Wild Juvenile Salmonid Monitoring Program 2023 Muchalat Inlet, Nootka Sound, BC

Report Date: July 6, 2023

Prepared For:

Grieg Seafood BC Ltd. 106-1180 Ironwood Street Campbell River, BC V9W 5P7





Summary

Beach seine sampling was conducted on behalf of Grieg Seafood BC Ltd in Nootka Sound, BC in 2023. Sampling was completed to monitor sea lice abundance, prevalence, and intensity on juvenile wild salmon within Nootka Sound in support of the Aquaculture Stewardship Certification process for Grieg Seafood's finfish aquaculture sites in the area.

Sampling was conducted during four separate sampling events in April, and May 2023, selected to coincide with the peak outmigration period of juvenile salmonids. Sampling was completed at 14 sites within Nootka Sound, BC. The sites were selected based on historical fish capture results and location relative to existing aquaculture sites in the area and in consultation with the Mowachaht/Muchalaht First Nation Lands, Resources and Fisheries Manager.

Thirty individuals from each target fish species or the total number of captured individuals from each target species (if less than 30 were captured) were collected from each of the 14 sites during the sampling events. Total catch numbers of each species were recorded. Water quality measurements including surface, one meter, and five meter depth water temperature, salinity, and dissolved oxygen were recorded at each site during each sampling event.

Collected sample fish were frozen and analyzed in the lab for the presence of sea lice by Mainstream Biological Consulting. Sea lice observed on the individual fish specimens during laboratory analysis were initially identified as either *Lepeophtheirus spp.* or *Caligus sp.* These lice are assumed to be *L. salmonis* and *C. clemensi* due to the lack of documented infestation of Pacific salmon by other species. The lice were recorded by life stage and the sex of pre-adult or adult motile lice was determined.

This data summary report documents the observed sea lice infestation rate on retained wild juvenile salmon collected in Nootka Sound, BC in 2023. A total of 428 fish samples underwent lab analysis for sea lice infestation in 2023 including 410 chum, 15 chinook and three coho salmon. No pink, sockeye or Atlantic salmon were captured during sampling completed in Nootka Sound, BC in 2023. Five individuals were found to be infested with sea lice in the total sample population, resulting in a calculated sea lice prevalence of 1.2 %, abundance of 0.012 and an average intensity of 1.0 for the sample population.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 830 chum salmon were captured, representing 97.9 % of all captured salmonids. Of the 830 chum captured, 410 were retained for lab analysis for sea lice infestation. Four chum smolts were found to be infested with four sea lice resulting in a calculated prevalence of 1.0 %, abundance of 0.0098 and an average intensity of 1.0 for the chum salmon sample population.

A total of 15 chinook salmon were captured, representing 1.8 % of all captured salmonids. All 15 captured chinook salmon were retained for lab analysis for sea lice infestation. One chinook smolt was found to be infested with one sea lice resulting in a calculated prevalence of 6.7 %, abundance of 0.067 and an average intensity of 1.0 for the chinook salmon sample population.

Three coho salmon were captured, representing 0.4 % of all captured salmonids. All three captured coho salmon were retained for lab analysis for sea lice infestation. None

of the coho smolts were infested by sea lice, resulting in a calculated prevalence, abundance, and average intensity of zero for the coho salmon sample population.

Five *Lepeophtheirus salmonis* sea lice of various life stages were identified on five juvenile salmon (Appendix III). No *Caligus clemensi* sea lice were identified on the collected salmon sample population.

Four *Lepeophtheirus salmonis* sea lice (copepodid life stage) were identified on four juvenile chum salmon. One female *Lepeophtheirus salmonis* sea louse (pre-adult life stage) was identified on one juvenile chinook salmon.

Table	of	Con	tents
IUNIC			

Summary	. i						
Table of Contentsiii							
List of Figures	iv						
List of Tables	iv						
1.0 Introduction	.1						
2.0 Methods	.3						
2.1 Site Locations	.3						
2.2 Field Procedures	5						
2.3 Laboratory Procedures	6						
2.4 Data Analysis	7						
3.0 Results	9						
3.1 Water Quality Parameters	9						
3.2 Fish Sample Composition1	4						
3.3 Fish Sample Size Statistics1	6						
3.3.1 Chum Salmon	16						
3.3.2 Chinook Salmon	16						
3.3.3 Coho Salmon	16						
3.4 Sea Lice Infestation Rates1	6						
3.4.1 Infestation Rates on Chum Salmon	18						
3.4.2 Infestation Rates on Chinook Salmon	19						
3.5 Infestation by Sea Lice Species	20						
3.5.1 Infestation by Life Stage on Chum Salmon	20						
3.5.2 Infestation by Life Stage on Chinook Salmon2	2?						
4.0 Conclusions	24						
5.0 References	25						
Appendix I – Field Data	.1						
Appendix II – Capture and Collection Sample Totals							
Appendix III – Sea Lice Analysis	VI						

List of Figures

Figure 1:	An overview map showing the location of Nootka Sound, BC on the west coast of Vancouver Island, BC1
Figure 2:	The locations of the 14 beach seine sites in Nootka Sound, BC sampled in 20234
	List of Tables
Table 1:	The site number and locations of the 14 beach seine sites where fish were collected for sea lice analysis in Nootka Sound, BC in 2023
Table 2:	Surface water quality parameters collected during 2023 beach seine sampling in Nootka Sound, BC11
Table 3:	One meter water quality parameters collected during 2023 beach seine sampling in Nootka Sound, BC12
Table 4:	Five meter water quality parameters collected during 2023 beach seine sampling in Nootka Sound, BC13
Table 5:	The total of collected individuals of each fish species captured in Nootka Sound, BC between April 17 and May 29, 2023, and the percentage of the total capture population that they represent
Table 6:	The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the 14 sample sites in Nootka Sound, BC between April 17, and May 29, 2023
Table 7:	Average lengths of chum, chinook and coho salmon collected in Nootka Sound in 2023, summarized by sampling event
Table 8:	Average weights of chum, chinook and coho salmon collected in Nootka Sound in 2023, summarized by sampling event
Table 9:	Results of analysis for sea lice infestation on fish collected by beach seine in Nootka Sound, BC in 202317
Table 10:	Total number, prevalence, abundance, and intensity of sea lice infestation on chum salmon collected in Nootka Sound, BC in 2023, summarized by sampling site
Table 11:	Total number, prevalence, abundance, and intensity of sea lice infestation on chinook salmon collected in Nootka Sound, BC in 2023, summarized by sampling site
Table 12:	The number of <i>Lepeophtheirus salmonis</i> and <i>Caligus clemensi</i> in each life stage identified on the chum salmon sample population from Nootka Sound, BC in 2023. LEP = <i>Lepeophtheirus salmonis</i> CAL= <i>Caligus clemensi</i> 20

Table 13:	The number of sea lice found on chum salmon collected in Nootka Sound,
	BC in 2023 summarized by sampling site. LEP = Lepeophtheirus salmonis
	CAL= Caligus clemensi

- Table 14:The number of Lepeophtheirus salmonis and Caligus clemensi in each life
stage identified on the chinook salmon sample population from Nootka
Sound, BC in 2023. LEP = Lepeophtheirus salmonis CAL= Caligus clemensi
22
- Table 15:The number of sea lice found on chinook salmon collected in Nootka Sound,
BC in 2023 summarized by sampling site. LEP = Lepeophtheirus salmonis
CAL= Caligus clemensi23

1.0 Introduction

Beach seine sampling was conducted at 14 sites in Nootka Sound, BC (Figure 1) to capture wild juvenile salmon on behalf of Grieg Seafood BC Ltd. Retained fish were analyzed in the lab for sea lice infestation. Four sampling events were completed between April 17, 2023, and May 29, 2023. Timing was selected to coincide with the estimated peak outmigration of juvenile salmonids in Muchalat Inlet, BC.





Parasitic copepods from the family Caligidae (sea lice) found in the coastal waters of British Columbia are divided into two genera: *Lepeophtheirus* and *Caligus*. Eleven species of *Lepeophtheirus* have been identified infesting fish in the Pacific Ocean, while only one species of *Caligus* (*Caligus clemensi*) has been identified (Margolis and Arthur 1979; McDonald and Margolis, 1995). *C. clemensi* infest an extremely wide range of natural hosts in the marine environment including salmonids and non-salmonids; while *L. salmonis* natural hosts on the Pacific coast have been found to include Pacific salmon, threespine stickleback and Pacific herring. During this analysis, *Lepeophtheirus spp.* sea lice found on salmonid specimens were assumed to be *L. salmonis* due to the lack of documented infestations of Pacific salmon by other *Lepeophtheirus* lice species (Jones and Nemec, 2004).

Both Caligidae genera have similar life histories and developmental stages (Kabata, 1972; Johnson and Albright, 1991a). Sea lice hatch from eggs and go through two freeswimming naupilii stages before developing into an infectious free-swimming copepodid. The copepodids attach to their host and develop through several chalimus stages. The chalimus are non-motile and are attached to their host by a frontal filament. The final chalimus stage terminates as the sea lice become motile and are no longer attached to their hosts by the frontal filament. The sea lice can now move freely on the fish as they develop through a pre-adult stage before becoming reproductively viable adults.

Water temperature and salinity are two environmental variables known to influence sea lice development, growth, survival and reproductive rate. In British Columbia, surface seawater temperatures range from approximately 6 °C to 13 °C. Research on sea lice abundance conducted in the Broughton Archipelago and elsewhere on the coast of British Columbia indicates that surface water temperature during the winter months does not appear to hinder the season abundance of *L. salmonis* (Saksida et al. 2007a, b). The rate of development and the generation times for *C. elongates* are strongly temperature dependent (Tully, 1992) and although this research has not been conducted, similar relationships with water temperature may be expected for *C. clemensi* (Jones and Johnson, 2015). Survival and development of *L. salmonis* is optimal in high salinity seawater. Under laboratory conditions copepodid survival was limited to conditions where salinity was greater than 10 ppt (Johnson and Albright, 1991b).

Grieg Seafood requested monitoring of sea lice abundance, prevalence, and intensity on juvenile wild salmon in Nootka Sound, BC in support of Aquaculture Stewardship Certification for their aquaculture sites within the area. This data summary report documents the observed sea lice infestation rates on juvenile salmonids collected in Nootka Sound, BC in 2023. This is the twentieth year that sampling was completed in Nootka Sound, BC by Grieg Seafood BC.

2.0 Methods

Juvenile salmonids were collected from 14 sites in Nootka Sound, BC. These sites were chosen in consultation with Grieg Seafood Ltd and the Mowachaht/Muchalaht First Nation Lands, Resources and Fisheries Manager. Sites included locations that had historically yielded consistent out-migration juvenile salmon catch results, were in close proximity to the six established finfish aquaculture tenures in the area held by Grieg Seafood BC Ltd and sites further afield that were of concern to the Lands, Resources and Fisheries Manager. The sites were sampled four times in 2023 between April 17 and May 29.

2.1 Site Locations

Of the 14 sampling sites, eight sites were located within Muchalat Inlet, two sites were in Zuciarte Channel, one site was in Hanna Channel, two sites were in Tlupana Inlet, and one site was in Tahsis Inlet (Figure 2). Field GPS coordinates collected at the sampling sites are provided in Table 1.

Site Name		Coordinate	es
Site Name	Site #	Latitude North	Longitude West
McCurdy Creek	1	49 40.294	126 11.174
Muchalat North	2	49 38.994	126 17.543
Houston River	3	49 38.272	126 18.281
Ous Point	4	49 38.060	126 21.239
Silverado Creek	5	49 37.825	126 22.107
Gore Island	6	49 39.077	126 24.451
Williamson	7	49 39.788	126 24.507
East Mooyah	8	49 38.242	126 25.762
Zuciarte	9	49 37.419	126 28.992
Conception Point	10	49 39.241	126 29.214
Hanna	11	49 40.461	126 28.085
Hois Point	12	49 42.470	126 31.294
Villaverda Island	13	49 40.147	126 34.538
Jewitt Cove	14	49 41.430	126 36.123

Table 1:The site number and locations of the 14 beach seine sites where fish were
collected for sea lice analysis in Nootka Sound, BC in 2023.



Figure 2: The locations of the 14 beach seine sites in Nootka Sound, BC sampled in 2023.

2.2 Field Procedures

Procedures used by Mainstream Biological Consulting during 2023 sampling were adapted from procedures for beach seining, fish collection and field data recording utilized by the Department of Fisheries and Oceans (DFO).

An 18 ft Boston Whaler powered by a 60 horsepower outboard motor was used to access sampling sites. A 150 ft (45.7 m) long by 12 ft (3.7 m) deep beach seine net was used to capture specimens. The net was constructed in three 50 ft (15.2 m) sections, with the centre bunt consisting of one-quarter inch diameter diamond mesh, and two side panels (wings) consisting of half-inch diameter diamond mesh. Floats were attached every 30 cm along the top-line and a lead line provided weight along the bottom of the net.

A three person crew conducted the beach seine sets. All beaches were approached slowly by boat and one crewmember was put ashore with one end of the net towline. The onshore crewmember held the towline at one side of the sample site, while the second crewmember ensured the net deployed smoothly off the bow or side of the boat as the third crewmember backed the boat in a wide semicircle towards the opposite side of the sample site. When the net was fully deployed, the second crewmember stepped into the shallow water with the towline or tossed it to the awaiting crewmember on shore. A slow retrieval of the net began immediately.

As the net was slowly retrieved, surface, one meter and five meter depth water quality data was collected for temperature, salinity and dissolved oxygen using a YSI Pro Quatro Probe.

Crewmembers retrieved the net evenly from opposite ends, ensuring that the lead line remained as close to the bottom as possible. Retrieved netting was piled on the beach above the water level. As the retrieval reached the net bunt, the lead line was retrieved at a faster rate than the floats to allow the netting of the bunt to form a bag under any captured fish. The lead line was then pulled up onto the beach above the water level. One crewmember worked their way around the outside of the net in the shallow water to ensure the floats stayed above the surface of the water. In this manner a small, shallow bag formed from the bunt of the net contained the captured fish in the water so that they could be sampled.

The two shore crew members collected individual fish from the bunt to ensure that captured fish remained in the net for as short a period of time as possible. The net was manipulated as necessary in response to changing tides to ensure the captured fish remained in sufficient water to minimize contact with the net or with other fish.

Where possible, a total of 30 individuals from each target species were retained for sea lice infestation analysis. If less than 30 individuals of a target species were captured, all the captured fish were retained. Individual fish were randomly "swam" into an appropriately sized Whirlpac bag. Handling of fish was kept to a minimum.

Once all the fish for retention were collected, a total catch number was recorded for each species. Any fish remaining in the net were counted or estimated (if more than 300 individuals were present) and released. The total of fish remaining in the net was added to the number of retained individuals to calculate a total capture number for a given species.

A standardized field form was used to record the following information for each beach seine set:

- Site name or number
- Date
- Time at the end of the individual fish collection
- Comments on weather and oceanic conditions
- Total capture and retained fish numbers for each specimen group
- Water temperature (°C), salinity (ppt) and dissolved oxygen (mg/L) to one decimal place
- GPS coordinates
- The number of salmon mortalities.

Retained fish from each site were packaged separately in re-sealable bags and labelled with the site name or number, the date and sample numbers of each species. Sample bags were stored on ice in a cooler while on board the boat and transferred to a portable freezer on the support boat immediately following completion of the set.

Following each set the net was reloaded onto the bow of the boat. Crewmembers scanned the net for obvious holes, which were repaired immediately if found.

The above sampling procedures were repeated at each of the sample sites.

2.3 Laboratory Procedures

Laboratory procedures for sea lice analysis were adapted from procedures demonstrated by Sheila Dawe and Eliah Kim at the Pacific Biological Station in Nanaimo, BC, during sea lice identification training that was conducted on April 1, 2004. Additional sea lice identification training by Paul Callow was conducted at the Pacific Biological Station in September 2007.

Fish samples were thawed immediately prior to analysis. Individual fish were identified to species and counted. Results of the lab identification and count were compared to the reported data found on the field data sheets to identify any errors.

A standardized data sheet was used to record sea lice analysis results for each site. The site and week number, sample date and number of fish and specimen groups present were recorded. The date of the lab analysis was also noted.

Once thawed, individual fish were removed from their bag using a pair of forceps at the caudal peduncle and placed in a petri dish. Each bag was labelled with an individual fish identification number. Each fish was then scanned for the presence of sea lice under a stereoscopic dissection microscope. The microscope was set at a magnification of 20X for the preliminary survey of each fish sample, and magnification was increased to up to 40X during individual sea lice identification.

Microscopic analysis of each individual fish began at the anterior end of the right side of the specimen. The head was examined first, after which a scan was made along the dorsal half of the specimen working towards the posterior end and the tail. The dorsal fin and caudal fin were lifted and expanded with a pair of forceps to check for lice. From the posterior end a return scan was made along the ventral half of the specimen back to the head. The anal fin, pelvic fin and pectoral fin were lifted and expanded, and the operculum was lifted. The fish was then flipped using a pair of forceps at the caudal peduncle and the procedure was repeated on the opposite side of the specimen.

Additional scans were made longitudinally down the fish if the entire depth of the fish could not be seen in a single pass. Any sea lice observed on the fish were removed and placed in a petri dish of saline solution.

Each Whirlpac bag was visually inspected after the removal of the fish for the presence of pre-adult or adult sea lice that may have become dislodged during handling. Any sea lice found in the sample bags were identified under the microscope using the same characteristics outlined above. These "loose" sea lice were recorded on the data sheet with the data for the corresponding specimen and it was assumed that the lice had come from that individual.

Sea lice were identified using characteristics outlined by Kabata (1972) and Johnson and Albright (1991a). Sea lice observed on individual fish were identified as either nonmotile chalimus (including copepodid), or motile pre-adults and adults. Non-motile sea lice were identified as one of two chalimus stages for *L. salmonis* (Hamre et al., 2013) or four chalimus stages for *C. clemensi*. Motile lice, either pre-adults or adults, were identified as either *L. salmonis* or *C. clemensi* and the sex of the louse was determined.

Chalimus were identified to species primarily by characteristics of the frontal filament. However, size, shape, genital development, and leg development were used as secondary identifying characteristics for speciation as well as primary indicators for life stage identification. Motile sea lice were identified to species by the presence or absence of lunules. If lunules were absent the louse was identified as *Lepeophtheirus spp.* The louse was identified as *Caligus spp.* if lunules were present.

Sea lice found on captured specimens have been assumed to be either *L. salmonis* or *C. clemensi* due to the lack of documented infestations of Pacific salmon by other species of sea lice (Jones and Nemec, 2004).

After microscopic analysis individual fish specimens were measured (fork length) in millimetres and weighed to the nearest tenth of a gram. Lengths and weights were recorded on the data sheet with the specimen's corresponding sea lice analysis results. The fish were then returned to their respective individual bags and repackaged in the large re-sealable bags by site before being refrozen.

To allow for quality assurance of sea lice identification, all sea lice were placed in vials labelled with the corresponding fish identification number and preserved in 70% isopropyl alcohol. Ten percent of the deloused fish specimens were randomly selected by specimen number and retained. Both the preserved lice and retained deloused fish specimens will be kept at the office of Mainstream Biological Consulting in Campbell River for five years.

2.4 Data Analysis

Surface, one meter and five meter depth water quality data collected for temperature, salinity and dissolved oxygen was summarized to report the minimum and maximum values and averages for each sample week.

Beach seine fish sample composition was summarized by species and site for each sample period. The fork lengths and weights of the samples were summarized to present minimum and maximum values as well as averages. Sea lice infestation rates, including the overall number of infested fish and the number of sea lice identified, were determined for the sample population, and prevalence and abundance of sea lice were calculated. Prevalence was defined as the number of host fish found to have one or

more sea lice compared to the total number of host fish examined, while abundance was defined as the total number of sea lice observed compared to the total number of host fish examined. The intensity of sea lice infestation, as described by the average number of sea lice found on a single salmon infested was summarized. Average intensity was calculated by dividing the total number of sea lice identified by the number of infested fish.

Statistical analysis of the spatial and temporal distribution of sea lice was not conducted. Spatial and temporal analysis has been limited to the simple presentation and discussion of the number of sea lice found on fish specimens collected from each site during each of the sampling events.

3.0 Results

The following sections outline the results of beach seine collection and inspection of juvenile salmonids collected from Nootka Sound, BC in 2023. Water quality field data is presented in Appendix I, beach seine fish capture data is included in Appendix II and data on the fish sample population including sea lice lab analysis results are listed in Appendix III.

3.1 Water Quality Parameters

Surface, one meter and five meter depth measurements of water temperature salinity and dissolved oxygen taken during beach seining at each of the 14 sites during the four sample periods are summarized in Table 2, Table 3 and Table 4 respectively and the complete dataset is included in Appendix I.

Recorded surface water temperatures ranged from a low of 4.2 °C recorded at Site 2 on April 17, 2023, to a high of 17.7 °C recorded at Site 14 on May 15, 2023 (Table 2; Appendix I). Calculated average surface water temperatures increased over the sampling period, from 6.8 °C on April 17, 2023, to 15.0 °C on May 29, 2023.

Recorded surface water salinity ranged from a low of 0.9 ppt recorded at Site 2 on April 17, 2023, to a high of 21.9 ppt recorded at Site 13 on May 29, 2023 (Table 2, Appendix I). Calculated average surface water salinity varied over the sampling period from 7.5 ppt on May 1, 2023, to 16.8 ppt on May 29, 2023 (Table 2).

Recorded surface dissolved oxygen (DO) ranged from a low of 6.1 mg/L recorded at Site 1 on May 29, 2023, to a high of 13.8 mg/L recorded at Site 1 on May 15, 2023 (Table 2; Appendix I). Calculated average surface dissolved oxygen decreased over the sampling period from 11.6 mg/L on April 17, 2023, to 7.7 mg/L on May 29, 2023 (Table 2).

Recorded one meter water temperatures ranged from a low of 6.2 °C recorded at Site 1 and 2 on April 17, 2023, to a high of 17.0 °C recorded at Site 14 on May 15, 2023 (Table 3; Appendix I). Calculated average one meter water temperatures increased over the sampling period, from 7.2 °C on April 17, 2023, to 15.0 °C on May 29, 2023 (Table 3).

Recorded one meter water salinity ranged from a low of 1.9 ppt recorded at Site 1 on May 1, 2023, to a high of 23.5 ppt recorded at Site 9 on May 29, 2023 (Table 3, Appendix I). Calculated average one meter water salinity varied over the sampling period from 9.6 ppt on May 1, 2023, to 17.5 ppt on May 29, 2023 (Table 3).

Recorded one meter dissolved oxygen (DO) ranged from a low of 6.2 mg/L recorded at Site 1 on May 29, 2023, to a high of 13.8 mg/L recorded at Site 1 on May 15, 2023 (Table 3; Appendix I). Calculated average one meter dissolved oxygen decreased over the sampling period from 11.4 mg/L on April 17, 2023, to 7.7 mg/L on May 29, 2023 (Table 3).

Recorded five meter water temperatures ranged from a low of 7.5 °C recorded at Site 9 on April 17, 2023, to a high of 15.3 °C recorded at Site 11 on May 29, 2023 (Table 4; Appendix I). Calculated average five meter water temperatures increased over the sampling period, from 8.3 °C on April 17, 2023, to 12.8 °C on May 29, 2023 (Table 4).

Recorded five meter water salinity ranged from a low of 6.9 ppt recorded at Site 7 on May 15, 2023, to a high of 25.9 ppt recorded at Site 14 on May 29, 2023 (Table 4;

Appendix I). Calculated average five meter water salinity varied over the sampling period from 20.3 ppt on May 1, 2023 to 22.9 on April 17, 2023 (Table 4).

Recorded five meter dissolved oxygen (DO) ranged from a low of 7.1 mg/L recorded at Site 1 on May 29, 2023, to a high of 14.0 mg/L recorded at Site 1 on May 15, 2023 (Table 4; Appendix I). Calculated average five meter dissolved oxygen varied over the sampling period from 8.8 mg/L on May 29, 2023, to 12.4 mg/L on May 15, 2023 (Table 4).

	17-Apr-23			01-May-23			15-May-23			29-May-23		
Site	Salinity (ppt)	Temp. (°C)	DO (mg/L)									
1	2.9	6.2	13.4	1.8	9.4	12.6	2.6	12.4	13.8	7.7	15.2	6.1
2	0.9	4.2	13.3	2.1	8.4	11.0	2.9	11.9	11.3	8.5	14.1	7.1
3	7.9	6.5	12.1	3.3	10.3	11.0	6.8	14.4	10.2	11.4	15.3	7.3
4	7.5	6.2	12.0	7.5	11.8	10.2	6.8	14.8	9.8	17.8	14.5	7.7
5	15.7	7.6	10.9	5.3	9.9	11.0	7.7	14.8	9.3	14.3	14.2	8.1
6	10.3	7.1	11.2	7.8	11.7	10.3	11.3	13.5	10.3	19.8	14.2	8.0
7	5.3	6.2	12.1	5.4	12.0	11.0	6.2	14.2	10.0	15.8	14.7	8.2
8	13.9	7.4	10.8	9.5	12.5	10.3	10.7	14.8	9.7	19.8	15.0	7.8
9	14.4	7.0	11.0	14.9	12.4	10.4	15.0	15.3	9.2	21.5	13.8	8.1
10	9.9	6.9	11.5	9.0	13.1	10.4	9.4	14.4	10.0	19.6	15.5	8.1
11	9.7	6.9	11.4	6.0	13.5	10.5	9.5	15.7	10.2	17.9	16.0	7.8
12	8.1	7.1	11.2	6.3	14.8	10.2	10.1	15.9	9.1	18.0	17.1	7.4
13	14	7.7	10.9	15.2	14.4	10.0	13.6	17.6	9.8	21.9	15.1	7.8
14	11.7	7.6	11.0	10.4	13.0	10.0	15.0	17.7	9.9	21.2	15.1	7.6
Average	9.4	6.8	11.6	7.5	11.9	10.6	9.1	14.8	10.2	16.8	15.0	7.7

Table 2: Surface water quality parameters collected during 2023 beach seine sampling in Nootka Sound, BC.

		17-Apr-23	3	()1-May-23	3		15-May-23	3		29-May-23	3
Site	Salinity (ppt)	Temp. (°C)	DO (mg/L)									
1	3.7	6.2	13.5	1.9	9.5	12.2	8.9	11.8	13.8	8.4	15.5	6.2
2	4.9	6.2	12.3	3.4	10.3	10.6	5.8	12.9	10.6	10.9	14.9	6.9
3	8.8	6.8	12.0	3.6	10.4	11.2	7.7	14.3	10.4	12.0	15.2	7.4
4	10.5	7.0	11.6	9.1	12.1	10.3	7.3	14.3	10.1	17.4	14.5	7.8
5	18.1	7.8	10.7	7.4	10.8	10.7	11.4	13.5	10.0	16.1	14.5	8.0
6	11.5	7.5	11.1	10.0	12.1	10.3	11.7	13.4	10.4	19.7	14.2	8.0
7	6.8	6.3	11.9	5.7	11.9	11.1	6.5	14.1	10.0	16.0	14.6	8.3
8	14.7	7.6	11.0	11.1	12.4	10.4	11.1	14.5	9.8	20.2	15.1	7.9
9	22.0	7.2	10.0	17.0	12.3	10.4	20.0	12.7	10.0	23.5	13.1	8.4
10	9.9	6.9	11.6	9.1	13.1	10.7	9.7	14.1	10.1	19.7	15.2	8.3
11	10.2	7.0	11.5	10.6	12.5	10.6	10.3	14.6	10.0	19.2	15.7	7.8
12	12.3	8.2	10.9	10.2	12.6	10.6	10.3	15.5	9.3	18.3	16.8	7.5
13	14.7	7.8	10.9	20.1	11.9	10.9	15.5	16.3	10.4	22.0	15.1	7.8
14	12.1	7.7	10.9	14.5	12.0	10.6	15.8	17.0	10.1	21.3	15.0	7.8
Average	11.4	7.2	11.4	9.6	11.7	10.8	10.9	14.2	10.4	17.5	15.0	7.7

Table 3: One meter water quality parameters collected during 2023 beach seine sampling in Nootka Sound, BC.

		17-Apr-23	3	()1-May-23	3		15-May-23	3		29-May-23	3
Site	Salinity (ppt)	Temp. (°C)	DO (mg/L)									
1	24.5	8.7	11.0	10.0	10.8	11.5	25.4	9.4	14.0	19.4	13.1	7.1
2	24.4	8.5	10.2	23.0	9.8	10.2	25.5	9.1	11.8	20.0	13.1	7.2
3	25.6	8.4	10.2	23.4	9.8	10.6	25.5	9.1	11.7	20.3	13.1	7.9
4	24.9	8.6	10.4	24.7	9.5	11.1	25.5	9.2	11.3	24.4	11.3	9.7
5	21.4	8.2	10.3	-	-	-	-	-	-	-	-	-
6	22.9	8.4	10.3	16.9	11.7	10.6	25.1	9.7	11.8	22.3	13.5	8.6
7	22.1	8.2	9.8	24.2	9.7	11.5	6.9	14.0	10.2	-	-	-
8	18.9	7.6	10.8	12.4	12.8	9.4	-	-	-	-	-	-
9	23.2	7.5	10.2	-	-	-	-	-	-	-	-	-
10	24.8	7.9	10.2	24.4	9.6	11.7	25.7	9.2	12.1	23.4	13.3	9.5
11	22.5	8.3	9.8	12.5	12.6	10.0	12.3	14.2	11.9	20.8	15.3	7.6
12	23.1	8.9	10.4	23.7	9.8	11.7	25.9	9.5	13.7	24.1	12.9	9.5
13	24.3	8.5	10.2	24.1	9.7	12.1	25.4	9.6	14.0	25.3	11.5	9.8
14	17.4	8.5	10.0	24.1	9.5	11.4	25.2	9.9	13.6	25.9	11.0	10.6
Average	22.9	8.3	10.3	20.3	10.4	11.0	22.6	10.3	12.4	22.6	12.8	8.8

Table 4: Five meter water quality parameters collected during 2023 beach seine sampling in Nootka Sound, BC.

3.2 Fish Sample Composition

A total of 848 fish were captured during beach seine sampling conducted in Nootka Sound, BC in 2023 (Table 5). A summary of the total number of fish captured and collected as specimens at each site over the collection period is presented in Table 6, with a complete dataset provided in Appendix II. Of the 848 fish captured, 410 individual chum, 15 chinook and 3 coho salmon were retained for lab analysis (Table 5). No pink, sockeye or Atlantic salmon were captured during sampling completed in Nootka Sound in 2023.

Chum salmon (*O. keta*) smolts were captured in significantly greater numbers than any other species. A total of 830 chum salmon were captured, representing 97.9 % of all captured salmonids.

Common Name	Capture Total (% of total capture population)	Collection Totals	Collection %
chum salmon	830 (97.9 %)	410	49.4 %
chinook salmon	15 (1.8 %)	15	100.0 %
coho salmon	3 (0.4 %)	3	100.0 %
All Species	848	428	50.5 %

Table 5:The total of collected individuals of each fish species captured in Nootka
Sound, BC between April 17 and May 29, 2023, and the percentage of the
total capture population that they represent.

0.75	Ch	um	Chir	look	Co	ho	Capture	Sample
SILE	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total	Totals	Totals
1	54	54	0	0	1	1	55	55
2	17	17	1	1	0	0	18	18
3	1	1	0	0	0	0	1	1
4	2	2	0	0	0	0	2	2
5	36	36	0	0	0	0	36	36
6	370	63	0	0	0	0	370	63
7	132	70	0	0	1	1	133	71
8	42	32	0	0	0	0	42	32
9	96	59	0	0	0	0	96	59
10	10	10	0	0	0	0	10	10
11	28	28	0	0	1	1	29	29
12	4	4	7	7	0	0	11	11
13	4	4	0	0	0	0	4	4
14	34	30	7	7	0	0	41	37
Total	830	410	15	15	3	3	848	428

Table 6:The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the
14 sample sites in Nootka Sound, BC between April 17, and May 29, 2023.

3.3 Fish Sample Size Statistics

Summary statistics for weight and fork length were calculated for the sample population of juvenile salmonids. Length (Table 7) and weight (Table 8) data were summarized by sampling event for each species.

3.3.1 Chum Salmon

Individual weight of the 410 chum smolts collected during the four sample events ranged from 0.3 g to 9.6 g and averaged 0.7 g (SD = 0.6). Fork length of the chum smolts ranged from 31 mm to 98 mm and averaged 39 mm (SD = 5)

3.3.2 Chinook Salmon

Individual weight of the 15 chinook smolts collected during the four sample events ranged from 0.7 g to 13.3 g and averaged 5.8 g (SD = 2.5). Fork length of the chinook smolts ranged from 41 mm to 77 mm and averaged 23 mm (SD = 23).

3.3.3 Coho Salmon

Individual weight of the three coho salmon collected during the four sample events ranged from 0.3 g to 8.3 g and averaged 3.1 g (SD = 4.5). Fork length of the coho salmon ranged from 30 mm to 85 mm and averaged 50 mm (SD = 30).

		, , ,							
Species	Length (mm)								
	17-Apr-23	01-May-23	15-May-23	29-May-23					
chum	38	38	39	51					
chinook	-	41	76	80					
coho	30	-	60	-					

Table 7:Average lengths of chum, chinook and coho salmon collected in Nootka
Sound in 2023, summarized by sampling event.

Table 8:Average weights of chum, chinook and coho salmon collected in Nootka
Sound in 2023, summarized by sampling event.

Species	Weight (g)								
	17-Apr-23	01-May-23	15-May-23	29-May-23					
chum	0.7	0.6	0.7	1.9					
chinook	-	0.7	6.3	6.1					
coho	0.3	-	4.5	-					

3.4 Sea Lice Infestation Rates

The results of laboratory analysis for the presence of sea lice on the fish sample population collected in Nootka Sound, BC in 2023 are presented in Table 9. A complete dataset is included in Appendix III. A total of 428 samples were collected at the 14 sites in Nootka Sound, BC and inspected for sea lice infestation. A total of five fish in the sample population were found to be infested with five sea lice (Table 9).

The sea lice prevalence in the sample population collected in Nootka Sound, BC in 2023 was 1.2 %, the abundance was 0.012 and the average intensity was 1.0 (Table 9).

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	410	4	4	1.0	0.0098	1.0
chinook	15	1	1	6.7	0.067	1.0
coho	3	0	0	0.0	0.00	0.0
Total	428	5	5	1.2	0.012	1.0

Table 9:Results of analysis for sea lice infestation on fish collected by beach seine in
Nootka Sound, BC in 2023.

3.4.1 Infestation Rates on Chum Salmon

The results of the laboratory analysis for sea lice infestation for chum salmon are presented by site in Table 10. A total of four chum salmon were found to be infested with four sea lice. The largest number of chum salmon infested with sea lice (3 chum) and the largest number of sea lice (3 lice) found on samples were at Site 14 (Table 10). At least one chum salmon was collected from every site (Table 10). Sea lice were found on chum samples from Sites 7 and 14.

Four chum salmon were found to be infested with at least one sea louse. The prevalence of sea lice on the chum salmon sample population (n= 410) collected in Nootka Sound, BC in 2023 was 1.0 %. Sea lice prevalence calculated by site for chum salmon is presented in Table 10. The highest sea lice prevalence (10.0 %) was at Site 14.

The abundance of sea lice on the chum salmon sample population (n= 410) collected in Nootka Sound, BC in 2023 was 0.0098. The highest sea lice abundance (0.10) was at Site 14. The four sea lice identified were observed on four individual chum salmon resulting in an average intensity of 1.0 at both Site 7 and 14.

Table 10:	Total number, prevalence, abundance, and intensity of sea lice infestation on
	chum salmon collected in Nootka Sound, BC in 2023, summarized by
	sampling site.

Site	# of Chum Analyzed	# of Infested Chum	Average Weight of Infested Chum (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity
1	54	0	-	0	0.0	0.00	0.0
2	17	0	-	0	0.0	0.00	0.0
3	1	0	-	0	0.0	0.00	0.0
4	2	0	-	0	0.0	0.00	0.0
5	36	0	-	0	0.0	0.00	0.0
6	63	0	-	0	0.0	0.00	0.0
7	70	1	0.9	1	1.4	0.014	1.0
8	32	0	-	0	0.0	0.00	0.0
9	59	0	-	0	0.0	0.00	0.0
10	10	0	-	0	0.0	0.00	0.0
11	28	0	-	0	0.0	0.00	0.0
12	4	0	-	0	0.0	0.00	0.0
13	4	0	-	0	0.0	0.00	0.0
14	30	3	1.4	3	10.0	0.10	1.0
TOTAL	410	4	1.3	4	1.0	0.0098	1.0

3.4.2 Infestation Rates on Chinook Salmon

The results of the laboratory analysis for sea lice infestation for chinook salmon are presented in Table 11. One chinook salmon was found to be infested with one sea louse at Site 14. Chinook salmon were only captured at Sites 2, 12 and 14.

The prevalence of sea lice on the chinook salmon sample population (n= 15) collected in Nootka Sound, BC in 2023 was 6.7 %. The abundance of sea lice on the chinook salmon sample population (n= 15) was 0.14. The one sea louse identified was observed on one individual chinook salmon, resulting in an average intensity of 1.0 for the sample population (Table 11).

Table 11:	Total number, prevalence, abundance, and intensity of sea lice infestation on
	chinook salmon collected in Nootka Sound, BC in 2023, summarized by
	sampling site.

Site	# of Chinook Analyzed	# of Infested Chinook	Average Weight of Infested Chinook (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity
1	0	0	-	0	0.0	0.00	0.0
2	1	0	-	0	0.0	0.00	0.0
3	0	0	-	0	0.0	0.00	0.0
4	0	0	-	0	0.0	0.00	0.0
5	0	0	-	0	0.0	0.00	0.0
6	0	0	-	0	0.0	0.00	0.0
7	0	0	-	0	0.0	0.00	0.0
8	0	0	-	0	0.0	0.00	0.0
9	0	0	-	0	0.0	0.00	0.0
10	0	0	-	0	0.0	0.00	0.0
11	0	0	-	0	0.0	0.00	0.0
12	7	0	-	0	0.0	0.00	0.0
13	0	0	-	0	0.0	0.00	0.0
14	7	1	5.7	1	14.3	0.14	1.0
TOTAL	15	1	5.7	1	6.7	0.067	1.0

3.5 Infestation by Sea Lice Species

Five *Lepeophtheirus salmonis* sea lice of various life stages were identified on five juvenile salmon (Appendix III). No *Caligus clemensi* sea lice identified on the collected juvenile salmon sample population.

3.5.1 Infestation by Life Stage on Chum Salmon

Four *Lepeophtheirus salmonis* sea lice of copepodid life stage were identified on four juvenile chum salmon (Table 12; Appendix III). No *Caligus clemensi* sea lice were found on the collected chum sample population. The sea lice species identified on chum salmon are also presented by site in Table 13.

Table 12: The number of *Lepeophtheirus salmonis* and *Caligus clemensi* in each life stage identified on the chum salmon sample population from Nootka Sound, BC in 2023. LEP = *Lepeophtheirus salmonis* CAL= *Caligus clemensi*

Life Stage ¹	17-Apr-23	01-May-23	15-May-23	29-May-23
LEP Co	4	0	0	0
LEP C1	0	0	0	0
LEP C2	0	0	0	0
LEP NM No ID	0	0	0	0
LEP PAM	0	0	0	0
LEP PAF	0	0	0	0
LEP AM	0	0	0	0
LEP AF	0	0	0	0
TOTAL LEP	4	0	0	0
CAL Co	0	0	0	0
CAL C1	0	0	0	0
CAL C2	0	0	0	0
CAL C3	0	0	0	0
CAL C4	0	0	0	0
CAL NM No ID	0	0	0	0
CAL PAM	0	0	0	0
CAL PAF	0	0	0	0
CAL AM	0	0	0	0
CAL AF	0	0	0	0
TOTAL CAL	0	0	0	0

¹ Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

								Sample	e Period									ΤΟΤΑΙ	
		17-Apr-2	23			01-May-	23			15-May-	23			29-May-	-23			IUTAL	
Site	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of Lice
1	8	0	0	0	24	0	0	0	14	0	0	0	8	0	0	0	54	0	0
2	0	0	0	0	16	0	0	0	0	0	0	0	1	0	0	0	17	0	0
3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0
5	25	0	0	0	10	0	0	0	1	0	0	0	0	0	0	0	36	0	0
6	3	0	0	0	30	0	0	0	30	0	0	0	0	0	0	0	63	0	0
7	8	1	1	0	30	0	0	0	30	0	0	0	2	0	0	0	70	1	1
8	1	0	0	0	30	0	0	0	0	0	0	0	1	0	0	0	32	0	0
9	0	0	0	0	30	0	0	0	29	0	0	0	0	0	0	0	59	0	0
10	0	0	0	0	9	0	0	0	0	0	0	0	1	0	0	0	10	0	0
11	17	0	0	0	1	0	0	0	10	0	0	0	0	0	0	0	28	0	0
12	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	4	0	0
13	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	4	0	0
14	30	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	30	3	3
TOTAL	93	4	4	0	185	0	0	0	117	0	0	0	15	0	0	0	410	4	4

Table 13: The number of sea lice found on chum salmon collected in Nootka Sound, BC in 2023 summarized by sampling site. LEP = Lepeophtheirus salmonis CAL = Caligus clemensi

3.5.2 Infestation by Life Stage on Chinook Salmon

One female *Lepeophtheirus salmonis* sea louse of pre-adult life stage was identified on one juvenile chinook salmon (Table 14; Appendix III). The sea lice species identified on chinook salmon are also presented by site in Table 15.

Table 14:The number of Lepeophtheirus salmonis and Caligus clemensi in each life
stage identified on the chinook salmon sample population from Nootka
Sound, BC in 2023. LEP = Lepeophtheirus salmonis CAL= Caligus clemensi

Life Stage ¹	17-Apr-23	01-May-23	15-May-23	29-May-23
LEP Co	0	0	0	0
LEP C1	0	0	0	0
LEP C2	0	0	0	0
LEP NM No ID	0	0	0	0
LEP PAM	0	0	0	0
LEP PAF	0	0	0	1
LEP AM	0	0	0	0
LEP AF	0	0	0	0
TOTAL LEP	0	0	0	1
CAL Co	0	0	0	0
CAL C1	0	0	0	0
CAL C2	0	0	0	0
CAL C3	0	0	0	0
CAL C4	0	0	0	0
CAL NM No ID	0	0	0	0
CAL PAM	0	0	0	0
CAL PAF	0	0	0	0
CAL AM	0	0	0	0
CAL AF	0	0	0	0
	0	0	0	0

¹ Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

								Sample	e Period									τοται	
		17-Apr-2	23			01-May-	23			15-May-	23			29-May-	-23			IUTAL	
Site	# of Chinook Analyzed	# of Infested Chinook	# of LEP	# of CAL	# of Chinook Analyzed	# of Infested Chinook	# of LEP	# of CAL	# of Chinook Analyzed	# of Infested Chinook	# of LEP	# of CAL	# of Chinook Analyzed	# of Infested Chinook	# of LEP	# of CAL	# of Chinook Analyzed	# of Infested Chinook	# of Lice
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	1	0	0	0	6	0	0	0	7	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	7	1	1	0	7	1	1
TOTAL	0	0	0	0	1	0	0	0	1	0	0	0	13	1	1	0	15	1	1

Table 15: The number of sea lice found on chinook salmon collected in Nootka Sound, BC in 2023 summarized by sampling site. LEP = Lepeophtheirus salmonis CAL = Caligus clemensi

4.0 Conclusions

This report presents the data from the twentieth year of beach seining and sea lice analysis conducted for wild juvenile salmonid in Nootka Sound, BC by Grieg Seafood. This report is limited to the summary and presentation of the 2023 collected data.

A total of 428 fish samples underwent lab analysis for sea lice infestation in 2023 including 410 chum, 15 chinook and three coho salmon. No pink, sockeye or Atlantic salmon were captured during sampling completed in Nootka Sound, BC in 2023. Five individuals were found to be infested with sea lice in the total sample population, resulting in a calculated sea lice prevalence of 1.2 %, abundance of 0.012 and an average intensity of 1.0 for the sample population.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 830 chum salmon were captured, representing 97.9 % of all captured salmonids. Of the 830 chum captured, 410 were retained for lab analysis for sea lice infestation. Four chum smolts were found to be infested with four sea lice resulting in a calculated prevalence of 1.0 %, abundance of 0.0098 and an average intensity of 1.0 for the chum salmon sample population.

A total of 15 chinook salmon were captured, representing 1.8 % of all captured salmonids. All 15 captured chinook salmon were retained for lab analysis for sea lice infestation. One chinook smolt was found to be infested with one sea lice resulting in a calculated prevalence of 6.7 %, abundance of 0.067 and an average intensity of 1.0 for the chinook salmon sample population.

Three coho salmon were captured, representing 0.4 % of all captured salmonids. All three captured coho salmon were retained for lab analysis for sea lice infestation. None of the coho smolts were infested by sea lice, resulting in a calculated prevalence, abundance, and average intensity of zero for the coho salmon sample population.

Five *Lepeophtheirus salmonis* sea lice of various life stages were identified on five juvenile salmon (Appendix III). No *Caligus clemensi* sea lice were identified on the collected salmon sample population.

Four *Lepeophtheirus salmonis* sea lice of copepodid life stage were identified on four juvenile chum salmon. One female *Lepeophtheirus salmonis* sea louse of pre-adult life stage was identified on one juvenile chinook salmon.

5.0 References

- Hamre L.A., C Eichner, C.M.A. Caipang, S.T. Dalvin, J.E. Bron, F. Nilsen, G. Boxshall and R. Skern-Mauitzen. 2013. The Salmon Louse *Lepeophtheirus salmonis* (Copepoda: Caligidae) Life Cycle Has Only Two Chalimus Stages. PLoS ONE 8(9): e73539.
- Healey M.C. 1991. Life history of chinook salmon (Oncorhynchus tshawytscha). In: Pacific Salmon Life Histories. C Grott, L Margolis (eds). UBC Press, Vancouver. Pp 313-393.
- Jones S. and S. Johnson. 2015. Sea lice monitoring and non-chemical measures A: Biology of sea lice, *Lepeophtheirus salmonis* and *Caligus spp.*, in western and eastern Canada. DFO Canadian Science Advisory Secretariat. Research Document 2014/019 Pacific Region. Pacific Biological Station, Fisheries and Oceans Canada.
- Jones S. and A. Nemec. 2004. Pink Salmon Action Plan Research. Part II: Sea Lice on Juvenile Salmon and on Three-spine Sticklebacks in 2003. PSARC Working Paper H2004-01.
- Johnson S.C. and L.J. Albright. 1991a. The developmental stages of *Lepeophtheirus* salmonis (Kroyer, 1837) (Copepoda: Caligidae). Canadian Journal of Zoology 69: 929-950.
- Johnson S.C. and L.J. Albright. 1991b. Development, growth and survival of *Lepeophtheirus salmonis* (Copepoda: Caligidae) under laboratory conditions. Journal of the Marine Biological Association of the UK 71: 425-436.
- Kabata Z. 1972. Developmental stages of *Caligus clemensi* (Copepoda: Caligidae) from fishes of British Columbia. Journal of the Fisheries Research Board of Canada 29: 1571-1593.
- Kabata Z. 1974. The species of *Lepeophtheirus* (Copepoda: Caligidae), from fishes of British Columbia. Journal of the Fisheries Research Board of Canada 30: 729-759.
- Margolis L., J.R. Arthur. 1979. Synopsis of the parasites of fishes of Canada. Bulletin of the Fisheries Research Board of Canada, Number 199. Ottawa. 269 pages.
- McDonald T.E., and L. Margolis. 1995. Synopsis of the parasites of fishes of Canada (1978-1993). Canadian Special Publication of Fisheries and Aquatic Sciences No. 122. National Research Council of Canada, Ottawa. 265 pages.
- Pacific Aquaculture Regulations. Finfish Aquaculture Licence conditions under the Pacific Aquaculture Regulations. Section 7. Sea Lice Monitoring
- Parker R.R. and L. Margolis. 1964. A new species of parasitic copepod, *Caligus clemensi* sp. nov. (Clogoida: Caligidae), from pelagic fishes in the coastal waters of British Columbia. Journal of Fisheries Research Board of Canada 21: 873-889.
- Pollard W.R., G.F. Hartman, C. Groot, and P. Edgell. 1997. Field Identification of Coastal Juvenile Salmonids. Published by Harbour Publishing for the Federal Department of Fisheries and Oceans and MacMillan Bloedel Ltd. Madeira Park, BC Canada.

- Saksida, S., Constantine J., Karreman G.A. and Donald A. 2007a. Evaluation of sea lice abundance levels on farmed Atlantic salmon (*Salmo salar* L) located in the Broughton Archipelago of British Columbia from 2003 to 2005. Aquacult. Res. 38: 219-231.
- Saksida, S., Karreman G.A., Constantine J., and Donald A. 2007b. Differences in *Lepeophtheirus salmonis* abundance levels on Atlantic salmon farms in the Broughton Archipelago, British Columbia, Canada. J. Fish Dis. 30:357-366.
- Salo E.O. 1991. Life history of chum salmon (*Oncorhynchus keta*). In: Pacific Salmon Life Histories. C Grott, L Margolis (eds). UBC Press, Vancouver. Pp 233-309.
- Sandercock F.K. 1991. Life history of coho salmon (*Oncorhynchus kisutch*). In: Pacific Salmon Life Histories. C. Grott, L. Margolis (eds). UBC Press, Vancouver. Pp 397-445.
- Tully O. 1992. Predicting infestation parameters and impacts of caligid copepods in wild and captured fish populations. Invert. Reprod. Develop. 22: 91-102.

Temperature Temperature Salinity (ppt) DO (mg/L) Salinity (ppt) DO (mg/l (deg C.) (deg C.) Site Number Site Name Date Time 0.2m 0.2m 0.2m 1.0m 1.0m 1.0m 17-Apr-23 08:43 1 McCurdy Creek 2.9 6.2 13.4 3.7 6.2 13.5 2 4.2 13.3 4.9 6.2 12.3 17-Apr-23 09:16 North Muchalat 0.9 17-Apr-23 09:32 3 Houston River 7.9 6.5 12.1 8.8 6.8 12.0 17-Apr-23 09:51 4 Ous Point 7.5 6.2 12.0 10.5 7.0 11.6 17-Apr-23 10:07 5 15.7 7.6 10.9 18.1 7.8 10.7 Silverado Creek 17-Apr-23 10.3 7.1 7.5 11.1 10:50 6 Gore Island 11.2 11.5 7 17-Apr-23 5.3 6.2 12.1 6.8 6.3 11.9 11:06 Williamson 17-Apr-23 11:32 8 East Mooyah 13.9 7.4 10.8 14.7 7.6 11.0 17-Apr-23 12:10 9 **Zuciarte Channel** 14.4 7.0 11.0 22.0 7.2 10.0 17-Apr-23 9.9 6.9 12:38 10 **Concepcion Point** 6.9 11.5 9.9 11.6 17-Apr-23 12:55 11 Hanna Channel 9.7 6.9 11.4 10.2 7.0 11.5 17-Apr-23 13:23 12 Hois Point 8.1 11.2 12.3 8.2 10.9 7.1 14.0 7.7 10.9 7.8 17-Apr-23 13:46 13 Villaverda Island 14.7 10.9 17-Apr-23 14:05 14 Jewitt Cove 11.7 7.6 11.0 12.1 7.7 10.9 12.6 9.5 01-May-23 08:39 1 McCurdy Creek 1.8 9.4 1.9 12.2 01-May-23 09:10 2 North Muchalat 2.1 8.4 11.0 3.4 10.3 10.6 3 01-May-23 09:31 Houston River 3.3 10.3 11.0 3.6 10.4 11.2 01-May-23 09:52 4 Ous Point 7.5 10.2 9.1 12.1 10.3 11.8 Silverado Creek 01-May-23 5 5.3 9.9 11.0 7.4 10.8 10.7 10:11 01-May-23 10:32 Gore Island 7.8 10.0 12.1 10.3 6 11.7 10.3 12.0 01-May-23 11:03 7 Williamson 5.4 11.0 5.7 11.9 11.1 9.5 01-May-23 11:25 8 East Mooyah 12.5 10.3 11.1 12.4 10.4 01-May-23 11:59 9 **Zuciarte Channel** 14.9 12.4 10.4 17.0 12.3 10.4 01-May-23 12:28 10 9.0 13.1 10.4 9.1 13.1 10.7 **Concepcion Point** 12.5 01-May-23 12:44 11 Hanna Channel 6.0 13.5 10.5 10.6 10.6 01-May-23 12 Hois Point 6.3 14.8 10.2 10.2 12.6 13:11 10.6 10.0 10.9 01-May-23 13:18 13 Villaverda Island 15.2 14.4 20.1 11.9 01-May-23 13:48 14 Jewitt Cove 10.4 13.0 10.0 14.5 12.0 10.6 13.8 15-May-23 08:21 1 McCurdy Creek 2.6 12.4 8.9 11.8 13.8 2 North Muchalat 15-May-23 08:52 2.9 11.9 11.3 5.8 12.9 10.6 15-May-23 09:02 3 Houston River 6.8 14.4 10.2 7.7 14.3 10.4 15-May-23 4 6.8 14.8 9.8 7.3 14.3 10.1 09:18 Ous Point 15-May-23 09:28 5 Silverado Creek 7.7 14.8 9.3 11.4 13.5 10.0 09:57 6 11.3 13.5 10.3 11.7 13.4 15-May-23 Gore Island 10.4 7 10 15-May-23 10:16 Williamson 6.2 14.2 6.5 14.1 10.0 15-May-23 10:42 8 East Mooyah 10.7 14.8 9.7 14.5 9.8 11.1 **Zuciarte Channel** 9.2 10.0 15-May-23 11:!5 9 15.0 15.3 20.0 12.7 15-May-23 11:37 10 **Concepcion Point** 9.4 14.4 10.0 9.7 14.1 10.1

Appendix I – Field Data

_)	Salinity (ppt)	Temperature (deg C.)	DO (mg/L)				
	5.0m	5.0m	5.0m				
	24.5	8.7	11.0				
	24.4	8.5	10.2				
	25.6	8.4	10.2				
	24.9	8.6	10.4				
	21.4	8.2	10.3				
	22.9	8.4	10.3				
	22.1	8.2	9.8				
	18.9	7.6	10.8				
	23.2	7.5	10.2				
	24.8	7.9	10.2				
	22.5	8.3	9.8				
	23.1	8.9	10.4				
	24.3	8.5	10.2				
	17.4	8.5	10.0				
	10.0	10.8	11.5				
	23.0	9.8	10.2				
	23.4	9.8	10.6				
	24.7	9.5	11.1				
	-	-	-				
	16.9	11.7	10.6				
	24.2	9.7	11.5				
	12.4	12.8	9.4				
	-	-	-				
	24.4	9.6	11.7				
	12.5	12.6	10.0				
	23.7	9.8	11.7				
	24.1	9.7	12.1				
	24.1	9.5	11.4				
	25.4	9.4	14.0				
	25.5	9.1	11.8				
	25.5	9.1	11.7				
	25.5	9.2	11.3				
	-	-	-				
	25.1	9.7	11.8				
	6.9	14.0	10.2				
	-	-	-				
	-	-	-				
	25.7	9.2	12.1				

Date	Time	Site Number	Site Name	Salinity (ppt)	Temperature (deg C.)	DO (mg/L)	Salinity (ppt)	Temperature (deg C.)	DO (mg/L)	Salinity (ppt)	Temperature (deg C.)	DO (mg/L)
				0.2m	0.2m	0.2m	1.0m	1.0m	1.0m	5.0m	5.0m	5.0m
15-May-23	12:05	11	Hanna Channel	9.5	15.7	10.2	10.3	14.6	10	12.3	14.2	11.9
15-May-23	12:25	12	Hois Point	10.1	15.9	9.1	10.3	15.5	9.3	25.9	9.5	13.7
15-May-23	12:47	13	Villaverda Island	13.6	17.6	9.8	15.5	16.3	10.4	25.4	9.6	14.0
15-May-23	13:18	14	Jewitt Cove	15.0	17.7	9.9	15.8	17.0	10.1	25.2	9.9	13.6
29-May-23	08:10	1	McCurdy Creek	7.7	15.2	6.1	8.4	15.5	6.2	19.4	13.1	7.1
29-May-23	08:39	2	North Muchalat	8.5	14.1	7.1	10.9	14.9	6.9	20.0	13.1	7.2
29-May-23	08:52	3	Houston River	11.4	15.3	7.3	12.0	15.2	7.4	20.3	13.1	7.9
29-May-23	09:12	4	Ous Point	17.8	14.5	7.7	17.4	14.5	7.8	24.4	11.3	9.7
29-May-23	09:24	5	Silverado Creek	14.3	14.2	8.1	16.1	14.5	8.0	-	-	-
29-May-23	09:48	6	Gore Island	19.8	14.2	8.0	19.7	14.2	8.0	22.3	13.5	8.6
29-May-23	10:00	7	Williamson	15.8	14.7	8.2	16.0	14.6	8.3	-	-	-
29-May-23	10:23	8	East Mooyah	19.8	15.0	7.8	20.2	15.1	7.9	-	-	-
29-May-23	10:45	9	Zuciarte Channel	21.5	13.8	8.1	23.5	13.1	8.4	-	-	-
29-May-23	11:13	10	Concepcion Point	19.6	15.5	8.1	19.7	15.2	8.3	23.4	13.3	9.5
29-May-23	11:28	11	Hanna Channel	17.9	16.0	7.8	19.2	15.7	7.8	20.8	15.3	7.6
29-May-23	11:52	12	Hois Point	18.0	17.1	7.4	18.3	16.8	7.5	24.1	12.9	9.5
29-May-23	12:14	13	Villaverda Island	21.9	15.1	7.8	22.0	15.1	7.8	25.3	11.5	9.8
29-May-23	12:35	14	Jewitt Cove	21.2	15.1	7.6	21.3	15.0	7.8	25.9	11.0	10.6

Appendix II – Capture and Collection Sample Totals

Date	Set Number	Site Name	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	Salmonid Mortalities	Weather Comments	Comments
17-Apr-23	1	McCurdy Creek	High	0	0	8	8	0	0	0	0	0	0	0	Calm, overcast	No bycatch
17-Apr-23	2	North Muchalat	High	0	0	0	0	0	0	0	0	0	0	0	Choppy, overcast	Abundant jellyfish
17-Apr-23	3	Houston River	High	0	0	0	0	0	0	0	0	0	0	0	Choppy, overcast	No bycatch
17-Apr-23	4	Ous Point	High	0	0	0	0	0	0	0	0	0	0	0	Calm, rainy	1 sculpin, abundant jellyfish
17-Apr-23	5	Silverado Creek	High	0	0	25	25	0	0	0	0	0	0	0	Calm, rainy	1 flatfish, abundant jellyfish
17-Apr-23	6	Gore Island	High	0	0	3	3	0	0	0	0	0	0	0	Rain, slight chop	No bycatch
17-Apr-23	7	Williamson	High	0	0	8	8	0	0	0	0	0	0	0	Rainy, choppy	No bycatch
17-Apr-23	8	East Mooyah	High	0	0	1	1	0	0	0	0	0	0	0	Calm, rain, light wind	1 sculpin
17-Apr-23	9	Zuciarte Channel	High	0	0	0	0	0	0	0	0	0	0	0	Rain, slight chop	No bycatch
17-Apr-23	10	Concepcion Point	High	0	0	0	0	0	0	0	0	0	0	0	Rain, choppy, windy	No bycatch
17-Apr-23	11	Hanna Channel	High	0	0	17	17	1	1	0	0	0	0	0	Rain, slight chop	4 sculpins
17-Apr-23	12	Hois Point	High	0	0	1	1	0	0	0	0	0	0	0	Calm, rainy	No bycatch
17-Apr-23	13	Villaverda Island	High	0	0	0	0	0	0	0	0	0	0	0	Rain, slight swell	1 goby, abundant jellyfish
17-Apr-23	14	Jewitt Cove	High	0	0	34	30	0	0	0	0	0	0	0	Calm, rainy	2 sculpins
01-May-23	1	McCurdy Creek	Mid	0	0	24	24	0	0	0	0	0	0	0	Calm, sun, cloud	No bycatch
01-May-23	2	North Muchalat	Mid	0	0	16	16	0	0	1	1	0	0	0	Calm, sun, cloud	No bycatch
01-May-23	3	Houston River	High	0	0	1	1	0	0	0	0	0	0	0	Calm, sun, cloud	No bycatch
01-May-23	4	Ous Point	High	0	0	2	2	0	0	0	0	0	0	0	Calm, sun, cloud	No bycatch
01-May-23	5	Silverado Creek	High	0	0	10	10	0	0	0	0	0	0	0	Calm, sun, cloud	No bycatch
01-May-23	6	Gore Island	High	0	0	295	30	0	0	0	0	0	0	0	Calm, sun, cloud	20 chum for fish health, 3 sculpins
01-May-23	7	Williamson	High	0	0	76	30	0	0	0	0	0	0	0	Calm, sun, cloud	No bycatch
01-May-23	8	East Mooyah	High	0	0	40	30	0	0	0	0	0	0	0	Calm, sun	No bycatch
01-May-23	9	Zuciarte Channel	High	0	0	57	30	0	0	0	0	0	0	0	Calm, sun	No bycatch
01-May-23	10	Concepcion Point	High	0	0	9	9	0	0	0	0	0	0	0	Calm, sun	No bycatch

Date	Set Number	Site Name	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	Salmonid Mortalities	Weather Comments	Comments
01-May-23	11	Hanna Channel	High	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	1 pipefish, 2 flatfish, 1 juvenile lingcod, 2 sculpins
01-May-23	12	Hois Point	Mid	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	1 juvenile lingcod, 2 sculpins
01-May-23	13	Villaverda Island	Mid	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	No bycatch
01-May-23	14	Jewitt Cove	Mid	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	1 sculpin
15-May-23	1	McCurdy Creek	Mid	0	0	14	14	1	1	0	0	0	0	0	Calm, sun	3 adult sandlances, 1 three spine stickleback
15-May-23	2	North Muchalat	High	0	0	0	0	0	0	0	0	0	0	0	Choppy, sun	1 jellyfish
15-May-23	3	Houston River	High	0	0	0	0	0	0	0	0	0	0	0	Choppy, sun	No bycatch
15-May-23	4	Ous Point	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	3 sculpins
15-May-23	5	Silverado Creek	High	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	1 pipefish, 1 sculpin, 2 flatfish, 1 kelp clingfish
15-May-23	6	Gore Island	High	0	0	72	30	0	0	0	0	0	0	0	Calm, sun	20 fish kept for fish health, no bycatch
15-May-23	7	Williamson	High	0	0	46	30	1	1	0	0	0	0	0	Choppy, sun	2 three spine stickleback, 1 sculpin
15-May-23	8	East Mooyah	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	1 sculpin
15-May-23	9	Zuciarte Channel	High	0	0	39	29	0	0	0	0	0	0	0	Calm, sun	No bycatch
15-May-23	10	Concepcion Point	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	1 flatfish
15-May-23	11	Hanna Channel	High	0	0	10	10	0	0	0	0	0	0	0	Calm, sun	1 flatfish, 1 sculpin
15-May-23	12	Hois Point	High	0	0	2	2	0	0	1	1	0	0	0	Calm, sun	13 shiner perch, 2 sculpins
15-May-23	13	Villaverda Island	High	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	2 striped perch, 8 pile perch, 1 gunnel
15-May-23	14	Jewitt Cove	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	1 pipefish, 1 gunnel, 1 sculpin
29-May-23	1	McCurdy Creek	High	0	0	8	8	0	0	0	0	0	0	0	Calm, sun	1 sculpin

Date	Set Number	Site Name	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	Salmonid Mortalities	Weather Comments	Comments
29-May-23	2	North Muchalat	High	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	No bycatch
29-May-23	3	Houston River	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	No bycatch
29-May-23	4	Ous Point	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	No bycatch
29-May-23	5	Silverado Creek	High	0	0	0	0	0	0	0	0	0	0	0	Chop, sun	1 flatfish, 9 sculpins, 1 pipefish
29-May-23	6	Gore Island	High	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	3 kelp clingfish, 1 sculpin
29-May-23	7	Williamson	Mid	0	0	2	2	0	0	0	0	0	0	0	Chop, sun	1 sculpin
29-May-23	8	East Mooyah	Mid	0	0	1	1	0	0	0	0	0	0	0	Slight chop, sun	No bycatch
29-May-23	9	Zuciarte Channel	Mid	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	No bycatch
29-May-23	10	Concepcion Point	Mid	0	0	1	1	0	0	0	0	0	0	0	Calm, sun	No bycatch
29-May-23	11	Hanna Channel	Mid	0	0	0	0	0	0	0	0	0	0	0	Calm, sun	15 flatfish, 4 sculpins, 1 pipefish
29-May-23	12	Hois Point	Mid	0	0	0	0	0	0	6	6	0	0	0	Chop, sun	2 sculpins, 1 flatfish
29-May-23	13	Villaverda Island	Mid	0	0	2	2	0	0	0	0	0	0	0	Chop, sun	No bycatch
29-May-23	14	Jewitt Cove	Mid	0	0	0	0	0	0	7	7	0	0	0	Calm, wind, sun	5 shiner perch, 1 pipefish, 2 three spine sticklebacks, 1 flatfish

Appendix III – Sea Lice Analysis

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	2	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	3	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	4	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	5	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	6	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	7	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	8	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	1	17-Apr-23	27-Apr-23	Chum	9	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	146	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	147	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	148	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	149	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	150	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	151	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	152	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	153	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	154	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	155	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	156	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	157	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	158	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	159	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	160	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	161	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	162	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	163	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild Juvenile :	Salmonii	d Monito	rina 2023 – N	lootka Sound	BC		:														1	:			1				<u> </u>	<u> </u>	

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	164	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	165	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	166	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	167	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	168	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	2	01-May-23	10-May-23	Chum	169	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	4	29-May-23	12-Jun-23	Chum	495	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	4	29-May-23	12-Jun-23	Chum	496	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	4	29-May-23	12-Jun-23	Chum	497	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	4	29-May-23	12-Jun-23	Chum	498	54	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy	1	4	29-May-23	12-Jun-23	Chum	499	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy	1	4	29-May-23	12-Jun-23	Chum	500	50	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	4	29-May-23	12-Jun-23	Chum	501	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	4	29-May-23	12-Jun-23	Chum	502	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy	1	3	15-May-23	19-Jun-23	Coho	506	85	8.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy	1	3	15-May-23	19-Jun-23	Chum	507	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy	1	3	15-May-23	19-Jun-23	Chum	508	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	509	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	510	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	511	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	512	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	513	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy	1	3	15-May-23	19-Jun-23	Chum	514	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	515	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	516	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	517	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	518	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	519	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McCurdy Creek	1	3	15-May-23	19-Jun-23	Chum	520	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Muchalat	2	2	01-May-23	10-May-23	Chum	363	35	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Muchalat	2	2	01-May-23	10-May-23	Chum	364	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Muchalat	2	2	01-May-23	10-May-23	Chum	365	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	366	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	367	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	368	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	369	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	370	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	371	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	372	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	373	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	374	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	375	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	376	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	377	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chum	378	41	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	2	01-May-23	10-May-23	Chinook	379	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North	2	4	29-May-23	12-Jun-23	Chum	503	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Houston	3	2	01-May-23	09-May-23	Chum	142	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ous Point	4	2	01-Mav-23	09-Mav-23	Chum	144	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ous Point	4	2	01-May-23	09-May-23	Chum	145	64	2.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	107	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado	5	1	17-Apr-23	28-Apr-23	Chum	108	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado	5	1	17-Apr-23	28-Apr-23	Chum	109	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado	5	1	17-Apr-23	28-Apr-23	Chum	110	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	111	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	112	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	113	37	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	114	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	115	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	116	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	117	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	118	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	119	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	120	34	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	121	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	122	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	123	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	124	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	125	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	126	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	127	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	128	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	129	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	130	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	1	17-Apr-23	28-Apr-23	Chum	131	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	132	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	133	49	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	134	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	135	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	136	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	137	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	138	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Silverado Creek	5	2	01-May-23	09-May-23	Chum	139	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	140	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	2	01-May-23	09-May-23	Chum	141	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silverado Creek	5	3	15-May-23	12-Jun-23	Chum	442	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	1	17-Apr-23	27-Apr-23	Chum	78	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	1	17-Apr-23	27-Apr-23	Chum	79	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	1	17-Apr-23	27-Apr-23	Chum	80	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	170	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	171	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	172	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	173	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	174	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	175	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	176	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	177	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	178	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	179	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	180	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	181	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	182	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	183	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	184	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	185	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	186	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	187	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	188	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	189	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	190	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-May-23	Chum	191	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-IVIAy-23	10-IVIAy-23	Chum	192	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	0 C	2	01-Iviay-23	10-IVIAy-23	Chum	193	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-IVIAy-23	10-IVIAy-23	Chum	194	30 25	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-1viay-23	10-1viay-23	Chum	190	30 24	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-1viay-23	Chum	190	22	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	0 A	2 2	01-May 22	10-Iviay-23	Chum	197	ວວ ຊາ	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	2	01-May-23	10-1viay-23	Chum	100	J∠ 32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	<u>ک</u>	15-May-23	10-11/1ay-23	Chum	206	33	0.4	0	0	0	0	0	0	0 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	ט ג	15-May-23	12-Jun-22	Chum	307	30	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12lun-23	Chum	398	40	0.7	0 0	0	0	0	0	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild Juvenile	Salmon	id Monite	1000000000000000000000000000000000000	lootka Sound	BC		JU	0.1	v		•	0	v	0	v	v		0	0	•	•	•	Ū	v	0	v	•	•			<u> </u>

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Gore Island	6	3	15-May-23	12-Jun-23	Chum	399	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	400	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	401	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	402	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	403	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	404	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	405	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	406	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	407	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	408	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	409	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	410	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	411	48	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	412	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	413	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	414	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	415	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	416	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	417	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	418	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	419	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	420	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	421	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	422	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	423	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	424	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gore Island	6	3	15-May-23	12-Jun-23	Chum	425	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	70	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	71	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	72	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	73	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	74	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	75	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	76	44	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Williamson	7	1	17-Apr-23	27-Apr-23	Chum	77	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	300	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	301	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	302	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	303	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	304	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	305	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	306	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Williamson	7	2	01-May-23	10-May-23	Chum	307	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	308	52	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	309	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	310	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	311	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	312	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	313	54	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	314	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	315	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	316	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	317	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	318	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	319	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	320	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	321	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	322	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	323	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	324	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	325	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	326	49	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	327	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	328	47	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	2	01-May-23	10-May-23	Chum	329	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	29-May-23	12-Jun-23	Chum	394	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	29-May-23	12-Jun-23	Chum	395	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Coho	534	35	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	535	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	536	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	537	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	538	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	539	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	540	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	541	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	542	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	543	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	544	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	545	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	546	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	547	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	548	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	549	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	550	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Williamson	7	3	15-May-23	19-Jun-23	Chum	551	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	552	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	553	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	554	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	555	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	556	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	557	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	558	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	559	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	560	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	561	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	562	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	563	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Williamson	7	3	15-May-23	19-Jun-23	Chum	564	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	1	17-Apr-23	27-Apr-23	Chum	87	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	333	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	334	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	335	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	336	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	337	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	338	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	339	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	340	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	341	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	342	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	343	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	344	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah East	8	2	01-May-23	10-May-23	Chum	345	46	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	346	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah East	8	2	01-May-23	10-May-23	Chum	347	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	348	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mooyah	8	2	01-May-23	10-May-23	Chum	349	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
East Mooyah	8	2	01-May-23	10-May-23	Chum	350	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	351	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	352	46	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	353	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Moovah	8	2	01-May-23	10-May-23	Chum	354	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East	8	2	01-May-23	10-May-23	Chum	355	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Moovah	8	2	01-May-23	10-May-23	Chum	356	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Moovah	8	2	01-May-23	10-May-23	Chum	357	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Moovah	8	2	01-May-23	10-May-23	Chum	358	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	359	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	2	01-May-23	10-May-23	Chum	360	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East	8	2	01-May-23	10-May-23	Chum	361	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Moovah	8	2	01-May-23	10-May-23	Chum	362	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Mooyah	8	4	29-May-23	12-Jun-23	Chum	426	53	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	270	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	271	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	272	52	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	273	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	274	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	275	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	276	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	277	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	278	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	279	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	280	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	2	01-May-23	10-May-23	Chum	281	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	282	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	283	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	284	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	285	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	286	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	287	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	288	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	289	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	290	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	291	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	292	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	293	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	294	50	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	295	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	296	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	297	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	298	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte channel	9	2	01-May-23	10-May-23	Chum	299	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	565	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	566	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	567	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	568	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	569	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	3	15-May-23	19-Jun-23	Chum	570	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	571	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	3	15-May-23	19-Jun-23	Chum	572	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	3	15-May-23	19-Jun-23	Chum	573	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	574	42	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	575	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	576	41	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	577	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	578	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	579	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	580	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	581	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	582	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	583	41	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	584	41	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	585	42	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	586	44	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	587	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	588	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	3	15-May-23	19-Jun-23	Chum	589	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	590	40	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte	9	3	15-May-23	19-Jun-23	Chum	591	40	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	592	37	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zuciarte Channel	9	3	15-May-23	19-Jun-23	Chum	593	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	380	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	381	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	382	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	383	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	384	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	385	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	386	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	387	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Concepcio n Point	10	2	01-May-23	10-May-23	Chum	388	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concepcio n Point	10	4	29-May-23	19-Jun-23	Chum	505	98	9.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Coho	89	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	90	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	91	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	92	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	93	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	94	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	95	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	96	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	97	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	98	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	99	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	100	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	101	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	102	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	103	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	104	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	105	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	1	17-Apr-23	27-Apr-23	Chum	106	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	2	01-May-23	09-May-23	Chum	143	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	485	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	486	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	487	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	488	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	489	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	490	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		-		D.175					. = 5		. ===	LEP				. ==	LEP						CAL	<u></u>	CAL			CAL	тот		
SITE	SITE #	WEEK	COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	NM NOT ID	CAL PAM	_PA F	CAL AM	CAL AF	NOT NOT ID	LICE	LEP	CAL
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	491	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	492	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna Channel	11	3	15-May-23	12-Jun-23	Chum	493	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hanna	11	3	15-May-23	12-Jun-23	Chum	494	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	1	17-Apr-23	27-Apr-23	Chum	1	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	2	01-May-23	10-May-23	Chum	330	42	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	4	29-May-23	12-Jun-23	Chinook	427	56	6.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	4	29-May-23	12-Jun-23	Chinook	428	76	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	4	29-May-23	12-Jun-23	Chinook	429	75	5.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	4	29-May-23	12-Jun-23	Chinook	430	150	13.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	4	29-May-23	12-Jun-23	Chinook	431	77	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	4	29-May-23	12-Jun-23	Chinook	432	85	6.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	3	15-May-23	19-Jun-23	Chinook	594	76	6.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	3	15-May-23	19-Jun-23	Chum	595	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hois Point	12	3	15-May-23	19-Jun-23	Chum	596	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villaverda Island	13	2	01-May-23	10-May-23	Chum	332	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villaverda	13	4	29-May-23	12-Jun-23	Chum	433	65	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villaverda	13	4	29-May-23	12-Jun-23	Chum	434	68	3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villaverda	13	3	15-May-23	19-Jun-23	Chum	504	55	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	10	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	11	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	12	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	13	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	14	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	15	51	1.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	16	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	17	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	18	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	19	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	20	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	21	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	22	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	23	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	24	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	25	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	26	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	27	48	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	28	48	1.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Wild Juvenile	Salmoni	id Monito	oring 2023 – N	lootka Sound	BC																										XVIII

SITE	SITE #	WEEK	DATE COLLECTED	DATE EXAMINED	FISH SPECIES	FISH NUMBER	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP MOT NOT ID	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL NM NOT ID	CAL PAM	CAL _PA _F	CAL AM	CAL AF	CAL MOT NOT ID	TOT LICE ID	TOT LEP	TOT CAL
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	29	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	30	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	31	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	32	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	33	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	34	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	35	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	36	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	37	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	38	46	1.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Jewit Cove	14	1	17-Apr-23	27-Apr-23	Chum	39	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	435	72	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	436	78	5.7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	437	79	5.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	438	72	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	439	75	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	440	71	4.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jewit Cove	14	4	29-May-23	12-Jun-23	Chinook	441	74	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0