	
Snap Lake	Gill Net	Round whitefish	U	290	240	
Snap Lake	Gill Net	Round whitefish	U	289	290	
Snap Lake	Gill Net	Round whitefish	U	222	130	
Snap Lake	Gill Net	Round whitefish	U	230	140	
Snap Lake	Gill Net	Round whitefish	U	218	150	internal/external ok
Snap Lake	Gill Net	Round whitefish	U	200	85	mortality - external exam ok parr marks visible
Snap Lake	Gill Net	Round whitefish	U	206	110	mortality
Snap Lake	Gill Net	Round whitefish	U	200	110	mortality
Snap Lake	Gill Net	Round whitefish	U	200	120	mortality
Snap Lake	Gill Net	Round whitefish	U	230	130	parr marks visible
Snap Lake	Gill Net	Round whitefish	U	216	120	parr marks visible
Snap Lake	Gill Net	Round whitefish	U	150		escaped
MacKay Lake	Gill Net	Arctic grayling	U	205	150	released
MacKay Lake	Gill Net	Lake trout	U	345	510	released
MacKay Lake	Gill Net	Lake trout	M	611	2275	DEB01SLKTR001[1]
MacKay Lake	Gill Net	Lake trout	U	791	3600	released + 1 LKTR escaped
MacKay Lake	Gill Net	Lake trout	U	710	4250	released
MacKay Lake	Gill Net	Lake trout	U	737	4536	released
MacKay Lake	Gill Net	Lake trout	U	572	2268	released
MacKay Lake	Gill Net	Lake trout	F	594	2150	DEB01SLKTR002
MacKay Lake	Gill Net	Lake trout	F	571	2500	DEB01SLKTR004
MacKay Lake	Gill Net	Lake trout	M	530	1675	DEB01SLKTR003
MacKay Lake	Angling	Lake trout	M	530	1700	DEB01SLKTR006
MacKay Lake	Angling	Lake trout	U	530	1600	released
MacKay Lake	Angling	Lake trout	M	515	1450	DEB01SLKTR005
MacKay Lake	Angling	Lake trout	U	580	2000	released
MacKay Lake	Angling	Lake trout	U	575	2000	suspected recapture
MacKay Lake	Gill Net	Lake trout	F	430	925	DEB01SLKTR007
MacKay Lake	Gill Net	Lake trout	M	401	725	DEB01SLKTR008
MacKay Lake	Gill Net	Lake trout	M	442	950	DEB01SLKTR009
MacKay Lake	Gill Net	Lake trout	M	425	900	DEB01SLKTR010
MacKay Lake	Gill Net	Lake trout	K			mortality
MacKay Lake	Gill Net	Lake trout	M	590	2300	kept
MacKay Lake	Gill Net	Lake trout	M	560	2025	kept
MacKay Lake	Gill Net	Lake trout	U	610	2500	released
MacKay Lake	Gill Net	Lake trout	U			released due to large size/cataracts
MacKay Lake	Gill Net	Lake trout	M	470	1250	kept
MacKay Lake	Gill Net	Round whitefish	M	272	150	DEB01SRNWH003
MacKay Lake	Gill Net	Round whitefish	M	287	225	DEB01SRNWH002
MacKay Lake	Gill Net	Round whitefish	M	252	150	DEB01SRNWH001
MacKay Lake	Gill Net	Round whitefish	U	292	250	
MacKay Lake	Gill Net	Round whitefish	M	272	190	
MacKay Lake	Gill Net	Round whitefish	U	270	200	released
MacKay Lake	Gill Net	Round whitefish	M	272	190	
MacKay Lake	Gill Net	Round whitefish	U	294	225	
MacKay Lake	Gill Net	Round whitefish	U	295	250	released
MacKay Lake	Gill Net	Round whitefish	U	282	200	released
MacKay Lake	Gill Net	Round whitefish	U	282	300	released

Table IX.11-2 Length and Weight of Fish Captured in Gillnets and by Angling in the Snap Lake Diamond Project Area

Lake	Capture Method	Species	Sex	Fork length (mm)	Weight (g)	Comments
MacKay Lake	Gill Net	Round whitefish	M	305	290	
MacKay Lake	Gill Net	Round whitefish	F	275	200	
MacKay Lake	Gill Net	Round whitefish	M	295	300	
MacKay Lake	Gill Net	Round whitefish	F	202	200	
MacKay Lake	Gill Net	Round whitefish	F	261	200	
MacKay Lake	Gill Net	Round whitefish	F	265	165	
MacKay Lake	Gill Net	Round whitefish	F	250	417	
MacKay Lake	Gill Net	Round whitefish	F	268	-	
MacKay Lake	Gill Net	Round whitefish	U			
MacKay Lake	Gill Net	Round whitefish	U			
MacKay Lake	Gill Net	Round whitefish	U			
MacKay Lake	Gill Net	Round whitefish	U			released
MacKay Lake	Gill Net	Round whitefish	U			released - not measured to reduce stress
MacKay Lake	Gill Net	Round whitefish	U			
MacKay Lake	Gill Net	Round whitefish	U			
MacKay Lake	Gill Net	Round whitefish	U			
MacKay Lake	Gill Net	Round whitefish	U	280	200	released
MacKay Lake	Gill Net	Round whitefish	U	277	250	released
MacKay Lake	Gill Net	Round whitefish	U	290	300	released
MacKay Lake	Gill Net	Round whitefish	U	285	200	released
MacKay Lake	Gill Net	Round whitefish	U	290	200	released
MacKay Lake	Gill Net	Round whitefish	U	302	225	released
MacKay Lake	Gill Net	Round whitefish	U	258	200	released
MacKay Lake	Gill Net	Round whitefish	U			not measured - released immediately to reduce stress
MacKay Lake	Gill Net	Round whitefish	F	282	200	

Notes: M = male; F = female; U = unknown; - = missing data.

[1] DEB number = numeric code assigned to fish that was retained and submitted for tissue analysis

Table IX.11-3 Summary of Length, Weight, Age, Condition Factor and Indices of Fish Caught

		Lake Trout																													
		Reference Lake					Snap Lake					MacKay Lake					Reference Lake					Snap Lake					MacKay Lake				
Sex	Parameter	# Total Samples	Min	Max	Mean	Sample Size	# Total Samples	Min	Max	Mean	Sample Size	# Total Samples	Min	Max	Mean	Sample Size	# Total Samples	Min	Max	Mean	Sample Size	# Total Samples	Min	Max	Mean	Sample Size	# Total Samples	Min	Max	Mean	Sample Size
Female	Fork Length (mm)	6	340	787	535	6	18	400	714	554	18	3	430	594	532	3	9	202	305	273	9	19	190	335	250	19	8	255	294	274	8
	Weight (g)	6	300	5200	1971	6	18	700	5400	2274	18	3	925	2500	1853	3	9	90	290	190	9	19	50	360	158	19	8	142	225	189	8
	Age (years)	6	9	23	16	5	18	8	19	15	18		N/A				9	5	9	8	9	19	5	9	6	18	N/A				
	Liver Weight (g)	6	2.3	61.4	25.5	6	18	12.8	33.9	18.9	4	3	10.9	51.7	27.4	3	9	0.6	3.4	2.3	9	19	0.8	5.2	2.0	10	8	1.2	2.5	1.8	8
	Gonad Weight (g)	6	2.1	149.0	48.6	6	18	12.5	53.9	26.6	4	3	9.5	139.9	62.3	3	9	0.2	4.8	3.4	9	19	0.9	2.8	1.8	10	8	0.8	2.2	1.4	8
	Condition Factor	6	0.763	1.170	1.011	6	18	0.893	1.875	1.235	18	3	1.030	1.340	1.520	3	9	0.581	1.118	0.915	9	19	0.496	1.239	0.963	19	8	0.8546	1.2490	0.9202	8
	Liver Somatic Index	6	0.008	0.018	0.012	6	18	0.010	0.014	0.012	4	3	0.0093	0.0125	0.0110	3	9	0.007	0.027	0.013	9	19	0.007	0.014	0.010	10	8	0.0072	0.0125	0.0096	8
	Gonadal Somatic Index	6	0.004	0.029	0.018	6	18	0.010	0.054	0.021	4	3	0.0004	0.0152	0.0049	3	9	0.002	0.038	0.018	9	19	0.005	0.013	0.010	10	8	0.0050	0.0110	0.0076	8
Male	Fork Length (mm)	6	369	669	523	6	55	372	790	583	55	7	401	661	500	7	15	199	315	262	15	9	227	280	247	9	7	252	305	279	7
	Weight (g)	6	520	3400	1824	6	55	500	5225	2646	55	7	725	2275	1382	7	15	80	300	186	15	9	120	220	162	9	7	150	300	211	7
	Age (years)	6	6	21	14	6	55	9	23	16	48		N/A				15	5	11	7	14	9	5	8	7	9	N/A				
	Liver Weight (g)	6	8.8	41.1	29.7	5	55	8.9	44.2	28.7	7	7	8.5	21.1	14.8	7	15	1.3	2.2	1.8	8	9	0.7	1.9	1.4	6	7	1.5	6.9	2.6	7
	Gonad Weight (g)	6	0.2	51.2	22.9	5	55	0.6	91.0	41.9	7	7	<1	20.9	8.0	7	15	0.6	3.3	1.7	8	9	0.1	1.0	0.3	6	7	<1	0.8	<1	7
	Condition Factor	6	1.026	1.256	1.104	6	55	0.899	1.762	1.223	55	7	0.790	1.220	1.080	7	15	0.640	1.151	1.015	15	9	0.944	1.266	1.065	9	7	0.7454	1.1686	0.9202	7
	Liver Somatic Index	6	0.011	0.017	0.015	5	55	0.008	0.012	0.011	7	7	0.0090	0.0207	0.0149	7	15	0.007	0.011	0.009	8	9	0.005	0.010	0.008	6	7	0.0063	0.0460	0.0140	7
	Gonadal Somatic Index	6	0.000	0.017	0.009	5	55	0.001	0.027	0.014	7	7	0.0103	0.0560	0.0279	6	15	0.003	0.017	0.008	8	9	0.001	0.005	0.002	6	7	0.0010	0.0030	0.0021	7
Unknown	Fork Length (mm)	27	196	838	548	21	46	269	770	550	46											16	150	304	233	16					
	Weight (g)	27	100	6300	2135	21	46	200	4500	2226	46											16	85	290	166	15					
	Age (years)	27	5	21	15	20	46	1	22	14	46											16	5	9	7	14					
	Liver Weight (g)	27				0	46				0											16				0					
	Gonad Weight (g)	27				0	46				0											16				0					
	Condition Factor	27	0.683	1.554	1.103	21	46	0.765	1.499	1.106	46											16	0.854	1.500	1.188	15					
	Liver Somatic Index	27				0	46				0											16				0					
	Gonadal Somatic Index	27				0	46				0											16				0					

Notes: mm = millimetres; g = grams
Blank cells indicate data not collected

		Longnose Sucker																			
		Reference Lake					Snap Lake					NL2					NL3				
Sex	Parameter	# Total Samples	Min	Max	Mean	Sample size	# Total Samples	Min	Max	Mean	Sample size	# Total Samples	Min	Max	Mean	Sample size	# Total Samples	Min	Max	Mean	Sample size
Unknown	Fork Length (mm)	19	372	474	431	15	1	305	305	305	1	10	361	424	393	8	3	365	378	372	2
	Weight (g)	19	775	1700	1258	15	1	350	350	350	1	10	680	950	798	8	3	600	690	645	2
	Age (years)	19	6	16	11	2	1	17	17	17	1	10	15	19	16	8	3	18	22	20	2
	Liver Weight (g)	19				0	1				0	10				0	3				0
	Gonad Weight (g)	19				0	1				0	10				0	3				0
	Condition Factor	19	1.237	1.768	1.545	15	1	1.233	1.233	1.233	1	10	1.063	1.467	1.319	8	3	1.234	1.278	1.256	2
	Liver Somatic Index	19				0	1				0	10				0	3				0
	Gonadal Somatic Index	19				0	1				0	10				0	3				0

Notes: mm = millimetres; g = grams
Blank cells indicate data not collected

		Arctic Grayling				
		Snap Lake				
Sex	Parameter	# Total Samples	Min	Max	Mean	Sample size
Unknown	Fork Length (mm)	10	228	317	258	10
	Weight (g)	10	120	400	236	10
	Age (years)	10	5	8	6	10
	Liver Weight (g)	10				0
	Gonad Weight (g)	10				0
	Condition Factor	10	1.184	1.397	1.296	10
	Liver Somatic Index	10				0
	Gonadal Somatic Index	10				0

Notes: mm = millimetres; g = grams
Blank cells indicate data not collected

Table X.11.4 Average Metal Level in Muscle and Liver Tissue from Lake Trout in Snap Lake, the Reference Lake, and MacKay Lake

			Reference Lake								Snap Lake								MacKay Lake [2]							
			Flesh				Liver				Flesh				Liver				Flesh				Liver			
Sex	Parameter (mg/g)	Units	Min	Max	Mean[1]	Samples	Min	Max	Mean	Samples	Min	Max	Mean	Samples	Min	Max	Mean	Samples	Min	Max	Mean	Samples	Min	Max	Mean	Samples
F	% Moisture Content	%	75.8	82.0	78.3	5	78.2	80.8	79.9	5	77.0	80.6	78.9	4	76.9	79.7	77.9	4	65	69	67	3	68	71	70	3
M	% Moisture Content	%	75.6	77.1	76.2	5	71.0	78.9	75.8	5	78.5	80.9	79.5	6	76.4	78.4	77.1	5	67	73	69	7	67	74	71	7
F	Aluminum-(tissue)	µg/g	<3	<3	15	5	<3	<3	15	5	<3	<3	15	4	<3	<3	15	4	< 4	28	18	3	4	22	13	3
M	Aluminum-(tissue)	µg/g	<30	<30	15	5	<30	<30	15	5	<30	<30	15	6	<30	<30	15	5	9	55	29	7	5	11	7	6
F	Antimony-(tissue)	µg/g	<0.1	0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	4	<0.1	<0.1	0.1	4	< 0.04	0.10	0.05	3	< 0.04	0.08	0.04	3
M	Antimony-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	6	<0.1	<0.1	0.1	5	< 0.04	0.08	0.04	7	< 0.04	0.07	0.03	6
F	Arsenic(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	0.2	0.1	5	<0.1	<0.1	0.1	4	<0.1	<0.1	0.1	4	< 0.2	0.6	0.3	3	0.2	0.9	0.5	3
M	Arsenic(tissue)	µg/g	<0.1	0.2	0.1	5	<0.1	0.2	0.1	5	<0.1	0.2	0.1	6	<0.1	<0.1	0.1	5	< 0.2	0.5	0.2	7	< 0.2	0.7	0.3	6
F	Barium-(tissue)	µg/g	<0.1	0.2	0.1	5	0.1	0.1	0.1	5	<0.1	0.1	0.1	4	<0.1	0.1	0.1	4	0.10	0.48	0.30	3	0.12	0.25	0.19	3
M	Barium-(tissue)	µg/g	<0.1	0.1	0.1	5	<0.1	0.1	0.1	5	<0.1	0.2	0.1	6	<0.1	<0.1	0.1	5	0.16	0.73	0.41	7	0.13	0.22	0.19	6
F	Beryllium-(tissue)	µg/g	<0.2	<0.2	0.1	5	<0.2	<0.2	0.1	5	<0.2	<0.2	0.1	4	<0.2	<0.2	0.1	4	< 0.2	< 0.2	0.1	3	< 0.2	< 0.2	0.1	3
M	Beryllium-(tissue)	µg/g	<0.2	<0.2	0.1	5	<0.2	<0.2	0.1	5	<0.2	<0.2	0.1	6	<0.2	<0.2	0.1	5	< 0.2	< 0.2	0.1	7	< 0.2	< 0.2	0.1	6
F	Bismuth-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	4	<0.1	<0.1	0.1	4	< 0.003	< 0.003	0.002	3	< 0.003	0.051	0.018	3
M	Bismuth-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	6	<0.1	<0.1	0.1	5	< 0.003	0.039	0.007	7	< 0.003	0.224	0.055	6
F	Boron	µg/g																	< 2	< 2	1	3	< 2	< 2	1	3
M	Boron	µg/g																	< 2	< 2	1	7	< 2	< 2	1	6
F	Cadmium-(tissue)	µg/g	<0.1	<0.1	0.1	5	0.3	0.8	0.6	5	<0.1	<0.1	0.1	4	<0.1	2.1	1.0	4	< 0.08	< 0.08	0.04	3	0.27	1.02	0.56	3
M	Cadmium-(tissue)	µg/g	<0.1	<0.1	0.1	5	0.1	0.6	0.3	5	<0.1	<0.1	0.1	6	0.3	0.5	0.4	5	< 0.08	< 0.08	0.04	7	0.35	1.04	0.59	6
F	Calcium	µg/g																	320	810	497	3	180	360	277	3
M	Calcium	µg/g																	290	1850	841	7	280	2370	770	6
F	Cesium-tissue	µg/g	0.3	0.5	0.4	5	0.1	0.3	0.2	5	0.1	0.6	0.4	4	0.1	0.2	0.2	4	0.14	0.43	0.26	3	0.12	0.40	0.24	3
M	Cesium-tissue	µg/g	0.4	0.6	0.5	5	0.2	0.4	0.2	5	0.4	0.9	0.6	6	0.2	0.4	0.3	5	0.10	0.49	0.24	7	0.06	0.31	0.15	6
F	Chromium-(tissue)	µg/g	<0.3	0.6	0.3	5	<0.3	0.5	0.4	5	<0.3	<0.3	0.2	4	<0.3	<0.3	0.2	4	< 0.2	0.8	0.4	3	0.5	0.7	0.6	3
M	Chromium-(tissue)	µg/g	<0.3	0.4	0.3	5	0.3	0.3	0.3	5	<0.3	<0.3	0.2	6	<0.3	<0.3	0.2	5	< 0.2	6.1	1.6	7	0.4	8.2	1.8	6
F	Cobalt-(tissue)	µg/g	<0.1	<0.1	0.1	5	0.2	1.1	0.5	5	<0.1	0.1	0.1	4	<0.1	0.8	0.7	4	< 0.08	0.11	0.06	3	0.24	0.61	0.39	3
M	Cobalt-(tissue)	µg/g	<0.1	<0.1	0.1	5	0.2	0.5	0.3	5	<0.1	0.1	0.1	6	0.4	0.7	0.6	5	< 0.08	0.11	0.05	7	0.20	1.12	0.54	6
F	Copper-(tissue)	µg/g	0.7	2.4	1.4	5	21.7	118.0	76.2	5	1.2	4.0	2.5	4	23.9	63.9	52.2	4	0.84	1.16	1.03	3	20.0	52.1	34.10	3
M	Copper-(tissue)	µg/g	1.1	1.5	1.3	5	20.9	59.1	36.6	5	1.5	4.3	2.8	6	22.5	66.8	34.1	5	0.99	1.63	1.23	7	47.5	98.5	68.82	6
F	Iron-(tissue)	Wt %	<0.03	<0.03	0.03	5	0.12	0.28	0.21	5	<0.03	<0.03	0.03	4	0.19	0.28	0.24	4								
M	Iron-(tissue)	Wt %	<0.03	<0.03	0.03	5	0.04	0.15	0.08	5	<0.03	<0.03	0.03	6	0.10	0.26	0.16	5								
F	Iron	mg/g																	9	27	18	3	601	2330	1212	3
M	Iron	mg/g																	8	35	22	7	156	1810	1053	6
F	Lead-(tissue)	µg/g	<0.1	0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	4	<0.1	<0.1	0.1	4	< 0.04	0.21	0.09	3	0.06	0.10	0.08	3
M	Lead-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	0.6	0.2	5	<0.1	<0.1	0.1	6	<0.1	<0.1	0.1	5	0.05	0.24	0.11	7	0.04	0.17	0.10	6
F	Lithium-(tissue)	µg/g	<0.3	<0.3	0.2	5	<0.3	<0.3	0.2	5	<0.3	<0.3	0.2	4	<0.3	<0.3	0.2	4	< 0.5	< 0.5	0.3	3	< 0.5	< 0.5	0.3	3
M	Lithium-(tissue)	µg/g	<0.3	<0.3	0.2	5	<0.3	<0.3	0.2	5	<0.3	<0.3	0.2	6	<0.3	<0.3	0.2	5	< 0.5	< 0.5	0.3	7	< 0.5	< 0.5	0.3	6
F	Magnesium	µg/g																	875	1140	970	3	656	746	712	3
M	Magnesium	µg/g																	853	1110	994	7	579	878	697	6
F	Manganese-(tissue)	µg/g	0.3	0.5	0.4	5	6.0	8.4	6.9	5	0.3	0.4	0.4	4	3.8	11.4	6.5	4	0.32	0.70	0.46	3	5.15	7.28	6.40	3
M	Manganese-(tissue)	µg/g	0.3	0.5	0.4	5	2.6	5.9	4.3	5	0.3	0.7	0.5	6	3.8	6.2	5.0	5	0.41	2.02	0.72	7	4.83	6.83	5.71	6
F	Mercury(tissue)	µg/g	0.17	0.86	0.47	5	0.21	1.18	0.56	5	0.11	1.50	0.54	4	0.09	1.16	0.43	4	0.17	0.46	0.30	3	0.13	0.48	0.29	3
M	Mercury(tissue)	µg/g	0.22	0.79	0.48	5	0.15	1.31	0.63	5	0.25	0.88	0.59	6	0.21	1.20	0.73	5	0.08	0.64	0.23	7	0.06	1.29	0.42	6
F	Molybdenum-(tissue)	µg/g	<0.1	1.4	0.3	5	<0.1	0.3	0.1	5	<0.1	<0.1	0.1	4	0.4	0.7	0.5	4	< 0.04	< 0.04	0.02	3	0.32	0.82	0.50	3
M	Molybdenum-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	0.4	0.2	5	<0.1	<0.1	0.1	6	0.4	0.6	0.5	5	< 0.04	0.10	0.04	7	0.45	0.77	0.54	6
F	Nickel-(tissue)	µg/g	<0.1	0.2	0.1	5	0.2	0.3	0.2	5	<0.1	0.1	0.1	4	0.1	0.3	0.2	4	0.12	0.37	0.23	3	0.20	0.70	0.39	3
M	Nickel-(tissue)	µg/g	<0.1	0.2	0.1	5	0.1	0.3	0.2	5	<0.1	0.5	0.2	6	0.2	0.3	0.2	5	0.14	2.67	0.63	7	0.23	3.92	0.95	6
F	Potassium	µg/g																	12200	15200	13200	3	9360	11700	10353	3
M	Potassium	µg/g																	12500	15200	14186	7	7800	9870	8890	6
F	Rubidium-(tissue)	µg/g	43.0	64.2	53.6	5	42.5	63.4	52.1	5	26.3	50.3	40.8	4	31.3	46.1	39.2	4	25.0	61.0	38.3	3	32.9	73.3	47.1	3
M	Rubidium-(tissue)	µg/g	53.7	65.9	58.5	5	30.2	53.6	41.5	5	30.1	82.3	53.9	6	41.1	58.0	51.0	5	25.0	54.4	40.4	7	23.3	47.4	32.7	6
F	Selenium-(tissue)	µg/g	1	2	1	5	6	10	7	5	1	2	1	4	4	13	8	4	1.1	1.4	1.2	3	4.0	9.5	6.4	3
M	Selenium-(tissue)	µg/g	1	2	1	5	5	10	8	5	1	3	2	6	10	19	14	5	1.0	1.7	1.2	7	6.2	14.6	9.5	6
F	Silver-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	1.0	0.6	5	<0.1	<0.1	0.1	4	<0.1	0.3	0.2	4	< 0.08	< 0.08	0.04	3	< 0.08	0.12	0.09	3
M	Silver-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	0.4	0.2	5	<0.1	<0.1	0.1	6	<0.1	0.2	0.1	5	< 0.08	< 0.08	0.04	7	< 0.08	0.34	0.18	6
F	Sodium	µg/g																	692	1290	1027	3	4290	4720	4453	3
M	Sodium	µg/g																	806	1370	1058	7	3830	7170	5522	6
F	Strontium-(tissue)	µg/g	0.1	0.9	0.3	5	0.4	1.0	0.7	5	<0.1	0.5	0.2	4	0.2	0.6	0.4	4	0.29	1.03	0.56	3	0.31	0.42	0.35	3
M	Strontium-(tissue)	µg/g	0.1	3.4	0.9	5	0.6	0.8	0.7	5	0.1	0.5	0.2	6	0.2	0.4	0.3	5	0.36	2.68	1.05	7	0.36	2.37	0.86	6
F	Thallium-(tissue)	µg/g	<0.1	<0.1	0.1	5	0.1	0.3	0.2	5	<0.1	<0.1	0.1	4	0.1	0.2	0.1	4	< 0.04	0.05	0.04	3	0.30	0.63	0.42	3
M	Thallium-(tissue)	µg/g	<0.1	<0.1	0.1	5	0.1	0.2	0.2	5	<0.1	<0.1	0.1	6	0.1	0.4	0.2	5	< 0.04	0.06	0.04	7	0.22	0.52	0.35	6
F	Tin	µg/g																	3.00	3.62	3.34	3	3.46	6.16	4.49	3
M	Tin	µg/g																	3.44	6.42	4.45	7	3.78	5.03	4.33	6
F	Titanium	µg/g																	1.25	22.40	9.10	3	1.51	6.28	4.36	3
M	Titanium	µg/g																	3.83	8.25	5.96	7	1.17	12.90	5.39	6
F	Uranium-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	4	<0.1	<0.1	0.1	4	< 0.04	< 0.04	0.02	3	< 0.04	< 0.04	0.02	3
M	Uranium-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	6	<0.1	<0.1	0.1	5	< 0.04	< 0.04	0.02	7	< 0.04	< 0.04	0.02	6
F	Vanadium-(tissue)	µg/g	<0.1	0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	0.1	0.1	4	<0.1	<0.1	0.1	4	< 0.08	0.10	0.08	3	< 0.08	0.16	0.12	3
M	Vanadium-(tissue)	µg/g	<0.1	<0.1	0.1	5	<0.1	<0.1	0.1	5	<0.1	0.1	0.1	6	<0.1	0.4	0.1	5	< 0.08	0.12	0.08	7	< 0.08	0.15	0.10	6
F	Wet Weight	g																	160.36	232.61	203.46	3	4.46	19.02	10.78	3
M	Wet Weight	g																	75.36	187.29	135.90	7	2.61	7.89	5.03	7
F	Zinc-(tissue)	µg/g	10	23	16	5	114	161	146	5	14	19	16	4	96	142	112	4	11.3	20.1	14.5	3	87.5	120	102.8	3
M	Zinc-(tissue)	µg/g	11	22	14	5	91	117	105	5	12	26	18	6	80	114	90	5	12.7	22.5	15.1	7	105	142	121.8	6

Notes: % = percent; µg/g = micrograms per gram; mg/g = milligrams per gram; g = gram; Wt % = percent weight

Table IX.11-5 Average Metal Level in Muscle from Round Whitefish from Snap Lake, Reference Lake, and MacKay Lake

			Reference Lake				Snap Lake				Mackay Lake[2]			
			Flesh				Flesh				Flesh			
Sex	Parameter	Units	Min	Max	Mean[1]	Samples	Min	Max	Mean	Samples	Min	Max	Mean	Samples
F	% Moisture Content	%	75.3	82.8	77.4	7	76.5	78.6	77.5	8	73	74	73.67	3
M	% Moisture Content	%	75.9	77.7	77.0	8	77.6	80	78.4	6	67	74	71.33	3
F	Aluminum-(tissue)	µg/g	< 30	52	25	7	< 30	< 30	15	8	<4	13	9	3
M	Aluminum-(tissue)	µg/g	< 30	< 30	15	8	< 30	< 30	15	6	<4	25	14	3
F	Antimony-(tissue)	µg/g	< 0.1	0.7	0.2	7	< 0.1	< 0.1	0.1	8	<0.04	0.02	0.02	3
M	Antimony-(tissue)	µg/g	< 0.1	0.1	0.1	8	< 0.1	< 0.1	0.1	6	<0.04	0.11	0.06	3
F	Arsenic(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	0.1	8	0.1	0.1	0.1	3
M	Arsenic(tissue)	µg/g	< 0.1	0.1	0.1	8	< 0.1	< 0.1	0.1	6	0.1	0.7	0.3	3
F	Barium-(tissue)	µg/g	0.1	0.9	0.4	7	< 0.1	0.6	0.2	8	0.25	0.98	0.62	3
M	Barium-(tissue)	µg/g	< 0.1	0.7	0.3	8	< 0.1	1	0.3	6	0.42	0.59	0.48	3
F	Beryllium-(tissue)	µg/g	< 0.2	< 0.2	0.1	7	< 0.2	< 0.2	0.1	8	0.1	0.1	0.1	3
M	Beryllium-(tissue)	µg/g	< 0.2	< 0.2	0.1	8	< 0.2	< 0.2	0.1	6	0.1	0.1	0.1	3
F	Bismuth-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	0.1	8	0.0015	0.0015	0.00	3
M	Bismuth-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	< 0.1	0.1	6	0.0015	0.0015	0.00	3
F	Boron	µg/g									<2	<2	1	3
M	Boron	µg/g									<2	<2	1	3
F	Cadmium-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	0.1	8	<0.08	<0.08	0.04	3
M	Cadmium-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	< 0.1	0.1	6	<0.08	<0.08	0.04	3
F	Calcium	µg/g									860	3560	2237	3
M	Calcium	µg/g									1460	1800	1660	3
F	Cesium-tissue	µg/g	0.1	0.3	0.2	7	0.1	0.4	0.2	8	0.17	0.21	0.19	3
M	Cesium-tissue	µg/g	0.1	0.2	0.2	8	0.1	0.3	0.2	6	0.13	0.41	0.26	3
F	Chromium-(tissue)	µg/g	< 0.3	0.8	0.4	7	< 0.3	< 0.3	0.2	8	0.1	0.8	0.3	3
M	Chromium-(tissue)	µg/g	< 0.3	0.4	0.3	8	< 0.3	0.3	0.2	6	0.1	5.8	2.1	3
F	Cobalt-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	0.1	0.1	8	0.04	0.14	0.10	3
M	Cobalt-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	< 0.1	0.1	6	0.12	0.18	0.16	3
F	Copper-(tissue)	µg/g	0.8	1.2	1.0	7	0.8	1.6	1.2	8	1.28	1.41	1.33	3
M	Copper-(tissue)	µg/g	0.9	3.2	1.3	8	1	3.9	1.7	6	1.24	1.94	1.49	3
F	Iron-(tissue)	Wt %	0.03	0.03	0.03	7	0.03	0.03	0.03	8				
M	Iron-(tissue)	Wt %	0.03	0.03	0.03	8	0.03	0.03	0.03	6				
F	Iron	mg/g									11	17	15	3
M	Iron	mg/g									11	49	24	3
F	Lead-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	0.1	0.1	8	0.06	0.12	0.08	3
M	Lead-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	0.1	0.1	6	0.05	0.34	0.15	3
F	Lithium-(tissue)	µg/g	< 0.3	< 0.3	0.2	7	< 0.3	< 0.3	0.2	8	0.25	0.25	0.25	3
M	Lithium-(tissue)	µg/g	< 0.3	< 0.3	0.2	8	< 0.3	< 0.3	0.2	6	0.25	0.25	0.25	3
F	Magnesium	µg/g									1170	1370	1267	3
M	Magnesium	µg/g									1070	1290	1170	3
F	Manganese-(tissue)	µg/g	0.4	1.3	0.8	7	0.5	1.1	0.7	8	0.7	1.7	1.1	3
M	Manganese-(tissue)	µg/g	0.4	1.6	0.8	8	0.5	1.9	0.9	6	0.89	1.16	1.00	3
F	Mercury(tissue)	µg/g	0.04	0.10	0.06	7	0.05	0.12	0.08	8	0.08	0.08	0.08	3
M	Mercury(tissue)	µg/g	0.03	0.06	0.04	8	0.05	0.12	0.08	6	0.05	0.07	0.06	3
F	Molybdenum-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	0.1	8	0.02	0.04	0.03	3
M	Molybdenum-(tissue)	µg/g	< 0.1	0.6	0.1	8	< 0.1	< 0.1	0.1	6	<0.04	<0.04	0.02	3
F	Nickel-(tissue)	µg/g	< 0.1	0.9	0.3	7	< 0.1	0.2	0.1	8	0.19	0.36	0.25	3
M	Nickel-(tissue)	µg/g	< 0.1	6.9	0.9	8	< 0.1	0.2	0.1	6	0.13	0.32	0.25	3
F	Potassium	µg/g									17400	17700	17567	3
M	Potassium	µg/g									13500	17500	15600	3
F	Rubidium-(tissue)	µg/g	29.4	50.0	36.6	7	23.1	37.8	33.5	8	23.3	28.6	26.1	3
M	Rubidium-(tissue)	µg/g	30.9	38.5	34.1	8	27.1	39.7	32.0	6	26.3	31.4	28.4	3
F	Selenium-(tissue)	µg/g	1	3	2	7	1	2	2	8	1.4	2.1	1.7	3
M	Selenium-(tissue)	µg/g	1	2	2	8	1	2	2	6	1.7	2.2	2.0	3
F	Silver-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	0.1	8	<0.08	<0.08	0.04	3
M	Silver-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	0.1	0.1	6	<0.08	<0.08	0.04	3
F	Sodium	µg/g									1070	1490	1307	3
M	Sodium	µg/g									783	1060	936	3
F	Strontium-(tissue)	µg/g	0.2	5.2	1.9	7	0.3	4.5	1.7	8	1.72	8.47	4.99	3
M	Strontium-(tissue)	µg/g	0.4	5.8	2.7	8	0.2	2.5	1.0	6	2.77	3.85	3.41	3
F	Thallium-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	$0.1	8	0.02	0.1	0.06	3
M	Thallium-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	< 0.1	$0.1	6	0.02	0.05	0.04	3
F	Tin	µg/g									4.17	5.39	4.75	3
M	Tin	µg/g									3.57	5.4	4.45	3
F	Titanium	µg/g									0.86	6.01	3.03	3
M	Titanium	µg/g									0.8	2.37	1.6	3
F	Uranium-(tissue)	µg/g	< 0.1	< 0.1	0.1	7	< 0.1	< 0.1	0.1	8	<0.04	<0.04	0.02	3
M	Uranium-(tissue)	µg/g	< 0.1	< 0.1	0.1	8	< 0.1	< 0.1	0.1	6	<0.04	<0.04	0.02	3
F	Vanadium-(tissue)	µg/g	< 0.1	0.2	0.1	7	< 0.1	0.1	0.1	8	0.04	0.10	0.08	3
M	Vanadium-(tissue)	µg/g	< 0.1	0.1	0.1	8	< 0.1	0.2	0.1	6	0.04	0.23	0.12	3
F	Wet Weight	g									52.07	64.83	57.58	3
M	Wet Weight	g									70.60	99.42	82.65	3
F	Zinc-(tissue)	µg/g	13	29	20	7	16	33	22	8	17.4	18.3	17.9	3
M	Zinc-(tissue)	µg/g	15	29	20	8	18	31	24	6	14.7	19.9	16.5	3

Notes: M = male; F = female; % = percent; µg/g = micrograms per gram; mg/g = milligrams per gram; g = gram; Wt % = percent weight

Total metals reported as dry weight, except mercury, which is reported as wet weight.

Blank cells indicate no data

[1] For statistical purposes, parameters analyzed at the detection limit are reported at the detection limit except for averages which are calculated at 0.5 x detection limit.

[2] MacKay Lake flesh sample statistics for males and females based on three individual samples per sex only, composite samples not included and reported separately in Table IX.11-8.

Table IX.11-6 Pooled Metal Levels in Round Whitefish Liver from Snap Lake

Parameter	Units	Pooled Fish Liver Tissue				
		Fish 1, 13, and 16	Fish 5, 10, and 11	Fish 2, 3, 4, 6, and 15	Fish 8 and 9	Fish 7 only[1]
		Males	Males	Females	Females	Female
% Moisture Content	%	76.6	76.8	76.5	76	77.9
Aluminum-(tissue)	µg/g	<30	<30	<30	<30	<30
Antimony-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic(tissue)	µg/g	0.1	0.1	<0.1	0.1	0.1
Barium-(tissue)	µg/g	<0.1	0.2	<0.1	0.1	<0.1
Beryllium-(tissue)	µg/g	<0.2	<0.2	<0.2	<0.2	<0.2
Bismuth-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium-(tissue)	µg/g	0.3	0.3	0.3	0.7	0.5
Cesium-tissue	µg/g	<0.1	<0.1	0.1	<0.1	0.1
Chromium-(tissue)	µg/g	0.3	0.4	0.5	0.4	0.3
Cobalt-(tissue)	µg/g	0.5	0.4	0.3	0.5	1
Copper-(tissue)	µg/g	14.2	10.8	9.6	12.8	29
Iron-(tissue)	Wt %	0.07	0.09	0.07	0.09	0.04
Lead-(tissue)	µg/g	<0.1	<0.1	<0.1	0.1	<0.1
Lithium-(tissue)	µg/g	<0.3	<0.3	<0.3	<0.3	<0.3
Manganese-(tissue)	µg/g	6.4	6.1	6.8	7.1	5.9
Mercury(tissue)	µg/g	0.12	0.13	0.09	0.2	0.11
Molybdenum-(tissue)	µg/g	0.6	0.6	0.7	0.7	0.6
Nickel-(tissue)	µg/g	0.3	0.3	0.2	0.3	0.3
Rubidium-(tissue)	µg/g	29.3	26.9	36.8	31.1	47.5
Selenium-(tissue)	µg/g	5	5	5	5	5
Silver-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	0.1
Strontium-(tissue)	µg/g	0.5	1.1	0.4	0.4	0.3
Thallium-(tissue)	µg/g	0.2	0.2	0.1	0.1	0.1
Uranium-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1
Vanadium-(tissue)	µg/g	0.1	<0.1	<0.1	<0.1	0.1
Zinc-(tissue)	µg/g	112	95	102	104	108

Notes: % = percent; µg/g = micrograms per gram; Wt % = percent weight

Total metals are reported as dry weight, except mercury which is reported as wet weight.

Fish were collected July 2 and 3, 1999.

[1] Liver large enough for individual analysis.

Table IX.11-7 Pooled Metal Levels in Round Whitefish Liver from the Reference Lake

Parameter	Units	Pooled Fish Liver Tissue					
		Fish 2 and 17	Fish 3, 7, and 13	Fish 4 and 5	Fish 6, 9 and 14	Fish 1 and 12	Fish 11, 15 and 16
		Females	Males	Females	Males	1 Female and 1 Male	Female
% Moisture Content	%	75.8	77	76	76.4	77.9	76
Aluminum-(tissue)	µg/g	<30	<30	<30	<30	<30	<30
Antimony-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium-(tissue)	µg/g	0.3	0.1	0.2	0.1	<0.1	0.2
Beryllium-(tissue)	µg/g	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bismuth-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium-(tissue)	µg/g	0.3	0.1	0.3	0.3	0.1	0.1
Cesium-tissue	µg/g	<0.1	<0.1	0.1	<0.1	0.1	<0.1
Chromium-(tissue)	µg/g	0.3	0.6	0.4	0.5	0.5	0.5
Cobalt-(tissue)	µg/g	0.2	0.2	0.4	0.2	0.1	0.2
Copper-(tissue)	µg/g	9.7	9.5	11.8	10.5	8	8.4
Iron-(tissue)	Wt %	0.05	0.06	0.06	0.06	0.05	0.04
Lead-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lithium-(tissue)	µg/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Manganese-(tissue)	µg/g	7.4	5.4	6.6	6.5	5.7	7.6
Mercury(tissue)	µg/g	0.06	0.04	0.09	0.06	0.06	0.07
Molybdenum-(tissue)	µg/g	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel-(tissue)	µg/g	0.2	0.2	0.2	0.1	<0.1	0.3
Rubidium-(tissue)	µg/g	33	27.5	40.8	30	34.5	36.7
Selenium-(tissue)	µg/g	4	3	4	5	4	4
Silver-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Strontium-(tissue)	µg/g	2.1	0.8	0.7	0.7	0.8	0.6
Thallium-(tissue)	µg/g	0.1	<0.1	0.1	0.1	0.1	<0.1
Uranium-(tissue)	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vanadium-(tissue)	µg/g	<0.1	0.1	<0.1	0.2	0.2	0.1
Zinc-(tissue)	µg/g	96	93	100	101	91	91

Notes: % = percent; µg/g = micrograms per gram; Wt % = percent weight
Total metals are reported as dry weight, except mercury which is reported as wet weight.
Fish were collected July 11, 1999.

Table IX.11-8 Pooled Metal Levels in Flesh and Liver Samples for Round Whitefish from MacKay Lake

Parameter	Units	Pooled Fish Liver Tissue							
		Fish 1 and 3[1]		Fish 5 and 6		Fish 11 and 12		Fish 13, 14, and 15	
Tissue		Liver	Flesh	Liver	Flesh	Liver	Flesh	Liver	Flesh
Sex		Males		Males		Females		Females	
% Moisture Content	%	65	72	65	66	67	73	68	64
Aluminum	µg/g	8	4	16	10	12	18	< 4	11
Antimony	µg/g	< 0.04	< 0.04	< 0.04	0.05	< 0.04	< 0.04	< 0.04	0.10
Arsenic	µg/g	0.2	< 0.2	0.6	0.4	0.7	< 0.2	0.3	0.7
Barium	µg/g	0.35	0.35	0.42	0.53	0.62	2.04	0.18	0.70
Beryllium	µg/g	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bismuth	µg/g	0.024	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron	µg/g	< 2	< 2	< 2	< 2	< 2	2	< 2	< 2
Cadmium	µg/g	0.25	< 0.08	0.75	< 0.08	0.59	< 0.08	0.24	< 0.08
Calcium	µg/g	2330	1620	1540	590	270	2360	330	990
Cesium	µg/g	0.06	0.18	0.25	0.42	0.44	0.81	0.08	0.32
Chromium	µg/g	2.0	< 0.2	< 0.2	< 0.2	< 0.2	5.4	< 0.2	< 0.2
Cobalt	µg/g	0.89	0.16	3.88	0.32	1.40	0.37	1.00	0.34
Copper	µg/g	8.39	1.15	20.9	5.00	21.9	6.56	8.73	2.97
Iron	Wt %	342	10	968	43	794	53	376	39
Lead	µg/g	0.06	< 0.04	0.08	0.17	0.07	0.20	< 0.04	0.34
Lithium	µg/g	< 0.5	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Magnesium	µg/g	673	1330	715	875	767	1150	660	946
Manganese	µg/g	5.68	1.00	21.2	1.44	20.3	4.65	7.14	1.62
Mercury	µg/g	0.07	0.07	0.07	0.06	0.07	0.06	0.06	0.07
Molybdenum	µg/g	0.53	< 0.04	1.72	0.05	1.59	0.10	0.56	0.06
Nickel	µg/g	0.49	0.14	1.09	0.40	0.79	3.25	0.38	0.47
Potassium	µg/g	8730	17900	9900	11800	10400	15300	9990	12300
Rubidium	µg/g	21.4	29.5	61.5	57.9	89.6	105	28.8	51.3
Selenium	µg/g	5.7	2.2	18.0	4.6	16.4	5.9	7.1	3.7
Silver	µg/g	< 0.08	< 0.08	0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Sodium	µg/g	4130	1110	3460	771	3890	1080	3220	816
Strontium	µg/g	1.38	3.04	2.41	3.57	1.57	19.9	0.65	5.25
Thallium	µg/g	0.36	0.08	1.20	0.18	0.59	0.21	0.33	0.11
Tin	µg/g	7.91	4.20	9.73	10.5	10.9	15.1	3.63	7.81
Titanium	µg/g	1.20	1.59	1.89	2.29	2.66	5.12	0.64	1.75
Uranium	µg/g	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Vanadium	µg/g	0.13	0.08	0.26	0.15	0.29	0.33	0.09	0.20
Wet Weight	g	7.13	31.01	7.63	25.13	8.15	19.83	7.90	36.47
Zinc	µg/g	67.8	15.5	222	32.0	250	63.6	89.0	41.5

Notes: % = percent; µg/g = micrograms per gram; g = grams; Wt % = percent weight

Total Metals are reported as dry weight, except mercury which is reported as wet weight.

[1]Tissues were not large to allow individual analyses and were thus composited. Composites were formed from fish of similar size and sex.

Table IX.11-9 Bioconcentration Factor Values for the Metal Concentration in Lake Trout Tissue

Metals	Reference Lake			Snap Lake			MacKay Lake			Reference Lake			Snap Lake			MacKay Lake		
	Concentrations			Concentrations			Concentrations			Concentrations			Concentrations			Concentrations		
	Muscle (µg/kg)	Water (µg/L)	BCF	Muscle (µg/kg)	Water (µg/L)	BCF	Muscle (µg/kg)	Water (µg/L)	BCF	Liver (µg/kg)	Water (µg/L)	BCF	Liver (µg/kg)	Water (µg/L)	BCF	Liver (µg/kg)	Water (µg/L)	BCF
Aluminum	15000	15 [1]	1000	15000	15 [1]	1000	8200	5.39	1521	15000	15 [1]	1000	15000	15 [1]	1000	2560	5.39	475
Antimony	55	0.25 [1]	220	50	0.25 [1]	200	20 [1]	0.18	111	55	0.25 [1]	220	50	0.25 [1]	200	20 [1]	0.18	111
Arsenic	65	0.1 [1]	650	65	0.1 [1]	650	100 [1]	0.125 [1]	800	65	0.1 [1]	650	50	0.1 [1]	500	120	0.125 [1]	960
Barium	85	2.00	43	69	2.60	26	120	1.58	76	85	2.00	43	56	2.60	22	40 [1]	1.58	25
Beryllium	100	1 [1]	100	100	0.05 [1]	2000	100 [1]	0.05 [1]	2000	100	1 [1]	100	100	0.05 [1]	2000	100 [1]	0.05 [1]	2000
Bismuth	50	0.2 [1]	250	50	0.05 [1]	1000	2	0.05 [1]	38	50	0.2 [1]	250	50	0.05 [1]	1000	10	0.05 [1]	200
Cadmium	50	0.15 [1]	333	50	0.05 [1]	1000	40 [1]	0.01	4000	50	0.15 [1]	333	688	0.05 [1]	13750	180	0.01	18000
Cesium	450	0.2 [1]	2250	490	0.05 [1]	9800	70	0.03	2333	450	0.2 [1]	2250	248	0.05 [1]	4950	50	0.03	1667
Chromium	280	1.5 [1]	187	150	1 [1]	150	410	0.09	4556	280	1.5 [1]	187	150	1 [1]	150	360	0.09	4000
Cobalt	50	0.5 [1]	100	56	0.05 [1]	1125	40 [1]	0.05 [1]	800	50	0.5 [1]	100	605	0.05 [1]	12100	140	0.05 [1]	2800
Copper	1320	1 [1]	1320	2677	0.80	3346	370	0.40	925	1320	1 [1]	1320	43158	0.80	53947	15500	0.40	38750
Lead	55	0.5 [1]	110	50	0.30	167	30	0.05	600	55	0.5 [1]	110	50	0.30	167	20	0.05	400
Lithium	150	1.5 [1]	100	150	1.00	150	250 [1]	0.96	260	150	1.5 [1]	100	150	1.00	150	250 [1]	0.96	260
Manganese	390	4.00	98	429	3.40	126	190	1.36	140	390	4.00	98	5735	3.40	1687	1740	1.36	1279
Mercury	472	0.005 [1]	94400	563	0.005 [1]	112500	260	0.01 [1]	52000	472	0.005 [1]	94400	580	0.005 [1]	116000	390	0.01 [1]	78000
Molybdenum	185	0.5 [1]	370	50	0.10	500	20 [1]	0.03	667	185	0.5 [1]	370	503	0.10	5025	160	0.03	5333
Nickel	105	0.5 [1]	210	119	0.30	396	150	0.32	469	105	0.5 [1]	210	220	0.30	733	210	0.32	656
Rubidium	56020	5.0 [1]	11204	47350	0.05 [1]	947000	12510	NA	NC	56020	5.0 [1]	11204	45075	0.05 [1]	901500	11230	NA	NC
Selenium	1300	5.0 [1]	260	1375	5.0 [1]	275	360	0.5 [1]	720	1300	5.0 [1]	260	11025	5.0 [1]	2205	2540	0.5 [1]	5080
Silver	50	0.15 [1]	333	50	0.05 [1]	1000	40 [1]	0.025 [1]	1600	50	0.15 [1]	333	144	0.05 [1]	2875	50	0.025 [1]	2000
Strontium	600	7.00	86	198	7.30	27	280	6.76	41	600	7.00	86	340	7.30	47	210	6.76	31
Thallium	50	0.2 [1]	250	50	0.05 [1]	1000	20 [1]	0.035 [1]	571	50	0.2 [1]	250	173	0.05 [1]	3450	110	0.035 [1]	3143
Titanium	NA	1.5 [1]	NC	NA	0.2	NC	2140	0.025 [1]	85600	NA	1.5 [1]	NC	NA	0.2	NC	1630	0.025 [1]	65200
Uranium	50	0.15 [1]	333	50	0.05 [1]	1000	20 [1]	0.035 [1]	571	50	0.15 [1]	333	50	0.05 [1]	1000	20 [1]	0.035 [1]	571
Vanadium	55	0.5 [1]	110	67	0.05 [1]	1330	40 [1]	0.05 [1]	800	55	0.5 [1]	110	90	0.05 [1]	1800	40	0.05 [1]	800
Zinc	15200	5.0 [1]	3040	17000	5.0 [1]	3400	4640	0.61	7607	15200	5.0 [1]	3040	101075	5.0 [1]	20215	33430	0.61	54803

Notes: µg/kg = micrograms per kilogram; µg/L = micrograms per litre; NA = not analyzed; NC = Could not be calculated; BCF = bioconcentration factor

[1] one half of the analytical detection limit

Table IX.11-10 Bioconcentration Factor Values for the Metal Concentration in Round Whitefish Tissue

Metals	Reference Lake			Snap Lake			MacKay Lake			Reference Lake			Snap Lake			MacKay Lake		
	Concentrations			Concentrations			Concentrations			Concentrations			Concentrations			Concentrations		
	Muscle (µg/kg)	Water (µg/L)	BCF	Muscle (µg/kg)	Water (µg/L)	BCF	Muscle (µg/kg)	Water (µg/L)	BCF	Liver (µg/kg)	Water (µg/L)	BCF	Liver (µg/kg)	Water (µg/L)	BCF	Liver (µg/kg)	Water (µg/L)	BCF
Aluminum	19785	15 [1]	1319	15000	15 [1]	1000	2400	5.39	445	15000 [1]	15 [1]	1000	15000 [1]	15 [1]	1000	2000 [1]	5.39	371
Antimony	132	0.25 [1]	526	50	0.25 [1]	200	20 [1]	0.18	111	50 [1]	0.25 [1]	200	50 [1]	0.25 [1]	200	20 [1]	0.18	111
Arsenic	53	0.1 [1]	531	50	0.1 [1]	500	100 [1]	0.125 [1]	800	50 [1]	0.1 [1]	500	90	0.1 [1]	900	100 [1]	0.125 [1]	800
Barium	339	2.00	169	240	2.60	92	130	1.58	82	160	2.00	80	90	2.60	35	60	1.58	38
Beryllium	100	1 [1]	100	100	0.05 [1]	2000	100 [1]	0.05 [1]	2000	100 [1]	1 [1]	100	100 [1]	0.05 [1]	2000	100 [1]	0.05 [1]	2000
Bismuth	50	0.2 [1]	250	50	0.05 [1]	1000	1.5 [1]	0.05 [1]	30	50 [1]	0.2 [1]	250	50 [1]	0.05 [1]	1000	2	0.05 [1]	44
Cadmium	50	0.15 [1]	333	50	0.05 [1]	1000	40 [1]	0.01	4000	200	0.15 [1]	1333	420	0.05 [1]	8400	70	0.01	7000
Cesium	168	0.2 [1]	839	200	0.05 [1]	4000	50	0.03	1667	70	0.2 [1]	350	70	0.05 [1]	1400	25 [1]	0.03	833
Chromium	333	1.5 [1]	222	165	1 [1]	165	100	0.09	1111	470	1.5 [1]	313	380	1 [1]	380	170	0.09	1889
Cobalt	50	0.5 [1]	100	55	0.05 [1]	1100	40 [1]	0.05 [1]	800	220	0.5 [1]	440	540	0.05 [1]	10800	310	0.05 [1]	6200
Copper	1149	1 [1]	1149	1450	0.80	1813	410	0.40	1025	9650	1 [1]	9650	15280	0.80	19100	2920	0.40	7300
Lead	50	0.5 [1]	100	60	0.30	200	30	0.05	600	50.0 [1]	0.5 [1]	100	60	0.30	200	20 [1]	0.05	400
Lithium	150	1.5 [1]	100	150	1.00	150	250 [1]	0.96	260	150.0 [1]	1.5 [1]	100	150	1.00	150	250 [1]	0.96	260
Manganese	797	4.00	199	800	3.40	235	280	1.36	206	6530	4.00	1633	6460	3.40	1900	2220	1.36	1632
Mercury	51	0.005 [1]	10107	80	0.005 [1]	16000	60	0.01 [1]	12000	60	0.005 [1]	12000	130	0.005 [1]	26000	70	0.01 [1]	14000
Molybdenum	84	0.5 [1]	169	50	0.10	500	20	0.03	667	80	0.5 [1]	160	640	0.10	6400	180	0.03	6000
Nickel	597	0.5 [1]	1194	90	0.30	300	40	0.32	125	180	0.5 [1]	360	280	0.30	933	130	0.32	406
Rubidium	35338	5.0 [1]	7068	32750	0.05 [1]	655000	7560	NA	NC	33750	5.0 [1]	6750	34320	0.05 [1]	686400	8390	NA	NC
Selenium	1875	5.0 [1]	375	2000	5.0 [1]	400	510	0.5 [1]	1020	4000	5.0 [1]	800	5000	5.0 [1]	1000	1950	0.5 [1]	3900
Silver	50	0.15 [1]	333	55	0.05 [1]	1100	40 [1]	0.025 [1]	1600	50.0 [1]	0.15 [1]	333	50 [1]	0.05 [1]	1000	40 [1]	0.025 [1]	1600
Strontium	2303	7.00	329	1350	7.30	185	1080	6.76	160	950	7.00	136	540	7.30	74	310	6.76	46
Thallium	50	0.2 [1]	250	50	0.05 [1]	1000	20 [1]	0.035 [1]	571	80	0.2 [1]	400	140	0.05 [1]	2800	120	0.035 [1]	3429
Titanium	NA	1.5 [1]	NC	NA	0.2	NC	540	0.025 [1]	21600	NA	1.5 [1]	NC	NA	0.2	NC	300	0.025 [1]	12000
Uranium	50	0.15 [1]	333	50	0.05 [1]	1000	20 [1]	0.035 [1]	571	50 [1]	0.15 [1]	333	50.0 [1]	0.05 [1]	1000	20 [1]	0.035 [1]	571
Vanadium	88	0.5 [1]	176	80	0.05 [1]	1600	40 [1]	0.05 [1]	800	120	0.5 [1]	240	70	0.05 [1]	1400	40 [1]	0.05 [1]	800
Zinc	19893	5.0 [1]	3979	23000	5.0 [1]	4600	4570	0.61	7492	95330	5.0 [1]	19066	104200	5.0 [1]	20840	27360	0.61	44852

Notes: µg/kg = micrograms per kilogram; µg/L = micrograms per litre; NA = not analyzed; NC = Could not be calculated; BCF = bioconcentration factor

[1] one half of the analytical detection limit

Table IX.11-11 Fish Tissue Detection Limits

Metal	[1]Taiga (mg/kg)	[2]ETL (mg/kg)
Aluminum (Al)	30	4
Antimony (Sb)		0.04
Arsenic (As)	0.5	0.2
Barium (Ba)	0.1	0.08
Beryllium (Be)	0.2	0.2
Cadmium (Cd)	0.1	0.08
Calcium (Ca)		10
Chromium (Cr)	0.3	0.2
Cobalt (Co)	0.1	0.08
Copper (Cu)	0.2	0.08
Iron (Fe)	3	2
Lead (Pb)	0.1	0.04
Magnesium (Mg)		2
Manganese (Mn)	0.1	0.04
Molybdenum (Mo)	0.1	0.04
Nickel (Ni)	0.1	0.08
Phosphorus (P)		2
Potassium (K)		2
Selenium (Se)	1	0.2
Silver (Ag)	0.1	0.08
Sodium (Na)		2
Strontium (Sr)	0.1	0.04
Thallium (Tl)	0.1	0.04
Tin (Sn)		0.08
Titanium (Ti)	0.3	0.05
Vanadium (V)	0.1	0.08
Zinc (Zn)	10	0.2

Notes: [1]Taiga Environmental Laboratory. 4601 – 52nd Avenue, Yellowknife NT X1A 2R3. Tel: 867/669-2788. Fax: 867/669-2718. Method Ref: ICP-MS2 (t).
[2]Enviro-Test Laboratories. 9936-67th Avenue, Edmonton, Alberta, T6E OP5. Tel: 780/413-5227 (1800/668-9878). Fax: 780/435-7044. Method Ref: EPA 200.3/200.8-ICPMS.