

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Ref A O/F		Survey Date (d/m/y): July 28-09		Coordinates:		Coordinates:	
Survey Distance (m): 200 m		Survey Crew: EG/JK					
right upstream branch		Time: 9:00		448484 7561740			
Temperature (°C): --		Transparency: clear		Comments: S2-S3 - fish bearing: LKTR and SLSC			
Channel Velocity (m/s): --		Conductivity (µS/cm): --					
Current Flow Conditions: --		pH: --		Weather: cool, overcast, no precip			
Discharge estimate (m³/s): --							

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	R	0	25	15	0.10	0.20	8-10	25						75	20	none		none	
2	R	25	12	<10	0.20	0.50	4	10			5	20	55	20	none		none		
3	P	37	3	<10	0.20	0.50	2	4				20	60	20	none		none		
4	R	40	15	<10	<0.1	0.25	7	10				20	60	20	none		none		
5	C	55	2.5	15-20	<0.2	0.50	4	4					80	20	none		none		
6	R	58	10	10	<0.2	0.50	2	4.5				40	40	20	none		none		
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20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall
 BF = Boulder Field, passage through the boulder arrangement is not possible for fish
 D = dry channel, no stream flow
 NC = no distinct channel, water drains over land
 N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season
 P = Permanent, all year round

Overall Rating

Spawning: good **Rearing:** fair **Adult Feeding:** good **Over-wintering:** NA **Migration:** fair

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

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Banks of Channel (Stability): H = highly stable, S = stable, U = unstable

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Ref B O/F		Survey Date (d/m/y): 29/06/2009		Coordinates:		Coordinates:	
Survey Distance (m): 200 m		Survey Crew: TR/KE		Start 427170 7530483			
		Time: 14:06					
				Comments:			
Temperature (°C): 4.3		Transparency: clear		Wide river			
Channel Velocity (m/s): -		Conductivity (µS/cm): 49					
Current Flow Conditions: Fast (Freshet)		pH: 8.07		Weather:			
Discharge estimate (m³/s): -				cloudy			

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	P	0	25	1	1.50	2.00	23	32				25	60	15	0	1.5	0.5		
2	R	25	37	1 - 2	0.36	0.76	41	41				40	40	20					
3	C	62	32	2 - 3	0.25	0.25	31	31					85	15					
4	G	94	44	1	0.30	0.50	52	52				20	60	20					
5	R	138	62	1 - 2	0.30	0.50	55	55				50	40	10					
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20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall

BF = Boulder Field, passage through the boulder arrangement is not possible for fish

D = dry channel, no stream flow

NC = no distinct channel, water drains over land

N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season

P = Permanent, all year round

Overall Rating				
Spawning: Poor	Rearing: Fair	Adult Feeding: Fair	Over-wintering: N/A	Migration: Fair
- generally large substrate	- good depth and flow,			- some shallow cascade
- no gravel substrate observed	but stream lacks cover			sections, fair connection for stream dwelling fish

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

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Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Ref B O/F		Survey Date (d/m/y): 25-Jul-09		Coordinates: 427140 7530403 d/s start		Coordinates: 427083 7530373 u/s start	
Survey Distance (m): 200		Survey Crew: EG/JK		427141 7530567 d/s end		426997 7530296 u/s end	
		Time: 10:56					
Temperature (°C):		Transparency: very clear		Comments: S1 - grayling caught, >20m channel width			
Channel Velocity (m/s):		Conductivity (µS/cm):					
Current Flow Conditions: fast!		pH:		Weather:			
Discharge estimate (m³/s):				cool, cloudy, light wind			

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m) Mean	Bank-full (m)	Width (m) Mean	Bank-full (m)	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Pool Info Type	Depth (m) Max	Crest	Fish Passage Barriers Type	T/P
1	R	0	64	<5	0.25	-	20	31	0	0	0	0	55	45	0	0	0	0	0
2	R	104	40	<5	0.25	-	10	22	0	0	0	5	50	45	0	0	0	0	0
3	G	124	20	<5	0.20	-	15	36	0	15	15	25	45	20	0	0	0	0	0
4	R	0	70	<5	0.25	-	22	31	0	0	0	10	45	45	0	0	0	0	0
5	C	70	5	<5	0.25	-	2	-	0	0	0	10	50	40	0	0	0	0	0
6	R	75	65	<5	0.25	-	45	60	0		15	10	40	35	0	0	0	0	0
7	P	140	5	<5	0.75	-	2	-	0	0	5	20	40	35	0	0	0	0	0
8																			
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10																			
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13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall

BF = Boulder Field, passage through the boulder arrangement is not possible for fish

D = dry channel, no stream flow

NC = no distinct channel, water drains over land

N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season

P = Permanent, all year round

Overall Rating

Spawning: Good (gravel) **Rearing:** fair **Adult Feeding:** no (no forage) **Over-wintering:** na **Migration:** Good (no barriers)

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Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Reference C Outflow		Survey Date (d/m/y): 2-Jul-09		Coordinates:		Coordinates:	
Survey Distance (m):		Survey Crew: KE/TR		Time: 11:32		421313 7547669	
Temperature (°C): N/A		Transparency: Clear		Comments: Too much snow and ice at site/time of survey			
Channel Velocity (m/s): -		Conductivity (µS/cm): N/A					
Current Flow Conditions: Freshet		pH: N/A		Weather:			
Discharge estimate (m³/s): -							

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	C	0	200	2-3	0.40	0.75	6	8				5	20	75	-	-	-	-	-
2																			
3																			
4																			
5																			
6																			
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16																			
17																			
18																			
19																			
20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall

BF = Boulder Field, passage through the boulder arrangement is not possible for fish

D = dry channel, no stream flow

NC = no distinct channel, water drains over land

N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season
P = Permanent, all year round

Overall Rating

Spawning: Poor	Rearing: Poor	Adult Feeding: Poor	Over-wintering: N/A	Migration: Fair
- Predominately bedrock and coarse substrate	- No pools - Mainly fast flowing			- Some small, fast flowing cascades - No barriers observed

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID:		Reference C Outflow																	
Survey Date:		2-Jul-09																	
Survey Crew:		KE/TR																	
Survey Distance (m):		200																	



Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Angimajug Riv Ref		Survey Date (d/m/y): 2-Jul-09		Coordinates: 447496 7563941		Coordinates: 447753 7563970	
Survey Distance (m): 200		Survey Crew: KE/TR		Downstream		Upstream	
		Time: 9:57					
Temperature (°C): 9.5		Transparency:		Comments: Fish bearing, S1 - Large river classification			
Channel Velocity (m/s): -		Conductivity (µS/cm): 30.1					
Current Flow Conditions: -		pH: 8.4		Weather:			
Discharge estimate (m³/s): -							

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	R	0	200	2	0.50	1.50	41	137			15	25	60	10	-	-	-	-	-
2																			
3																			
4																			
5																			
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17																			
18																			
19																			
20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall
 BF = Boulder Field, passage through the boulder arrangement is not possible for fish
 D = dry channel, no stream flow
 NC = no distinct channel, water drains over land
 N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season
 P = Permanent, all year round

Overall Rating

Spawning: Good	Rearing: Good	Adult Feeding: Good	Over-wintering: N/A	Migration: Good
- Abundance of gravel substrates in side channels	- Abundance of cover for juvenile fish	- Good depth and cover for ambush predators	- Possible overwintering habitat downstream in pool	- No barriers at site
- Good amount of gravel substrates for all species	- Pool located downstream			- Good depth, wide stream channel

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

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Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Roberts Bay I/F1		Survey Date (d/m/y): Aug 1/09		Coordinates:		Coordinates:	
Survey Distance (m): 250		Survey Crew: EG/CK		Time: 432364 7563182		432354 7563181	
Temperature (°C):		Transparency: clear*		Comments:			
Channel Velocity (m/s):		Conductivity (µS/cm):		S3 - fish bearing (1.5-5m)			
Current Flow Conditions:		pH:		Weather:			
Discharge estimate (m³/s):		*turbid at mouth		warm, calm			

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	R	0	100	<5	0.20	0.40	0.3	2.5	80	10	10							N	
2																			
3																			
4																			
5																			
6																			
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20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall

BF = Boulder Field, passage through the boulder arrangement is not possible for fish

D = dry channel, no stream flow

NC = no distinct channel, water drains over land

N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season

P = Permanent, all year round

Overall Rating	
Spawning: fair	Rearing: poor
Adult Feeding: poor	Over-wintering: none
Migration: poor	

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID:		Roberts Bay I/F1													
Survey Date:		Aug 1/09													
Survey Crew:		EG/CK													
Survey Distance (m):		200													
Hab Unit No.	Banks of Channel				Instream Cover						Riparian Cover (%)			Photos (Role #) (Photo #)	
	L Bank	R Bank	L Bank	R Bank	Pool	Boulder	Instream Veg	Overhang Veg	Undercut Bank	LWD	SWD	Canopy	LB		RB
	Height (m)	Height (m)	Stab	Stab	%	%	%	%	%	%	%				
1	<1	<1	Stab	Stab	10	5	10		10						1390-1401
2															
3															
4															
5															
6															
7															
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16															
17															
18															
19															
20															
Comments:															
*dries up after this point, spots and pockets of water, but no flow.															
*photos walking away from Roberts bay (south)															
Banks of Channel (Stability): H = highly stable, S = stable, U = unstable															



Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Roberts Bay I/F2		Survey Date (d/m/y): 28-Jun-09		Coordinates:		Coordinates:	
Survey Distance (m): 200		Survey Crew: KE/TR		Time: 14:49		432000 7562700	
Temperature (°C): N/A		Transparency: N/A		Comments: NCD - No fish habitat			
Channel Velocity (m/s): -		Conductivity (µS/cm): N/A					
Current Flow Conditions: Freshet/high		pH: N/A		Weather: (no comments)			
Discharge estimate (m³/s): -							

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	O	0	200	<1	N/A		N/A									N/A		N/A	
2																			
3																			
4																			
5																			
6																			
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17																			
18																			
19																			
20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall
 BF = Boulder Field, passage through the boulder arrangement is not possible for fish
 D = dry channel, no stream flow
 NC = no distinct channel, water drains over land
 N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season
 P = Permanent, all year round

Overall Rating

Spawning: None **Rearing:** None **Adult Feeding:** None **Over-wintering:** None **Migration:** None

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

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Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Wolverine I/F		Survey Date (d/m/y): 29-Jun-09		Coordinates:		Coordinates:	
Survey Distance (m):		Survey Crew: TR/KE		Start: 435768 7543745			
		Time: 13:22					
Temperature (°C): 6				Transparency: Clear		Comments: Just a small stream, then marshland (NOT MUCH TO CHARACTERIZE)	
Channel Velocity (m/s): -		Conductivity (µS/cm): 181					
Current Flow Conditions: Fast, but not far		pH: 7.3		Weather:			
Discharge estimate (m³/s): -				Cloudy, cool and windy			

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1																			
2																			
3																			
4																			
5																			
6																			
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Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall

BF = Boulder Field, passage through the boulder arrangement is not possible for fish

D = dry channel, no stream flow

NC = no distinct channel, water drains over land

N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season
P = Permanent, all year round

Overall Rating		Spawning: None		Rearing: None		Adult Feeding: None		Over-wintering: N/A		Migration: None	
				- area is completely marsh/wetland							
				- connection to Wolverine Lake and other ponds is very poor,							
				no ability for fish to migrate between lakes in freshet							

Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID:	Wolverine I/F														
Survey Date:	20-Jun-09														
Survey Crew:	KE/TR														
Survey Distance (m):	N/A														
Hab Unit No.	Banks of Channel				Instream Cover						Riparian Cover (%)			Photos (Role #) (Photo #)	
	L Bank	R Bank	L Bank	R Bank	Pool	Boulder	Instream Veg	Overhang Veg	Undercut Bank	LWD	SWD	Canopy	LB		RB
	Height (m)	Height (m)	Stab	Stab	%	%	%	%	%	%	%				
1	N/A														
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
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17															
18															
19															
20															
Comments:															
Photos 389-391															
No Fish Habitat, NCD															
Very tiny stream flowing out of small lake south of Wolverine Lake															
Banks of Channel (Stability): H = highly stable, S = stable, U = unstable															



Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID: Wolverine O/F		Survey Date (d/m/y): 29-Jun-09		Coordinates:		Coordinates:	
Survey Distance (m):		Survey Crew: KE/TR		Time: 11:14am		434751 7547152	
Temperature (°C): 8.4		Transparency: Clear		Comments: Marshland - no fish habitat			
Channel Velocity (m/s):		Conductivity (µS/cm): 63					
Current Flow Conditions: No Flow		pH: 6.84		Weather: Windy and cloudy			
Discharge estimate (m³/s):							

Hab Unit No.	Hab Type	Dist. fr start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material						Pool Info			Fish Passage Barriers	
					Mean	Bank-full	Mean	Bank-full	Fines (%)	Sand (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Flow Conditions: H = High flow, M = Medium flow, L = Low flow

Habitat Unit: Under bankfull conditions: 0 - 2.5 m = > 1 m², 2.5 - 5 m = > 2 m², 5 - 10 m = > 4 m², 10 - 15 m = > 6 m², 15 - 20 m = > 8 m², > 20 m = > 10 m²

Hab Type: P = pool, G = glide, R = riffle, C = cascade, O = other

Dist. fr start: distance from beginning of the survey to the beginning of the habitat unit being surveyed

Pool Type: S = scour, D = dammed, U = unknown

Substrate: Sand (silt, clay, fine organic < 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256 mm), Boulders (256 - 4000 mm), Bedrock (>4000 mm)

Fish Passage Barriers: IF = Impassible waterfall

BF = Boulder Field, passage through the boulder arrangement is not possible for fish

D = dry channel, no stream flow

NC = no distinct channel, water drains over land

N = no barrier to fish passage through the habitat unit

T/P: T = temporary, portion of open water season

P = Permanent, all year round

Overall Rating		Spawning: None		Rearing: None		Adult Feeding: None		Over-wintering: N/A		Migration: None	
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Appendix 3.1-3. Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets and Site Photographs, Hope Bay Belt Project, 2009

Station ID:	Wolverine O/F														
Survey Date:	29-Jun-09														
Survey Crew:	TR/KE														
Survey Distance (m):	N/A														
Hab Unit No.	Banks of Channel				Instream Cover							Riparian Cover (%)			Photos (Role #) (Photo #)
	L Bank	R Bank	L Bank	R Bank	Pool	Boulder	Instream Veg	Overhang Veg	Undercut Bank	LWD	SWD	Cover (%)			
	Height (m)	Height (m)	Stab	Stab	%	%	%	%	%	%	%	Canopy	LB	RB	
1	N/A														
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
Comments:															
Photos 386-388															
Entire area is NCD - no fish habitat															
Overall habitat quality = no fish habitat															
Stream is likely ephemeral and dry in summer															
Banks of Channel (Stability): H = highly stable, S = stable, U = unstable															



Appendix 3.1-4

Summary of Detailed Fish Habitat Assessment Data for
Streams, Hope Bay Belt Project, 2009

Appendix 3.1-4. Summary of Detailed Fish Habitat Assessment Data for Streams, Hope Bay Belt Project, 2009

Watershed	Receiving Environment																
	Doris																
Site ID	Doris O/F1	Doris O/F2	Doris O/F3	Doris I/F1	Doris I/F2	Doris I/F3	P.O. O/F1	P.O. O/F2 (1)	P.O. O/F2 (2)	P.O. I/F1	P.O. I/F2	Ogama O/F1	Ogama O/F2	Ogama O/F3	Patch O/F	Patch O/F	Patch I/F
Date Surveyed	27-Jun-09	29-Jul-09	28-Jul-09	30-Jun-09	28-Jun-09	28-Jun-09	27-Jun-09	29-Jun-09	26-Jul-09	30-Jun-09	30-Jun-09	27-Jun-09	29-Jul-09	29-Jul-09	29-Jun-09	27-Jul-09	30-Jun-09
Length of stream surveyed	200	200	400	200	200	200	200	50	45	200	200	200	257	200	125	305	200
Total number of habitat units	2	1	4	1	1	1	5	1	1	5	7	3	9	1	1	2	9
Number of pools	0	0	1	0	0	0	1	0	0	2	3	0	4	0	0	1	5
Number of glides	1	0	1	1	0	1	1	1	1	2	4	2	0	0	1	0	2
Number of riffles	1	1	2	0	0	0	2	1	0	1	0	1	5	1	0	1	2
Number of cascades	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Number of Other	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Mean habitat unit length	100	200	100	200	0	200	40	50	45	40	29	67	29	200	125	153	22
Mean pool length	0	0	10	0	0	0	10	0	0	23	19	0	13	0	0	55	8
Mean glide length	150	0	100	200	0	200	149	50	45	65	36	93	0	0	125	0	6
Mean riffle length	50	200	145	0	0	0	16	0	0	25	0	15	41	200	0	250	74
Mean cascade length	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
Mean Other length	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0
Wetted area surveyed (%)																	
Pool	0	0	6	0	0	0	3	0	0	19	41	0	64	0	0	67	45
Glide	79	0	30	100	0	200	83	100	100	68	59	96	0	0	100	0	6
Riffle	21	100	64	0	0	0	11	0	0	13	0	4	36	100	0	33	50
Cascade	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
Gradient	1.4	5.0	5.0	1.5	1.0	1.5	1.2	1.5	0.0	1.4	1.4	1.5	1.2	4.0	1.5	2.8	1.4
Wetted depth	0.6	0.5	1.3	0.2	0.2	0.3	0.9	1.0	0.8	0.7	1.0	1.1	1.0	0.3	0.5	2.1	0.6
Bankfull depth	0.8	1.2	5.0	0.3	0.3	0.3	1.1	1.2	1.3	0.8	1.1	1.3	2.2	1.5	0.5	1.3	0.8
Wetted width	11.0	1.5	2.1	1.5	0.3	0.8	17.8	25.0	1.2	11.4	10.6	12.2	3.3	1.5	10.5	3.2	1.8
Bankfull width	15.2	3.5	4.5	1.8	0.3	0.8	17.9	28.0	1.3	14.7	12.5	12.2	5.7	4.0	14.0	9.6	1.9
Fine substrate	67	25	56	100	100	100	34	95	100	100	100	49	47	20	75	92	100
Gravel substrate	19	35	10	0	0	0	56	0	0	0	0	0	22	25	10	7	0
Cobble substrate	11	25	7	0	0	0	0	0	0	0	0	50	13	25	5	2	0
Boulder substrate	2	10	20	0	0	0	10	5	0	0	0	1	13	20	10	0	0
Bedrock substrate	0	5	7	0	0	0	0	0	0	0	0	0	5	10	0	0	0
Maximum pool depth			1.5				1.5			2.0	2.0		1.9	>1.5			1.3
Pool crest depth			-				0.8			0.4	0.3						0.4
Pool cover	0	5	6	0	0	0	1	0	100	0	0	0	16	5	0	75	18
Boulder cover	2	10	10	0	0	0	5	0	0	0	0	0	0	8	10	0	0
Instream vegetation cover	12	5	0	100	100	100	9	90	0	98	100	30	5	35	50	15	64
Overhanging vegetation cover	11	0	10	0	0	0	18	0	0	0	0	17	3	0	5	0	10
Undercut bank cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large woody debris cover	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small woody debris cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	30	20	26	100	100	100	33	90	100	98	100	48	24	48	65	90	92
Left bank height	0.8	0.8	1.5	0.3	0.2	0.3	4.8	1.2	0.8	0.9	0.9	1.2	0.0	>1	0.5	0.5	0.5
Right bank height	0.8	0.8	1.5	0.3	0.2	0.3	4.8	1.2	0.8	0.9	0.9	1.2	0.0	>1	0.5	0.8	0.5
Left bank stability	0.1	0.5	0.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	1.0	0.4	1.0
Right bank stability	0.5	0.5	0.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	1.0	0.4	1.0

Dashes indicate data were not collected.

Highly stable (H) = 1.0, Stable (S) = 0.5, Unstable (U) = 0.0.

Appendix 3.1-4. Summary of Detailed Fish Habitat Assessment Data for Streams, Hope Bay Belt Project, 2009

Appendix D - Summary of Bedrock Fish Habitat Assessment Data for Streams, Hope Bay, 2017-2020													
Watershed	Receiving Environment											Roberts Bay	
	Site ID	Koignuk D/S (1)	Koignuk D/S (2)	Koignuk M/S	Koignuk M/S	Glenn O/F1	Glenn O/F1	Glenn O/F2	Glenn I/F	Windy O/F1	Windy O/F1	Windy I/F	Roberts Bay I/F1
Date Surveyed	28-Jun-09	5-Aug-09	29-Jun-09	6-Aug-09	28-Jun-09	31-Jul-09	28-Jun-09	1-Jul-09	28-Jun-09	28-Jul-09	2-Jul-09	1-Aug-09	28-Jun-09
Length of stream surveyed	207	420	200	558	200	760	200	195	189.2	300	199	100	200
Total number of habitat units	3	5	1	4	1	5	1	7	5	1	2	1	1
Number of pools	0	1	0	2	0	1	0	0	1	0	0	0	0
Number of glides	1	2	1	0	0	0	1	4	2	1	0	0	0
Number of riffles	1	1	0	2	0	4	0	3	2	0	0	1	0
Number of cascades	1	0	0	0	0	0	0	0	0	0	0	0	0
Number of Other	0	1	0	0	1	0	0	0	0	0	2	0	1
Mean habitat unit length	69	84	200	140	200	152	200	28	38	300	100	100	200
Mean pool length	0	5	0	0	0	10	0	0	8	0	0	0	0
Mean glide length	140	80	200	275	0	0	200	330	50	300	0	0	0
Mean riffle length	26	250	0	4	0	188	0	5	41	0	0	1	0
Mean cascade length	41	0	0	0	0	0	0	0	0	0	0	0	0
Mean Other length	0	5	0	0	200	0	0	0	0	0	100	0	1
Wetted area surveyed (%)													
Pool	0	0	0	0	0	3	0	0	6	0	0	0	0
Glide	77	31	100	100	0	0	100	99	57	100	0	0	0
Riffle	12	69	0	0	0	97	0	1	37	0	0	100	0
Cascade	11	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	100	0	0	0	0	0	100	0	1
Gradient	1.8	0.0	1.5	0.1	0.8	0.5	1.5	1.1	1.3	0.0	1.0	4	1
Wetted depth	2.2	0.3	-	1.2	1.2	0.4	0.8	0.2	0.6	0.8	0.2	0.2	-
Bankfull depth	-	0.6	-	2.6	1.5	1.4	1.1	0.4	0.8	1.5	0.3	0.4	-
Wetted width	62.4	25.9	80.0	24.7	-	3.3	3.0	6.8	6.3	2.0	1.8	0.3	-
Bankfull width	68.2	44.0	80.0	56.6	-	5.1	8.0	9.2	9.2	4.5	13.6	2.5	-
Fine substrate	0	89	100	76	90	76	100	100	71	100	100	90	-
Gravel substrate	0	0	0	0	5	6	0	0	12	0	0	10	-
Cobble substrate	8	5	0	5	5	12	0	0	10	0	0	0	-
Boulder substrate	8	5	0	13	0	7	0	0	7	0	0	0	-
Bedrock substrate	85	0	0	6	0	0	0	0	0	0	0	0	-
Maximum pool depth						-		-	1.5		-		
Pool crest depth						-		-	0.4		-		
Pool cover	0	0	0	-	0	3	0	0	0	0	0	10	-
Boulder cover	11	10	0	-	0	0	0	0	7	0	0	5	-
Instream vegetation cover	0	0	0	-	0	0	10	7	2	90	100	10	-
Overhanging vegetation cover	0	0	1	-	0	0	0	0	69	0	0	0	-
Undercut bank cover	0	0	0	-	5	0	10	0	0	0	0	10	-
Large woody debris cover	0	0	0	-	0	0	0	0	0	0	0	0	-
Small woody debris cover	0	0	0	-	0	0	0	0	0	0	0	0	-
Total	11	10	1		5	3	20	7	78	90	100	35	-
Left bank height	-	-	-	-	1.5	1.5	1.05	0.3	0.8	0.5	0.2	0.8	1.0
Right bank height	-	-	-	-	1.5	1.5	1.05	0.3	0.8	0.5	0.2	0.8	-
Left bank stability	1.0	-	0.0	-	0	0.5	1	1.0	1.0	0.5	1.0	0.5	-
Right bank stability	1.0	-	1.0	-	0	0.5	1	1.0	1.0	0.5	1.0	0.5	-

Appendix 3.1-4. Summary of Detailed Fish Habitat Assessment Data for Streams, Hope Bay Belt Project, 2009

Watershed	Reference Environment				
	Roberts Bay		Angimajug South Tributary		
Site ID	Ref A O/F left	Ref A O/F right	Ref B O/F	Ref B O/F	Angimajug Riv Ref
Date Surveyed	28-Jul-09	28-Jul-09	29-Jun-09	26-Jul-09	2-Jul-09
Length of stream surveyed	67.5	65	200	269	200
Total number of habitat units	6	3	5	7	1
Number of pools	1	1	1	1	0
Number of glides	0	0	1	1	0
Number of riffles	4	2	2	4	1
Number of cascades	1	0	1	1	0
Number of Other	0	0	0	0	0
Mean habitat unit length	11	22	40	38	200
Mean pool length	3	4	25	5	0
Mean glide length	0	0	44	20	0
Mean riffle length	16	31	50	60	1
Mean cascade length	3	0	0	5	0
Mean Other length	0	0	0	0	0
Wetted area surveyed (%)					
Pool	1	13	7	0	0
Glide	0	0	26	5	0
Riffle	96	87	56	95	100
Cascade	2	0	11	0	0
Other	0	0	0	0	0
Gradient	11.24074074	10	1.4875	3.5	2
Wetted depth	0.1	0.2	0.4	0.2	0.5
Bankfull depth	0.3	0.3	0.6	-	1.5
Wetted width	6.1	1.4	43.9	24.0	41.0
Bankfull width	14.3	4.3	45.0	35.9	137.0
Fine substrate	0	0	0	1	0
Gravel substrate	1	0	0	7	10
Cobble substrate	10	24	33	8	25
Boulder substrate	67	65	52	45	60
Bedrock substrate	23	10	15	39	5
Maximum pool depth			1.5	-	-
Pool crest depth			0.5	-	-
Pool cover	1	13	3	0	0
Boulder cover	75	73	55	22	60
Instream vegetation cover	0	0	0	2	0
Overhanging vegetation cover	0	0	0	0	0
Undercut bank cover	0	0	0	0	0
Large woody debris cover	0	0	0	0	0
Small woody debris cover	0	0	0	0	0
Total	76	86	57	25	60
Left bank height	0.8	0.8	0.6	0.2	0.8
Right bank height	0.8	0.8	0.6	0.2	0.8
Left bank stability	0.5	0.5	1.0	0.5	1.0
Right bank stability	0.5	0.5	1.0	0.5	0.0

Appendix 3.2-1

Biological Data for Fish Sampled from Lakes, Hope Bay
Belt Project, 2009

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	7-Aug	1	LKWH	GN	402	610	0.9	12	—	—	—	Y	Y	—	—	—	—	PIT tag not recorded, too large for scale
Doris Lake	Doris	7-Aug	2	LKWH	GN	532	3,100	2.1	unable to age > 20 years	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	3	LKWH	GN	448	880	1.0	17	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	4	LKWH	GN	427	885	1.1	14	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	5	LKWH	GN	408	615	0.9	12	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	6	LKWH	GN	487	2,050	1.8	38	2	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	7	LKWH	GN	438	1,400	1.7	31	2	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	8	LKWH	GN	392	1,000	1.7	18	1	1	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	9	LKWH	GN	412	1,150	1.6	20	1	1	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	10	LKWH	GN	390	900	1.5	21	2	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	11	LCIS	GN	169	21	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	12	LCIS	GN	174	21	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	13	LCIS	GN	191	31	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	14	LCIS	GN	191	25	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	15	LCIS	GN	174	19	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	16	LCIS	GN	172	17	0.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	17	LCIS	GN	173	22	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	18	LCIS	GN	183	25	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	19	LCIS	GN	171	20	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	20	LKTR	GN	664	2,500	0.9	28	—	—	—	Y	Y	—	—	—	5751	
Doris Lake	Doris	9-Aug	21	LKTR	GN	708	—	—	16	—	—	—	Y	Y	—	—	—	—	too large for scale
Doris Lake	Doris	9-Aug	22	LKTR	GN	635	—	—	19	—	—	—	Y	Y	—	—	—	9014	
Doris Lake	Doris	9-Aug	23	LKTR	GN	892	—	—	28	—	—	—	Y	Y	—	—	—	69761	
Doris Lake	Doris	9-Aug	24	LKWH	GN	453	1,150	1.2	17	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	25	LKWH	GN	462	1,550	1.6	24	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	26	LKWH	GN	432	980	1.2	12	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	27	LKWH	GN	372	650	1.3	8	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	28	LKWH	GN	409	760	1.1	10	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	29	LKWH	GN	388	650	1.1	10	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	30	LKWH	GN	404	1,000	1.5	14	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	31	LKWH	GN	414	980	1.4	14	—	—	—	Y	Y	—	—	—	—	no tag
Doris Lake	Doris	9-Aug	32	LCIS	GN	298	12	0.0	17	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	33	LCIS	GN	282	173	0.8	9	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	34	LCIS	GN	309	204	0.7	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	35	LCIS	GN	259	96	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	36	LCIS	GN	208	52	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	37	LCIS	GN	222	90	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	38	LCIS	GN	270	125	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	39	LCIS	GN	240	100	0.7	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	40	LCIS	GN	200	51	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	41	LCIS	GN	190	28	0.4	—	—	—	—	—	—	—	—	—	—	no tag
Doris Lake	Doris	9-Aug	42	LCIS	GN	260	132	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	43	LCIS	GN	280	126	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	44	LCIS	GN	202	46	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	45	LCIS	GN	173	21	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	9-Aug	46	LCIS	GN	172	20	0.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	7-Aug	47	LKWH	GN	402	610	0.9	—	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	48	LKWH	GN	532	3,100	2.1	—	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	49	LKWH	GN	448	880	1.0	—	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	50	LKWH	GN	427	885	1.1	—	—	—	—	Y	Y	—	—	—	—	no tag
Doris Lake	Doris	7-Aug	51	LKWH	GN	408	615	0.9	—	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	52	LKWH	GN	487	2,050	1.8	—	2	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	53	LKWH	GN	438	1,400	1.7	—	2	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	54	LKWH	GN	392	1,000	1.7	—	1	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	55	LKWH	GN	412	1,150	1.6	—	1	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	7-Aug	56	LKWH	GN	390	900	1.5	—	2	2	Y	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	57	LKTR	GN	664	2,500	0.9	—	—	—	—	Y	Y	—	—	—	5751	
Doris Lake	Doris	9-Aug	58	LKTR	GN	708	—	—	—	—	—	—	Y	Y	—	—	—	—	
Doris Lake	Doris	9-Aug	59	LKTR	GN	635	—	—	—	—	—	—	Y	Y	—	—	—	90145	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	9-Aug	60	LKTR	GN	892	-	-	-	-	-	-	Y	Y	-	-	-	69761	
Doris Lake	Doris	9-Aug	61	LKWH	GN	453	1,150	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	62	LKWH	GN	462	1,550	1.6	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	63	LKWH	GN	432	980	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	64	LKWH	GN	372	650	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	65	LKWH	GN	409	760	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	66	LKWH	GN	388	650	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	67	LKWH	GN	404	1,000	1.5	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	9-Aug	68	LKWH	GN	414	980	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	69	LKWH	GN	382	1,000	1.8	-	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	70	LKWH	GN	345	420	1.0	-	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	71	LCIS	GN	258	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	72	LCIS	GN	238	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	73	LCIS	GN	250	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	74	LCIS	GN	258	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	75	LCIS	GN	271	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	76	LCIS	GN	242	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	77	LCIS	GN	285	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	78	LKWH	GN	402	760	1.2	14	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	79	LKWH	GN	420	910	1.2	12	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	80	LCIS	GN	275	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	81	LCIS	GN	257	-	-	-	-	-	-	-	-	-	-	-	-	cisco not weighed
Doris Lake	Doris	15-Aug	82	LKWH	GN	347	480	1.1	10	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	83	LKWH	GN	402	820	1.3	12	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	84	LKWH	GN	281	210	0.9	10	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	85	LKWH	GN	375	640	1.2	11	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	86	LKWH	GN	317	320	1.0	7	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	87	LKWH	GN	290	240	1.0	10	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	88	LCIS	GN	282	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	89	LCIS	GN	282	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	90	LKTR	GN	605	2,750	1.2	14	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	91	LKTR	GN	712	-	-	35	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	92	LKTR	GN	595	2,000	0.9	14	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	93	LKTR	GN	697	-	-	25	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	94	LKWH	GN	458	1,090	1.1	23	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	95	LKWH	GN	425	850	1.1	23	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	96	LCIS	GN	107	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	97	LKWH	GN	316	340	1.1	15	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	98	LCIS	GN	268	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	99	LCIS	GN	244	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	100	LCIS	GN	257	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	101	LCIS	GN	247	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	102	LCIS	GN	247	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	103	LCIS	GN	160	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	104	LCIS	GN	227	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	105	LCIS	GN	133	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	106	LCIS	GN	147	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	107	LKWH	GN	484	2,450	2.2	-	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	108	LKWH	GN	478	2,100	1.9	-	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	109	LKTR	GN	790	-	-	27	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	110	LKTR	GN	690	-	-	19	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	15-Aug	111	LKWH	GN	363	560	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	112	LCIS	GN	255	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	113	LKWH	GN	425	1,060	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	114	LKWH	GN	425	920	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	115	LCIS	GN	281	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	116	LCIS	GN	288	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	117	LCIS	GN	255	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	118	LCIS	GN	295	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	119	LCIS	GN	264	-	-	-	-	-	-	-	-	-	-	-	-	

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Tag: Y = yellow, O = orange
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Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	15-Aug	120	LCIS	GN	246	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	121	LCIS	GN	265	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	122	LCIS	GN	286	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	123	LCIS	GN	263	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	124	LCIS	GN	282	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	125	LCIS	GN	310	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	126	LCIS	GN	270	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	127	LCIS	GN	260	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	128	LCIS	GN	281	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	129	LCIS	GN	244	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	130	LCIS	GN	277	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	131	LCIS	GN	114	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	132	LCIS	GN	123	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	15-Aug	133	LCIS	GN	124	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	134	LKTR	GN	825	-	-	-	-	-	-	-	-	-	-	-	-	Golder green tag, uable to read number
Doris Lake	Doris	16-Aug	135	LKWH	GN	403	870	1.3	18	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	136	LKWH	GN	412	900	1.3	14	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	137	LKWH	GN	466	1,420	1.4	17	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	138	LCIS	GN	283	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	139	LCIS	GN	283	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	140	LCIS	GN	221	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	141	LCIS	GN	264	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	142	LCIS	GN	265	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	143	LKWH	GN	392	730	1.2	14	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	144	LKWH	GN	432	1,000	1.2	20	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	145	LKWH	GN	266	580	3.1	10	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	146	LCIS	GN	260	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	147	LKWH	GN	258	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	148	LCIS	GN	286	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	149	LCIS	GN	136	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	150	LCIS	GN	220	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	151	LCIS	GN	140	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	152	LKWH	GN	468	1,560	1.5	22	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	153	LKWH	GN	500	1,960	1.6	35	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	154	LKWH	GN	394	760	1.2	13	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	155	LCIS	GN	230	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	156	LCIS	GN	128	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	157	LCIS	GN	230	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	158	LKWH	GN	233	-	-	5	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	159	LCIS	GN	162	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	160	LCIS	GN	172	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	161	LCIS	GN	155	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	162	LKWH	GN	398	850	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	163	LKWH	GN	388	660	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	164	LKWH	GN	444	1,020	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	165	LKWH	GN	432	830	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	166	LKWH	GN	400	730	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	167	LKWH	GN	392	780	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	168	LCIS	GN	298	220	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	169	LCIS	GN	280	230	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	170	LCIS	GN	288	230	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	171	LCIS	GN	280	190	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	172	LCIS	GN	253	120	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	173	LKWH	GN	381	670	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	174	LKTR	GN	646	-	-	34	-	-	-	-	-	-	-	-	Y-25	
Doris Lake	Doris	16-Aug	175	LKTR	GN	782	-	-	22	-	-	-	-	-	-	-	-	Y-24	
Doris Lake	Doris	16-Aug	176	LCIS	GN	-	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	177	LKTR	GN	602	2,800	1.3	14	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	16-Aug	178	LKWH	GN	365	630	1.3	-	-	-	-	-	-	-	-	-	-	

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Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	16-Aug	179	LKWH	GN	379	700	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	180	LKWH	GN	391	800	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	181	LKWH	GN	400	820	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	182	LKWH	GN	354	560	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	183	LKWH	GN	405	880	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	184	LKWH	GN	382	710	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	185	LKWH	GN	500	1,640	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	186	LKWH	GN	404	830	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	187	LKWH	GN	355	530	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	188	LKWH	GN	398	810	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	189	LKWH	GN	385	710	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	190	LKWH	GN	412	990	1.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	191	LKWH	GN	435	800	1.0	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	192	LKWH	GN	352	610	1.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	193	LKWH	GN	363	620	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	194	LKWH	GN	342	480	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	195	LKWH	GN	459	1,280	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	16-Aug	196	LKTR	GN	542	—	—	10	—	—	—	—	—	—	—	Y-22	—	
Doris Lake	Doris	17-Aug	197	LKWH	GN	417	840	1.2	18	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	198	LKWH	GN	386	690	1.2	11	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	199	LKWH	GN	500	1,760	1.4	33	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	200	LKWH	GN	350	520	1.2	9	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	201	LKWH	GN	328	390	1.1	8	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	202	LKTR	GN	764	5,650	1.3	33	—	—	—	—	—	—	—	Y-21	—	
Doris Lake	Doris	17-Aug	203	LKTR	GN	664	2,700	0.9	19	—	—	—	—	—	—	—	Y-20	—	
Doris Lake	Doris	17-Aug	204	LKWH	GN	318	—	—	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	205	LKWH	GN	422	900	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	206	LKWH	GN	398	840	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	207	LKWH	GN	405	840	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	208	LKWH	GN	410	940	1.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	209	LKWH	GN	394	750	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	210	LKWH	GN	386	730	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	211	LKWH	GN	471	1,700	1.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	212	LKWH	GN	426	1,040	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	213	LKTR	GN	714	3,150	0.9	25	—	—	—	—	—	—	—	Y-19	—	
Doris Lake	Doris	17-Aug	214	LKTR	GN	794	5,425	1.1	unable to age > 20 yrs	—	—	—	—	—	—	—	Y-18	71888	
Doris Lake	Doris	17-Aug	215	LKWH	GN	426	940	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	216	LKWH	GN	378	660	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	217	LKWH	GN	336	440	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	218	LKWH	GN	392	740	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	219	LKWH	GN	330	440	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	220	LKTR	GN	629	2,625	1.1	18	—	—	—	—	—	—	—	Y-17	—	
Doris Lake	Doris	17-Aug	221	LKTR	GN	723	2,950	0.8	unable to age > 25 yrs	—	—	—	—	—	—	—	Y-16	—	
Doris Lake	Doris	17-Aug	222	LKTR	GN	530	1,800	1.2	8	—	—	—	—	—	—	—	Y-15	—	
Doris Lake	Doris	17-Aug	223	LKWH	GN	428	980	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	224	LKWH	GN	389	760	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	225	LKWH	GN	394	830	1.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	226	LKWH	GN	413	880	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	227	LKWH	GN	410	940	1.4	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	228	LKWH	GN	391	800	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	229	LKWH	GN	375	660	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	230	LKWH	GN	472	1,380	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	231	LKWH	GN	444	1,120	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	232	LKWH	GN	450	1,000	1.1	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	233	LKWH	GN	375	640	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	234	LKTR	GN	848	6,400	1.0	25	—	—	—	—	—	—	—	Y-14	—	
Doris Lake	Doris	17-Aug	235	LKTR	GN	698	3,750	1.1	unable to age > 20 yrs	—	—	—	—	—	—	—	Y-13	—	
Doris Lake	Doris	17-Aug	236	LKTR	GN	720	4,325	1.2	22	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	17-Aug	237	LKTR	GN	640	2,650	1.0	—	—	—	—	—	—	—	—	Y-12	—	
Doris Lake	Doris	18-Aug	238	LKWH	GN	438	380	0.5	8	—	—	—	—	—	—	—	—	—	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	18-Aug	239	LKWH	GN	424	980	1.3	18	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	240	LCIS	GN	172	46	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	241	LCIS	GN	188	62	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	242	LKWH	GN	388	780	1.3	10	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	243	LKWH	GN	390	720	1.2	11	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	244	LKWH	GN	379	780	1.4	12	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	245	LKWH	GN	456	1,280	1.3	25	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	246	LKWH	GN	407	820	1.2	12	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	247	LCIS	GN	272	-	-	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	248	LKWH	GN	432	1,070	1.3	18	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	249	LKWH	GN	411	850	1.2	12	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	250	LKWH	GN	400	820	1.3	17	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	251	LKWH	GN	388	720	1.2	13	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	252	LKWH	GN	424	920	1.2	17	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	253	LKWH	GN	335	420	1.1	9	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	254	LKWH	GN	402	780	1.2	12	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	255	LKTR	GN	801	550	0.1	26	-	-	-	-	-	-	-	Y-11	9433	
Doris Lake	Doris	18-Aug	256	LKWH	GN	525	2,600	1.8	27	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	257	LKWH	GN	396	760	1.2	12	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	258	LKWH	GN	381	700	1.3	10	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	259	LKWH	GN	346	540	1.3	10	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	260	LCIS	GN	271	140	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	261	LCIS	GN	292	220	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	262	LCIS	GN	260	140	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	263	LCIS	GN	130	18	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	264	LCIS	GN	149	31	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	265	LCIS	GN	127	18	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	266	LCIS	GN	162	41	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	267	LCIS	GN	129	21	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	268	LCIS	GN	151	44	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	269	LCIS	GN	165	46	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	270	LCIS	GN	130	19	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	271	LCIS	GN	132	23	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	272	LCIS	GN	117	15	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	273	LCIS	GN	134	23	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	274	LCIS	GN	132	21	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	275	LCIS	GN	266	160	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	276	LCIS	GN	236	131	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	277	LCIS	GN	266	210	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	278	LCIS	GN	175	49	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	279	LCIS	GN	176	240	4.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	280	LKWH	GN	320	340	1.0	8	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	281	LKTR	GN	663	2,600	0.9	22	-	-	-	-	-	-	-	Y-007	107783	
Doris Lake	Doris	18-Aug	282	LKWH	GN	399	800	1.3	13	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	283	LKWH	GN	400	880	1.4	12	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	284	LCIS	GN	130	19	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	285	LCIS	GN	60	36	16.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	286	LCIS	GN	120	20	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	287	LCIS	GN	271	170	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	288	LCIS	GN	242	147	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	289	LCIS	GN	290	272	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	290	LCIS	GN	246	144	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	291	LCIS	GN	133	23	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	292	LCIS	GN	127	21	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	293	LCIS	GN	275	214	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	294	LKTR	GN	631	2,850	1.1	26	-	-	-	-	-	-	-	Y-006	66525	
Doris Lake	Doris	18-Aug	295	LCIS	GN	267	198	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	296	LKWH	GN	401	830	1.3	14	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	297	LKWH	GN	428	920	1.2	21	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	298	LKWH	GN	395	750	1.2	13	-	-	-	-	-	-	-	-	-	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	18-Aug	299	LKWH	GN	338	440	1.1	8	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	300	LKWH	GN	335	600	1.6	10	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	301	LKWH	GN	311	310	1.0	8	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	302	LKTR	GN	790	440	0.1	28	-	-	-	-	-	-	-	Y-005	106397	
Doris Lake	Doris	18-Aug	303	LKTR	GN	692	440	0.1	unable to age > 20 yrs	-	-	-	-	-	-	-	Y-003	106457	
Doris Lake	Doris	18-Aug	304	LKTR	GN	355	480	1.1	14	-	-	-	-	-	-	-	Y-003	111960	
Doris Lake	Doris	18-Aug	305	LKTR	GN	791	4,800	1.0	19	-	-	-	-	-	-	-	-	-	recap of tag #018, PIT 71888
Doris Lake	Doris	18-Aug	306	LKTR	GN	713	3,500	1.0	8	-	-	-	-	-	-	-	-	-	recap of Golder tag #051, PIT 066654
Doris Lake	Doris	18-Aug	307	LKWH	GN	304	331	1.2	20	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	308	LKWH	GN	444	1,169	1.3	11	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	309	LKWH	GN	383	636	1.1	7	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	310	LKWH	GN	337	458	1.2	8	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	311	LKWH	GN	321	392	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	312	LKWH	GN	92	12	1.5	39	-	-	-	-	-	-	-	-	-	juvenile photo 3411
Doris Lake	Doris	18-Aug	313	LKTR	GN	830	1,200	1.1	13	-	-	-	-	-	-	-	Y-010	67775	
Doris Lake	Doris	18-Aug	314	LKWH	GN	329	445	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	315	LKWH	GN	341	504	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	316	LCIS	GN	243	140	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	317	LCIS	GN	271	222	1.1	10	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	318	LCIS	GN	295	270	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	319	LCIS	GN	272	199	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	320	LCIS	GN	274	199	1.0	-	-	-	-	-	-	-	-	-	-	photo 3416, 3415, 3414, 3417. Fish may have been sampled in previous studies. Stomach content - large cisco
Doris Lake	Doris	18-Aug	321	LKTR	GN	791	5,750	1.2	unable to age > 25 yrs	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	322	LKTR	GN	685	3,400	1.1	20	-	-	-	-	-	-	-	Y-008	108639	
Doris Lake	Doris	18-Aug	323	LCIS	GN	234	104	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	324	LCIS	GN	190	69	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	325	LCIS	GN	124	13	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	326	LCIS	GN	99	7	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	327	LCIS	GN	100	9	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	328	LCIS	GN	232	195	1.6	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	329	LCIS	GN	87	6	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	330	LCIS	GN	131	18	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	331	LCIS	GN	132	19	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	332	LCIS	GN	128	16	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	333	LCIS	GN	124	15	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	18-Aug	334	LCIS	GN	125	17	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	335	LKWH	GN	521	1,682	1.2	unable to age > 20 yrs	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	336	LKWH	GN	455	1,111	1.2	unable to age > 15 yrs	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	337	LKWH	GN	503	1,933	1.5	33	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	338	LKWH	GN	466	1,423	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	339	LKWH	GN	487	1,474	1.3	28	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	340	LKWH	GN	422	943	1.3	15	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	341	LKWH	GN	402	875	1.3	13	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	342	LKWH	GN	369	616	1.2	10	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	343	LKWH	GN	401	870	1.3	17	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	344	LKWH	GN	395	841	1.4	12	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	345	LKWH	GN	438	1,205	1.4	17	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	346	LKWH	GN	392	768	1.3	11	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	347	LKWH	GN	347	486	1.2	9	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	348	LKWH	GN	330	435	1.2	8	-	-	-	Y	Y	-	-	-	-	
Doris Lake	Doris	19-Aug	349	LCIS	GN	274	199	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	350	LCIS	GN	259	160	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	351	LCIS	GN	267	215	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	352	LCIS	GN	246	161	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	353	LCIS	GN	279	254	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	354	LCIS	GN	243	145	1.0	-	-	-	-	-	-	-	-	-	-	

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 Y = aging structure collected
 Tag: Y = yellow, O = orange
 Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	19-Aug	355	LCIS	GN	199	72	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	356	LCIS	GN	210	102	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	357	LCIS	GN	155	46	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	358	LCIS	GN	156	37	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	359	LCIS	GN	149	31	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	360	LCIS	GN	134	21	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	361	LCIS	GN	125	18	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	362	LCIS	GN	130	22	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	363	LCIS	GN	137	20	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	364	LKWH	GN	430	1,030	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	365	LKWH	GN	395	835	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	366	LKWH	GN	440	1,205	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	367	LCIS	GN	290	283	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	368	LCIS	GN	273	239	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	369	LCIS	GN	266	227	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	370	LCIS	GN	302	272	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	371	LCIS	GN	304	303	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	372	LCIS	GN	293	285	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	373	LCIS	GN	284	255	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	374	LCIS	GN	262	208	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	375	LCIS	GN	260	181	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	376	LCIS	GN	284	219	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	377	LCIS	GN	125	20	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	378	LCIS	GN	140	22	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	379	LCIS	GN	143	27	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	380	LCIS	GN	133	19	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	381	LCIS	GN	131	18	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	382	LCIS	GN	126	20	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	383	LKTR	GN	539	1,474	0.9	14	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	384	LKTR	GN	685	3,166	1.0	22	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	385	LKTR	GN	680	2,337	0.7	18	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	386	LKWH	GN	502	1,996	1.6	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	387	LKWH	GN	421	1,040	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	388	LKWH	GN	415	932	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	389	LKWH	GN	398	826	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	390	LKWH	GN	370	685	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	391	LKWH	GN	435	1,062	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	392	LKWH	GN	381	681	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	393	LCIS	GN	295	284	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	394	LCIS	GN	259	185	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	395	LCIS	GN	281	249	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	396	LCIS	GN	230	124	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	397	LCIS	GN	296	261	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	398	LCIS	GN	283	261	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	399	LCIS	GN	295	252	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	400	LCIS	GN	281	233	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	401	LCIS	GN	256	153	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	402	LCIS	GN	268	192	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	403	LCIS	GN	237	132	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	404	LCIS	GN	208	85	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	405	LCIS	GN	229	121	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	406	LCIS	GN	130	17	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	407	LCIS	GN	154	32	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	408	LCIS	GN	192	65	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	409	LCIS	GN	141	24	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	410	LCIS	GN	144	25	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	411	LCIS	GN	133	22	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	412	LCIS	GN	127	22	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	413	LCIS	GN	139	21	0.8	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	414	LCIS	GN	128	23	1.1	-	-	-	-	-	-	-	-	-	-	

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Y = aging structure collected
Tag: Y = yellow, O = orange
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Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	19-Aug	415	LCIS	GN	143	25	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	416	LCIS	GN	127	19	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	417	LCIS	GN	234	135	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	418	LCIS	GN	160	37	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	419	LCIS	GN	127	20	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	420	LCIS	GN	124	14	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	421	LCIS	GN	137	25	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	422	LKTR	GN	431	776	1.0	11	-	-	-	-	-	-	-	Y-100	111179	
Doris Lake	Doris	19-Aug	423	LKWH	GN	406	869	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	424	LKWH	GN	400	876	1.4	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	425	LCIS	GN	285	234	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	426	LCIS	GN	235	133	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	427	LCIS	GN	241	174	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	428	LCIS	GN	225	118	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	429	LCIS	GN	231	142	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	430	LCIS	GN	199	78	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	431	LCIS	GN	165	45	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	432	LCIS	GN	168	44	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	433	LCIS	GN	149	32	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	434	LKTR	GN	426	819	1.1	12	2	1	Y	Y	Y	-	-	-	-	mortality, cisco in stomach
Doris Lake	Doris	19-Aug	435	LCIS	GN	140	17	0.6	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	436	LCIS	GN	146	29	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	437	LCIS	GN	185	58	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	438	LCIS	GN	127	14	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	439	LCIS	GN	140	18	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	440	LCIS	GN	154	25	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	441	LCIS	GN	266	196	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	442	LCIS	GN	120	16	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	443	LCIS	GN	117	14	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	444	LCIS	GN	114	11	0.7	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	19-Aug	445	LCIS	GN	90	7	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	446	NSSB	GN	55	2	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	447	LKWH	GN	256	209	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	448	LCIS	GN	255	181	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	449	LCIS	GN	288	251	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	450	LCIS	GN	254	149	0.9	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	451	LCIS	GN	245	144	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	452	LCIS	GN	253	205	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	453	LCIS	GN	210	91	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	454	LCIS	GN	140	27	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	455	LKWH	GN	390	660	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	456	LKWH	GN	400	820	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	457	LKWH	GN	330	420	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	458	LKWH	GN	382	640	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	459	LKWH	GN	428	900	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	460	LKWH	GN	399	840	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	461	LKWH	GN	366	600	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	462	LKWH	GN	405	880	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	463	LKWH	GN	380	710	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	464	LKWH	GN	356	510	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	465	LKWH	GN	423	940	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	466	LKWH	GN	405	780	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	467	LKWH	GN	407	830	1.2	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	468	LKWH	GN	436	1,060	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	469	LCIS	GN	270	192	1.0	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	470	LCIS	GN	241	154	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	471	LCIS	GN	190	74	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	472	LCIS	GN	234	136	1.1	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	473	LKWH	GN	446	1,120	1.3	-	-	-	-	-	-	-	-	-	-	
Doris Lake	Doris	20-Aug	474	LKWH	GN	429	1,130	1.4	-	-	-	-	-	-	-	-	-	-	

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Tag: Y = yellow, O = orange
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Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	20-Aug	475	LKWH	GN	378	610	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	476	LKWH	GN	384	680	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	477	LKWH	GN	380	600	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	478	LKWH	GN	309	339	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	479	LCIS	GN	232	137	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	480	LCIS	GN	224	123	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	481	LCIS	GN	261	138	0.8	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	482	LCIS	GN	240	137	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	483	LCIS	GN	225	118	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	484	LCIS	GN	203	75	0.9	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	485	LCIS	GN	256	163	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	486	LCIS	GN	216	107	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	487	LKWH	GN	405	870	1.3	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	488	LKWH	GN	423	970	1.3	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	489	LKWH	GN	310	300	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	490	LKWH	GN	388	730	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	491	LKWH	GN	397	890	1.4	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	492	LKWH	GN	508	2,750	2.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	493	LCIS	GN	236	129	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	494	LKWH	GN	309	365	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	495	LKWH	GN	340	440	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	496	LKWH	GN	412	890	1.3	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	497	LKWH	GN	408	850	1.3	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	498	LKWH	GN	395	810	1.3	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	499	LKWH	GN	372	640	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	500	LKWH	GN	400	770	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	501	LKWH	GN	250	181	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	502	LCIS	GN	247	154	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	503	LCIS	GN	265	215	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	504	LCIS	GN	194	77	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	505	LCIS	GN	158	48	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	506	LKTR	GN	605	3,050	1.4	14	-	-	-	Y	Y	-	-	yellow 099	107161	-
Doris Lake	Doris	20-Aug	507	LKWH	GN	352	556	1.3	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	508	LKWH	GN	348	523	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	509	LKWH	GN	380	634	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	510	LCIS	GN	262	134	0.7	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	511	LCIS	GN	212	105	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	512	LCIS	GN	201	89	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	513	LCIS	GN	217	119	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	514	LKTR	GN	491	110	0.1	10	-	-	-	Y	Y	-	-	yellow 098	105749	-
Doris Lake	Doris	20-Aug	515	LKTR	GN	502	1,099	0.9	11	-	-	-	Y	Y	-	-	yellow 097	5645	-
Doris Lake	Doris	20-Aug	516	LKTR	GN	590	2,700	1.3	11	-	-	-	Y	Y	-	-	yellow 095	7363	-
Doris Lake	Doris	20-Aug	517	LKWH	GN	115	13	0.9	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	518	LKWH	GN	113	14	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	519	LKWH	GN	103	10	0.9	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	20-Aug	520	LCIS	GN	100	10	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	521	LKTR	GN	648	3,120	1.1	unable to age	-	-	-	Y	Y	-	-	yellow 092	111332	-
Doris Lake	Doris	21-Aug	522	LCIS	GN	147	25	0.8	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	523	LCIS	GN	94	6	0.7	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	524	LCIS	GN	104	9	0.8	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	525	LCIS	GN	103	8	0.7	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	526	LKTR	GN	372	3,120	6.1	17	-	-	-	Y	Y	-	-	yellow 091	114437	-
Doris Lake	Doris	21-Aug	527	LKTR	GN	665	2,374	0.8	18	-	-	-	Y	Y	-	-	yellow 090	67513	-
Doris Lake	Doris	21-Aug	528	LKTR	GN	735	6,000	1.5	19	-	-	-	Y	Y	-	-	yellow 089	69094	-
Doris Lake	Doris	21-Aug	529	LKWH	GN	425	887	1.2	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	530	LKWH	GN	446	981	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	531	LKWH	GN	451	915	1.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	532	LKWH	GN	360	523	1.1	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	533	LCIS	GN	217	200	2.0	-	-	-	-	-	-	-	-	-	-	-
Doris Lake	Doris	21-Aug	534	LKWH	GN	445	1,248	1.4	-	-	-	-	-	-	-	-	-	-	-

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Doris Lake	Doris	21-Aug	535	LCIS	GN	145	26	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	536	LCIS	GN	142	24	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	537	LCIS	GN	131	21	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	538	LCIS	GN	224	143	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	539	LKWH	GN	432	1,050	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	540	LKWH	GN	430	1,008	1.3	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	541	LKWH	GN	318	390	1.2	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	542	LCIS	GN	275	235	1.1	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	543	LCIS	GN	281	228	1.0	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	544	LCIS	GN	136	28	1.1	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	545	LCIS	GN	130	20	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	546	LCIS	GN	128	18	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	547	LCIS	GN	256	169	1.0	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	548	LCIS	GN	128	13	0.6	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	549	LCIS	GN	158	35	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	550	LCIS	GN	173	45	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	551	LCIS	GN	255	173	1.0	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	552	LCIS	GN	269	190	1.0	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	553	LCIS	GN	105	9	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	554	LCIS	GN	96	7	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	555	LCIS	GN	135	20	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	556	LCIS	GN	116	12	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	557	LCIS	GN	94	7	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	558	LCIS	GN	118	13	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	559	LCIS	GN	104	10	0.9	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	560	LCIS	GN	104	8	0.7	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	561	LCIS	GN	109	11	0.8	—	—	—	—	—	—	—	—	—	—	
Doris Lake	Doris	21-Aug	562	LKTR	GN	530	1,380	0.9	16	—	—	—	Y	Y	—	—	yellow 088	114480	released alive
Doris Lake	Doris	21-Aug	563	LKTR	GN	614	1,804	0.8	16	2	1	Y	Y	Y	—	16	—	—	mortality released
Ogama	Doris	30-Jul-09	1	LKTR	GN	690	3,000	0.9	unable to age	—	—	—	Y	Y	—	—	—	—	released
Ogama	Doris	30-Jul-09	2	LCIS	GN	243	177	1.2	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	3	LCIS	GN	196	237	3.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	4	LCIS	GN	321	348	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	5	LCIS	GN	261	159	0.9	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	6	LCIS	GN	192	64	0.9	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	7	LCIS	GN	195	52	0.7	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	8	LCIS	GN	194	77	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	9	LKTR	GN	846	6,000	1.0	unable to age	—	—	—	Y	Y	—	—	—	—	released
Ogama	Doris	30-Jul-09	10	LKTR	GN	618	1,838	0.8	12	—	—	—	Y	Y	—	—	—	—	released
Ogama	Doris	30-Jul-09	11	LKWH	GN	330	517	1.4	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	12	LKWH	GN	331	418	1.2	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	13	LKWH	GN	316	361	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	14	LKWH	GN	339	519	1.3	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	15	LKWH	GN	350	192	0.4	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	16	LKWH	GN	312	403	1.3	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	17	LCIS	GN	180	62	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	18	LCIS	GN	235	138	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	19	LKWH	GN	375	513	1.0	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	20	LCIS	GN	192	74	1.0	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	21	LCIS	GN	191	73	1.0	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	22	LCIS	GN	189	71	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	23	LKTR	GN	725	3,000	0.8	25	—	—	—	Y	Y	—	—	—	—	released
Ogama	Doris	30-Jul-09	24	LKTR	GN	515	1,249	0.9	12	—	—	—	Y	Y	—	—	—	—	released
Ogama	Doris	30-Jul-09	25	LKWH	GN	393	651	1.1	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	26	LKWH	GN	394	—	—	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	27	LKWH	GN	354	—	—	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	28	LKWH	GN	319	—	—	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	29	LKWH	GN	365	—	—	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	30	LKWH	GN	321	—	—	—	—	—	—	—	—	—	—	—	—	
Ogama	Doris	30-Jul-09	31	LKWH	GN	428	—	—	—	—	—	—	—	—	—	—	—	—	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Ogama	Doris	30-Jul-09	32	LKWH	GN	328	-	-	-	-	-	-	-	-	-	-	-	-	mortality
Ogama	Doris	30-Jul-09	33	LCIS	GN	210	-	-	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	30-Jul-09	34	LCIS	GN	199	-	-	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	31-Jul-09	35	LKTR	GN	482	1,037	0.9	14	2	1	Y	Y	Y	-	-	-	-	
Ogama	Doris	31-Jul-09	36	LCIS	GN	315	1,024	3.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	31-Jul-09	37	LCIS	GN	247	475	3.2	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	31-Jul-09	38	LCIS	GN	218	215	2.1	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	39	LCIS	GN	220	87	0.8	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	40	LCIS	GN	173	42	0.8	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	41	LCIS	GN	326	109	0.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	42	LCIS	GN	188	62	0.9	-	-	-	-	-	-	-	-	-	-	photo 3222 photo 3223
Ogama	Doris	1-Aug-09	43	LCIS	GN	261	193	1.1	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	44	LKWH	GN	364	615	1.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	45	LKWH	GN	319	437	1.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	46	LKWH	GN	347	564	1.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	47	LKWH	GN	348	524	1.2	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	48	LKWH	GN	354	561	1.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	49	LKWH	GN	372	664	1.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	50	LKWH	GN	355	568	1.3	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	51	LKWH	GN	345	747	1.8	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	52	LCIS	GN	345	323	0.8	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	53	LCIS	GN	243	129	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	54	LCIS	GN	227	102	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	55	LCIS	GN	229	127	1.1	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	56	LCIS	GN	193	76	1.1	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	57	LCIS	GN	230	111	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	58	LCIS	GN	153	32	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	59	LCIS	GN	159	38	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	60	LCIS	GN	167	45	1.0	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	61	LCIS	GN	161	37	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	62	LCIS	GN	168	53	1.1	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	63	LCIS	GN	190	66	1.0	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	64	LCIS	GN	188	62	0.9	-	-	-	-	-	-	-	-	-	-	
Ogama	Doris	1-Aug-09	65	LCIS	GN	220	91	0.9	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	23-Jul-09	1	LKWH	GN	255	155	0.9	-	-	-	-	-	-	-	-	-	-	mortality
PO Lake	Doris	23-Jul-09	2	LKWH	GN	382	684	1.2	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	23-Jul-09	3	LKTR	GN	558	1,872	1.1	15	2	2	Y	Y	Y	1	1	-	-	
PO Lake	Doris	23-Jul-09	4	LKTR	GN	521	1,761	1.2	11	2	1	Y	Y	Y	2	2	-	-	
PO Lake	Doris	23-Jul-09	5	LKWH	GN	472	1,013	1.0	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	26	LKTR	GN	461	1,580	1.6	10	-	-	-	Y	Y	-	-	-	-	
PO Lake	Doris	27-Jul-09	27	LCIS	GN	183	49	0.8	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	28	LKTR	GN	525	2,059	1.4	9	-	-	-	Y	Y	-	-	-	-	
PO Lake	Doris	27-Jul-09	29	LCIS	GN	178	64	1.1	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	30	LCIS	GN	438	129	0.2	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	31	LCIS	GN	241	122	0.9	-	-	-	-	-	-	-	-	-	-	released released mortality
PO Lake	Doris	27-Jul-09	32	LCIS	GN	232	131	1.0	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	33	LKTR	GN	602	2,680	1.2	14	-	-	-	Y	Y	-	-	-	-	
PO Lake	Doris	27-Jul-09	34	LKWH	GN	453	1,968	2.1	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	35	LKWH	GN	442	1,948	2.3	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	36	LKWH	GN	447	1,939	2.2	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	37	LCIS	GN	210	76	0.8	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	38	LCIS	GN	175	53	1.0	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	39	LCIS	GN	179	55	1.0	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	40	LCIS	GN	224	107	1.0	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	41	LCIS	GN	257	161	0.9	-	-	-	-	-	-	-	-	-	-	released released mortality
PO Lake	Doris	27-Jul-09	42	LCIS	GN	179	52	0.9	-	-	-	-	-	-	-	-	-	-	
PO Lake	Doris	27-Jul-09	43	LKTR	GN	599	2,039	0.9	unable to age > 20 yrs		-	-	Y	Y	-	-	-	-	
PO Lake	Doris	27-Jul-09	44	LKTR	GN	480	1,189	1.1	9	-	-	-	Y	Y	-	-	-	-	
PO Lake	Doris	27-Jul-09	45	LKTR	GN	523	1,295	0.9	11	2	1	Y	Y	Y	3	3	-	-	mortality
PO Lake	Doris	27-Jul-09	46	LKTR	GN	510	1,259	0.9	13	1	1	Y	Y	Y	4	4	-	-	

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LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
PO Lake	Doris	27-Jul-09	47	LKTR	GN	454	877	0.9	9	1	1	Y	Y	Y	5	5	-	-	mortality
PO Lake	Doris	27-Jul-09	48	LKTR	GN	495	1,110	0.9	11	2	1	Y	Y	Y	6	6	-	-	mortality
PO Lake	Doris	27-Jul-09	49	LKWH	GN	387	761	1.3	16	1	1	Y	Y	Y	1	1	-	-	mortality
PO Lake	Doris	27-Jul-09	50	LKWH	GN	428	1,000	1.3	34	2	2	Y	Y	Y	2	2	-	-	mortality
PO Lake	Doris	27-Aug-09	51	LKTR	AG	396	585	0.9	6	2	1	Y	Y	Y	7	7	-	-	mortality
PO Lake	Doris	27-Aug-09	52	LKTR	GN	403	669	1.0	11	2	1	Y	Y	Y	8	8	-	-	mortality
PO Lake	Doris	27-Aug-09	53	LKTR	GN	420	722	1.0	10	2	1	Y	Y	Y	9	9	-	-	mortality
PO Lake	Doris	27-Aug-09	54	LKTR	GN	463	1,189	1.2	11	1	1	Y	Y	Y	10	10	-	-	mortality
Patch Lake	Dors	23-Aug-09	1	LKTR	GN	678	3,300	1.1	21	-	-	-	Y	Y	-	-	Y-087	70711	
Patch Lake	Dors	23-Aug-09	2	LKTR	GN	377	529	1.0	11	-	-	-	Y	Y	-	-	Y-086	113840	
Patch Lake	Dors	23-Aug-09	3	LKTR	GN	472	1,202	1.1	15	-	-	-	Y	Y	-	-	Y-085	108335	
Patch Lake	Dors	23-Aug-09	4	LKTR	GN	511	1,651	1.2	20	-	-	-	Y	Y	-	-	Y-084	68541	
Patch Lake	Dors	23-Aug-09	5	LKTR	GN	486	1,270	1.1	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	23-Aug-09	6	LKTR	GN	505	1,435	1.1	22	-	-	-	Y	Y	-	-	Y-083	113900	
Patch Lake	Dors	24-Aug-09	7	LCIS	GN	281	180	0.8	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	8	LKWH	GN	442	1,110	1.3	22	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	9	LKWH	GN	360	530	1.1	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	10	LKWH	GN	340	430	1.1	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	11	LKWH	GN	422	870	1.2	16	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	12	LKWH	GN	356	500	1.1	12	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	13	LKWH	GN	390	680	1.1	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	14	LKWH	GN	409	860	1.3	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	15	LKWH	GN	384	670	1.2	14	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	16	LKWH	GN	377	600	1.1	11	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	17	LKWH	GN	425	880	1.1	14	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	18	LKWH	GN	308	290	1.0	7	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	19	LKWH	GN	327	380	1.1	8	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	20	LKWH	GN	335	400	1.1	9	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	21	LKWH	GN	382	660	1.2	12	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	22	LKWH	GN	355	490	1.1	12	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	23	LKWH	GN	341	420	1.1	10	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	24	LKWH	GN	371	600	1.2	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	25	LKTR	GN	615	2,326	1.0	17	-	-	-	Y	Y	-	-	Y-082	2623	
Patch Lake	Dors	24-Aug-09	26	LKTR	GN	644	2,330	0.9	20	-	-	-	Y	Y	-	-	Y-081	72270	
Patch Lake	Dors	24-Aug-09	27	LCIS	GN	251	160	1.0	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	28	LCIS	GN	283	267	1.2	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	29	LCIS	GN	260	166	0.9	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	30	LKTR	GN	548	1,622	1.0	16	-	-	-	Y	Y	-	-	Y-080	71085	
Patch Lake	Dors	24-Aug-09	31	LKTR	GN	703	3,215	0.9	18	-	-	-	Y	Y	-	-	Y-079	114083	
Patch Lake	Dors	24-Aug-09	32	LKTR	GN	584	2,044	1.0	20	-	-	-	Y	Y	-	-	Y-078	5179	
Patch Lake	Dors	24-Aug-09	33	LKTR	GN	698	3,470	1.0	27	1	2	-	Y	Y	-	-	Y-076	70028	
Patch Lake	Dors	24-Aug-09	34	LKTR	GN	328	341	1.0	7	U	U	-	Y	Y	-	-	O-100	113437	
Patch Lake	Dors	24-Aug-09	35	LKTR	GN	403	695	1.1	16	2	1	Y	Y	Y	-	-	-	-	mortality
Patch Lake	Dors	24-Aug-09	36	LKWH	GN	357	502	1.1	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	37	LCIS	GN	231	103	0.8	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	38	LCIS	GN	284	255	1.1	-	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	39	LKWH	GN	362	530	1.1	11	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	40	LKWH	GN	392	755	1.3	14	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	41	LKWH	GN	418	1,001	1.4	14	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	42	LKWH	GN	322	399	1.2	9	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	43	LKWH	GN	388	771	1.3	13	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	44	LCIS	GN	294	261	1.0	11	-	-	-	-	-	-	-	-	-	
Patch Lake	Dors	24-Aug-09	45	LKWH	GN	346	463	1.1	-	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	46	LKWH	GN	442	1,016	1.2	14	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	47	LKWH	GN	349	553	1.3	11	-	-	-	Y	Y	-	-	-	-	
Patch Lake	Dors	24-Aug-09	48	LKTR	GN	684	3,121	1.0	24	-	-	-	Y	Y	-	-	O-99	67772	
Patch Lake	Dors	24-Aug-09	49	LKTR	GN	628	2,635	1.1	19	-	-	-	Y	Y	-	-	O-98	68728	
Patch Lake	Dors	24-Aug-09	50	LKTR	GN	428	785	1.0	18	-	-	-	Y	Y	-	-	O-97	110593	
Patch Lake	Dors	24-Aug-09	51	LKTR	GN	563	1,685	0.9	15	-	-	-	Y	Y	-	-	O-96	70900	
Patch Lake	Dors	24-Aug-09	52	LKTR	GN	699	3,730	1.1	24	-	-	-	Y	Y	-	-	O-95	109056	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Patch Lake	Dors	24-Aug-09	53	LKTR	GN	732	3,750	1.0	unable to age > 20 yrs	—	—	—	Y	Y	—	—	O-94	105695	
Patch Lake	Dors	25-Aug-09	54	LKTR	GN	415	743	1.0	11	—	—	—	Y	Y	—	—	O-93	114687	
Patch Lake	Dors	25-Aug-09	55	LKWH	GN	390	759	1.3	10	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	56	LKWH	GN	391	650	1.1	16	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	57	LKWH	GN	384	732	1.3	12	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	58	LKTR	GN	648	2,489	0.9	19	—	—	—	Y	Y	—	—	O-92	72462	
Patch Lake	Dors	25-Aug-09	59	LKTR	GN	—	—	—	—	—	—	—	—	—	—	—	O-94	105695	
Patch Lake	Dors	25-Aug-09	60	LKWH	GN	357	522	1.1	10	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	61	LKWH	GN	413	886	1.3	14	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	62	LKWH	GN	427	994	1.3	16	—	—	—	Y	Y	—	—	—	—	adipose fin missing
Patch Lake	Dors	25-Aug-09	63	LKTR	GN	719	3,214	0.9	17	—	—	—	Y	Y	—	—	O-91	72645	
Patch Lake	Dors	25-Aug-09	64	LKTR	GN	649	2,914	1.1	14	—	—	—	Y	Y	—	—	O-90	104626	
Patch Lake	Dors	25-Aug-09	65	LKTR	GN	695	2,919	0.9	unable to age > 30	—	—	—	Y	Y	—	—	O-88	1581473	
Patch Lake	Dors	25-Aug-09	66	LKTR	GN	683	2,997	0.9	unable to age	—	—	—	Y	Y	—	—	O-87	114427	
Patch Lake	Dors	25-Aug-09	67	LKTR	GN	640	2,268	0.9	—	—	—	—	—	—	—	—	G-3900	—	Golder tag
Patch Lake	Dors	25-Aug-09	68	LKTR	GN	715	3,145	0.9	22	—	—	—	Y	Y	—	—	O-86	69335	
Patch Lake	Dors	25-Aug-09	69	LKTR	GN	650	2,812	1.0	7	—	—	—	—	—	—	—	G-3904	—	Golder tag
Patch Lake	Dors	25-Aug-09	70	LKTR	GN	380	500	0.9	10	—	—	—	Y	Y	—	—	O-85	113656	
Patch Lake	Dors	25-Aug-09	71	LKWH	GN	345	439	1.1	13	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	72	LKWH	GN	429	950	1.2	10	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	73	LKWH	GN	297	297	1.1	19	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	74	LCIS	GN	250	150	1.0	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	25-Aug-09	75	LKWH	GN	420	858	1.2	19	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	76	LKWH	GN	368	642	1.3	11	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	77	LKWH	GN	428	1,124	1.4	23	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	25-Aug-09	78	LKTR	GN	664	2,701	0.9	20	—	—	Y	Y	Y	—	—	—	—	mortality
Patch Lake	Dors	25-Aug-09	79	LKTR	GN	688	3,209	1.0	17	—	—	Y	Y	Y	—	—	—	—	mortality
Patch Lake	Dors	25-Aug-09	80	LKTR	GN	692	3,203	1.0	20	—	—	Y	Y	Y	—	—	—	—	mortality
Patch Lake	Dors	25-Aug-09	81	LKTR	GN	481	1,052	0.9	12	—	—	Y	Y	Y	—	—	—	—	mortality
Patch Lake	Dors	26-Aug-09	82	LKTR	GN	321	328	1.0	10	—	—	—	Y	Y	—	—	O-84	—	
Patch Lake	Dors	26-Aug-09	83	LKTR	GN	430	671	0.8	12	—	—	—	Y	Y	—	—	O-83	—	
Patch Lake	Dors	26-Aug-09	84	LKWH	GN	331	447	1.2	8	—	—	—	Y	Y	—	—	—	—	
Patch Lake	Dors	27-Aug-09	85	LKTR	GN	721	4,134	1.1	18	—	—	—	Y	Y	—	—	O-82	107163	
Patch Lake	Dors	27-Aug-09	86	LKTR	GN	668	3,009	1.0	19	—	—	—	Y	Y	—	—	O-81	69026	
Patch Lake	Dors	27-Aug-09	87	LKTR	GN	605	2,315	1.0	14	—	—	—	Y	Y	—	—	O-80	114421	
Patch Lake	Dors	27-Aug-09	88	LKTR	GN	580	1,899	1.0	15	—	—	—	Y	Y	—	—	O-79	104875	
Patch Lake	Dors	27-Aug-09	89	LKTR	GN	600	2,164	1.0	14	—	—	—	Y	Y	—	—	O-78	88712	
Patch Lake	Dors	27-Aug-09	90	LKTR	GN	445	884	1.0	13	—	—	—	Y	Y	—	—	O-77	69856	
Patch Lake	Dors	27-Aug-09	91	LKTR	GN	671	2,807	0.9	25	—	—	—	Y	Y	—	—	O-76	112380	
Patch Lake	Dors	27-Aug-09	92	LKTR	GN	703	2,968	0.9	24	—	—	—	Y	Y	—	—	Y-53	—	
Patch Lake	Dors	27-Aug-09	93	LKTR	GN	565	1,987	1.1	13	—	—	—	Y	Y	—	—	Y-54	2024	
Patch Lake	Dors	27-Aug-09	94	LKWH	GN	450	1,075	1.2	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	27-Aug-09	95	LKWH	GN	396	828	1.3	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	27-Aug-09	96	LKWH	GN	451	1,154	1.3	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	27-Aug-09	97	LKWH	GN	435	1,048	1.3	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	27-Aug-09	98	LKWH	GN	391	852	1.4	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	27-Aug-09	99	LKWH	GN	390	808	1.4	—	—	—	—	—	—	—	—	—	—	
Patch Lake	Dors	27-Aug-09	100	LKWH	GN	415	853	1.2	—	—	—	—	—	—	—	—	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	1	ARCH	GN	354	400	0.9	5	—	—	—	Y	Y	—	—	—	—	picture 3181 (released)
Little Roberts Lake	Doris/Roberts	28-Jul-09	2	ARCH	GN	303	260	0.9	4	—	—	—	Y	Y	—	—	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	3	ARCH	GN	314	292	0.9	5	—	—	—	Y	Y	—	—	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	4	ARCH	GN	249	192	1.2	4	—	—	—	Y	Y	—	—	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	5	LKWH	GN	428	1,162	1.5	14	—	—	—	Y	Y	—	—	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	6	LKTR	GN	593	2,821	1.4	25	2	2	Y	Y	Y	1	1	4009 (Golder Tag)	—	potentially anadromous; pictures 3182, 3183
Little Roberts Lake	Doris/Roberts	28-Jul-09	7	LKTR	GN	402	626	1.0	18	2	1	Y	Y	Y	2	2	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	8	LKTR	GN	420	937	1.3	15	2	2	Y	Y	Y	3	3	—	—	
Little Roberts Lake	Doris/Roberts	28-Jul-09	9	LKTR	GN	462	1,132	1.1	21	1	2	Y	Y	Y	4	4	—	—	picture 3189
Little Roberts Lake	Doris/Roberts	28-Jul-09	10	ARCH	GN	419	675	0.9	5	—	—	—	Y	Y	—	—	—	—	picture 3195
Little Roberts Lake	Doris/Roberts	28-Jul-09	11	LKTR	GN	415	825	1.2	22	2	2	Y	Y	Y	5	5	—	—	

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LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

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Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Little Roberts Lake	Doris/Roberts	28-Jul-09	12	ARCH	GN	398	678	1.1	5	-	-	-	Y	Y	-	-	-	-	released
Little Roberts Lake	Doris/Roberts	28-Jul-09	13	LKTR	AG	411	773	1.1	12	-	-	-	Y	Y	6	6	-	-	released angling
Little Roberts Lake	Doris/Roberts	28-Jul-09	14	ARCH	GN	336	392	1.0	5	-	-	-	Y	Y	-	-	-	-	
Little Roberts Lake	Doris/Roberts	28-Jul-09	15	ARCH	GN	355	443	1.0	6	1	1	Y	Y	Y	-	-	-	-	mortality
Little Roberts Lake	Doris/Roberts	28-Jul-09	16	LKTR	GN	368	511	1.0	10	1	1	-	Y	Y	7	7	-	-	
Little Roberts Lake	Doris/Roberts	29-Jul-09	17	ARCH	GN	321	327	1.0	4	-	-	-	Y	Y	-	-	-	-	
Little Roberts Lake	Doris/Roberts	29-Jul-09	18	ARCH	GN	250	135	0.9	3	-	-	-	Y	Y	-	-	-	-	
Little Roberts Lake	Doris/Roberts	29-Jul-09	19	LKTR	GN	391	618	1.0	13	-	-	-	-	-	8	8	-	-	
Little Roberts Lake	Doris/Roberts	29-Jul-09	20	LKTR	GN	454	1,080	1.2	15	1	2	Y	Y	Y	9	9	-	-	picture 3206
Little Roberts Lake	Doris/Roberts	29-Jul-09	21	LKTR	GN	344	402	1.0	9	-	1	Y	Y	Y	-	-	-	-	
Little Roberts Lake	Doris/Roberts	29-Jul-09	22	ARCH	GN	250	149	1.0	4	2	1	Y	Y	Y	-	-	-	-	picture 3207, possible smolt
Glenn Lake	Windy	31-Jul-09	1	LCIS	GN	135	33	1.3	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	31-Jul-09	2	LCIS	GN	255	250	1.5	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	3	LKTR	GN	703	4,000	1.2	29	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	4	LKTR	GN	710	4,400	1.2	unable to age	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	5	LKTR	GN	399	465	0.7	12	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	6	LKTR	GN	398	430	0.7	22	1	2	Y	Y	Y	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	7	LKTR	GN	403	550	0.8	unable to age > 20 yrs	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	8	LKTR	GN	387	400	0.7	14	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	9	LKTR	GN	304	240	0.9	-	-	-	-	-	-	-	-	-	-	not sampled
Glenn Lake	Windy	2-Aug-09	10	LCIS	GN	234	132	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	11	LCIS	GN	194	76	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	12	LCIS	GN	126	47	2.3	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	13	LCIS	GN	282	178	0.8	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	14	LCIS	GN	233	152	1.2	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	15	LCIS	GN	219	109	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	16	LCIS	GN	228	133	1.1	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	17	LCIS	GN	223	119	1.1	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	2-Aug-09	18	LCIS	GN	221	112	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	19	LCIS	GN	187	63	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	20	LCIS	GN	213	98	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	21	LCIS	GN	196	93	1.2	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	22	LCIS	GN	171	52	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	23	LKTR	GN	448	660	0.7	17	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	24	LKTR	GN	680	3,100	1.0	29	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	25	LKTR	GN	648	2,400	0.9	-	-	-	-	Y	Y	-	-	-	-	not sampled
Glenn Lake	Windy	3-Aug-09	26	LCIS	GN	248	94	0.6	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	27	LCIS	GN	252	109	0.7	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	28	LCIS	GN	268	124	0.6	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	29	LCIS	GN	232	141	1.1	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	30	LCIS	GN	225	118	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	31	LKTR	GN	472	740	0.7	unable to age	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	32	LKTR	GN	612	2,050	0.9	21	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	33	LCIS	GN	243	85	0.6	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	34	LCIS	GN	251	118	0.7	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	35	LCIS	GN	201	74	0.9	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	36	LCIS	GN	203	80	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	37	LCIS	GN	322	221	0.7	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	38	LCIS	GN	138	22	0.8	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	39	LKTR	GN	474	820	0.8	21	1	2	Y	Y	Y	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	40	LKTR	GN	472	760	0.7	20	2	2	Y	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	41	LCIS	GN	254	142	0.9	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	42	LCIS	GN	180	54	0.9	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	43	LKTR	GN	566	720	0.4	24	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	44	LCIS	GN	250	150	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	45	LCIS	GN	230	110	0.9	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	46	LCIS	GN	237	135	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	3-Aug-09	47	LCIS	GN	230	118	1.0	-	-	-	-	-	-	-	-	-	-	
Glenn Lake	Windy	4-Aug-09	48	LKTR	GN	605	2,700	1.2	unable to age > 20 yrs	-	-	-	Y	Y	-	-	-	-	
Glenn Lake	Windy	4-Aug-09	49	LCIS	GN	234	125	1.0	-	-	-	-	-	-	-	-	-	-	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
LKTR = lake trout, LKWH = lake whitefish
Y = aging structure collected
Tag: Y = yellow, O = orange
Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Glenn Lake	Windy	4-Aug-09	50	LCIS	GN	238	130	1.0	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	51	LCIS	GN	285	296	1.3	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	52	LCIS	GN	221	110	1.0	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	53	LCIS	GN	233	117	0.9	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	54	LCIS	GN	238	127	0.9	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	55	LCIS	GN	241	160	1.1	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	56	LCIS	GN	240	148	1.1	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	57	LKTR	GN	726	3,900	1.0	unable to age > 20 yrs	—	—	—	Y	Y	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	58	LCIS	GN	225	108	0.9	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	59	LCIS	GN	234	118	0.9	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	60	LKTR	GN	480	810	0.7	16	—	—	Y	Y	Y	—	—	—	—	mortality
Glenn Lake	Windy	4-Aug-09	61	LCIS	GN	211	103	1.1	—	—	—	—	—	—	—	—	—	—	
Glenn Lake	Windy	4-Aug-09	62	LCIS	GN	206	102	1.2	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	1	LKTR	GN	400	653	1.0	13	2	1	Y	Y	Y	1	1	—	—	mortality
Windy Lake	Windy	27-Jul-09	2	LCIS	GN	315	330	1.1	9	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	3	LCIS	GN	305	—	—	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	4	LKTR	GN	773	4,628	1.0	16	—	—	—	Y	Y	—	—	—	—	released, photos 498, 499
Windy Lake	Windy	27-Jul-09	5	LKTR	GN	450	987	1.1	15	1	1	Y	Y	Y	2	2	—	—	mortality, photos 500, 501
Windy Lake	Windy	27-Jul-09	6	LCIS	GN	315	321	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	7	LCIS	GN	300	288	1.1	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	8	LCIS	GN	275	188	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	9	LCIS	GN	360	457	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	10	LCIS	GN	318	303	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	11	LCIS	GN	319	273	0.8	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	12	LCIS	GN	294	239	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	13	LCIS	GN	306	288	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	14	LCIS	GN	298	258	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	15	LCIS	GN	309	292	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	16	LCIS	GN	288	232	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	17	LKTR	GN	825	6,000	1.1	28	—	—	—	Y	Y	—	—	—	—	released, photo 502
Windy Lake	Windy	27-Jul-09	18	LKTR	GN	738	2,790	0.7	14	—	—	—	Y	Y	—	—	—	—	
Windy Lake	Windy	27-Jul-09	19	LKTR	GN	614	2,348	1.0	16	—	—	—	Y	Y	—	—	—	—	
Windy Lake	Windy	27-Jul-09	20	LKTR	GN	734	2,670	0.7	16	—	—	—	Y	Y	—	—	—	—	
Windy Lake	Windy	27-Jul-09	21	LKTR	GN	338	407	1.1	9	2	1	Y	Y	Y	3	3	—	—	mortality, photo 503,504
Windy Lake	Windy	27-Jul-09	22	LCIS	GN	355	420	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	23	LCIS	GN	320	309	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	24	LCIS	GN	285	229	1.0	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	25	LCIS	GN	290	212	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	26	LCIS	GN	360	284	0.6	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	27	LCIS	GN	305	240	0.8	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	28	LCIS	GN	280	189	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	29	LKTR	GN	1020	—	—	28	—	—	—	Y	Y	—	—	—	—	released, photo 505, 506,507
Windy Lake	Windy	27-Jul-09	30	LKTR	GN	750	—	—	21	—	—	—	Y	Y	—	—	—	—	released
Windy Lake	Windy	27-Jul-09	31	LKTR	GN	378	567	1.0	13	2	1	Y	Y	Y	4	4	—	—	mortality
Windy Lake	Windy	27-Jul-09	32	LCIS	GN	290	203	0.8	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	27-Jul-09	33	LCIS	GN	310	278	0.9	—	—	—	—	—	—	—	—	—	—	
Windy Lake	Windy	29-Jul-09	49	LKTR	GN	352	452	1.0	10	2	1	Y	Y	Y	5	5	—	—	mortality
Windy Lake	Windy	29-Jul-09	62	LKTR	GN	413	809	1.1	14	2	1	Y	Y	Y	6	6	—	—	mortality
Windy Lake	Windy	29-Jul-09	65	LKTR	GN	893	6,000	0.8	27	—	—	—	—	Y	—	—	—	—	released, green Golder tag # 4769
Windy Lake	Windy	29-Jul-09	66	LKTR	GN	690	4,551	1.4	19	1	2	Y	Y	Y	7	7	—	—	mortality
Windy Lake	Windy	29-Jul-09	78	LKTR	GN	442	1,107	1.3	21	2	2	Y	Y	Y	8	8	—	—	mortality
Windy Lake	Windy	29-Jul-09	79	LKTR	GN	462	1,060	1.1	18	1	2	Y	Y	Y	9	9	—	—	mortality
Windy Lake	Windy	29-Jul-09	80	LKTR	GN	428	890	1.1	16	2	1	Y	Y	Y	10	10	—	—	mortality
Reference Lake A	Reference A	21-Jul-09	1	LKTR	GN	395	626	1.0	12	—	—	—	Y	Y	—	—	—	—	released; pictures 412, 413
Reference Lake A	Reference A	21-Jul-09	2	LKTR	GN	372	504	1.0	12	1	1	Y	Y	Y	1	1	—	—	
Reference Lake A	Reference A	21-Jul-09	3	LKTR	GN	348	430	1.0	11	2	2	Y	Y	Y	2	2	—	—	
Reference Lake A	Reference A	21-Jul-09	4	LKTR	GN	407	942	1.4	17	1	2	Y	Y	Y	3	3	—	—	good condition; picture 416
Reference Lake A	Reference A	22-Jul-09	5	LKTR	GN	745	approx 6 kg	—	29	—	—	—	Y	Y	—	—	—	—	released; picture 416
Reference Lake A	Reference A	22-Jul-09	6	LKTR	GN	392	456	0.8	13	—	—	—	Y	Y	—	—	—	—	

Fish Species Codes: ARCH = Arctic char, LCIS = cisco,
 LKTR = lake trout, LKWH = lake whitefish
 Y = aging structure collected
 Tag: Y = yellow, O = orange
 Dashes (-) indicate data not collected

Appendix 3.2-1. Biological Data for Fish Sampled from Lakes, Hope Bay Belt Project, 2009

Water Body	Basin	Date	Sample Number	Species Code	Sample Method	Fork Length (mm)	Weight (g)	Condition (g/mm ³)	Age	Sex	Maturity	Aging Structure			Stm. Sample	Tissue Sample	Tag		Comments
												Otolith	Scales	Fin Ray			T-bar	PIT	
Reference Lake A	Reference A	22-Jul-09	7	LKTR	GN	368	359	0.7	14	2	2	Y	Y	Y	4	4	—	—	picture 418-421 picture 423 - 426
Reference Lake A	Reference A	22-Jul-09	8	LKTR	GN	419	528	0.7	18	2	1	Y	Y	Y	5	5	—	—	
Reference Lake A	Reference A	22-Jul-09	9	LKTR	GN	421	565	0.8	17	1	1	Y	Y	Y	6	6	—	—	
Reference Lake A	Reference A	22-Jul-09	10	LKTR	GN	355	484	1.1	10	1	1	Y	Y	Y	7	7	—	—	
Reference Lake A	Reference A	22-Jul-09	11	LKTR	GN	867	approx 6 kg	—	unable to age > 20 yrs	—	—	—	Y	Y	—	—	—	—	
Reference Lake A	Reference A	22-Jul-09	12	LKWH	GN	423	898	1.2	17	—	—	—	—	—	—	—	—	—	
Reference Lake A	Reference A	22-Jul-09	13	LKTR	GN	463	1,052	1.1	19	—	—	—	Y	Y	—	—	—	—	
Reference Lake A	Reference A	22-Jul-09	14	LKTR	GN	455	1,074	1.1	21	2	2	Y	Y	Y	8	8	—	—	
Reference Lake A	Reference A	22-Jul-09	15	LKTR	GN	437	897	1.1	24	1	2	Y	Y	Y	9	9	—	—	
Reference Lake A	Reference A	22-Jul-09	16	LKTR	GN	509	1,348	1.0	28	1	1	Y	Y	Y	10	10	—	—	
Reference Lake A	Reference A	22-Jul-09	17	LKTR	GN	714	—	—	21	—	—	—	—	Y	—	—	—	—	picture 438
Reference Lake A	Reference A	22-Jul-09	18	LKTR	GN	455	1,039	1.1	missing	—	—	—	—	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	1	LKTR	GN	740	—	—	23	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	2	LKTR	GN	920	—	—	35	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	3	LKTR	GN	485	1,008	0.9	12	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	4	LKTR	GN	478	1,180	1.1	12	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	5	LKTR	GN	499	1,080	0.9	17	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	6	ARCH	GN	595	2,093	1.0	12	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	7	ARCH	GN	540	1,265	0.8	16	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	8	ARCH	GN	603	1,594	0.7	16	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	23-Jul-09	9	LKTR	GN	540	1,622	1.0	32	2	2	Y	Y	Y	1	1	—	—	picture 549
Reference Lake B	Reference B	23-Jul-09	10	LKTR	GN	525	1,230	0.9	21	2	2	Y	Y	Y	2	2	—	—	
Reference Lake B	Reference B	26-Jul-09	11	LKTR	GN	495	—	—	17	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	26-Jul-09	12	LKTR	GN	495	—	—	14	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	26-Jul-09	13	LKTR	GN	615	—	—	unable to age	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	26-Jul-09	14	LKTR	GN	740	—	—	unable to age	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	26-Jul-09	15	LKTR	GN	510	1,455	1.1	24	1	1	Y	Y	Y	3	3	—	—	
Reference Lake B	Reference B	26-Jul-09	16	LKTR	GN	525	—	—	19	1	2	Y	Y	Y	4	4	—	—	
Reference Lake B	Reference B	26-Jul-09	17	LKTR	GN	488	—	—	19	2	2	Y	Y	Y	5	5	—	—	
Reference Lake B	Reference B	26-Jul-09	18	LKTR	GN	772	—	—	unable to age > 25 yrs	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	26-Jul-09	19	LKTR	GN	743	—	—	27	—	—	—	Y	Y	—	—	—	—	picture 437, 438
Reference Lake B	Reference B	26-Jul-09	20	ARCH	GN	380	—	—	6	—	—	—	Y	Y	—	—	—	—	
Reference Lake B	Reference B	26-Jul-09	21	LKTR	GN	536	—	—	22	2	1	Y	Y	Y	6	6	—	—	
Reference Lake B	Reference B	26-Jul-09	22	LKTR	GN	511	1,488	1.1	25	2	2	Y	Y	Y	7	7	—	—	
Reference Lake B	Reference B	26-Jul-09	23	LKTR	GN	568	—	—	21	2	1	Y	Y	Y	8	8	—	—	
Reference Lake B	Reference B	26-Jul-09	24	LKTR	GN	488	1,272	1.1	16	1	2	Y	Y	Y	9	9	—	—	
Reference Lake B	Reference B	26-Jul-09	25	LKTR	GN	483	1,170	1.0	17	2	2	Y	Y	Y	10	10	—	—	

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Tag: Y = yellow, O = orange

Dashes (-) indicate data not collected

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Appendix 3.2-2

Fish Density Data Derived from Hydroacoustic Surveys of
Doris Lake, Hope Bay Belt Project, 2009

Appendix 3.2-2. Fish Density Data Derived from Hydroacoustic Surveys of Doris Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	Lake Section	Transect	Interval	Depth	Habitat Zone	Habitat Category	Period
Doris	-106.5737978	68.09318025	0	1	1	1	1.0	1	littoral	night
Doris	-106.5725281	68.09325507	0	1	1	2	1.6	1	littoral	night
Doris	-106.571318	68.09322571	0	1	1	3	1.6	1	littoral	night
Doris	-106.5701139	68.093205	0	1	1	4	1.5	1	littoral	night
Doris	-106.5689134	68.09318167	0	1	1	5	1.3	1	littoral	night
Doris	-106.567657	68.09321069	0	1	1	6	1.2	1	littoral	night
Doris	-106.5669337	68.09320555	0	1	1	7	1.0	1	littoral	night
Doris	-106.5685636	68.09620429	0	1	2	1	1.5	1	littoral	night
Doris	-106.5697573	68.09617858	0	1	2	2	1.5	1	littoral	night
Doris	-106.5709646	68.096145	0	1	2	3	1.8	1	littoral	night
Doris	-106.5721731	68.096125	59	1	2	4	2.3	1	littoral	night
Doris	-106.5733738	68.09613228	0	1	2	5	2.4	1	littoral	night
Doris	-106.5745778	68.09614833	0	1	2	6	2.4	1	littoral	night
Doris	-106.5757713	68.09613667	0	1	2	7	2.3	1	littoral	night
Doris	-106.5769859	68.09608357	0	1	2	8	2.1	1	littoral	night
Doris	-106.5778659	68.09603064	0	1	2	9	1.5	1	littoral	night
Doris	-106.5812833	68.09973212	0	1	3	1	1.8	1	littoral	night
Doris	-106.5800047	68.0998053	0	1	3	2	2.7	1	littoral	night
Doris	-106.578808	68.09984197	43	1	3	3	3.1	1	littoral	night
Doris	-106.577603	68.09989879	47	1	3	4	2.8	1	littoral	night
Doris	-106.5764105	68.09995009	0	1	3	5	2.4	1	littoral	night
Doris	-106.5752117	68.09998833	0	1	3	6	1.8	1	littoral	night
Doris	-106.5740121	68.10003045	0	1	3	7	1.7	1	littoral	night
Doris	-106.5728079	68.10007103	0	1	3	8	1.2	1	littoral	night
Doris	-106.5716059	68.10011333	0	1	3	9	1.6	1	littoral	night
Doris	-106.5703816	68.10016786	0	1	3	10	2.1	1	littoral	night
Doris	-106.5694661	68.10022476	0	1	3	11	1.0	1	littoral	night
Doris	-106.5726658	68.10364125	0	1	4	1	1.2	1	littoral	night
Doris	-106.5738342	68.10349583	0	1	4	2	1.4	1	littoral	night
Doris	-106.575013	68.10340214	0	1	4	3	1.4	1	littoral	night
Doris	-106.5762164	68.10335357	0	1	4	4	1.7	1	littoral	night
Doris	-106.5774069	68.10333802	0	1	4	5	1.4	1	littoral	night
Doris	-106.5786118	68.10337611	0	1	4	6	2.0	1	littoral	night
Doris	-106.5798122	68.10338817	0	1	4	7	2.7	1	littoral	night
Doris	-106.5810204	68.10339333	46	1	4	8	2.9	1	littoral	night
Doris	-106.5822312	68.10338508	0	1	4	9	3.2	1	littoral	night
Doris	-106.583441	68.10340136	0	1	4	10	2.0	1	littoral	night
Doris	-106.5871935	68.10841772	187	1	5	1	5.1	2	pelagic	night
Doris	-106.5859888	68.10837136	357	1	5	2	5.5	2	pelagic	night
Doris	-106.5847758	68.10841429	381	1	5	3	5.4	2	pelagic	night
Doris	-106.5835864	68.10844426	136	1	5	4	4.9	2	pelagic	night
Doris	-106.5823854	68.10847	100	1	5	5	4.4	2	pelagic	night
Doris	-106.5811846	68.1085008	79	1	5	6	3.6	1	littoral	night
Doris	-106.5799711	68.108535	29	1	5	7	3.1	1	littoral	night
Doris	-106.5787707	68.10853667	23	1	5	8	5.4	2	pelagic	night
Doris	-106.5775692	68.10853817	45	1	5	9	7.2	2	pelagic	night
Doris	-106.5763593	68.10851667	902	1	5	10	7.6	2	pelagic	night
Doris	-106.5751384	68.10851659	68	1	5	11	6.3	2	pelagic	night
Doris	-106.57396	68.10850167	102	1	5	12	5.8	2	pelagic	night
Doris	-106.572877	68.10848079	0	1	5	13	2.1	1	littoral	night
Doris	-106.5745185	68.11249293	340	1	6	1	7.5	2	pelagic	night
Doris	-106.5756803	68.11229767	595	1	6	2	10.9	2	pelagic	night
Doris	-106.5768377	68.11215853	308	1	6	3	11.0	2	pelagic	night
Doris	-106.5780203	68.11207119	68	1	6	4	9.9	2	pelagic	night
Doris	-106.5791998	68.1119891	185	1	6	5	10.0	2	pelagic	night
Doris	-106.5803605	68.11188606	286	1	6	6	12.3	2	pelagic	night
Doris	-106.5815622	68.11180808	412	1	6	7	12.0	2	pelagic	night
Doris	-106.5827576	68.1117495	264	1	6	8	9.9	2	pelagic	night
Doris	-106.5839273	68.11163565	486	1	6	9	8.7	2	pelagic	night
Doris	-106.5851111	68.11154136	300	1	6	10	9.0	2	pelagic	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = south of proposed dyke, 2 = north of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-2. Fish Density Data Derived from Hydroacoustic Surveys of Doris Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	Lake Section	Transect	Interval	Depth	Habitat Zone	Habitat Category	Period
Doris	-106.586251	68.11142508	543	1	6	11	7.6	2	pelagic	night
Doris	-106.5874185	68.11128738	91	1	6	12	5.0	2	pelagic	night
Doris	-106.5885797	68.11117742	108	1	6	13	5.0	2	pelagic	night
Doris	-106.5896669	68.11113856	0	1	6	14	3.7	1	littoral	night
Doris	-106.5924017	68.11412167	70	1	7	1	2.0	1	littoral	night
Doris	-106.5910217	68.11422317	0	1	7	2	5.4	2	pelagic	night
Doris	-106.5898589	68.11433112	46	1	7	3	6.9	2	pelagic	night
Doris	-106.5886804	68.11444566	257	1	7	4	8.7	2	pelagic	night
Doris	-106.5875031	68.11454451	160	1	7	5	10.7	2	pelagic	night
Doris	-106.5863213	68.11464033	632	1	7	6	12.0	2	pelagic	night
Doris	-106.5851296	68.11471257	889	1	7	7	13.0	2	pelagic	night
Doris	-106.5839452	68.11478227	285	1	7	8	13.4	2	pelagic	night
Doris	-106.5827562	68.11486358	308	1	7	9	13.5	2	pelagic	night
Doris	-106.5815661	68.11494254	622	1	7	10	13.6	2	pelagic	night
Doris	-106.5803721	68.11502121	849	1	7	11	13.7	2	pelagic	night
Doris	-106.5791916	68.11507332	584	1	7	12	13.9	2	pelagic	night
Doris	-106.577989	68.11512462	258	1	7	13	12.9	2	pelagic	night
Doris	-106.5766811	68.11516288	0	1	7	14	4.3	2	pelagic	night
Doris	-106.5779825	68.11779567	0	2	8	1	7.4	2	pelagic	night
Doris	-106.5791566	68.11767841	546	2	8	2	14.3	2	pelagic	night
Doris	-106.5803551	68.117665	459	2	8	3	15.3	2	pelagic	night
Doris	-106.5815517	68.11765	0	2	8	4	15.3	2	pelagic	night
Doris	-106.5827705	68.11765676	185	2	8	5	15.2	2	pelagic	night
Doris	-106.583947	68.11759992	220	2	8	6	15.2	2	pelagic	night
Doris	-106.5851594	68.11756183	470	2	8	7	15.2	2	pelagic	night
Doris	-106.5863554	68.11753444	617	2	8	8	15.0	2	pelagic	night
Doris	-106.587556	68.11746611	250	2	8	9	14.8	2	pelagic	night
Doris	-106.5887584	68.11743968	292	2	8	10	12.4	2	pelagic	night
Doris	-106.5899634	68.11743833	264	2	8	11	9.2	2	pelagic	night
Doris	-106.5911613	68.11739643	275	2	8	12	8.1	2	pelagic	night
Doris	-106.5923566	68.11731196	384	2	8	13	7.2	2	pelagic	night
Doris	-106.5935739	68.11729833	45	2	8	14	0.6	1	littoral	night
Doris	-106.5935739	68.11729833	45	2	8	14	3.2	2	pelagic	night
Doris	-106.5942968	68.11729702	0	2	8	15	1.3	1	littoral	night
Doris	-106.593395	68.12060992	0	2	9	1	2.3	1	littoral	night
Doris	-106.5921519	68.12066302	0	2	9	2	3.8	1	littoral	night
Doris	-106.590956	68.1206797	278	2	9	3	7.9	2	pelagic	night
Doris	-106.5897578	68.12063833	431	2	9	4	12.8	2	pelagic	night
Doris	-106.5885607	68.12067457	109	2	9	5	15.4	2	pelagic	night
Doris	-106.5873785	68.12075955	283	2	9	6	16.0	2	pelagic	night
Doris	-106.5861811	68.12080431	129	2	9	7	16.4	2	pelagic	night
Doris	-106.5849719	68.1208254	1050	2	9	8	16.4	2	pelagic	night
Doris	-106.5837685	68.12085956	461	2	9	9	16.3	2	pelagic	night
Doris	-106.5825658	68.1208693	480	2	9	10	16.4	2	pelagic	night
Doris	-106.5813648	68.12085857	697	2	9	11	16.4	2	pelagic	night
Doris	-106.58016	68.12081333	107	2	9	12	15.0	2	pelagic	night
Doris	-106.5793106	68.12078302	0	2	9	13	4.6	2	pelagic	night
Doris	-106.5810256	68.12382549	0	2	10	1	9.7	2	pelagic	night
Doris	-106.5822042	68.12366563	0	2	10	2	15.3	2	pelagic	night
Doris	-106.5833728	68.1235662	213	2	10	3	16.2	2	pelagic	night
Doris	-106.5845468	68.12345499	347	2	10	4	16.1	2	pelagic	night
Doris	-106.5857385	68.12336834	0	2	10	5	15.9	2	pelagic	night
Doris	-106.5868927	68.12327119	488	2	10	6	15.5	2	pelagic	night
Doris	-106.5881131	68.12323682	23	2	10	7	15.2	2	pelagic	night
Doris	-106.5893133	68.12321485	289	2	10	8	15.3	2	pelagic	night
Doris	-106.5905156	68.1231431	331	2	10	9	14.1	2	pelagic	night
Doris	-106.5917124	68.12314518	55	2	10	10	9.7	2	pelagic	night
Doris	-106.5929227	68.12313071	0	2	10	11	2.1	1	littoral	night
Doris	-106.5941219	68.12309413	0	2	10	12	2.1	1	littoral	night
Doris	-106.5950328	68.12307741	0	2	10	13	0.8	1	littoral	night
Doris	-106.5988308	68.12691121	0	2	11	1	2.1	1	littoral	night
Doris	-106.5976179	68.12689	33	2	11	2	2.7	1	littoral	night
Doris	-106.5964117	68.126905	24	2	11	3	3.8	1	littoral	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = south of proposed dyke, 2 = north of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-2. Fish Density Data Derived from Hydroacoustic Surveys of Doris Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	Lake Section	Transect	Interval	Depth	Habitat Zone	Habitat Category	Period
Doris	-106.5952015	68.12690912	0	2	11	4	5.8	2	pelagic	night
Doris	-106.5940071	68.12686833	0	2	11	5	8.7	2	pelagic	night
Doris	-106.5927953	68.12687536	157	2	11	6	10.9	2	pelagic	night
Doris	-106.5915941	68.12689079	240	2	11	7	12.7	2	pelagic	night
Doris	-106.5903887	68.12695643	239	2	11	8	13.3	2	pelagic	night
Doris	-106.5892027	68.12701418	290	2	11	9	13.0	2	pelagic	night
Doris	-106.5879947	68.12705097	632	2	11	10	11.8	2	pelagic	night
Doris	-106.5868016	68.12710618	704	2	11	11	15.5	2	pelagic	night
Doris	-106.5855997	68.12717255	519	2	11	12	16.8	2	pelagic	night
Doris	-106.5844119	68.12721651	143	2	11	13	13.5	2	pelagic	night
Doris	-106.5831938	68.12719383	239	2	11	14	10.0	2	pelagic	night
Doris	-106.5821372	68.12714635	381	2	11	15	5.0	2	pelagic	night
Doris	-106.5844803	68.13143094	0	2	12	1	3.1	1	littoral	night
Doris	-106.5856901	68.13135492	0	2	12	2	7.1	2	pelagic	night
Doris	-106.5869063	68.13131308	0	2	12	3	8.9	2	pelagic	night
Doris	-106.5881123	68.13127894	411	2	12	4	9.1	2	pelagic	night
Doris	-106.5893152	68.13123348	165	2	12	5	10.1	2	pelagic	night
Doris	-106.5905032	68.13120412	461	2	12	6	11.5	2	pelagic	night
Doris	-106.5917086	68.13120167	142	2	12	7	13.5	2	pelagic	night
Doris	-106.5929268	68.13118293	0	2	12	8	10.2	2	pelagic	night
Doris	-106.59414	68.13119119	0	2	12	9	7.0	2	pelagic	night
Doris	-106.5953445	68.13115983	0	2	12	10	9.2	2	pelagic	night
Doris	-106.5965384	68.13112629	0	2	12	11	8.8	2	pelagic	night
Doris	-106.5977364	68.13115705	0	2	12	12	7.8	2	pelagic	night
Doris	-106.5989523	68.13114255	51	2	12	13	5.7	2	pelagic	night
Doris	-106.6001513	68.13112129	32	2	12	14	3.5	1	littoral	night
Doris	-106.6013429	68.13105455	0	2	12	15	1.9	1	littoral	night
Doris	-106.602543	68.13097882	51	2	12	16	2.3	1	littoral	night
Doris	-106.603794	68.13092063	0	2	12	17	1.3	1	littoral	night
Doris	-106.5971582	68.13465696	0	2	13	1	6.9	2	pelagic	night
Doris	-106.595928	68.13450141	23	2	13	2	11.1	2	pelagic	night
Doris	-106.5947284	68.13444059	392	2	13	3	10.3	2	pelagic	night
Doris	-106.593533	68.13437349	0	2	13	4	9.5	2	pelagic	night
Doris	-106.5923393	68.13431222	0	2	13	5	8.5	2	pelagic	night
Doris	-106.5911464	68.13428091	0	2	13	6	7.6	2	pelagic	night
Doris	-106.589937	68.13425083	577	2	13	7	6.9	2	pelagic	night
Doris	-106.5887367	68.13424983	0	2	13	8	6.5	2	pelagic	night
Doris	-106.5875207	68.1342153	0	2	13	9	6.0	2	pelagic	night
Doris	-106.5863268	68.13415621	0	2	13	10	5.6	2	pelagic	night
Doris	-106.584997	68.13406867	64	2	13	11	2.3	1	littoral	night
Doris	-106.5863043	68.13819076	0	2	14	1	2.9	1	littoral	night
Doris	-106.5875424	68.13827174	0	2	14	2	2.0	1	littoral	night
Doris	-106.5887365	68.1383385	0	2	14	3	1.1	1	littoral	night
Doris	-106.5899516	68.13840425	0	2	14	4	2.1	1	littoral	night
Doris	-106.5911045	68.13843762	0	2	14	5	2.0	1	littoral	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = south of proposed dyke, 2 = north of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = south of proposed dyke, 2 = north of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-3

Fish Density Data Derived from Hydroacoustic Surveys of
Patch Lake, Hope Bay Belt Project, 2009

Appendix 3.2-3. Fish Density Data Derived from Hydroacoustic Surveys of Patch Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	LakeSection	Transect	Interval	Habitat Zone	Habitat Category	Period
Patch	-106.58239	68.0712738	0	1	1	1	1	littoral	night
Patch	-106.58122	68.0715104	0	1	1	2	1	littoral	night
Patch	-106.58018	68.0717346	0	1	1	3	1	littoral	night
Patch	-106.57915	68.0719741	0	1	1	4	1	littoral	night
Patch	-106.57812	68.0722135	0	1	1	5	1	littoral	night
Patch	-106.57706	68.0724447	0	1	1	6	1	littoral	night
Patch	-106.57613	68.072625	0	1	1	7	1	littoral	night
Patch	-106.5737	68.0681758	0	1	2	1	1	littoral	night
Patch	-106.575	68.067988	264	1	2	2	1	littoral	night
Patch	-106.57614	68.0678395	124	1	2	3	1	littoral	night
Patch	-106.57724	68.0676683	0	1	2	4	1	littoral	night
Patch	-106.5783	68.0674583	153	1	2	5	1	littoral	night
Patch	-106.57935	68.0672177	0	1	2	6	1	littoral	night
Patch	-106.58034	68.0669444	0	1	2	7	1	littoral	night
Patch	-106.56181	68.0630367	0	1	3	1	1	littoral	night
Patch	-106.56303	68.0628743	39	1	3	2	1	littoral	night
Patch	-106.56418	68.0627041	0	1	3	3	2	pelagic	night
Patch	-106.56534	68.0625773	51	1	3	4	2	pelagic	night
Patch	-106.56646	68.0624218	0	1	3	5	2	pelagic	night
Patch	-106.56759	68.0622674	23	1	3	6	2	pelagic	night
Patch	-106.56871	68.0621224	46	1	3	7	2	pelagic	night
Patch	-106.56987	68.061991	51	1	3	8	2	pelagic	night
Patch	-106.57102	68.0618412	0	1	3	9	1	littoral	night
Patch	-106.57214	68.0616759	0	1	3	10	1	littoral	night
Patch	-106.57326	68.0615289	0	1	3	11	1	littoral	night
Patch	-106.57441	68.0613596	0	1	3	12	1	littoral	night
Patch	-106.57562	68.0612241	0	1	3	13	1	littoral	night
Patch	-106.57872	68.060184	0	1	4	1	1	littoral	night
Patch	-106.57992	68.0599672	0	1	4	2	1	littoral	night
Patch	-106.58102	68.0597778	134	1	4	3	1	littoral	night
Patch	-106.58205	68.0595496	0	1	4	4	1	littoral	night
Patch	-106.58308	68.0593303	0	1	4	5	1	littoral	night
Patch	-106.58405	68.0590459	0	1	4	6	1	littoral	night
Patch	-106.58506	68.0587906	0	1	4	7	1	littoral	night
Patch	-106.58621	68.0585494	0	1	4	8	1	littoral	night
Patch	-106.5805	68.0566717	0	1	5	1	1	littoral	night
Patch	-106.5794	68.0569067	0	1	5	2	2	pelagic	night
Patch	-106.57829	68.0570759	0	1	5	3	2	pelagic	night
Patch	-106.57721	68.0572739	74	1	5	4	1	littoral	night
Patch	-106.5761	68.0574419	0	1	5	5	1	littoral	night
Patch	-106.57493	68.0575964	0	1	5	6	1	littoral	night
Patch	-106.5739	68.0577603	0	1	5	7	1	littoral	night
Patch	-106.57277	68.0579312	0	1	5	8	1	littoral	night
Patch	-106.57163	68.058112	0	1	5	9	1	littoral	night
Patch	-106.57053	68.0583033	0	1	5	10	1	littoral	night
Patch	-106.56943	68.0584707	79	1	5	11	1	littoral	night
Patch	-106.56832	68.0586583	0	1	5	12	1	littoral	night
Patch	-106.56725	68.0588569	0	1	5	13	1	littoral	night
Patch	-106.56617	68.0590552	0	1	5	14	1	littoral	night
Patch	-106.56506	68.0592344	0	1	5	15	1	littoral	night
Patch	-106.56393	68.0593898	63	1	5	16	1	littoral	night
Patch	-106.5628	68.05954	0	1	5	17	1	littoral	night
Patch	-106.56165	68.0596856	0	1	5	18	1	littoral	night
Patch	-106.56052	68.0598487	0	1	5	19	1	littoral	night
Patch	-106.55939	68.0600593	0	1	5	20	1	littoral	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = north of proposed dyke, 2 = south of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-3. Fish Density Data Derived from Hydroacoustic Surveys of Patch Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	LakeSection	Transect	Interval	Habitat Zone	Habitat Category	Period
Patch	-106.55844	68.0602016	0	1	5	21	1	littoral	night
Patch	-106.55327	68.0571883	0	1	6	1	1	littoral	night
Patch	-106.55455	68.0569483	28	1	6	2	1	littoral	night
Patch	-106.55561	68.0567789	32	1	6	3	1	littoral	night
Patch	-106.5567	68.0565765	0	1	6	4	1	littoral	night
Patch	-106.55778	68.0563693	48	1	6	5	1	littoral	night
Patch	-106.55885	68.056161	0	1	6	6	1	littoral	night
Patch	-106.55993	68.0559766	0	1	6	7	1	littoral	night
Patch	-106.56105	68.0558006	43	1	6	8	1	littoral	night
Patch	-106.56216	68.0556258	0	1	6	9	1	littoral	night
Patch	-106.56329	68.0554343	0	1	6	10	1	littoral	night
Patch	-106.56432	68.0552436	0	1	6	11	1	littoral	night
Patch	-106.56546	68.0550963	38	1	6	12	1	littoral	night
Patch	-106.56659	68.0549345	67	1	6	13	1	littoral	night
Patch	-106.56772	68.0547724	646	1	6	14	2	pelagic	night
Patch	-106.56884	68.0546241	1006	1	6	15	2	pelagic	night
Patch	-106.56994	68.0544293	203	1	6	16	2	pelagic	night
Patch	-106.57097	68.0542023	665	1	6	17	2	pelagic	night
Patch	-106.572	68.0539617	356	1	6	18	2	pelagic	night
Patch	-106.57304	68.0537393	94	1	6	19	2	pelagic	night
Patch	-106.57417	68.0535875	0	1	6	20	1	littoral	night
Patch	-106.57534	68.0534449	0	1	6	21	1	littoral	night
Patch	-106.5765	68.053246	0	1	6	22	1	littoral	night
Patch	-106.56941	68.0498533	1057	1	7	1	2	pelagic	night
Patch	-106.56815	68.0500491	592	1	7	2	2	pelagic	night
Patch	-106.56718	68.0503093	818	1	7	3	2	pelagic	night
Patch	-106.56616	68.0505421	1318	1	7	4	2	pelagic	night
Patch	-106.56507	68.0507464	349	1	7	5	2	pelagic	night
Patch	-106.56397	68.0509223	45	1	7	6	2	pelagic	night
Patch	-106.56286	68.0510841	69	1	7	7	2	pelagic	night
Patch	-106.56173	68.051243	140	1	7	8	2	pelagic	night
Patch	-106.56061	68.0514062	39	1	7	9	1	littoral	night
Patch	-106.5595	68.0515829	0	1	7	10	1	littoral	night
Patch	-106.5584	68.0517727	0	1	7	11	1	littoral	night
Patch	-106.55724	68.0519517	0	1	7	12	1	littoral	night
Patch	-106.55612	68.0520797	0	1	7	13	1	littoral	night
Patch	-106.55523	68.052226	0	1	7	14	1	littoral	night
Patch	-106.55423	68.0525671	139	1	7	15	1	littoral	night
Patch	-106.55324	68.0528264	0	1	7	16	1	littoral	night
Patch	-106.55214	68.0530168	43	1	7	17	1	littoral	night
Patch	-106.55105	68.0532049	34	1	7	18	1	littoral	night
Patch	-106.54996	68.0533917	32	1	7	19	1	littoral	night
Patch	-106.54886	68.0535907	0	1	7	20	1	littoral	night
Patch	-106.54782	68.0537948	0	1	7	21	1	littoral	night
Patch	-106.54659	68.0540319	0	1	7	22	1	littoral	night
Patch	-106.54607	68.0541183	0	1	7	23	1	littoral	night
Patch	-106.53746	68.0490303	0	1	8	1	1	littoral	night
Patch	-106.53788	68.0485506	0	1	8	2	1	littoral	night
Patch	-106.53822	68.048117	0	1	8	3	1	littoral	night
Patch	-106.53866	68.0477003	0	1	8	4	1	littoral	night
Patch	-106.53909	68.0472804	0	1	8	5	1	littoral	night
Patch	-106.53969	68.0468855	0	1	8	6	1	littoral	night
Patch	-106.54029	68.0464562	0	1	8	7	1	littoral	night
Patch	-106.54076	68.0460691	0	1	8	8	1	littoral	night
Patch	-106.54104	68.0458156	0	1	8	9	1	littoral	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = north of proposed dyke, 2 = south of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-3. Fish Density Data Derived from Hydroacoustic Surveys of Patch Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	LakeSection	Transect	Interval	Habitat Zone	Habitat Category	Period
Patch	-106.54309	68.0454571	0	1	9	1	1	littoral	night
Patch	-106.54421	68.0451933	0	1	9	2	1	littoral	night
Patch	-106.54538	68.0449824	0	1	9	3	1	littoral	night
Patch	-106.5463	68.0447802	0	1	9	4	1	littoral	night
Patch	-106.54746	68.0445833	0	1	9	5	1	littoral	night
Patch	-106.54855	68.0444677	0	1	9	6	1	littoral	night
Patch	-106.54971	68.0443317	0	1	9	7	1	littoral	night
Patch	-106.55088	68.044224	0	1	9	8	1	littoral	night
Patch	-106.55206	68.0441217	0	1	9	9	1	littoral	night
Patch	-106.55325	68.0440284	0	1	9	10	1	littoral	night
Patch	-106.55442	68.0439106	0	1	9	11	1	littoral	night
Patch	-106.55562	68.0437642	0	1	9	12	1	littoral	night
Patch	-106.56374	68.0453333	0	1	10	1	1	littoral	night
Patch	-106.56505	68.0453943	0	1	10	2	1	littoral	night
Patch	-106.56623	68.0454337	0	1	10	3	1	littoral	night
Patch	-106.56741	68.0455317	0	1	10	4	1	littoral	night
Patch	-106.56858	68.0456295	0	1	10	5	1	littoral	night
Patch	-106.5698	68.045672	0	1	10	6	1	littoral	night
Patch	-106.57072	68.0457297	0	1	10	7	1	littoral	night
Patch	-106.55297	68.0378021	87	2	11	1	1	littoral	night
Patch	-106.5517	68.0379327	38	2	11	2	1	littoral	night
Patch	-106.5505	68.0380091	0	2	11	3	2	pelagic	night
Patch	-106.54931	68.0380538	89	2	11	4	2	pelagic	night
Patch	-106.54808	68.0380937	58	2	11	5	1	littoral	night
Patch	-106.54691	68.0381183	29	2	11	6	2	pelagic	night
Patch	-106.54572	68.0381582	239	2	11	7	2	pelagic	night
Patch	-106.5445	68.0381969	51	2	11	8	2	pelagic	night
Patch	-106.54331	68.0382088	0	2	11	9	2	pelagic	night
Patch	-106.54211	68.0382242	287	2	11	10	2	pelagic	night
Patch	-106.54091	68.0382191	0	2	11	11	2	pelagic	night
Patch	-106.53967	68.038225	0	2	11	12	1	littoral	night
Patch	-106.53858	68.0381979	0	2	11	13	1	littoral	night
Patch	-106.53298	68.0341771	0	2	12	1	1	littoral	night
Patch	-106.53404	68.0341595	255	2	12	2	2	pelagic	night
Patch	-106.53541	68.0341074	262	2	12	3	2	pelagic	night
Patch	-106.5366	68.0340503	525	2	12	4	2	pelagic	night
Patch	-106.5378	68.03403	45	2	12	5	2	pelagic	night
Patch	-106.539	68.0340101	23	2	12	6	2	pelagic	night
Patch	-106.54018	68.0339628	240	2	12	7	2	pelagic	night
Patch	-106.54138	68.0339024	0	2	12	8	2	pelagic	night
Patch	-106.54258	68.0338383	0	2	12	9	2	pelagic	night
Patch	-106.54376	68.0337592	0	2	12	10	2	pelagic	night
Patch	-106.54497	68.0336886	504	2	12	11	2	pelagic	night
Patch	-106.54615	68.0336659	71	2	12	12	2	pelagic	night
Patch	-106.54736	68.0336233	0	2	12	13	1	littoral	night
Patch	-106.54854	68.0336048	0	2	12	14	1	littoral	night
Patch	-106.54974	68.033625	0	2	12	15	1	littoral	night
Patch	-106.55107	68.0336213	82	2	12	16	1	littoral	night
Patch	-106.54996	68.0278741	94	2	13	1	1	littoral	night
Patch	-106.5487	68.0279216	0	2	13	2	1	littoral	night
Patch	-106.54753	68.0279857	0	2	13	3	1	littoral	night
Patch	-106.54625	68.0281238	0	2	13	4	1	littoral	night
Patch	-106.54522	68.0282006	28	2	13	5	1	littoral	night
Patch	-106.544	68.0282892	46	2	13	6	2	pelagic	night
Patch	-106.54281	68.0283417	296	2	13	7	2	pelagic	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = north of proposed dyke, 2 = south of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-3. Fish Density Data Derived from Hydroacoustic Surveys of Patch Lake, Hope Bay Belt Project, 2009

Lake	Longitude	Latitude	# of Fish/Hectare	LakeSection	Transect	Interval	Habitat Zone	Habitat Zone Category	Period
Patch	-106.54167	68.0284683	0	2	13	8	2	pelagic	night
Patch	-106.54053	68.0286175	0	2	13	9	2	pelagic	night
Patch	-106.5394	68.0287749	28	2	13	10	1	littoral	night
Patch	-106.53831	68.0289427	107	2	13	11	1	littoral	night
Patch	-106.53713	68.0290673	0	2	13	12	1	littoral	night
Patch	-106.53594	68.0291319	0	2	13	13	1	littoral	night
Patch	-106.53475	68.0291832	0	2	13	14	1	littoral	night
Patch	-106.53355	68.0292225	0	2	13	15	1	littoral	night
Patch	-106.53236	68.0292529	0	2	13	16	1	littoral	night
Patch	-106.53116	68.0293083	0	2	13	17	1	littoral	night
Patch	-106.52998	68.0293575	0	2	13	18	1	littoral	night
Patch	-106.52877	68.029407	0	2	13	19	1	littoral	night
Patch	-106.52757	68.0294632	0	2	13	20	1	littoral	night
Patch	-106.52638	68.0295266	0	2	13	21	1	littoral	night
Patch	-106.52512	68.0296345	0	2	13	22	1	littoral	night
Patch	-106.52407	68.0297538	0	2	13	23	1	littoral	night
Patch	-106.53802	68.0245874	0	2	14	1	1	littoral	night
Patch	-106.53926	68.0246637	0	2	14	2	1	littoral	night
Patch	-106.54047	68.0246794	0	2	14	3	1	littoral	night
Patch	-106.54168	68.0247195	0	2	14	4	1	littoral	night
Patch	-106.54286	68.0247677	0	2	14	5	1	littoral	night
Patch	-106.54407	68.024795	0	2	14	6	1	littoral	night
Patch	-106.54529	68.0248225	0	2	14	7	1	littoral	night
Patch	-106.54646	68.024865	0	2	14	8	1	littoral	night
Patch	-106.54739	68.0248548	0	2	14	9	1	littoral	night

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = north of proposed dyke, 2 = south of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Notes:

Coordinates (lat, log) are NAD83

Lake Section: 1 = north of proposed dyke, 2 = south of proposed dyke

Intervals numbered every 50 m

Habitat Zone: 1 = littoral, 2 = pelagic

Habitat zones were defined for each transect interval by their mean water column depth: littoral <= 5 m, pelagic > 5 m

Appendix 3.2-4

Fish Diet Data (Number), Hope Bay Belt Project, 2009

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake
	A	A	A	A	A	A	A	A	A	A	B	B
Date	21-Jul-09	21-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	23-Jul-09	23-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	2	3	4	7	8	9	10	14	15	16	9	10
Stomach Number	1	2	3	4	5	6	7	8	9	10	1	2
Sample No.	090350	090351	090352	090353	090354	090355	090356	090357	090358	090359	090360	090361
Fullness (%)	75	50	75	90	75	75	75	100	90	100	75	75
Digestion (%)	25	25	25	25	50	50	75	75	90	50	50	75
Actual Weight (mg)	8,557	2,053	6,921	8,385	7,517	5,432	3,727	24,455	17,675	50,630	15,245	20,747
Comments												
Species/Group	Stage	Origin										
Cestodes (not included in data)			X	X	X	X	X	X				
Nematodes (not included in data)												
CRUSTACEA												
Cladocera												
Podocopidae		M				1						
Isopoda												
Saduria entomon	juv	M			2		3		5	8	41	
Saduria entomon	A	M		1								
Amphipoda												
Gammaridae		M										
Gammaracanthus loricatus		M		1		2	3		16			
Gammarus lacustris		FW										
Haustoriidae												
Pontoporeia affinis		M/FW										
Mysidacea												
Mysis relicta		M/FW	650	151	442	320	250	250	11			16
ARACHNIDA												
Hydracarina		FW					1					
EPHEMEROPTERA												
Ephemerellidae												
Ephemerella sp	N	FW										
PLECOPTERA	N*	FW										
Perlodidae	N	FW										
TRICHOPTERA	L	FW										
Trichoptera	P	FW				1	1					
Brachycentridae												
Brachycentrus	P	FW										
Limnephilidae	L	FW										
Grensia	L	FW										
COLEOPTERA	A	TERR		2								
Dytiscidae	A	FW										
Colymbetes	A	FW										
Hydroporus	A	FW										
Carabidae	A	TERR				4						
Cerambycidae	A	TERR										
Staphylinidae	A	TERR										
HYMENOPTERA	A	TERR										
DIPTERA	P	TERR										
Diptera	A	FW							1			
Ceratopogonidae												
Probezzia	L	FW										
Simuliidae												
Simulium	L	FW										
Tipulidae	L	FW										
Tipulidae	A	FW				25						
Chironomidae	L*	FW										
Chironomidae	P	FW			1			280		485	400	65
Tanytopodinae												
Procladius	L	FW	100	27	1	70	7	25	2			3
Procladius	P	FW										1,340
Thiennemannimyia	L	FW										
Tanytarsini												
Paratanytarsus	L											
Paratanytarsus	P	FW				6						

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake		
Date	A	A	A	A	A	A	A	A	A	A	B	B		
Fish Species	21-Jul-09	21-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	23-Jul-09	23-Jul-09		
Fish Number	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout		
Stomach Number	2	3	4	7	8	9	10	14	15	16	9	10		
Sample No.	1	2	3	4	5	6	7	8	9	10	1	2		
Fullness (%)	090350	090351	090352	090353	090354	090355	090356	090357	090358	090359	090360	090361		
Digestion (%)	75	50	75	90	75	75	100	90	100	75	75	75		
Actual Weight (mg)	25	25	25	25	50	50	75	75	90	50	50	75		
Comments	8,557	2,053	6,921	8,385	7,517	5,432	3,727	24,455	17,675	50,630	15,245	20,747		
Species/Group	Stage	Origin												
Tanytarsus	P	FW									10	27		
Chironomini	L*	FW									1			
Chironomini	P	FW					350	1,770	1,620	660	545	482		
Chironomini	A													
Cryptochironomus	L	FW		6		1	1							
Glyptochironomus	L	FW	3											
Parachironomus	L	FW												
Phaenopsectra	L	FW												
Phaenopsectra	P	FW												
Orthoclaadiinae	L*	FW												
Orthoclaadiinae	P	FW												
Eukiefferiella	P	FW												
Heterotrissocladius	L	FW	58	6	6		2							
Heterotrissocladius	P	FW	7	9	108	3	1							
Psectrocladius	L	FW												
Psectrocladius	P	FW												
Diamesinae	P	FW												
Monodiamesa	L	FW												
Monodiamesa	P	FW												
Protanypus	L	FW												
Protanypus	P	FW												
MOLLUSCA														
Bivalvia														
Sphaeriidae														
Pisidium		FW	8	3	4	4	2				4			
Sphaerium		FW									6			
Gastropoda		FW												
Valvatidae														
Valvata sincera sincera		FW									4			
FISH	juv	FW												
Fish	bones	FW												
Salmonidae	juv	FW												
Gasterosteidae		FW												
Pungitius pungitius		FW												
NON-FOOD ITEMS														
Case Materials					X	X								
Plant			X	X	X	X	X		X	X	X			
Pebble			X	X	X	X	X					X		
Mud/sand														
TOTAL			823	194	454	550	271	282	650	1,791	2,113	1,101	709	1,850

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake
Date	23-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	15	16	17	21	22	23	24	25	1	2	3	4	5	5
Stomach Number	3	4	5	6	7	8	9	10	1	2	3	4	5	5
Sample No.	090362	090363	090364	090365	090366	090367	090368	090369	090370	090371	090372	090373	090374	090374
Fullness (%)	25	75	5	25	90	75	75	50	100	75	50	50	75	75
Digestion (%)	50	90	5	75	50	50	25	90	75	75	50	75	90	90
Actual Weight (mg)	5,276	22,708	1,083	4,554	16,859	13,718	16,419	7,930	155,670	4,809	11,316	3,329	8,169	8,169
Comments														
Species/Group														
Cestodes (not included in data)	X	X		X			X	X						
Nematodes (not included in data)														
CRUSTACEA														
Cladocera														
Podocopidae														
Isopoda														
Saduria entomon														
Saduria entomon														
Amphipoda														
Gammaridae														
Gammaracanthus loricatus										1	2	1		
Gammarus lacustris	1	3												
Haustoriidae														
Pontoporeia affinis	12	72	1	2	1		1	2		1				
Myxidaceae														
Mysis relicta	14	40	13		1			2						
ARACHNIDA														
Hydracarina							3				1	1		
EPHEMEROPTERA														
Ephemerellidae														
Ephemerella sp												1		
PLECOPTERA														
Perlodidae			1											
TRICHOPTERA	5			1	5		3							5
Trichoptera				4				6			1			
Brachycentridae														
Brachycentrus														
Limnephilidae														
Grensia							4							
COLEOPTERA		2								1	5	2	1	
Dytiscidae				6							2		1	
Colymbetes		1									1	3		
Hydroporus												1	1	
Carabidae		1								1	2	1	8	
Cerambycidae														
Staphylinidae				1							1	1	1	
HYMENOPTERA										1				
DIPTERA		1												
Diptera										12				
Ceratopogonidae														
Probezzia														
Simuliidae														
Simulium											2	1		
Tipulidae											1			
Tipulidae	3	134		1		9	1				1		1	
Chironomidae				31										
Chironomidae	2										250	51	1,910	
Tanypodinae														
Procladius	9	93		59			30	56		3	8	2	38	
Procladius		31	1	7		4				427	62	10	38	
Thiennemannimyia	1													
Tanytarsini														
Paratanytarsus														
Paratanytarsus											6		38	

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Reference Lake B	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake
Date	23-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	15	16	17	21	22	23	24	25	1	2	3	4	5
Stomach Number	3	4	5	6	7	8	9	10	1	2	3	4	5
Sample No.	090362	090363	090364	090365	090366	090367	090368	090369	090370	090371	090372	090373	090374
Fullness (%)	25	75	5	25	90	75	75	50	100	75	50	50	75
Digestion (%)	50	90	5	75	50	50	25	90	75	75	50	75	90
Actual Weight (mg)	5,276	22,708	1,083	4,554	16,859	13,718	16,419	7,930	155,670	4,809	11,316	3,329	8,169
Comments													
Species/Group													
<i>Tanytarsus</i>		21	1	1	6	2	74			12	6	3	
Chironomini													
Chironomini				32	1,150	812	1,240	575			21	5	
Chironomini											1		
<i>Cryptochironomus</i>													
<i>Glyptochironomus</i>					2			1					
<i>Parachironomus</i>	1												
<i>Phaenopsectra</i>	4	1	1	1		1	25	6			2	2	2
<i>Phaenopsectra</i>	4	350	5		2			1				1	
Orthoclaadiinae	1												
Orthoclaadiinae	1	41	1										
<i>Eukiefferiella</i>												2	
<i>Heterotrissocladius</i>					1								
<i>Heterotrissocladius</i>													
<i>Psectrocladius</i>							1			47	8	7	
<i>Psectrocladius</i>										474	1,035	17	115
Diamesinae													
<i>Monodiamesa</i>	3				1		4	6					
<i>Monodiamesa</i>													1
<i>Protanypus</i>		1	2	5			13	1					
<i>Protanypus</i>	6	62	2			5							
MOLLUSCA													
Bivalvia													
Sphaeriidae													
<i>Pisidium</i>	3	9	3	8	26		85	5					
<i>Sphaerium</i>	2	11	2	3			9	6					
Gastropoda													
Valvatidae													
<i>Valvata sincera sincera</i>	5		12										
FISH	2								26		1	1	
Fish													
Salmonidae													
Gasterosteidae													
<i>Pungitius pungitius</i>													2
NON-FOOD ITEMS													
Case Materials	X	X		X	X	X	X	X					X
Plant	X	X			X		X	X	X	X	X	X	X
Pebble	X			X	X				X	X	X	X	X
Mud/sand	X												
TOTAL	79	874	45	162	1,195	837	1,489	667	26	980	1,419	113	2,162

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake
Date	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	23-Jul-09	23-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	28-Aug-09	28-Aug-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	7	8	9	10	1	2	6	7	8	9	7	8	9
Stomach Number	6	7	8	9	1	2	3	4	5	6	7	8	9
Sample No.	090375	090376	090377	090378	090379	090380	090381	090382	090383	090384	090385	090386	090387
Fullness (%)	75	50	25	50	90	5	1	5	75	10	90	75	75
Digestion (%)	25	90	90	90	50	90	100	50	90	95	50	50	50
Actual Weight (mg)	2,513	2,703	4,377	5,252	35,160	716	0	2,325	13,518	4,710	6,158	8,865	2,470
Comments	EMPTY												
Species/Group													
Cestodes (not included in data)													
Nematodes (not included in data)													
CRUSTACEA													
Cladocera													
Podocopidae													
Isopoda													
Saduria entomon				1									
Saduria entomon													
Amphipoda													
Gammaridae													
Gammaracanthus loricatus	1	1	4	2	2			5	2	5	1	1	3
Gammarus lacustris													
Haustoriidae													
Pontoporeia affinis													
Mysidacea													
Mysis relicta				1									
ARACHNIDA													
Hydracarina													
EPHEMEROPTERA													
Ephemerellidae													
Ephemerella sp													
PLECOPTERA													
Perlodidae													
TRICHOPTERA				22									
Trichoptera									2				
Brachycentridae													
Brachycentrus													
Limnephilidae													
Grensia													
COLEOPTERA				1									
Dytiscidae				1									
Colymbetes													
Hydroporus													
Carabidae			1	2									
Cerambycidae	1												
Staphylinidae													
HYMENOPTERA			1										
DIPTERA													
Diptera													
Ceratopogonidae													
Probezzia			1										
Simuliidae													
Simulium			2										
Tipulidae													
Tipulidae									1				
Chironomidae													
Chironomidae	530			38	44	3		5					
Tanypodinae													
Procladius	18	4	1										
Procladius	18	11	4										
Thiennemannimyia											1		
Tanytarsini													
Paratanytarsus													
Paratanytarsus	442				2								

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	Little Roberts Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake
Date	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	23-Jul-09	23-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	28-Aug-09	28-Aug-09	28-Aug-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	7	8	9	10	1	2	6	7	8	9	7	8	9
Stomach Number	6	7	8	9	1	2	3	4	5	6	7	8	9
Sample No.	090375	090376	090377	090378	090379	090380	090381	090382	090383	090384	090385	090386	090387
Fullness (%)	75	50	25	50	90	5	1	5	75	10	90	75	75
Digestion (%)	25	90	90	90	50	90	100	50	90	95	50	50	50
Actual Weight (mg)	2,513	2,703	4,377	5,252	35,160	716	0	2,325	13,518	4,710	6,158	8,865	2,470
Comments	EMPTY												
Species/Group													
<i>Tanytarsus</i>			1										
Chironomini													
Chironomini	10	232		2		5							
Chironomini													
<i>Cryptochironomus</i>													
<i>Glyptochironomus</i>													
<i>Parachironomus</i>													
<i>Phaenopsectra</i>		2	12										
<i>Phaenopsectra</i>			1										
Orthoclaadiinae													
Orthoclaadiinae						1							
<i>Eukiefferiella</i>													
<i>Heterotrissocladius</i>													
<i>Heterotrissocladius</i>													
<i>Psectrocladius</i>	35	2		1									
<i>Psectrocladius</i>	88	21	11	3									
Diamesinae													
<i>Monodiamesa</i>													
<i>Monodiamesa</i>													
<i>Protanypus</i>													
<i>Protanypus</i>													
MOLLUSCA													
Bivalvia													
Sphaeriidae													
<i>Pisidium</i>													
<i>Sphaerium</i>													
Gastropoda													
Valvatidae													
<i>Valvata sincera sincera</i>													
FISH	1	2	1	3					1				
Fish										1			
Salmonidae					1							3	
Gasterosteidae													
<i>Pungitius pungitius</i>								1			7	6	2
NON-FOOD ITEMS													
Case Materials			X										
Plant	X	X		X		X		X				X	
Pebble	X	X	X	X									
Mud/sand													
TOTAL	1,144	280	101	57	1	13	0	13	3	8	8	10	5

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	PO Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	PO Lake	PO Lake
Date	28-Aug-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	30-Jul-09	30-Jul-09	27-Jul-09	27-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake whitefish	Lake whitefish
Fish Number	10	1	5	21	31	49	62	66	78	79	80	1	2
Stomach Number	10	1	2	3	4	5	6	7	8	9	10	1	2
Sample No.	090388	090393	090394	090395	090396	090397	090398	090399	090400	090401	090402	090389	090390
Fullness (%)	75	75	90	75	75	90	100	90	75	90	75	60	60
Digestion (%)	25	75	50	50	50	25	25	90	50	50	50	50	50
Actual Weight (mg)	6,297	10,031	13,450	3,884	5,796	2,744	13,554	41,570	4,720	19,432	22,296	3,079	5,451
Comments													
Species/Group													
Cestodes (not included in data)													
Nematodes (not included in data)		X	X	X	X	X	X		X	X	X		
CRUSTACEA													
Cladocera													
Podocopidae													
Isopoda													
Saduria entomon			10	1		17	205		1				1
Saduria entomon													1
Amphipoda													
Gammaridae													
Gammaracanthus loricatus	1	1	12	6					1	7	2	14	15
Gammarus lacustris													
Haustoriidae													
Pontoporeia affinis													
Mysidacea													
Mysis relicta		235		45	26	72	660		110	506	332		
ARACHNIDA													
Hydracarina													
EPHEMEROPTERA													
Ephemerellidae													
Ephemerella sp													
PLECOPTERA													
Perlodidae													
TRICHOPTERA													
Trichoptera													
Brachycentridae													
Brachycentrus													
Limnephilidae													
Grensia													
COLEOPTERA													
Dytiscidae													
Colymbetes													
Hydroporus													
Carabidae		6							1				
Cerambycidae													
Staphylinidae													
HYMENOPTERA													
DIPTERA													
Diptera													
Ceratopogonidae													
Probezzia													
Simuliidae													
Simulium													
Tipulidae													
Tipulidae													
Chironomidae													
Chironomidae				1	2	6							2
Tanypodinae													
Procladius													
Procladius													
Thiennemannimyia													
Tanytarsini													
Paratanytarsus													
Paratanytarsus									1				

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	PO Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	PO Lake	PO Lake
Date	28-Aug-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	30-Jul-09	30-Jul-09	27-Jul-09	27-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake whitefish	Lake whitefish
Fish Number	10	1	5	21	31	49	62	66	78	79	80	1	2
Stomach Number	10	1	2	3	4	5	6	7	8	9	10	1	2
Sample No.	090388	090393	090394	090395	090396	090397	090398	090399	090400	090401	090402	090389	090390
Fullness (%)	75	75	90	75	75	90	100	90	75	90	75	60	60
Digestion (%)	25	75	50	50	50	25	25	90	50	50	50	50	50
Actual Weight (mg)	6,297	10,031	13,450	3,884	5,796	2,744	13,554	41,570	4,720	19,432	22,296	3,079	5,451
Comments													
Species/Group													
Tanytarsus													
Chironomini	21												
Chironomini	1												
Chironomini													
Cryptochironomus													
Glyptochironomus													
Parachironomus													
Phaenopsectra													
Phaenopsectra													
Orthoclaadiinae													
Orthoclaadiinae	6												
Eukiefferiella													
Heterotrissocladius													
Heterotrissocladius													
Psectrocladius													
Psectrocladius													
Diamesinae													
Monodiamesa													
Monodiamesa													
Protanypus													
Protanypus													
MOLLUSCA													
Bivalvia													
Sphaeriidae													
Pisidium													
Sphaerium	1												
Gastropoda													
Valvatidae													
Valvata sincera sincera													
FISH	1												
Fish	1												
Salmonidae													
Gasterosteidae													
Pungitius pungitius	6												
NON-FOOD ITEMS													
Case Materials													
Plant		X	X	X	X	X	X		X			X	X
Pebble		X	X	X	X	X	X		X	X	X		
Mud/sand													
TOTAL	7	242	68	59	28	97	868	1	119	514	335	16	19

Notes:
A = adult; cop = copepodite (juvenile copepod); dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	PO Lake	PO Lake
Date	27-Jul-09	27-Jul-09
Fish Species	Lake whitefish	Lake whitefish
Fish Number	3	4
Stomach Number	3	4
Sample No.	090391	090392
Fullness (%)	60	75
Digestion (%)	25	50
Actual Weight (mg)	2,656	8,750
Comments		
Species/Group		
<u>Cestodes (not included in data)</u>		
<u>Nematodes (not included in data)</u>		
<u>CRUSTACEA</u>		
<u>Cladocera</u>		
Podocopidae		
<u>Isopoda</u>		
<i>Saduria entomon</i>		
<i>Saduria entomon</i>		4
<u>Amphipoda</u>		
Gammaridae		
<i>Gammaracanthus loricatus</i>	5	26
<i>Gammarus lacustris</i>		
Haustoriidae		
<i>Pontoporeia affinis</i>		
<u>Mysidacea</u>		
<i>Mysis relicta</i>		
ARACHNIDA		
Hydracarina		
2		
EPHEMEROPTERA		
Ephemerellidae		
<i>Ephemerella</i> sp		
PLECOPTERA		
Perlodidae		
TRICHOPTERA		
Trichoptera		
Brachycentridae		
<i>Brachycentrus</i>		
Limnephilidae		
<i>Grensia</i>		
COLEOPTERA		
Dytiscidae		
<i>Colymbetes</i>		
<i>Hydroporus</i>		
Carabidae		
Cerambycidae		
Staphylinidae		
HYMENOPTERA		
DIPTERA		
Diptera		
Ceratopogonidae		
<i>Probezzia</i>		
Simuliidae		
<i>Simulium</i>		
Tipulidae		
Tipulidae		
<u>Chironomidae</u>		
Chironomidae		
Tanypodinae		
<i>Procladius</i>		
<i>Procladius</i>		
<i>Thienemannimyia</i>		
Tanytarsini		
<i>Paratanytarsus</i>		
<i>Paratanytarsus</i>		

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-4. Fish Diet Data (Number), Hope Bay Belt Project, 2009

Location	PO Lake	PO Lake
Date	27-Jul-09	27-Jul-09
Fish Species	Lake whitefish	Lake whitefish
Fish Number	3	4
Stomach Number	3	4
Sample No.	090391	090392
Fullness (%)	60	75
Digestion (%)	25	50
Actual Weight (mg)	2,656	8,750
Comments		
Species/Group <i>Tanytarsus</i> Chironomini Chironomini Chironomini <i>Cryptochironomus</i> <i>Glyptochironomus</i> <i>Parachironomus</i> <i>Phaenopsectra</i> <i>Phaenopsectra</i> Orthoclaadiinae Orthoclaadiinae <i>Eukiefferiella</i> <i>Heterotrissocladius</i> <i>Heterotrissocladius</i> <i>Psectrocladius</i> <i>Psectrocladius</i> Diamesinae <i>Monodiamesa</i> <i>Monodiamesa</i> <i>Protanypus</i> <i>Protanypus</i> MOLLUSCA Bivalvia Sphaeriidae <i>Pisidium</i> <i>Sphaerium</i> Gastropoda Valvatidae <i>Valvata sincera sincera</i> FISH Fish Salmonidae Gasterosteidae <i>Pungitius pungitius</i> NON-FOOD ITEMS Case Materials Plant Pebble Mud/sand TOTAL		
	X	X
TOTAL	7	30

Notes:
A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5

Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake
Date	21-Jul-09	21-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	23-Jul-09	23-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	2	3	4	7	8	9	10	14	15	16	9	10	2
Stomach Number	1	2	3	4	5	6	7	8	9	10	1	2	2
Sample No.	090350	090351	090352	090353	090354	090355	090356	090357	090358	090359	090360	090361	090361
Fullness (%)	75	50	75	90	75	75	100	90	90	100	75	75	75
Digestion (%)	25	25	25	25	50	50	75	75	90	50	50	75	75
Actual Weight (mg)	8,557	2,053	6,921	8,385	7,517	5,432	3,727	24,455	17,675	50,630	15,245	20,747	20,747
Comments													
Species/Group	Stage	Origin											
Cestodes (not included in data)			45	55	146	64	57	412	113				
Nematodes (not included in data)													
CRUSTACEA													
Cladocera													
Podocopidae		M				1							
Isopoda													
Saduria entomon	juv	M				5		8					
Saduria entomon	A	M		640					6,050	5,455	42,845		
Amphipoda													
Gammaridae		M											
Gammaracanthus loricatus		M		100	10	28	117		2,500				
Gammarus lacustris		FW											
Haustoridae													
Pontoporeia affinis		M/FW											
Mysidacea													
Mysis relicta		M/FW	8,163	1,873	5,980	3,980	3,787	2,757	95			520	
ARACHNIDA													
Hydracarina		FW					2						
EPHEMEROPTERA													
Ephemerellidae													
Ephemerella sp	N	FW											
PLECOPTERA	N*	FW											
Perlodidae	N	FW											
TRICHOPTERA	L	FW											
Trichoptera	P	FW				9	5						
Brachycentridae													
Brachycentrus	P	FW											
Limnephilidae	L	FW											
Grensia	L	FW											
COLEOPTERA	A	TERR			50								
Dytiscidae	A	FW											
Colymbetes	A	FW											
Hydroporus	A	FW											
Carabidae	A	TERR											
Cerambycidae	A	TERR				155							
Staphylinidae	A	TERR											
HYMENOPTERA	A	TERR											
DIPTERA	P	TERR											
Diptera	A	FW							50				
Ceratopogonidae													
Probezzia	L	FW											
Simuliidae													
Simulium	L	FW											
Tipulidae	L	FW											
Tipulidae	A	FW				3,440							
Chironomidae	L*	FW											
Chironomidae	P	FW			5				493	849	793	131	
Tanypodinae													
Procladius	L	FW	214	48	2	204	20	42	2			28	5
Procladius	P	FW										218	5,308
Thiennemannimyia	L	FW											
Tanytarsini													
Paratanytarsus	L												

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake
Date	21-Jul-09	21-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	22-Jul-09	23-Jul-09	23-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	2	3	4	7	8	9	10	14	15	16	9	10
Stomach Number	1	2	3	4	5	6	7	8	9	10	1	2
Sample No.	090350	090351	090352	090353	090354	090355	090356	090357	090358	090359	090360	090361
Fullness (%)	75	50	75	90	75	75	75	100	90	100	75	75
Digestion (%)	25	25	25	25	50	50	75	75	90	50	50	75
Actual Weight (mg)	8,557	2,053	6,921	8,385	7,517	5,432	3,727	24,455	17,675	50,630	15,245	20,747
Comments												
Species/Group	Stage	Origin										
<i>Paratanytarsus</i>	P	FW		6								
<i>Tanytarsus</i>	P	FW									10	27
Chironomini	L*	FW									3	
Chironomini	P	FW					3,060	15,905	11,320	6,937	14,060	10,537
Chironomini	A											
<i>Cryptochironomus</i>	L	FW		6		1	1					
<i>Glyptochironomus</i>	L	FW	36									
<i>Parachironomus</i>	L	FW										
<i>Phaenopsectra</i>	L	FW										
<i>Phaenopsectra</i>	P	FW										
Orthoclaadiinae	L*	FW										
Orthoclaadiinae	P	FW										
<i>Eukiefferiella</i>	P	FW										
<i>Heterotrissocladius</i>	L	FW	58	6	12		3					
<i>Heterotrissocladius</i>	P	FW	9	12	204	5	2					
<i>Psectrocladius</i>	L	FW										
<i>Psectrocladius</i>	P	FW										
Diametinae	P	FW										
<i>Monodiamesa</i>	L	FW										
<i>Monodiamesa</i>	P	FW										
<i>Protanypus</i>	L	FW										
<i>Protanypus</i>	P	FW										
MOLLUSCA												
Bivalvia												
Sphaeriidae												
<i>Pisidium</i>		FW	22	8	18	30	7				48	
<i>Sphaerium</i>		FW									84	
Gastropoda		FW										
Valvatidae												
<i>Valvata sincera sincera</i>		FW									94	
FISH	juv	FW										
Fish	bones	FW										
Salmonidae	juv	FW										
Gasterosteidae		FW										
<i>Pungitius pungitius</i>		FW										
NON-FOOD ITEMS												
Case Materials						13	7					
Plant			26	12	115	191	57	687	7	51	55	49
Pebble			65	2	75	160	3,564	1,812	8			4,870
Mud/sand												
TOTAL			8,557	2,053	6,921	8,385	7,517	5,432	3,727	24,455	17,675	50,630
											15,245	20,747

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect; J to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Little Roberts	Little Roberts	Little Roberts	Little Roberts	Little Roberts
Date	23-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	15	16	17	21	22	23	24	25	1	2	3	4	5	
Stomach Number	3	4	5	6	7	8	9	10	1	2	3	4	5	
Sample No.	090362	090363	090364	090365	090366	090367	090368	090369	090370	090371	090372	090373	090374	
Fullness (%)	25	75	5	25	90	75	75	50	100	75	50	50	75	
Digestion (%)	50	90	5	75	50	50	25	90	75	75	50	75	90	
Actual Weight (mg)	5,276	22,708	1,083	4,554	16,859	13,718	16,419	7,930	155,670	4,809	11,316	3,329	8,169	
Comments														
Species/Group														
Cestodes (not included in data)	417	402		105				1,661	204					
Nematodes (not included in data)														
CRUSTACEA														
Cladocera														
Podocopidae														
Isopoda														
Saduria entomon														
Saduria entomon														
Amphipoda														
Gammaridae														
Gammaracanthus loricatus														
Gammarus lacustris	45	69								352	424	234		
Haustoridae														
Pontoporeia affinis	149	793	7	27	17		13	22		15				
Mysidacea														
Mysis relicta	384	258	385		28			74						
ARACHNIDA														
Hydracarina							7				1	1		
EPHEMEROPTERA														
Ephemerellidae														
Ephemerella sp												50		
PLECOPTERA														
Perlodidae			226											
TRICHOPTERA	125			5	25		15							125
Trichoptera				40				180			40			
Brachycentridae														
Brachycentrus														
Limnephilidae														
Grensia						120								
COLEOPTERA		30								25	100	50	40	
Dytiscidae				120							40		33	
Colymbetes		50									50	150		
Hydroporus												10	10	
Carabidae		17								51	36	13	104	
Cerambycidae														
Staphylinidae				1							3	4	4	
HYMENOPTERA										10				
DIPTERA		10												
Diptera														
Ceratopogonidae										1,067				
Probezzia														
Simuliidae														
Simulium											2	1		
Tipulidae											40			
Tipulidae	405	18,081		135		1,215	135				135		135	
Chironomidae				117										
Chironomidae	2										497	100	3,819	
Tanypodinae														
Procladius	53	402		59			126	362		18	21	10	190	
Procladius		124	6	254		20				1,849	310	40	153	
Thiennemannimyia	2													
Tanytarsini														
Paratanytarsus														

Notes:

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 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Reference Lake	Little Roberts	Little Roberts	Little Roberts	Little Roberts	Little Roberts
Date	23-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	26-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	15	16	17	21	22	23	24	25	1	2	3	4	5	5
Stomach Number	3	4	5	6	7	8	9	10	1	2	3	4	5	5
Sample No.	090362	090363	090364	090365	090366	090367	090368	090369	090370	090371	090372	090373	090374	090374
Fullness (%)	25	75	5	25	90	75	75	50	100	75	50	50	75	75
Digestion (%)	50	90	5	75	50	50	25	90	75	75	50	75	90	90
Actual Weight (mg)	5,276	22,708	1,083	4,554	16,859	13,718	16,419	7,930	155,670	4,809	11,316	3,329	8,169	8,169
Comments														
Species/Group														
<i>Paratanytarsus</i>														38
<i>Tanytarsus</i>		21	1	2	12	3	74			12	6	3		
Chironomini				480	15,671	12,139	14,972	6,959			269	55		
Chironomini											11			
<i>Cryptochironomus</i>														
<i>Glyptochironomus</i>					20			5						
<i>Parachironomus</i>	6													
<i>Phaenopsectra</i>	17	4	2	3		5	92	22			2	3	7	
<i>Phaenopsectra</i>	20	1,751	35		10			4				5		
Orthocladinae	1													
Orthocladinae	1	82	1											
<i>Eukiefferiella</i>													2	
<i>Heterotrissocladius</i>					1									
<i>Heterotrissocladius</i>														
<i>Psectrocladius</i>							1							
<i>Psectrocladius</i>										59	7	10		267
Diamesinae										1,328	3,331	41		
<i>Monodiamesa</i>	21				5		33	50						
<i>Monodiamesa</i>														15
<i>Protanypus</i>			14	35			63	9						
<i>Protanypus</i>	54	566	14			40								
MOLLUSCA														
Bivalvia														
Sphaeriidae														
<i>Pisidium</i>	23	53	20	74	260		700	21						
<i>Sphaerium</i>	18	73	44	35			71	43						
Gastropoda														
Valvatidae														
<i>Valvata sincera sincera</i>	70		328											
FISH	1,000								145,517		500	500		
Fish														
Salmonidae														
Gasterosteidae														
<i>Pungitius pungitius</i>														1,000
NON-FOOD ITEMS														
Case Materials	91	124			210	176	100	110						166
Plant	35	196		3,145	14		17	69	5,776	17	14	1,223	1,299	
Pebble	136			22	586				4,377	6	5,471	824	764	
Mud/sand	2,618													
TOTAL	5,276	22,708	1,083	4,554	16,859	13,718	16,419	7,930	155,670	4,809	11,316	3,329	8,169	8,169

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect; J to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	Little Roberts	Little Roberts	Little Roberts	Little Roberts	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake
Date	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	23-Jul-09	23-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	28-Aug-09	28-Aug-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	7	8	9	10	1	2	6	7	8	9	7	8	9
Stomach Number	6	7	8	9	1	2	3	4	5	6	7	8	9
Sample No.	090375	090376	090377	090378	090379	090380	090381	090382	090383	090384	090385	090386	090387
Fullness (%)	75	50	25	50	90	5	1	5	75	10	90	75	75
Digestion (%)	25	90	90	90	50	90	100	50	90	95	50	50	50
Actual Weight (mg)	2,513	2,703	4,377	5,252	35,160	716	0	2,325	13,518	4,710	6,158	8,865	2,470
Comments	EMPTY												
Species/Group													
Cestodes (not included in data)													
Nematodes (not included in data)													
CRUSTACEA													
Cladocera													
Podocopidae													
Isopoda													
Saduria entomon													
Saduria entomon													
Amphipoda													
Gammaridae													
Gammaracanthus loricatus													
Gammarus lacustris													
Haustoridae													
Pontoporeia affinis													
Mysidacea													
Mysis relicta													
ARACHNIDA													
Hydracarina													
EPHEMEROPTERA													
Ephemerellidae													
Ephemerella sp													
PLECOPTERA													
Perlodidae													
TRICHOPTERA													
Trichoptera													
Brachycentridae													
Brachycentrus													
Limnephilidae													
Grensia													
COLEOPTERA													
Dytiscidae													
Colymbetes													
Hydroporus													
Carabidae													
Cerambycidae													
Staphylinidae													
HYMENOPTERA													
DIPTERA													
Diptera													
Ceratopogonidae													
Probezzia													
Simuliidae													
Simulium													
Tipulidae													
Tipulidae													
Chironomidae													
Chironomidae													
Tanypodinae													
Procladius													
Procladius													
Thiennemannimyia													
Tanytarsini													
Paratanytarsus													

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	Little Roberts	Little Roberts	Little Roberts	Little Roberts	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake	PO Lake
Date	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	23-Jul-09	23-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	27-Jul-09	28-Aug-09	28-Aug-09	28-Aug-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout
Fish Number	7	8	9	10	1	2	6	7	8	9	7	8	9
Stomach Number	6	7	8	9	1	2	3	4	5	6	7	8	9
Sample No.	090375	090376	090377	090378	090379	090380	090381	090382	090383	090384	090385	090386	090387
Fullness (%)	75	50	25	50	90	5	1	5	75	10	90	75	75
Digestion (%)	25	90	90	90	50	90	100	50	90	95	50	50	50
Actual Weight (mg)	2,513	2,703	4,377	5,252	35,160	716	0	2,325	13,518	4,710	6,158	8,865	2,470
Comments	EMPTY												
Species/Group													
<i>Paratanytarsus</i>	460			2									
<i>Tanytarsus</i>			1										
Chironomini													
Chironomini	120	464		26		70							
Chironomini													
<i>Cryptochironomus</i>													
<i>Glyptochironomus</i>													
<i>Parachironomus</i>													
<i>Phaenopsectra</i>		4	24										
<i>Phaenopsectra</i>			8										
Orthoclaadiinae													
Orthoclaadiinae						2							
<i>Eukiefferiella</i>													
<i>Heterotrissocladius</i>													
<i>Heterotrissocladius</i>													
<i>Psectrocladius</i>	71	2		1									
<i>Psectrocladius</i>	177	47	22	6									
Diaminae													
<i>Monodiamesa</i>													
<i>Monodiamesa</i>													
<i>Protanypus</i>													
<i>Protanypus</i>													
MOLLUSCA													
Bivalvia													
Sphaeriidae													
<i>Pisidium</i>													
<i>Sphaerium</i>													
Gastropoda													
Valvatidae													
<i>Valvata sincera sincera</i>													
FISH	500	750	985	4,410					13,058				
Fish										3,863			
Salmonidae					35,160							4,423	
Gasterosteidae													
<i>Pungitius pungitius</i>								760			5,949	4,259	1,529
NON-FOOD ITEMS													
Case Materials			1,025										
Plant	7	149		130		62		43				55	
Pebble	12	959	490	79									
Mud/sand													
TOTAL	2,513	2,703	4,377	5,252	35,160	716	0	2,325	13,518	4,710	6,158	8,865	2,470

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect); J to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	PO Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	PO Lake	PO Lake				
Date	28-Aug-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	30-Jul-09	30-Jul-09	27-Jul-09	27-Jul-09				
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake whitefish	Lake whitefish				
Fish Number	10	1	5	21	31	49	62	66	78	79	80	1	2				
Stomach Number	10	1	2	3	4	5	6	7	8	9	10	1	2				
Sample No.	090388	090393	090394	090395	090396	090397	090398	090399	090400	090401	090402	090389	090390				
Fullness (%)	75	75	90	75	75	90	100	90	75	90	75	60	60				
Digestion (%)	25	75	50	50	50	25	25	90	50	50	50	50	50				
Actual Weight (mg)	6,297	10,031	13,450	3,884	5,796	2,744	13,554	41,570	4,720	19,432	22,296	3,079	5,451				
Comments																	
Species/Group																	
Cestodes (not included in data)																	
Nematodes (not included in data)		66	6,945	3,487	27	2,734	1,386		4,944	703	53						
CRUSTACEA																	
Cladocera																	
Podocopidae																	
Isopoda																	
Saduria entomon			60	2		49	456		11				18				
Saduria entomon													2,513				
Amphipoda																	
Gammaridae																	
Gammaracanthus loricatus	187	250	1,624	480					117	726	340	2,184	2,207				
Gammarus lacustris																	
Haustoridae																	
Pontoporeia affinis																	
Mysidacea																	
Mysis relicta		3,880		1,046	605	1,358	12,794		2,411	9,929	6,221						
ARACHNIDA																	
Hydracarina																	
EPHEMEROPTERA																	
Ephemerellidae																	
Ephemerella sp																	
PLECOPTERA																	
Perlodidae																	
TRICHOPTERA																	
Trichoptera																	
Brachycentridae																	
Brachycentrus												22					
Limnephilidae																	
Grensia																	
COLEOPTERA																	
Dytiscidae											60	40					
Colymbetes																	
Hydroporus																	
Carabidae		240							20								
Cerambycidae																	
Staphylinidae																	
HYMENOPTERA																	
DIPTERA																	
Diptera																	
Ceratopogonidae																	
Probezzia																	
Simuliidae																	
Simulium																	
Tipulidae																	
Tipulidae																	
Chironomidae																	
Chironomidae																	
Tanypodinae																	
Procladius																	
Procladius																	
Thiennemannimyia																	
Tanytarsini																	
Paratanytarsus														1			

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect; I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the
 sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	PO Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	Windy Lake	PO Lake	PO Lake
Date	28-Aug-09	28-Jul-09	28-Jul-09	28-Jul-09	28-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	29-Jul-09	30-Jul-09	30-Jul-09	27-Jul-09	27-Jul-09
Fish Species	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake trout	Lake whitefish	Lake whitefish
Fish Number	10	1	5	21	31	49	62	66	78	79	80	1	2
Stomach Number	10	1	2	3	4	5	6	7	8	9	10	1	2
Sample No.	090388	090393	090394	090395	090396	090397	090398	090399	090400	090401	090402	090389	090390
Fullness (%)	75	75	90	75	75	90	100	90	75	90	75	60	60
Digestion (%)	25	75	50	50	50	25	25	90	50	50	50	50	50
Actual Weight (mg)	6,297	10,031	13,450	3,884	5,796	2,744	13,554	41,570	4,720	19,432	22,296	3,079	5,451
Comments													
Species/Group													
Paratanytarsus													
Tanytarsus													
Chironomini													
Chironomini													
Chironomini													
Cryptochironomus													
Glyptochironomus													
Parachironomus													
Phaenopsectra													
Phaenopsectra													
Orthocladinae													
Orthocladinae													
Eukiefferiella													
Heterotrissocladius													
Heterotrissocladius													
Psectrocladius													
Psectrocladius													
Diamesinae													
Monodiamesa													
Monodiamesa													
Protanypus													
Protanypus													
MOLLUSCA													
Bivalvia													
Sphaeriidae													
Pisidium													
Sphaerium													
Gastropoda													
Valvatidae													
Valvata sincera sincera													
FISH													
Fish													
Salmonidae													
Gasterosteidae													
Pungitius pungitius													
NON-FOOD ITEMS													
Case Materials													
Plant													
Pebble													
Mud/sand													
TOTAL	6,297	10,031	13,450	3,884	5,796	2,744	13,554	41,570	4,720	19,432	22,296	3,079	5,451

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
 juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
 M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
 P = pupa (second juvenile of homometabolous insect); I to V = first through fifth copepodite stages;
 FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
 Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	PO Lake	PO Lake
Date	27-Jul-09	27-Jul-09
Fish Species	Lake whitefish	Lake whitefish
Fish Number	3	4
Stomach Number	3	4
Sample No.	090391	090392
Fullness (%)	60	75
Digestion (%)	25	50
Actual Weight (mg)	2,656	8,750
Comments		
Species/Group		
Cestodes (not included in data)		
Nematodes (not included in data)		
CRUSTACEA		
Cladocera		
Podocopidae		
Isopoda		
Saduria entomon		
Saduria entomon		2,566
Amphipoda		
Gammaridae		
Gammaracanthus loricatus	2,533	4,653
Gammarus lacustris		
Haustoridae		
Pontoporeia affinis		
Mysidacea		
Mysis relicta		
ARACHNIDA		
Hydracarina	1	
EPHEMEROPTERA		
Ephemerellidae		
Ephemerella sp		
PLECOPTERA		
Perlodidae		
TRICHOPTERA		
Trichoptera		
Brachycentridae		
Brachycentrus		
Limnephilidae		
Grensia		
COLEOPTERA		
Dytiscidae		
Colymbetes		
Hydroporus		
Carabidae		
Cerambycidae		
Staphylinidae		
HYMENOPTERA		
DIPTERA		
Diptera		
Ceratopogonidae		
Probezzia		
Simuliidae		
Simulium		
Tipulidae		
Tipulidae		
Chironomidae		
Chironomidae		
Tanypodinae		
Procladius		
Procladius		
Thiennemannimyia		
Tanytarsini		
Paratanytarsus		

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homoetabolous insect; I to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-5. Fish Diet Data (Wet Weight), Hope Bay Belt Project, 2009

Location	PO Lake	PO Lake
Date	27-Jul-09	27-Jul-09
Fish Species	Lake whitefish	Lake whitefish
Fish Number	3	4
Stomach Number	3	4
Sample No.	090391	090392
Fullness (%)	60	75
Digestion (%)	25	50
Actual Weight (mg)	2,656	8,750
Comments		
Species/Group <i>Paratanytarsus</i> <i>Tanytarsus</i> Chironomini Chironomini Chironomini <i>Cryptochironomus</i> <i>Glyptochironomus</i> <i>Parachironomus</i> <i>Phaenopsectra</i> <i>Phaenopsectra</i> Orthoclaadiinae Orthoclaadiinae <i>Eukiefferiella</i> <i>Heterotrissocladius</i> <i>Heterotrissocladius</i> <i>Psectrocladius</i> <i>Psectrocladius</i> Damesinae <i>Monodiamesa</i> <i>Monodiamesa</i> <i>Protanypus</i> <i>Protanypus</i> MOLLUSCA Bivalvia Sphaeriidae <i>Pisidium</i> <i>Sphaerium</i> Gastropoda Valvatidae <i>Valvata sincera sincera</i> FISH Fish Salmonidae Gasterosteidae <i>Pungitius pungitius</i> NON-FOOD ITEMS Case Materials Plant Pebble Mud/sand TOTAL		
	122	1,531
	2,656	8,750

Notes:

A = adult; cop = copepodite (juvenile copepod; dam = damaged; E = egg; F = female
juv = juvenile; L = larva (first juvenile of homometabolous insect); L* = larva too small to be identified further
M = male; N = nymph (juvenile of hemimetabolous insect); N* = nymph too small to be identified further
P = pupa (second juvenile of homometabolous insect); J to V = first through fifth copepodite stages;
FW = freshwater; M = marine; TERR = terrestrial; X = present (in fish diet studies)
Estimated Weight = used when parts add up to more than the actual weight recorded, usually when the sample is heavily digested.

Appendix 3.2-6

Fish Tissue Metals Concentrations of Lake Trout Sampled
from Lakes, Hope Bay Belt Project, 2009

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	LITTLE ROBERTS LAKE-LIVER-1	LITTLE ROBERTS LAKE-LIVER-2	LITTLE ROBERTS LAKE-LIVER-3	LITTLE ROBERTS LAKE-LIVER-4	LITTLE ROBERTS LAKE-LIVER-5	LITTLE ROBERTS LAKE-LIVER-6	LITTLE ROBERTS LAKE-LIVER-7	LITTLE ROBERTS LAKE-LIVER-8	LITTLE ROBERTS LAKE-LIVER-9
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-61	L806060-62	L806060-63	L806060-64	L806060-65	L806060-66	L806060-67	L806060-68	L806060-69
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	593	402	420	462	415	368	391	454	344
Physical Tests									
% Moisture	75.2	73.2	79.4	74.4	77.4	76.6	76.6	73.2	74.7
Metals									
Aluminum (Al)	4.4	19.2	9.0	7.1	18.7	5.2	12.7	11.4	4.9
Antimony (Sb)	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As)	2.11	0.058	0.054	0.069	0.036	0.308	0.047	0.088	0.092
Barium (Ba)	0.048	0.042	0.025	<0.020	<0.020	0.023	0.024	0.025	<0.020
Beryllium (Be)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bismuth (Bi)	<0.030	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Cadmium (Cd)	0.0731	0.066	0.024	0.059	0.027	0.020	0.031	0.036	0.016
Calcium (Ca)	115	56.5	145	71.8	76.0	86.5	51.8	61.2	81.2
Chromium (Cr)	0.16	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cobalt (Co)	0.028	0.088	0.073	0.067	0.047	0.051	0.071	0.162	<0.040
Copper (Cu)	8.85	28.2	7.35	18.3	3.45	19.1	7.09	16.8	17.1
Lead (Pb)	<0.020	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Lithium (Li)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium (Mg)	184	219	227	193	256	210	211	212	229
Manganese (Mn)	1.70	1.95	2.79	1.60	2.65	2.13	1.83	2.19	2.13
Mercury (Hg)	0.0934	0.189	0.138	0.306	0.176	0.210	0.177	0.368	0.135
Molybdenum (Mo)	0.056	0.152	0.112	0.186	0.135	0.151	0.153	0.212	0.141
Nickel (Ni)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Selenium (Se)	2.98	1.53	0.86	1.39	0.92	1.37	1.07	1.75	1.05
Strontium (Sr)	0.328	0.125	0.188	0.108	0.092	0.133	0.083	0.095	0.144
Thallium (Tl)	<0.010	0.103	0.085	0.043	0.071	0.084	0.045	0.056	0.068
Tin (Sn)	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Uranium (U)	<0.0020	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Vanadium (V)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Zinc (Zn)	24.9	53.0	32.3	38.4	29.5	40.0	34.5	43.6	41.9

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	LITTLE ROBERTS LAKE-MUSCLE-1	LITTLE ROBERTS LAKE-MUSCLE-2	LITTLE ROBERTS LAKE-MUSCLE-3	LITTLE ROBERTS LAKE-MUSCLE-4	LITTLE ROBERTS LAKE-MUSCLE-5	LITTLE ROBERTS LAKE-MUSCLE-6	LITTLE ROBERTS LAKE-MUSCLE-7	LITTLE ROBERTS LAKE-MUSCLE-8	LITTLE ROBERTS LAKE-MUSCLE-9
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-70	L806060-71	L806060-72	L806060-73	L806060-74	L806060-75	L806060-76	L806060-77	L806060-78
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	593	402	420	462	415	368	391	454	344
Physical Tests									
% Moisture	74.5	79.9	75.4	77.6	76.6	76.2	78.3	77.5	74.9
Metals									
Aluminum (Al)	2.2	2.4	2.2	2.7	3.2	13.1	2.1	2.2	<2.0
Antimony (Sb)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic (As)	0.928	0.035	0.031	0.025	0.027	0.065	0.036	0.038	0.026
Barium (Ba)	0.017	0.214	0.034	0.018	0.029	0.115	<0.010	<0.010	0.012
Beryllium (Be)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth (Bi)	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Cadmium (Cd)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca)	269	567	206	333	426	1080	123	111	246
Chromium (Cr)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt (Co)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Copper (Cu)	0.256	0.328	0.282	0.261	0.181	0.243	0.222	0.222	0.265
Lead (Pb)	<0.020	<0.020	0.033	<0.020	<0.020	0.104	<0.020	<0.020	<0.020
Lithium (Li)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium (Mg)	305	284	334	284	311	337	320	302	333
Manganese (Mn)	0.126	0.251	0.173	0.194	0.205	0.407	0.176	0.169	0.181
Mercury (Hg)	0.0836	0.147	0.110	0.143	0.0766	0.0481	0.0790	0.115	0.0654
Molybdenum (Mo)	<0.010	<0.010	<0.010	<0.010	<0.010	0.044	<0.010	0.011	<0.010
Nickel (Ni)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (Se)	0.56	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	0.23	<0.20
Strontium (Sr)	0.562	0.975	0.269	0.421	0.610	1.73	0.106	0.098	0.383
Thallium (Tl)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tin (Sn)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium (U)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium (V)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	4.56	4.31	4.78	3.83	3.46	4.63	3.79	3.38	4.70

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	P.O. LAKE-LIVER- LKTR-1	P.O. LAKE-LIVER- LKTR-2	P.O. LAKE-LIVER- LKTR-6	P.O. LAKE-LIVER- LKTR-7	P.O. LAKE-LIVER- LKTR-8	P.O. LAKE-LIVER- LKTR-9	P.O. LAKE-LIVER- WHITEFISH-1	P.O. LAKE-LIVER- WHITEFISH-2	P.O. LAKE-LIVER- WHITEFISH-3
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-79	L806060-80	L806060-81	L806060-82	L806060-83	L806060-84	L806060-85	L806060-86	L806060-87
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	558	521	523	510	454	495	387	428	
Physical Tests									
% Moisture	74.7	67.8	72.1	75.1	78.0	80.0	76.8	80.3	76.1
Metals									
Aluminum (Al)	4.2	<4.0	5.7	7.3	<4.0	5.3	5.1	7.5	5.2
Antimony (Sb)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As)	0.071	0.147	0.102	0.102	0.048	0.118	0.098	0.089	0.179
Barium (Ba)	<0.020	<0.020	0.029	<0.020	<0.020	<0.020	<0.020	0.043	0.027
Beryllium (Be)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bismuth (Bi)	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Cadmium (Cd)	0.017	0.013	0.022	0.018	<0.010	0.012	0.049	0.067	0.055
Calcium (Ca)	60.2	53.9	55.8	76.4	112	108	86.1	111	55.7
Chromium (Cr)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cobalt (Co)	0.125	0.065	0.101	0.107	0.075	0.083	0.046	0.042	0.041
Copper (Cu)	14.0	8.69	12.5	15.0	7.39	10.3	4.15	3.49	2.56
Lead (Pb)	<0.040	0.041	0.090	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Lithium (Li)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium (Mg)	183	179	185	185	171	168	183	176	199
Manganese (Mn)	1.50	1.62	1.76	1.87	1.72	1.71	2.09	1.45	1.99
Mercury (Hg)	0.262	0.210	0.175	0.230	0.169	0.181	0.127	0.726	0.101
Molybdenum (Mo)	0.119	0.129	0.137	0.159	0.124	0.106	0.153	0.136	0.145
Nickel (Ni)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Selenium (Se)	1.31	1.21	1.33	1.24	1.43	1.05	1.43	1.55	1.34
Strontium (Sr)	0.118	0.094	0.173	0.190	0.229	0.246	0.258	0.294	0.235
Thallium (Tl)	0.045	0.030	0.038	0.029	0.035	0.029	<0.020	0.027	0.038
Tin (Sn)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Uranium (U)	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Vanadium (V)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.24	<0.20
Zinc (Zn)	40.7	32.9	40.7	41.1	32.6	34.3	28.3	23.3	29.2

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	P.O. LAKE-LIVER- WHITEFISH-4	P.O. LAKE- MUSCLE-LKTR-1	P.O. LAKE- MUSCLE-LKTR-2	P.O. LAKE- MUSCLE-LKTR-6	P.O. LAKE- MUSCLE-LKTR-7	P.O. LAKE- MUSCLE-LKTR-8	P.O. LAKE- MUSCLE-LKTR-9	P.O. LAKE- MUSCLE- WHITEFISH-1	P.O. LAKE- MUSCLE- WHITEFISH-2
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-88	L806060-89	L806060-90	L806060-91	L806060-92	L806060-93	L806060-94	L806060-95	L806060-96
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)		558	521	523	510	454	495	387	428
Physical Tests									
% Moisture	78.8	77.2	72.7	79.2	78.8	77.0	77.5	80.1	78.9
Metals									
Aluminum (Al)	6.8	2.4	<2.0	14.9	<2.0	2.4	<2.0	2.7	<2.0
Antimony (Sb)	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic (As)	0.123	0.031	0.034	0.031	0.025	0.018	0.022	0.031	0.023
Barium (Ba)	0.059	0.037	0.034	0.158	0.024	0.031	0.022	0.024	0.032
Beryllium (Be)	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth (Bi)	<0.060	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Cadmium (Cd)	0.048	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca)	94.8	94.5	96.6	85.1	102	190	168	203	296
Chromium (Cr)	<0.20	0.35	<0.10	0.14	0.15	<0.10	0.10	<0.10	<0.10
Cobalt (Co)	0.044	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Copper (Cu)	3.60	0.268	0.307	0.260	0.252	0.310	0.271	0.202	0.140
Lead (Pb)	<0.040	0.032	0.031	0.115	<0.020	<0.020	<0.020	<0.020	0.161
Lithium (Li)	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium (Mg)	202	304	315	293	307	314	320	301	288
Manganese (Mn)	2.37	0.234	0.156	0.365	0.193	0.170	0.168	0.257	0.234
Mercury (Hg)	0.227	0.134	0.144	0.130	0.143	0.159	0.163	0.0680	0.247
Molybdenum (Mo)	0.172	0.044	<0.010	0.014	0.018	<0.010	0.012	<0.010	<0.010
Nickel (Ni)	<0.20	0.21	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (Se)	1.69	0.25	0.30	0.22	0.23	0.28	0.30	0.27	0.25
Strontium (Sr)	0.309	0.068	0.075	0.199	0.089	0.237	0.183	0.363	0.556
Thallium (Tl)	0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tin (Sn)	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium (U)	0.0045	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium (V)	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	29.0	4.06	4.42	3.59	4.04	4.18	3.71	3.72	3.24

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	P.O. LAKE- MUSCLE- WHITEFISH-3	P.O. LAKE- MUSCLE- WHITEFISH-4	WINDY LAKE- LIVER-1	WINDY LAKE- LIVER-2	WINDY LAKE- LIVER-3	WINDY LAKE- LIVER-4	WINDY LAKE- LIVER-5	WINDY LAKE- LIVER-6	WINDY LAKE- LIVER-7
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-97	L806060-98	L806060-41	L806060-42	L806060-43	L806060-44	L806060-45	L806060-46	L806060-47
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)			400	450	338	378	352	413	690
Physical Tests									
% Moisture	78.1	78.2	73.9	76.6	72.0	75.5	70.6	72.1	73.1
Metals									
Aluminum (Al)	<2.0	<2.0	13.1	13.9	9.1	9.6	7.9	8.6	<4.0
Antimony (Sb)	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As)	0.065	0.020	0.541	0.502	0.496	0.724	0.826	0.545	0.226
Barium (Ba)	0.056	0.035	0.059	<0.020	<0.020	<0.020	0.031	0.044	<0.020
Beryllium (Be)	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bismuth (Bi)	<0.030	<0.030	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Cadmium (Cd)	<0.0050	<0.0050	0.022	0.027	0.032	0.024	0.023	0.014	0.018
Calcium (Ca)	527	309	51.8	45.7	47.7	45.2	51.7	36.5	48.6
Chromium (Cr)	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cobalt (Co)	<0.020	<0.020	0.069	0.056	0.079	0.079	0.103	0.062	0.050
Copper (Cu)	0.199	0.167	22.5	21.2	20.8	31.0	36.9	22.9	21.0
Lead (Pb)	<0.020	<0.020	<0.040	<0.040	<0.040	<0.040	0.041	<0.040	<0.040
Lithium (Li)	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium (Mg)	304	317	216	203	204	192	230	170	218
Manganese (Mn)	0.338	0.327	1.68	1.48	1.60	1.27	1.71	1.14	1.55
Mercury (Hg)	0.0422	0.130	0.0222	0.0138	0.0165	0.0120	0.0102	0.0072	0.0464
Molybdenum (Mo)	<0.010	<0.010	0.136	0.128	0.120	0.131	0.093	0.112	0.178
Nickel (Ni)	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Selenium (Se)	0.28	0.27	2.86	2.49	2.86	3.19	4.09	3.51	8.12
Strontium (Sr)	1.37	0.569	0.094	0.063	0.102	0.057	0.096	0.063	0.054
Thallium (Tl)	<0.010	<0.010	0.046	0.085	0.139	0.135	0.126	0.079	0.140
Tin (Sn)	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Uranium (U)	<0.0020	<0.0020	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Vanadium (V)	<0.10	<0.10	0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Zinc (Zn)	3.97	3.22	42.6	38.1	41.1	38.5	40.7	30.8	43.7

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	WINDY LAKE- LIVER-8	WINDY LAKE- LIVER-9	WINDY LAKE- LIVER-10	WINDY LAKE- MUSCLE-1	WINDY LAKE- MUSCLE-2	WINDY LAKE- MUSCLE-3	WINDY LAKE- MUSCLE-4	WINDY LAKE- MUSCLE-5 'FISH 78'	WINDY LAKE- MUSCLE-5 'FISH 49'
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-48	L806060-49	L806060-50	L806060-51	L806060-52	L806060-53	L806060-54	L806060-55	L806060-56
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	442	462	428	400	450	338	378	352	413
Physical Tests									
% Moisture	76.5	78.6	72.3	75.8	77.2	78.7	75.8	74.8	78.1
Metals									
Aluminum (Al)	6.1	8.1	7.0	<2.0	2.3	2.7	2.4	2.2	<2.0
Antimony (Sb)	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic (As)	0.165	0.326	0.408	0.106	0.110	0.118	0.199	0.088	0.107
Barium (Ba)	<0.020	<0.020	<0.020	0.030	0.032	0.262	0.036	0.023	0.028
Beryllium (Be)	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth (Bi)	<0.060	<0.060	<0.060	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Cadmium (Cd)	0.013	0.019	0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca)	62.4	36.6	34.8	217	160	126	139	278	205
Chromium (Cr)	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt (Co)	0.062	0.059	0.041	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Copper (Cu)	19.0	36.5	22.6	0.302	0.286	0.303	0.330	0.242	0.223
Lead (Pb)	<0.040	<0.040	<0.040	<0.020	0.025	<0.020	0.021	<0.020	<0.020
Lithium (Li)	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium (Mg)	268	196	196	310	313	307	326	298	329
Manganese (Mn)	2.64	1.26	1.22	0.132	0.113	0.139	0.146	0.142	0.161
Mercury (Hg)	0.0401	0.0186	0.0074	0.0276	0.0206	0.0149	0.0117	0.0288	0.0167
Molybdenum (Mo)	0.058	0.128	0.111	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nickel (Ni)	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (Se)	1.17	2.32	2.75	0.64	0.59	0.45	0.62	0.60	0.53
Strontium (Sr)	0.066	0.078	0.052	0.239	0.156	0.152	0.141	0.301	0.241
Thallium (Tl)	0.100	0.074	0.060	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tin (Sn)	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	0.054
Uranium (U)	<0.0040	<0.0040	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium (V)	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	34.2	43.1	39.1	4.89	3.89	5.52	5.10	3.92	4.08

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	WINDY LAKE- MUSCLE-6	WINDY LAKE- MUSCLE-7	WINDY LAKE- MUSCLE-9	WINDY LAKE- MUSCLE-10	REFERENCE LAKE A-LIVER-1	REFERENCE LAKE A-LIVER-2	REFERENCE LAKE A-LIVER-3	REFERENCE LAKE A-LIVER-4	REFERENCE LAKE A-LIVER-5
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-57	L806060-58	L806060-59	L806060-60	L806060-1	L806060-2	L806060-3	L806060-4	L806060-5
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	690	442	462	428	372	348	407	368	419
Physical Tests									
% Moisture	77.1	75.5	75.5	74.4	77.1	77.0	75.2	78.6	74.8
Metals									
Aluminum (Al)	2.7	2.4	<2.0	4.0	8.0	8.6	9.8	13.2	18.2
Antimony (Sb)	<0.010	<0.010	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As)	0.116	0.249	0.096	0.135	0.194	0.263	0.274	0.341	0.309
Barium (Ba)	0.065	0.025	0.024	0.031	<0.020	0.066	<0.020	<0.020	0.026
Beryllium (Be)	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20
Bismuth (Bi)	<0.030	<0.030	<0.030	<0.030	<0.060	<0.060	<0.060	<0.060	<0.060
Cadmium (Cd)	<0.0050	<0.0050	<0.0050	<0.0050	0.044	0.043	0.090	0.023	0.048
Calcium (Ca)	318	150	119	400	52.2	69.3	48.5	47.0	65.4
Chromium (Cr)	0.14	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20
Cobalt (Co)	<0.020	<0.020	<0.020	<0.020	0.065	0.107	0.068	0.150	0.121
Copper (Cu)	0.284	0.366	0.302	0.327	24.9	10.3	16.1	14.2	12.4
Lead (Pb)	<0.020	<0.020	<0.020	<0.020	0.043	0.082	0.047	<0.040	0.054
Lithium (Li)	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium (Mg)	321	314	307	314	203	210	198	197	202
Manganese (Mn)	0.148	0.093	0.148	0.136	2.07	2.12	1.81	1.60	1.79
Mercury (Hg)	0.0067	0.0425	0.0177	0.0049	0.0829	0.0614	0.0965	0.0443	0.0785
Molybdenum (Mo)	<0.010	<0.010	0.011	<0.010	0.153	0.161	0.231	0.147	0.185
Nickel (Ni)	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20
Selenium (Se)	0.55	0.63	0.60	0.58	2.22	2.35	2.86	2.37	2.03
Strontium (Sr)	0.372	0.111	0.102	0.456	0.074	0.162	0.056	0.092	0.098
Thallium (Tl)	<0.010	0.010	<0.010	<0.010	0.118	0.148	0.163	0.136	0.141
Tin (Sn)	<0.050	<0.050	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10
Uranium (U)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0040	<0.0040	<0.0040	0.0073
Vanadium (V)	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	0.27
Zinc (Zn)	3.65	4.46	4.25	4.14	41.6	39.4	39.2	35.7	34.1

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE
Sample ID	LAKE A-LIVER-6	LAKE A-LIVER-7	LAKE A-LIVER-8	LAKE A-LIVER-9	LAKE A-LIVER-10	LAKE A-MUSCLE-1	LAKE A-MUSCLE-2	LAKE A-MUSCLE-3	LAKE A-MUSCLE-4
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-6	L806060-7	L806060-8	L806060-9	L806060-10	L806060-11	L806060-12	L806060-13	L806060-14
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	421	355	455	437	509	372	348	407	368
Physical Tests									
% Moisture	73.7	75.7	76.5	76.2	78.7	80.2	79.5	78.8	80.6
Metals									
Aluminum (Al)	32.3	7.1	7.6	17.8	8.7	2.2	<2.0	<2.0	5.7
Antimony (Sb)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010
Arsenic (As)	0.443	0.359	0.052	0.164	0.047	0.053	0.088	0.071	0.074
Barium (Ba)	<0.020	0.025	<0.020	<0.020	<0.020	0.027	0.018	0.022	0.030
Beryllium (Be)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Bismuth (Bi)	<0.060	<0.060	<0.060	<0.060	<0.060	<0.030	<0.030	<0.030	<0.030
Cadmium (Cd)	0.047	0.024	0.214	0.105	0.077	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca)	66.0	68.9	51.0	63.1	77.1	254	126	219	92.6
Chromium (Cr)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Cobalt (Co)	0.142	0.080	0.193	0.245	0.184	<0.020	<0.020	<0.020	<0.020
Copper (Cu)	16.2	18.3	20.7	14.3	18.2	0.244	0.306	0.291	0.199
Lead (Pb)	<0.040	<0.040	<0.040	<0.040	<0.040	0.084	0.020	0.043	0.062
Lithium (Li)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Magnesium (Mg)	236	217	202	184	185	290	299	303	291
Manganese (Mn)	1.93	1.75	1.90	1.83	1.53	0.172	0.149	0.139	0.130
Mercury (Hg)	0.117	0.0567	0.242	0.193	0.490	0.0746	0.0832	0.162	0.0776
Molybdenum (Mo)	0.209	0.176	0.149	0.151	0.138	<0.010	<0.010	<0.010	<0.010
Nickel (Ni)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Selenium (Se)	3.60	2.34	1.36	2.05	1.71	0.34	0.34	0.36	0.36
Strontium (Sr)	0.107	0.124	0.060	0.110	0.211	0.333	0.125	0.238	0.088
Thallium (Tl)	0.211	0.154	0.051	0.073	0.069	<0.010	0.011	<0.010	<0.010
Tin (Sn)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.050
Uranium (U)	0.0062	<0.0040	<0.0040	0.0048	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium (V)	0.34	<0.20	<0.20	0.26	<0.20	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	43.2	45.6	43.3	41.4	36.6	3.27	3.73	3.47	3.58

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE
	LAKE A-MUSCLE-	LAKE A-MUSCLE-	LAKE A-MUSCLE-	LAKE A-MUSCLE-	LAKE A-MUSCLE-	LAKE A-MUSCLE-	LAKE B-LIVER-1	LAKE B-LIVER-2	LAKE B-LIVER-3
Sample ID	5	6	7	8	9	10			
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-15	L806060-16	L806060-17	L806060-18	L806060-19	L806060-20	L806060-21	L806060-22	L806060-23
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	419	421	355	455	437	509	540	525	510
Physical Tests									
% Moisture	80.0	80.1	79.3	80.7	81.7	80.8	76.5	78.8	75.7
Metals									
Aluminum (Al)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	25.7	16.5	8.9
Antimony (Sb)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.020	<0.020
Arsenic (As)	0.084	0.081	0.062	0.038	0.054	0.098	0.071	0.042	0.109
Barium (Ba)	0.030	0.011	0.017	0.018	0.013	0.021	0.020	<0.020	0.138
Beryllium (Be)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Bismuth (Bi)	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.060	<0.060	<0.060
Cadmium (Cd)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.409	0.239	0.188
Calcium (Ca)	75.7	75.0	115	122	229	179	49.6	68.1	58.4
Chromium (Cr)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Cobalt (Co)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.129	0.348	0.133
Copper (Cu)	0.247	0.221	0.202	0.193	0.169	0.148	26.6	23.3	27.1
Lead (Pb)	0.030	0.108	0.034	<0.020	<0.020	<0.020	0.054	<0.040	0.051
Lithium (Li)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Magnesium (Mg)	308	306	323	297	284	291	196	197	208
Manganese (Mn)	0.124	0.127	0.145	0.119	0.116	0.149	1.96	1.80	2.14
Mercury (Hg)	0.119	0.147	0.0697	0.194	0.207	0.341	0.397	0.105	0.328
Molybdenum (Mo)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.247	0.166	0.280
Nickel (Ni)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Selenium (Se)	0.37	0.39	0.35	0.26	0.29	0.30	5.03	2.37	3.12
Strontium (Sr)	0.047	0.034	0.114	0.111	0.317	0.260	0.072	0.119	0.096
Thallium (Tl)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.111	0.166	0.113
Tin (Sn)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.10	<0.10
Uranium (U)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0285	0.0118	0.0080
Vanadium (V)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.33	<0.20	<0.20
Zinc (Zn)	3.52	3.01	3.40	3.26	2.93	3.28	40.0	40.0	44.5

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

Sample ID	REFERENCE LAKE B-LIVER-4	REFERENCE LAKE B-LIVER-5	REFERENCE LAKE B-LIVER-6	REFERENCE LAKE B-LIVER-7	REFERENCE LAKE B-LIVER-8	REFERENCE LAKE B-LIVER-9	REFERENCE LAKE B-LIVER-10	REFERENCE LAKE B-MUSCLE- 1	REFERENCE LAKE B-MUSCLE- 2
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-24	L806060-25	L806060-26	L806060-27	L806060-28	L806060-29	L806060-30	L806060-31	L806060-32
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data									
Fork Length (mm)	525	488	536	511	568	488	483	540	525
Physical Tests									
% Moisture	80.2	76.9	80.3	77.2	73.5	73.3	75.2	79.8	78.2
Metals									
Aluminum (Al)	5.7	10.4	25.7	8.9	<4.0	14.2	6.1	2.3	2.1
Antimony (Sb)	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010
Arsenic (As)	0.031	0.028	0.045	0.046	0.052	0.050	0.056	0.046	0.049
Barium (Ba)	0.019	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.040	0.020
Beryllium (Be)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10
Bismuth (Bi)	<0.030	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.030	<0.030
Cadmium (Cd)	0.112	0.163	0.267	0.150	0.072	0.247	0.195	<0.0050	<0.0050
Calcium (Ca)	80.4	64.2	86.3	68.7	50.3	56.2	65.6	147	211
Chromium (Cr)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.14	0.11
Cobalt (Co)	0.066	0.068	0.134	0.057	0.076	0.125	0.163	<0.020	<0.020
Copper (Cu)	16.7	16.0	30.5	3.70	8.28	27.8	13.8	0.261	0.201
Lead (Pb)	0.031	<0.040	<0.040	<0.040	<0.040	0.081	<0.040	0.026	0.033
Lithium (Li)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10
Magnesium (Mg)	177	282	182	272	178	205	240	256	259
Manganese (Mn)	2.02	2.45	1.52	3.14	1.55	2.16	2.63	0.123	0.092
Mercury (Hg)	0.244	0.215	0.164	0.150	0.442	0.0767	0.102	0.270	0.114
Molybdenum (Mo)	0.105	1.14	0.168	0.101	0.196	0.248	0.161	<0.010	<0.010
Nickel (Ni)	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10
Selenium (Se)	2.18	1.74	2.40	1.64	3.18	3.29	2.11	0.48	0.43
Strontium (Sr)	0.125	0.055	0.116	0.071	0.093	0.086	0.069	0.166	0.241
Thallium (Tl)	0.062	0.179	0.116	0.218	0.176	0.152	0.121	0.011	0.011
Tin (Sn)	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050
Uranium (U)	0.0034	0.0068	0.0124	0.0053	<0.0040	0.0096	0.0070	<0.0020	<0.0020
Vanadium (V)	<0.10	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10
Zinc (Zn)	29.4	39.0	42.5	25.7	34.0	43.3	38.9	3.53	3.29

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-6. Fish Tissue Metals Concentrations of Lake Trout Sampled from Lakes, Hope Bay Belt Project, 2009

	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE
	LAKE B-MUSCLE-	LAKE B-MUSCLE-	LAKE B-MUSCLE-	LAKE B-MUSCLE-	LAKE B-MUSCLE-	LAKE B-MUSCLE-	LAKE B-MUSCLE-	LAKE B-MUSCLE-
Sample ID	3	4	5	6	7	8	9	10
Date Sampled	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09	05-AUG-09
ALS Sample ID	L806060-33	L806060-34	L806060-35	L806060-36	L806060-37	L806060-38	L806060-39	L806060-40
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Biological Data								
Fork Length (mm)	510	525	488	536	511	568	488	483
Physical Tests								
% Moisture	79.5	79.1	79.1	78.9	78.8	78.4	78.3	79.1
Metals								
Aluminum (Al)	<2.0	2.0	2.4	2.8	<2.0	2.1	<2.0	<2.0
Antimony (Sb)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic (As)	0.041	0.043	0.050	0.046	0.048	0.112	0.057	0.045
Barium (Ba)	0.026	0.025	0.028	0.040	0.023	0.030	0.025	0.024
Beryllium (Be)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth (Bi)	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Cadmium (Cd)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca)	81.7	79.6	94.0	93.2	97.7	106	109	158
Chromium (Cr)	0.10	0.12	0.13	0.13	0.12	0.18	0.12	0.13
Cobalt (Co)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Copper (Cu)	0.287	0.333	0.315	0.264	0.266	0.252	0.302	0.264
Lead (Pb)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Lithium (Li)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium (Mg)	246	252	267	245	253	264	274	266
Manganese (Mn)	0.121	0.174	0.116	0.108	0.109	0.128	0.138	0.126
Mercury (Hg)	0.178	0.179	0.160	0.111	0.141	0.361	0.107	0.117
Molybdenum (Mo)	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	<0.010	<0.010
Nickel (Ni)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (Se)	0.43	0.53	0.53	0.49	0.49	0.47	0.47	0.52
Strontium (Sr)	0.059	0.066	0.059	0.078	0.087	0.083	0.096	0.161
Thallium (Tl)	<0.010	<0.010	<0.010	0.013	0.011	0.010	0.014	<0.010
Tin (Sn)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium (U)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium (V)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc (Zn)	3.48	3.16	3.52	4.54	3.46	4.19	4.16	3.67

All metal concentrations in units of mg/kg wet weight (WW).

Appendix 3.2-7

Biological Data for Fish Sampled from Streams, Hope Bay
Belt Project, 2009

Appendix 3.2-7. Biological Data for Fish Sampled from Streams and Rivers, Hope Bay Belt Project, 2009

Site ID	Date	Sample Number	Species Code	Method #	Pass Number	Length (mm)	Weight (g)	Condition (g/mm ³)	Aging Structure	Age	Photos #	Comments
Streams												
P.O. O/F2	27-Aug-09	1	NSSB	EF	-	45	0.7	0.77	-	-	-	
P.O. O/F2	27-Aug-09	2	NSSB	EF	-	46	0.7	0.72	-	-	-	
P.O. O/F2	27-Aug-09	3	NSSB	EF	-	65	1.9	0.69	-	-	-	
P.O. O/F2	27-Aug-09	4	NSSB	EF	-	44	0.7	0.82	-	-	-	
P.O. O/F2	27-Aug-09	5	NSSB	EF	-	44	0.8	0.94	-	-	-	
P.O. O/F2	27-Aug-09	6	NSSB	EF	-	63	1.8	0.72	-	-	-	
P.O. O/F2	27-Aug-09	7	NSSB	EF	-	52	1.3	0.92	-	-	-	
P.O. O/F2	27-Aug-09	8	NSSB	EF	-	47	1.2	1.16	-	-	-	
P.O. O/F2	27-Aug-09	9	NSSB	EF	-	36	0.7	1.50	-	-	-	
P.O. O/F2	27-Aug-09	10	NSSB	EF	-	37	0.8	1.58	-	-	-	
P.O. O/F2	27-Aug-09	11	NSSB	EF	-	46	0.8	0.82	-	-	-	
Ogama O/F1	29-Jul-09	2	LCIS	EF	1	304	-	-	-	-	-	
Ogama O/F1	29-Jul-09	3	LCIS	EF	1	61	-	-	-	-	-	
Ogama O/F1	29-Jul-09	1	LKWH	EF	1	414	-	-	-	-	-	
Glenn O/F2	31-Jul-09	2	LKTR	EF	1	199	-	-	-	-	-	
Glenn O/F2	31-Jul-09	3	NSSB	EF	1	42	-	-	-	-	-	
Glenn O/F2	31-Jul-09	4	NSSB	EF	1	47	-	-	-	-	-	
Glenn O/F2	31-Jul-09	5	NSSB	EF	1	44	-	-	-	-	-	
Glenn O/F2	31-Jul-09	6	NSSB	EF	1	49	-	-	-	-	-	
Glenn O/F2	31-Jul-09	7	NSSB	EF	1	45	-	-	-	-	-	
Glenn O/F2	31-Jul-09	8	SLSC	EF	1	58	-	-	-	-	-	
Glenn O/F2	31-Jul-09	1	STFL	EF	1	202	-	-	-	-	-	
Windy O/F1	28-Jul-09	1	LKTR	EF	1	506	-	-	2,3	-	-	
Windy O/F1	28-Jul-09	2	LKTR	EF	1	461	-	-	2,3	-	-	
Roberts I/F1	6-Aug-09	1	NSSB	EF	-	60	0.9	0.42	-	-	-	
Roberts I/F1	6-Aug-09	2	NSSB	EF	-	75	2.0	0.47	-	-	-	
Roberts I/F1	6-Aug-09	3	NSSB	EF	-	73	2.5	0.64	-	-	-	
Roberts I/F1	6-Aug-09	4	NSSB	EF	-	65	2.0	0.73	-	-	-	
Roberts I/F1	6-Aug-09	5	NSSB	EF	-	69	2.0	0.61	-	-	-	
Roberts I/F1	6-Aug-09	6	NSSB	EF	-	61	1.5	0.66	-	-	-	
Roberts I/F1	6-Aug-09	7	NSSB	EF	-	47	1.0	0.96	-	-	-	
Roberts I/F1	6-Aug-09	8	NSSB	EF	-	44	0.4	0.47	-	-	-	
Roberts I/F1	6-Aug-09	9	NSSB	EF	-	53	0.9	0.60	-	-	-	
Roberts I/F1	6-Aug-09	10	NSSB	EF	-	52	1.3	0.92	-	-	-	fish too large for weigh scale
Roberts I/F1	6-Aug-09	11	NSSB	EF	-	59	1.5	0.73	-	-	-	fish too large for weigh scale
Roberts I/F2	6-Aug-09	1	NSSB	EF	-	48	0.7	0.63	-	-	-	
Roberts I/F2	6-Aug-09	2	NSSB	EF	-	68	1.9	0.60	-	-	-	
Roberts I/F2	6-Aug-09	3	NSSB	EF	-	50	0.8	0.64	-	-	-	
Roberts I/F2	6-Aug-09	4	NSSB	EF	-	55	0.9	0.54	-	-	-	
Roberts I/F2	6-Aug-09	5	NSSB	EF	-	45	0.5	0.55	-	-	-	
Roberts I/F2	6-Aug-09	6	NSSB	EF	-	55	1.0	0.60	-	-	-	
Stream E09	25-Aug-09	3	ARCH	EF	1	123	16.9	0.91	3	2	photo 3469	
Stream E09	25-Aug-09	4	ARCH	EF	1	140	30.9	1.13	3	3	photo 3470	
Stream E09	25-Aug-09	5	ARCH	EF	1	97	11.0	1.21	3	2	photo 3472	
Stream E09	25-Aug-09	1	LKTR	EF	1	217	93.0	0.91	3	6	photo 3466	
Stream E09	25-Aug-09	2	LKTR	EF	1	168	41.7	0.88	3	3	photo 3467	retained for voucher specimen
Roberts Bay I/F1	1-Aug-09	1	NSSB	EF	1	42	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	2	NSSB	EF	1	46	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	3	NSSB	EF	1	53	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	4	NSSB	EF	1	57	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	5	NSSB	EF	1	41	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	6	NSSB	EF	1	53	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	7	NSSB	EF	1	48	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	8	NSSB	EF	1	43	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	9	NSSB	EF	1	52	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	10	NSSB	EF	1	47	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	11	NSSB	EF	1	49	-	-	-	-	-	
Roberts Bay I/F1	1-Aug-09	12	NSSB	EF	1	53	-	-	-	-	-	
Ref A O/F	28-Jul-09	1	LKTR	EF	1	311	-	-	2,3	9	-	
Ref A O/F	28-Jul-09	2	LKTR	EF	1	362	-	-	2,3	10	-	
Ref A O/F	28-Jul-09	3	LKTR	EF	1	135	-	-	2,3	1	-	
Ref A O/F	28-Jul-09	4	LKTR	EF	1	137	-	-	2,3	2	-	
Ref A O/F	28-Jul-09	5	LKTR	EF	1	110	-	-	-	-	-	
Ref A O/F	28-Jul-09	6	LKTR	EF	1	80	-	-	-	-	-	
Ref A O/F	28-Jul-09	9	LKTR	EF	2	72	-	-	-	-	-	
Ref A O/F	28-Jul-09	7	SLSC	EF	1	109	-	-	-	-	-	
Ref A O/F	28-Jul-09	8	SLSC	EF	1	50	-	-	-	-	-	
Ref B O/F	25-Jul-09	1	ARGR	EF	1	180	-	-	-	-	-	
Ref B O/F	25-Jul-09	2	ARGR	EF	1	175	-	-	-	-	-	
Ref B O/F	25-Jul-09	3	ARGR	EF	2	198	-	-	-	-	-	
Rivers												
Koignuk D/S	5-Aug-09	1	SLSC	EF	1	61	3.0	1.32	-	-	-	
Koignuk D/S	5-Aug-09	2	SLSC	EF	1	43	2.0	2.52	-	-	-	
Koignuk D/S	5-Aug-09	3	SLSC	EF	1	51	1.0	0.75	-	-	-	
Koignuk D/S	5-Aug-09	4	SLSC	EF	1	48	1.0	0.90	-	-	-	
Koignuk M/S	29-Aug	2	LKTR	GN1	-	382	665.0	1.19	2,3	8	-	

Species Code: ARCH = Arctic char, ARGR = Arctic grayling, LCIS = cisco, LKTR = lake trout, LKWH = lake whitefish.

NSSB = ninespine stickleback, SLSC = slimy sculpin, STFL = starry flounder

Sampling Method: EF = electrofisher, GN = gillnet, MT = minnow trap

Aging structure: 1 = otolith, 2 = scales, 3 = fin ray

Dash (-) indicates data not collected

Appendix 3.2-7. Biological Data for Fish Sampled from Streams and Rivers, Hope Bay Belt Project, 2009

Site ID	Date	Sample Number	Species Code	Method #	Pass Number	Length (mm)	Weight (g)	Condition (g/mm ³)	Aging Structure	Age	Photos #	Comments
Koignuk M/S	29-Aug	7	LKTR	GN2	-	295	273.0	1.06	1,2,3	6	-	
Koignuk M/S	29-Aug	8	LKTR	GN4	-	812	5066.0	0.95	2,3	26	-	fish too large for weigh scale
Koignuk M/S	29-Aug	9	LKTR	GN4	-	489	1197.0	1.02	2,3	16	-	fish too large for weigh scale
Koignuk M/S	29-Aug	10	LKTR	GN4	-	493	1175.0	0.98	2,3	14	-	
Koignuk M/S	6-Aug	1	LKTR	GN1	-	753	4600.0	1.08	2,3	21	-	
Koignuk M/S	29-Aug	1	LKWH	GN1	-	430	1286.0	1.62	2,3	13	-	
Koignuk M/S	29-Aug	3	LKWH	GN2	-	422	1178.0	1.57	2,3	12	-	
Koignuk M/S	29-Aug	4	LKWH	GN2	-	545	2320.0	1.43	2,3	29	-	
Koignuk M/S	29-Aug	5	LKWH	GN2	-	459	166.0	0.17	2,3	14	-	
Koignuk M/S	29-Aug	6	LKWH	GN2	-	484	1551.0	1.37	2,3	14	-	
Koignuk M/S	29-Aug	11	LKWH	GN4	-	451	1375.0	1.50	2,3	15	-	
Koignuk M/S	6-Aug	3	NSSB	MT	-	61	<1	-	-	-	-	
Koignuk M/S	6-Aug	4	NSSB	MT	-	46	<1	-	-	-	-	
Koignuk M/S	6-Aug	5	NSSB	MT	-	32	<1	-	-	-	-	
Koignuk M/S	6-Aug	6	NSSB	MT	-	52	<1	-	-	-	-	
Koignuk M/S	6-Aug	7	NSSB	MT	-	46	<1	-	-	-	-	
Koignuk M/S	6-Aug	8	NSSB	MT	-	45	<1	-	-	-	-	
Koignuk M/S	6-Aug	9	NSSB	MT	-	41	<1	-	-	-	-	
Koignuk M/S	6-Aug	10	NSSB	MT	-	29	<1	-	-	-	-	
Koignuk M/S	6-Aug	2	SLSC	MT	-	82	5.0	-	-	-	-	

Species Code: ARCH = Arctic char, ARGR = Arctic grayling, LCIS = cisco, LKTR = lake trout, LKWH = lake whitefish, NSSB = ninespine stickleback, SLSC = slimy sculpin, STFL = starry flounder

Sampling Method: EF = electrofisher, GN = gillnet, MT = minnow trap

Aging structure: 1=otolith, 2 = scales, 3 = fin ray

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