

Wild Juvenile Salmonid Monitoring Program 2022 Esperanza Inlet, BC

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Summary

Beach seine sampling was conducted on behalf of Grieg Seafood at 10 sites in Esperanza Inlet, BC in 2022. Sampling was completed to monitor sea lice abundance, prevalence, and intensity on juvenile wild salmon within Esperanza Inlet in support of the Aquaculture Stewardship Certification process for Grieg Seafood's finfish aquaculture sites in the area. This data report represents the ninth year of wild juvenile salmonid monitoring within Esperanza Inlet.

Four separate sampling events were completed during April, and May 2022, with timing selected to coincide with the likely peak outmigration period of juvenile salmonids. Sampling sites were selected based on their locations relative to existing aquaculture sites in the area.

Thirty individuals from each target fish species (Pacific salmonids) or the total number of captured individuals from each target species (if less than 30 were captured) were collected from each of the 10 sites during the sampling events. Total catch numbers of each species were recorded. Salinity, temperature, and dissolved oxygen were recorded at each site at depths of 0.2 m, 1.0 m, and 5.0 m, 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 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 Esperanza Inlet in 2022. A total of 529 samples underwent lab analysis for sea lice infestation including 521 chum salmon, two coho salmon and six chinook salmon. No Atlantic salmon or other Pacific salmon species were captured. A total of 30 individuals were found to be infested with 31 sea lice in the total sample population. The calculated prevalence for the total sample population was 5.7 %, the sea lice abundance was 0.06 and the average intensity was 1.0 for the sample population collected in Esperanza Inlet in 2022.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 2028 chum salmon were captured, representing 99.6 % of all captured salmonids. Of the 2028 chum captured, 521 were kept for lab analysis for sea lice infestation. A total of 30 chum smolts were found to be infested with a total of 31 lice resulting in a calculated prevalence of 5.8 %, abundance of 0.06 and an average intensity of 1.0 for the chum salmon sample population.

No sea lice were found on the six chinook salmon or the two coho salmon collected in Esperanza Inlet in 2022.

A total of 29 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 28 juvenile chum salmon, and two *Caligus clemensi* sea lice were found on two of the juvenile chum salmon analyzed in the lab. No chum salmon were infested with lice from both species.

A comparison of the prevalence, abundance and average intensity of sea lice species found on chum salmon in sample data collected between 2010 to 2012 and 2017 to 2022 in Esperanza Inlet is presented in the following summary table.

Year	<i>Caligus clemensi</i>			<i>Lepeophtheirus salmonis</i>			Total Lice		
	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity
2010	6.1	0.07	1.1	18.6	0.22	1.2	23.3	0.29	1.2
2011	0.3	0.003	0.01	21.3	0.32	1.5	21.7	0.32	1.5
2012	0.5	0.007	1.2	3.0	0.03	1.0	3.5	0.04	1.1
2017	0.4	0.003	1.0	33.9	0.87	2.6	33.9	0.88	2.6
2018	1.6	0.02	1.2	3.8	0.07	1.9	5.4	0.09	1.7
2019	5.3	0.06	1.1	49.8	1.90	3.8	53.0	1.96	3.7
2020	1.6	0.02	1.0	5.1	0.10	1.9	6.8	0.12	1.7
2021	1.0	0.01	1.0	25.2	0.68	2.7	25.4	0.69	2.7
2022	0.4	0.004	1.0	5.3	0.05	1.0	5.7	0.06	1.0

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1.0 Introduction

In April and May 2022, beach seine sampling was conducted at 10 sites in Esperanza Inlet, BC to capture wild juvenile salmon on behalf of Grieg Seafood Ltd. (Figure 1). Captured fish were analyzed in the lab for sea lice infestation. Four sampling events were completed, with sampling dates selected to coincide with the estimated peak outmigration window of juvenile salmonids.

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 a 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). The sea lice hatch from eggs and go through two free-swimming naupilii stages before developing into an infectious free-swimming copepodid. The copepodids attach to their host and develop through four 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 detach from the host and become motile. 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 seasonal 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 temperature are to 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 Ltd. requested monitoring of sea lice abundance, prevalence and intensity on juvenile wild salmon within Esperanza Inlet in support of the Aquaculture Stewardship Certification for their aquaculture sites within the area. This data summary report documents the observed sea lice infestation rates on retained juvenile salmonids collected in Esperanza Inlet in 2022. This represents the ninth year of wild juvenile salmonid monitoring in Esperanza Inlet conducted by Grieg Seafood Ltd. During the nine years of sampling no Atlantic salmon have been captured or observed at the 10 beach seine sites.

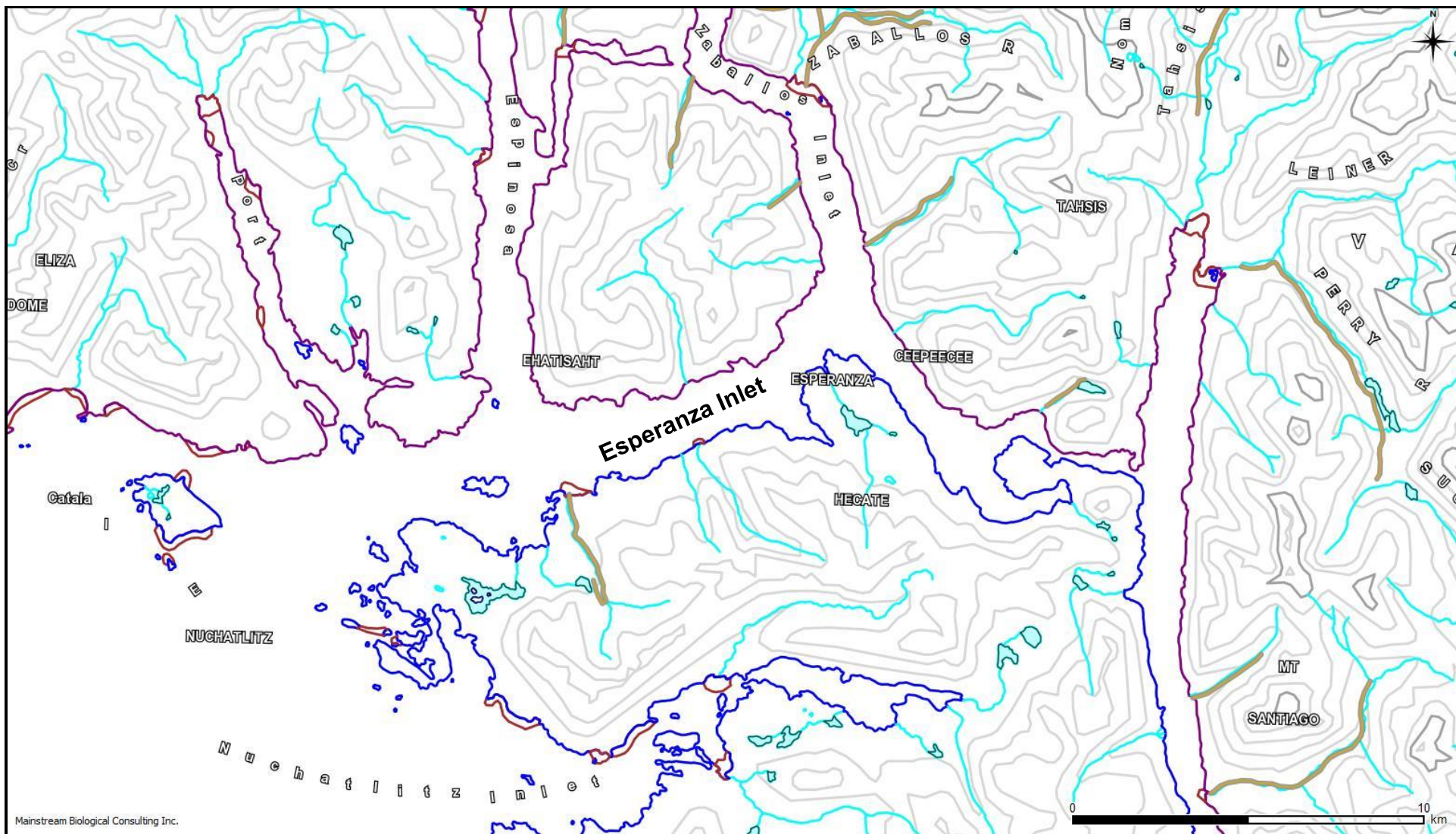


Figure 1: An overview map showing the location of Esperanza Inlet on the west coast of northern Vancouver Island, BC.

2.0 Methods

The juvenile salmonids inspected for sea lice infestation were collected from 10 sites in Esperanza Inlet, BC. These sites were chosen based on their locations relative to existing Grieg Seafood finfish aquaculture tenures (Figure 2). All 10 sites were sampled four times in 2022 between April 14 and May 30, 2022.

2.1 Site Locations

The approximate locations of the 10 beach seine sites are shown in Figure 2. GPS coordinates collected in the field for the sites are presented in Table 1.

Table 1: The site number and location of the 10 beach seine sites where fish were collected for sea lice analysis in Esperanza Inlet in 2022.

Site Name	Site #	Latitude	Longitude
Lutes	1	49 53.463	126 46.311
Barr Creek	2	49 54.960	126 47.160
Zeballos Inlet	3	49 54.648	126 48.176
Cliff Cove	4	49 53.607	126 49.057
Esperanza Inlet	5	49 52.945	126 49.922
Ehatisaht Creek	6	49 52.529	126 51.052
Saltery Bay	7	49 51.772	126 48.677
Steamer Point	8	49 53.129	126 47.319
Hecate Channel	9	49 52.124	126 45.857
McBride Bay	10	49 51.424	126 45.106



Figure 2: The locations of the 10 beach seine sites in Esperanza Inlet sampled in 2022. Grieg Seafood's active aquaculture tenures are indicated with a green diamond.

2.2 Field Procedures

Procedures used for beach seining, fish collection and field data recording were adapted from those utilized by Fisheries and Oceans Canada.

A 17 ft Boston Whaler powered by a 60 horsepower outboard motor was used to access the beach seine 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 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, a sample of surface water was collected to measure salinity and water temperature data using an Oakton® SALT 6+ meter.

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 pulled 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 third crew member anchored the boat and the entire crew participated in the collection of individual fish to ensure that captured fish remained in the net for as short a period of time as possible. The net was manipulated, if necessary, in response to rising or falling tides in order to ensure the captured fish remained in the net and were held in sufficient water to minimize stress. The level of sufficient water was dependant on the size and numbers of captured fish but was generally thought of as enough water to minimize fish contact with the net or with other fish.

A total of 30 individuals from each target species captured or all of the individuals present (if less than 30) were collected as samples for sea lice infestation analysis. Individual fish were “swam” into an appropriately sized whirl-pak bag. All 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 500 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:

- The site name,
- The date;
- The 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) and salinity (ppt) to one decimal place;
- Exact GPS coordinates; and
- The number of salmonid mortalities.

The retained fish from each site were packaged separately in re-sealable bags and labelled with the site name, the date and sample numbers and species. Sample bags were stored on ice in a cooler while on board the boat and transferred to a portable freezer immediately upon return to shore.

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 procedures for beach seine net deployment and retrieval, as well as those described for fish collection, were repeated at all 10 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 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 lab analysis, and individual fish were identified to species and counted. Results 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 from each site. The site and week number, sample date and number of fish were recorded. The date and time of the start of the analysis was also noted on the data sheet. Data from individual fish was recorded as the analysis proceeded.

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 chronologically with an individual identification number (1 –585). 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, and magnification was increased to up to 40X during individual sea lice identification.

Microscopic analysis of each 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. 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 Whirl-pak bag was inspected after the removal of the fish for any pre-adult or adult sea lice that may have become dislodged during handling. 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 non-motile chalimus (including copepodid), or motile pre-adults and adults. Non-motile sea lice were identified as either of the two chalimus stages for *Lepeophtheirus salmonis* (Hamre et al., 2013) or four chalimus stages for *Caligus clemensi*. Motile lice, either pre-adults or adults, were identified as either *Lepeophtheirus salmonis* or *Caligus clemensi* and the sex of the louse was determined.

Chalimus were identified to species primarily by characteristics of the frontal filament. 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 clemensi* 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 for salmonids, total length for non-salmonids) 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.

In order to allow for quality assurance of sea lice identification, all sea lice were placed in labelled vials 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 depth and five meter depth water temperature, salinity and dissolved oxygen measured at each site was summarized to report the minimum and maximum values as well as the calculated averages for each sample week.

Beach seine fish sample composition was summarized by species and site for each week. 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 number of sea lice found on a single salmon 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 in Esperanza Inlet BC, in 2022. Water quality and field data are presented in Appendix I, beach seine fish capture data are included in Appendix II and data on the juvenile salmon sample population including sea lice lab analysis results are in Appendix III.

3.1 Water Quality Parameters

Measurements of water salinity, temperature, and dissolved oxygen at 0.2 m, 1.0 m, and 5.0 m, taken during beach seining at each of the 10 sites during the four sample periods are presented in Table 2, 3 and 4, and the complete dataset is included in Appendix I.

Recorded salinity in 2022 ranged from a low of 6.5 ppt recorded at Zeballos Inlet on May 30, to a high of 30.5 ppt at Steamer Point on May 12 (Table 2). The calculated weekly average salinity varied throughout the 2022 monitoring period and did not exhibit a clear trend.

Recorded water temperatures in 2022 ranged from a low of 5.7°C recorded at Zeballos Inlet on April 14, to a high of 13.6°C recorded at McBride Bay on May 30 (Table 3). The calculated weekly averages increased over the four sampling periods at all three depths.

Recorded dissolved oxygen in 2022 ranged from a low of 8.8 mg/L recorded at Barr Creek on April 14, to a high of 11.8 mg/L at Barr Creek and Zeballos Inlet on May 12 (Table 4). The calculated weekly averages showed minimal variation over the four sampling events.

Table 2: Salinity measurements (ppt) collected at Esperanza Inlet beach seine sites at 0.2 m, 1.0 m, and 5.0 m in 2022.

Site Name	14-Apr-22			28-Apr-22			12-May-22			30-May-22		
	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m
Lutes	24.9	-	-	18.3	19.0	28.3	17.5	26.4	27.8	18.3	20.7	27.1
Barr Creek	20.4	24.8	-	11.3	24.6	-	10.2	21.8	-	11.7	19.6	-
Zeballos Inlet	19.3	-	-	12.6	21.0	22.1	11.5	24.7	-	6.5	17.1	-
Cliff Cove	23.0	-	-	18.9	16.5	-	12.1	24.8	-	11.1	18.2	-
Esperanza Inlet	22.9	24.0	-	19.2	24.1	-	24.5	26.6	-	17.9	22.0	-
Ehatisaht Creek	23.8	23.9	-	19.3	19.4	-	26.8	27.2	-	22.0	-	-
Saltery Bay	20.6	29.8	-	22.1	23.0	-	24.5	24.8	-	16.0	16.6	-
Steamer Point	19.0	21.5	29.3	13.4	10.4	28.4	19.5	25.6	30.5	11.0	11.4	28.0
Hecate Channel	21.4	21.8	-	16.5	17.7	26.6	26.0	26.7	26.9	16.2	16.8	-
McBride Bay	22.3	22.4	-	14.5	19.2	28.3	24.7	30.1	30.5	15.3	16.3	26.9
Average	21.8	24.0	29.3	16.6	19.5	26.7	19.7	25.9	28.9	14.6	17.6	27.3

Table 3: Temperature measurements (°C) collected at Esperanza Inlet beach seine sites at 0.2 m, 1.0 m, and 5.0 m in 2022.

Site Name	14-Apr-22			28-Apr-22			12-May-22			30-May-22		
	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m
Lutes	6.1	-	-	9.0	8.9	9.3	9.2	10.1	9.6	11.9	11.9	10.6
Barr Creek	6.3	7.7	-	7.2	9.5	-	7.1	9.9	-	11.6	12.2	-
Zeballos Inlet	5.7	-	-	9.2	9.9	9.9	7.4	10.4	-	11.6	12.3	-
Cliff Cove	7.7	-	-	9.1	9.1	-	7.0	10.1	-	12.2	12.3	-
Esperanza Inlet	7.2	7.6	-	8.5	8.9	-	9.1	9.5	-	13.0	11.9	-
Ehatisaht Creek	7.7	7.8	-	9.0	9.0	-	9.6	9.6	-	12.7	-	-
Saltery Bay	7.7	8.2	-	9.6	9.6	-	9.9	9.9	-	12.7	12.7	-
Steamer Point	7.8	7.9	8.9	9.1	9.1	9.4	9.3	9.6	9.5	13.2	12.9	10.8
Hecate Channel	8.8	8.7	-	10.4	9.9	9.6	9.9	10.0	10.0	13.4	13.0	-
McBride Bay	9.4	9.3	-	10.5	10.0	9.3	10.7	9.5	9.5	13.6	12.7	10.5
Average	7.4	8.2	8.9	9.2	9.4	9.5	8.9	9.9	9.7	12.6	12.4	10.6

Table 4: Dissolved oxygen measurements (mg/L) collected at Espinosa Inlet beach seine sites at 0.2 m, 1.0 m, and 5.0 m in 2022.

Site Name	14-Apr-22			28-Apr-22			12-May-22			30-May-22		
	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m	0.2m	1.0m	5.0m
Lutes	-	-	-	10.1	10.2	10.5	11.4	10.8	9.2	9.8	10.1	9.7
Barr Creek	9.9	8.8	-	10.5	9.7	-	11.8	10.0	-	10.3	10.2	-
Zeballos Inlet	-	-	-	10.4	9.9	9.7	11.8	10.2	-	10.7	10.0	-
Cliff Cove	-	-	-	10.2	10.4	-	10.5	10.6	-	10.4	10.0	-
Esperanza Inlet	10.3	9.9	-	10.1	9.7	-	10.5	10.5	-	9.9	10.0	-
Ehatisaht Creek	10.6	10.8	-	10.2	10.3	-	10.3	10.4	-	10.7	-	-
Saltery Bay	9.5	9.8	-	10.6	10.6	-	10.4	10.7	-	9.9	10.1	-
Steamer Point	10.7	10.9	8.9	10.9	10.4	10.8	11.0	10.7	10.3	10.1	10.1	9.8
Hecate Channel	10.9	11.1	-	10.9	11.0	11.4	10.4	10.6	10.0	10.0	10.0	-
McBride Bay	10.8	10.9	-	10.9	11.4	11.5	10.2	9.8	9.5	10.4	10.2	10.3
Average	10.4	10.3	8.9	10.5	10.4	10.8	10.8	10.4	9.8	10.2	10.1	9.9

3.2 Fish Sample Composition

A total of 2036 fish were captured during 2022 beach seine sampling in Esperanza Inlet, with 529 individuals (26.0 %) retained for sea lice analysis (Table 5). A summary of the total number of fish captured and collected at each site over the collection period can be found in Table 6. The total fish captured and collected at each site over the entire collection period can be found in Appendix II. Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 2028 chum salmon were captured, representing 99.6 % of all captured salmonids. Of the 2028 chum salmon captured, 521 individual chum salmon (25.7 %) were retained and underwent lab analysis. Six chinook salmon and two coho salmon were also captured and retained for lab analysis during 2022 sampling. No other Pacific salmon species and no Atlantic salmon were captured during sampling events in 2022.

Table 5: The total of collected individuals of each fish species captured in Esperanza Inlet, BC in 2022, and the percentage of the total capture population that they represent.

Common Name	Capture Totals (% of total capture population)	Collection Totals	Collection %
chum salmon	2028 (99.6%)	521	25.7
chinook salmon	6 (0.3%)	6	100
coho salmon	2 (0.1%)	2	100
All species	2036	529	26.0

Table 6: The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the 10 sample sites in Esperanza Inlet, BC in 2022.

Site	Chum		Chinook		Coho		Capture Total	Sample Total
	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total		
Lutes	715	90	2	2	0	0	717	92
Barr Creek	145	60	3	3	0	0	148	63
Zeballos Inlet	65	60	0	0	0	0	65	60
Cliff Cove	279	49	1	1	0	0	280	50
Esperanza Inlet	123	60	0	0	0	0	123	60
Ehatisaht Creek	267	97	0	0	2	2	269	99
Saltery Bay	114	60	0	0	0	0	114	60
Steamer Point	308	33	0	0	0	0	308	33
Hecate Channel	8	8	0	0	0	0	8	8
McBride Bay	4	4	0	0	0	0	4	4

3.3 Fish Sample Size Statistics

Summary statistics for the sample population were completed for weight and fork lengths of chum salmon. This was not completed for chinook salmon or coho salmon as there were only six chinook salmon and two coho salmon collected in Esperanza Inlet in 2022.

3.3.1 Chum Salmon

The weight of 521 chum smolts collected during the four sampling events in 2022 ranged from 0.1 g to 7.2 g and averaged 0.8 g (SD = 0.5). The fork length of the chum smolts ranged from 23 mm to 89 mm and averaged 40 mm (SD = 5.8). Chum salmon weight and length data was summarized by sampling event in Table 7, which shows an increase in both parameters over the sampling period.

Table 7: Average lengths and weights of chum salmon captured in Esperanza Inlet in 2022 summarized by sampling event.

Parameter	Chum Salmon			
	14-Apr (n=187)	28-Apr (n=217)	12-May (n=96)	30-May (n=21)
Average Length (mm)	39	39	41	57
Average Weight (g)	0.6	0.7	0.8	2.2

3.4 Sea Lice Infestation Rates

The results of the laboratory analysis for the presence of sea lice on the sample population collected in Esperanza Inlet in 2022 are presented in Table 8. A complete dataset is included in Appendix III. A total of 529 samples were collected at 10 sites in Esperanza Inlet in 2022 and were inspected for sea lice infestation. A total of 30 individuals in the sample population were found to be infested with 31 sea lice (Table 8). This data reflects the identification of sea lice of either species (*L. salmonis* and *C. clemensi*) on inspected juvenile salmon.

The sea lice prevalence in the sample population collected in Esperanza Inlet in 2022 was 5.7 % and the abundance was 0.06 (Table 8). Sea lice counts of both species observed (*L. salmonis* and *C. clemensi*) were added together for the prevalence and abundance calculations for the entire sample population.

The intensity of sea lice infestation, as defined as the number of sea lice on a single sample, ranged from one louse found on 29 individuals to two lice found on one individual. The average intensity calculated by dividing the total number of sea lice by the number of infested fish, was 1.0 for the sample population collected in Esperanza Inlet in 2022 (Table 8).

No sea lice were found on the six chinook salmon or the two coho salmon retained for analysis.

Table 8: Results of analysis for sea lice infestation on the sample population collected by beach seine in Esperanza Inlet, BC in 2022.

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	521	31	30	5.8	0.06	1.0
chinook	6	0	0	0.0	0.00	0.0
coho	2	0	0	0.0	0.00	0.0
Total	529	31	30	5.7	0.06	1.0

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 9. A total of 30 chum salmon were found to be infested with 31 sea lice. The largest number of chum salmon infested with sea lice (17 chum) were on samples collected at Ehatisaht Creek (Table 9). The largest number of lice (17 lice) were also on chum salmon collected from Ehatisaht Creek.

Sea lice counts of both sea lice species observed (*L. salmonis* and *C. clemensi*) were added together for the presentation of sea lice infestation by site (Table 9) as well as for the calculation of sea lice prevalence and abundance by site for the chum salmon sample population (Table 10).

A total of 30 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=521) collected in Esperanza Inlet in 2022 was 5.8 %. Sea lice prevalence calculated by site and week for chum salmon is presented in Table 10. Sea lice prevalence calculated by site for the total chum sample population was highly variable ranging from 0.0 % at Barr Creek, Steamer Point, Hecate Channel and McBride Bay, to a high of 17.5 % at Ehatisaht Creek. Sea lice prevalence summarized by sample week increased from April 14 to May 12, then decreased on May 30.

A total of 31 sea lice were identified during laboratory analysis of retained chum salmon. The abundance of sea lice on the chum salmon sample population (n=521) collected in Esperanza Inlet in 2022 was 0.06. Sea lice abundance was calculated by week and by site and is presented in Table 10. The sea lice abundance increased from April 14 to May 12, then decreased on May 30. Sea lice abundance calculated by site for the total chum sample population was also variable ranging from 0.00 at Barr Creek, Steamer Point, Hecate Channel and McBride Bay to a high of 0.18 at Ehatisaht Creek.

The average intensity for the chum salmon sample population in Esperanza Inlet in 2022 was 1.0. The highest sea lice intensity (1.1) was at Lutes on May 30, 2022. Sea lice intensity summarized by sample week was highest on chum salmon collected on April 28, 2022 (1.2). The percentage of the chum salmon sample population with the number of sea lice per sample was graphed and is presented in Figure 3. As shown in this graph, 94.2 % of the chum sample population were not infested with sea lice, 5.6 % were infested with one louse and 0.2 % of the chum salmon sample population was infested with two sea lice.

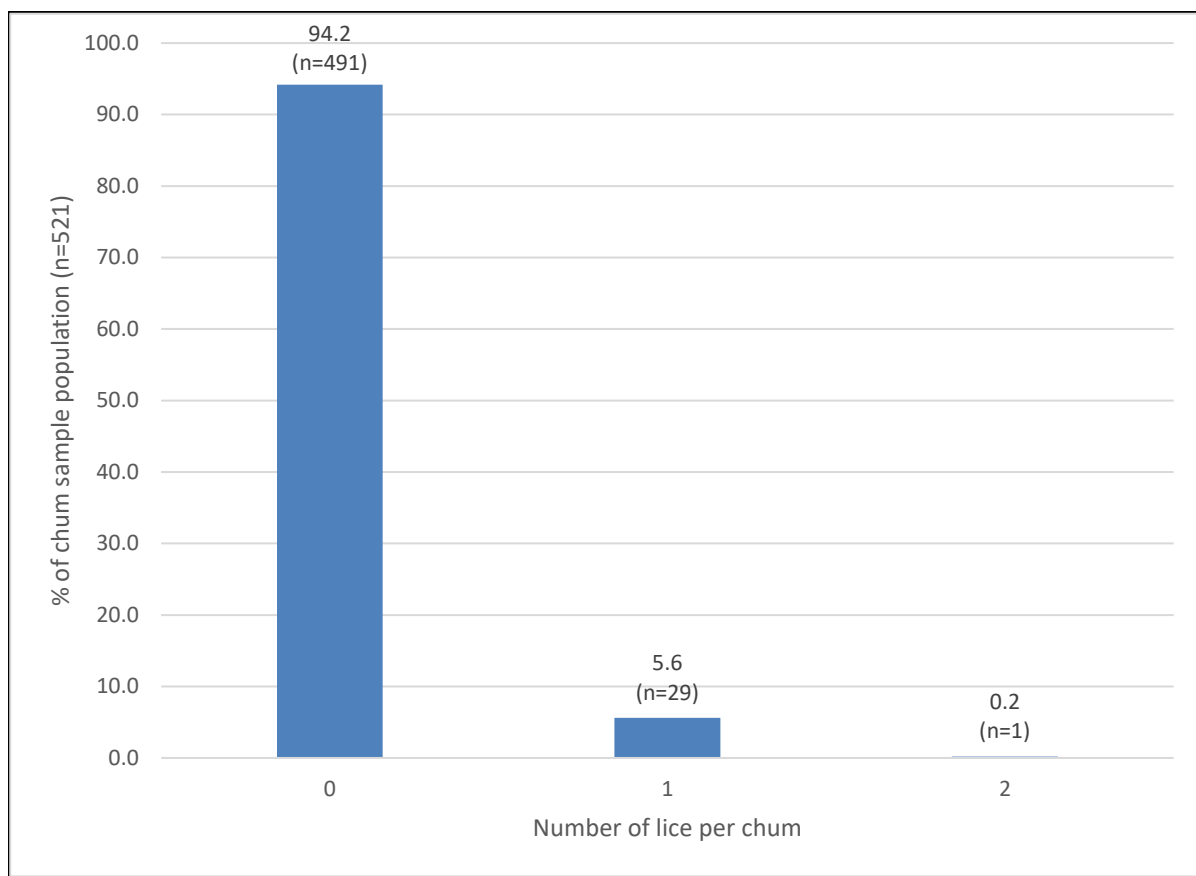


Figure 3: The number of sea lice per chum salmon specimen graphed as a percentage of the total chum sample population collected in Esperanza Inlet in 2022.

Table 9: The number of sea lice found on chum salmon collected in Esperanza Inlet in 2022 summarized by the 10 sites where beach seining was conducted.

Site	Sample Week												TOTAL		
	April 14, 2022			April 28, 2022			May 12, 2022			May 30, 2022					
	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice
Lutes	30	1	1	30	2	3	30	4	4				90	7	8
Barr Creek	30	0	0	30	0	0							60	0	0
Zeballos Inlet	30	0	0	30	2	2							60	2	2
Cliff Cove	1	0	0	30	0	0	4	0	0	14	1	1	49	1	1
Esperanza Inlet	30	0	0	30	1	1							60	1	1
Ehatisaht Creek	30	3	3	30	1	1	30	12	12	7	1	1	97	17	17
Saltery Bay				30	0	0	30	2	2				60	2	2
Steamer Point	30	0	0	3	0	0							33	0	0
Hecate Channel	6	0	0				2	0	0				8	0	0
McBride Bay				4	0	0							4	0	0
TOTAL	187	4	4	217	6	7	96	18	18	21	2	2	521	30	31

Table 10: The calculated sea lice prevalence, abundance and intensity by site and week as determined for chum salmon collected in Esperanza Inlet, BC in 2022.

Site	Sample Week												TOTAL		
	April 14, 2022			April 28, 2022			May 12, 2022			May 30, 2022					
	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
Lutes	3.3	0.03	-	6.7	0.10	1.5	13.3	0.13	1.0	-	-	-	7.8	0.09	1.1
Barr Creek	0.0	0.00	-	0.0	0.00	0.0	-	-	-	-	-	-	0.0	0.00	0.0
Zeballos Inlet	0.0	0.00	-	6.7	0.07	1.0	-	-	-	-	-	-	3.3	0.03	1.0
Cliff Cove	0.0	0.00	-	0.0	0.00	0.0	0.0	0.00	0.0	7.1	0.07	1.0	2.0	0.02	1.0
Esperanza Inlet	0.0	0.00	0.0	3.3	0.03	1.0	-	-	-	-	-	-	1.7	0.02	1.0
Ehatisaht Creek	10.0	0.10	1.0	3.3	0.03	1.0	40.0	0.40	1.0	14.3	0.14	1.0	17.5	0.18	1.0
Saltery Bay	-	-	-	0.0	0.00	0.0	6.7	0.07	1.0	-	-	-	3.3	0.03	1.0
Steamer Point	0.0	0.00	0.0	0.0	0.00	0.0	-	-	-	-	-	-	0.0	0.00	0.0
Hecate Channel	0.0	0.00	0.0	-	-	-	0.0	0.00	0.0	-	-	-	0.0	0.00	0.0
McBride Bay	-	-	-	0.0	0.00	0.0	-	-	-	-	-	-	0.0	0.00	0.0
TOTAL	2.1	0.02	1.0	2.8	0.03	1.2	18.8	0.19	1.0	9.5	0.10	1.0	5.8	0.06	1.0

3.5 Infestation Rates by Sea Lice Species

A summary of infestation rates by sea lice species was completed for chum salmon only. Data from sea lice analysis can be found in Appendix III.

3.5.1 Infestation Rates by Sea Lice Species on Chum Salmon

An analysis of the species of sea lice identified on the 30 infested chum salmon collected in Esperanza Inlet is presented in Table 11. A total of 29 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 28 juvenile chum salmon and two *Caligus clemensi* sea lice were found on two of the juvenile chum salmon analyzed in the lab (Appendix III). No chum salmon were infested with lice from both species. The sea lice species identified on chum salmon are also presented by site in Table 12.

Table 11: The number of sea lice in each life stage by species identified on the chum salmon sample population from Esperanza Inlet in 2022.
LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	14-Apr	28-Apr	12-May	30-May
LEP Co	0	3	7	0
LEP C1	3	1	2	0
LEP C2	1	2	4	2
NM NOT ID	0	0	1	0
LEP PAM	0	1	1	0
LEP PAF	0	0	0	0
LEP AM	0	0	1	0
LEP AF	0	0	0	0
TOTAL LEP	4	7	16	2
CAL Co	0	0	1	0
CAL C1	0	0	1	0
CAL C2	0	0	0	0
CAL C3	0	0	0	0
CAL C4	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	2	0

¹ Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, NM NOT ID = non-motile not identified, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

Table 12: The species of sea lice found on chum salmon collected in Esperanza Inlet in 2022 summarized by week and site. *LEP* = *Lepeophtheirus salmonis* *CAL* = *Caligus clemensi*

Site	April 14, 2022				April 28, 2022				May 12, 2022				May 30, 2022				TOTAL			
	# 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 LEP	# of CAL
Lutes	30	1	1	0	30	2	3	0	30	4	4	0	-	-	-	-	90	7	8	0
Barr Creek	30	0	0	0	30	0	0	0	-	-	-	-	-	-	-	-	60	0	0	0
Zeballos Inlet	30	0	0	0	30	2	2	0	-	-	-	-	-	-	-	-	60	2	2	0
Cliff Cove	1	0	0	0	30	0	0	0	4	0	0	0	14	1	1	0	49	1	1	0
Esperanza Inlet	30	0	0	0	30	1	1	0	-	-	-	-	-	-	-	-	60	1	1	0
Ehatisht Creek	30	3	3	0	30	1	1	0	30	12	10	2	7	1	1	0	97	17	15	2
Saltery Bay	-	-	-	-	30	0	0	0	30	2	2	0	-	-	-	-	60	2	2	0
Steamer Point	30	0	0	0	3	0	0	0	-	-	-	-	-	-	-	-	33	0	0	0
Hecate Channel	6	0	0	0	-	-	-	-	2	0	0	0	-	-	-	-	8	0	0	0
McBride Bay	-	-	-	-	4	0	0	0	-	-	-	-	-	-	-	-	4	0	0	0
TOTAL	187	4	4	0	217	6	7	0	96	18	16	2	21	2	2	0	521	30	29	2

4.0 Conclusions

This report presents the data from the ninth year of beach seining and sea lice analysis conducted for wild juvenile salmonid monitoring in Esperanza Inlet, BC by Grieg Seafood Ltd. Reporting was limited to the summary and presentation of the 2022 collected data.

A total of 529 samples underwent lab analysis for sea lice infestation in 2022 including 521 chum salmon, two coho salmon and six chinook salmon. A total of 30 individuals were found to be infested with sea lice in the total sample population, resulting in a calculated sea lice prevalence of 5.7 % in 2022. A total of 31 sea lice were found during laboratory analysis resulting in an abundance of 0.06 and 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 2028 chum salmon were captured, representing 99.6 % of all captured salmonids. Of the 2028 chum captured, 521 were kept for lab analysis for sea lice infestation. A total of 30 chum smolts were found to be infested with a total of 31 lice resulting in a calculated prevalence of 5.8 %, abundance of 0.06 and an average intensity of 1.0 for the chum salmon sample population.

No sea lice were found on the six chinook salmon or the two coho salmon retained for analysis.

A total of 29 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 28 juvenile chum salmon, and two *Caligus clemensi* sea lice were found on two of the juvenile chum salmon analyzed in the lab. No chum salmon were infested with lice from both species.

A comparison of the prevalence, abundance and average intensity of sea lice species found on chum salmon for sample data in Esperanza Inlet between 2010 to 2012 and 2017 to 2022 is presented in the following summary table.

Year	<i>Caligus clemensi</i>			<i>Lepeophtheirus salmonis</i>			Total Lice		
	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity
2010	6.1	0.07	1.1	18.6	0.22	1.2	23.3	0.29	1.2
2011	0.3	0.003	0.01	21.3	0.32	1.5	21.7	0.32	1.5
2012	0.5	0.007	1.2	3.0	0.03	1.0	3.5	0.04	1.1
2017	0.4	0.003	1.0	33.9	0.87	2.6	33.9	0.88	2.6
2018	1.6	0.02	1.2	3.8	0.07	1.9	5.4	0.09	1.7
2019	5.3	0.06	1.1	49.8	1.90	3.8	53.0	1.96	3.7
2020	1.6	0.02	1.0	5.1	0.10	1.9	6.8	0.12	1.7
2021	1.0	0.01	1.0	25.2	0.68	2.7	25.4	0.69	2.7
2021	0.4	0.004	1.0	5.3	0.05	1.0	5.7	0.06	1.0

5.0 References

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Appendix I – Field Data

Date	Time	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
14-Apr-22	7:08	Lutes	24.9	6.1							
14-Apr-22	7:33	Barr Creek	20.4	6.3	9.9	24.8	7.7	8.8			
14-Apr-22	7:56	Zeballos Inlet	19.3	5.7							
14-Apr-22	8:26	Cliff Cove	23.0	7.7							
14-Apr-22	8:48	Esperanza Inlet	22.9	7.2	10.3	24.0	7.6	9.9			
14-Apr-22	9:14	Ehatisaht creek	23.8	7.7	10.6	23.9	7.8	10.8			
14-Apr-22	10:56	Saltery Bay	20.6	7.7	9.5	29.8	8.2	9.8			
14-Apr-22	11:22	Steamer Point	19.0	7.8	10.7	21.5	7.9	10.9	29.3	8.9	8.9
14-Apr-22	11:54	Hecate Channel	21.4	8.8	10.9	21.8	8.7	11.1			
14-Apr-22	12:05	McBride Bay	22.3	9.4	10.8	22.4	9.3	10.9			
28-Apr-22	6:40	Lutes	18.3	9.0	10.1	19.0	8.9	10.2	28.3	9.3	10.5
28-Apr-22	7:10	Barr Creek	11.3	7.2	10.5	24.6	9.5	9.7			
28-Apr-22	7:31	Zeballos Inlet	12.6	9.2	10.4	21.0	9.9	9.9	22.1	9.9	9.7
28-Apr-22	7:59	Cliff Cove	18.9	9.1	10.2	16.5	9.1	10.4			
28-Apr-22	8:21	Esperanza Inlet	19.2	8.5	10.1	24.1	8.9	9.7			
28-Apr-22	8:45	Ehatisaht Creek	19.3	9.0	10.2	19.4	9.0	10.3			
28-Apr-22	10:42	Saltery Bay	22.1	9.6	10.6	23.0	9.6	10.6			
28-Apr-22	11:05	Steamer Point	13.4	9.1	10.9	10.4	9.1	10.4	28.4	9.4	10.8
28-Apr-22	11:27	Hecate Channel	16.5	10.4	10.9	17.7	9.9	11.0	26.6	9.6	11.4
28-Apr-22	11:42	McBride Bay	14.5	10.5	10.9	19.2	10.0	11.4	28.3	9.3	11.5
12-May-22	6:48	Lutes	17.5	9.2	11.4	26.4	10.1	10.8	27.8	9.6	9.2
12-May-22	7:13	Barr Creek	10.2	7.1	11.8	21.8	9.9	10.0			
12-May-22	7:28	Zeballos Inlet	11.5	7.4	11.8	24.7	10.4	10.2			
12-May-22	7:49	Cliff Cove	12.1	7.0	10.5	24.8	10.1	10.6			
12-May-22	8:07	Esperanza Inlet	24.5	9.1	10.5	26.6	9.5	10.5			
12-May-22	8:20	Ehatisaht Creek	26.8	9.6	10.3	27.2	9.6	10.4			
12-May-22	10:06	Saltery Bay	24.5	9.9	10.4	24.8	9.9	10.7			
12-May-22	10:25	Steamer Point	19.5	9.3	11.0	25.6	9.6	10.7	30.5	9.5	10.3
12-May-22	10:40	Hecate Channel	26.0	9.9	10.4	26.7	10.0	10.6	26.9	10.0	10.0

Date	Time	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
12-May-22	10:53	McBride Bay	24.7	10.7	10.2	30.1	9.5	9.8	30.5	9.5	9.5
30-May-22	10:10	Lutes	18.3	11.9	9.8	20.7	11.9	10.1	27.1	10.6	9.7
30-May-22	10:29	Barr Creek	11.7	11.6	10.3	19.6	12.2	10.2			
30-May-22	10:43	Zeballos Inlet	6.5	11.6	10.7	17.1	12.3	10.0			
30-May-22	10:57	Cliff Cove	11.1	12.2	10.4	18.2	12.3	10.0			
30-May-22	11:16	Esperanza Inlet	17.9	13.0	9.9	22.0	11.9	10.0			
30-May-22	11:31	Ehatisaht Creek	22.0	12.7	10.7						
30-May-22	12:57	Saltery Bay	16.0	12.7	9.9	16.6	12.7	10.1			
30-May-22	13:14	Steamer Point	11.0	13.2	10.1	11.4	12.9	10.1	28.0	10.8	9.8
30-May-22	13:29	Hecate Channel	16.2	13.4	10.0	16.8	13.0	10.0			
30-May-22	13:45	McBride Bay	15.3	13.6	10.4	16.3	12.7	10.2	26.9	10.5	10.3

Appendix II – Capture and Collection Sample Totals

Date	Time	Site Name	Weather Comments	Tide Stage	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Salmonid Mortalities	Comments
14-Apr-22	7:08	Lutes	sun, calm	High	210	30	0	0	0	0	0	20 fish health captured
14-Apr-22	7:33	Barr Creek	sun, calm	High	73	30	0	0	0	0	0	10 pipefish, 20 flounder
14-Apr-22	7:56	Zeballos Inlet	calm, sunny, low clouds	High	33	30	0	0	0	0	0	5 sculpins, 5 flounder
14-Apr-22	8:26	Cliff Cove	sun, calm, low cloud	High	1	1	0	0	0	0	0	lots of hang-ups
14-Apr-22	8:48	Esperanza Inlet	calm, sun	High	65	30	0	0	0	0	0	1 gunnel, lots of hang-ups
14-Apr-22	9:14	Ehatisaht creek	sun, slight chop, breeze	High	155	30	0	0	0	0	2	3 sculpins, waves pushing fish up
14-Apr-22	10:56	Saltery Bay	sun, calm	High	0	0	0	0	0	0	0	3 sculpins
14-Apr-22	11:22	Steamer Point	sun, calm	High	305	30	0	0	0	0	0	juvenile ling
14-Apr-22	11:54	Hecate Channel	sun, calm	High	6	6	0	0	0	0	0	sculpins, lots of hang-ups
14-Apr-22	12:05	McBride Bay	sun, calm	High	0	0	0	0	0	0	0	lots of merganzers, many hang-ups, tide pushed net onto shore
28-Apr-22	6:40	Lutes	calm, overcast	Low	440	30	0	0	0	0	0	20 chum kept for fish health
28-Apr-22	7:10	Barr Creek	calm, overcast	Low	72	30	0	0	0	0	0	flatfish, pipefish, 1 green crab, sculpins, juvenile lingcod, 1 shiner perch, kelp cling fish
28-Apr-22	7:31	Zeballos Inlet	calm, overcast	Low	32	30	0	0	0	0	0	pipefish, sculpins, 2 juvenile greenlings
28-Apr-22	7:59	Cliff Cove	calm, overcast	Low	260	30	0	0	0	0	0	sculpins, cabazon, flatfish, gobi, greenling
28-Apr-22	8:21	Esperanza Inlet	calm, overcast	Mid	58	30	0	0	0	0	0	6 greenlings
28-Apr-22	8:45	Ehatisaht Creek	chop, wind, sun	Mid	60	30	1	1	0	0	0	
28-Apr-22	10:42	Saltery Bay	calm, overcast	Mid	34	30	0	0	0	0	0	2 sculpins
28-Apr-22	11:05	Steamer Point	calm, cloud, sun	High	3	3	0	0	0	0	0	1 herring, 1 sculpin
28-Apr-22	11:27	Hecate Channel	cloud, calm, sun	High	0	0	0	0	0	0	0	1 sculpin
28-Apr-22	11:42	McBride Bay	cloud, calm, sun	High	4	4	0	0	0	0	0	
12-May-22	6:48	Lutes	calm, overcast	High	65	30	0	0	2	2	1	1 gunnel, sand lances, 1 striped perch, 20 chum for fish health
12-May-22	7:13	Barr Creek	calm, cloud	Mid	0	0	0	0	0	0	0	pipefish, juvenile lingcod, flatfish
12-May-22	7:28	Zeballos Inlet	calm cloud sun	Mid	0	0	0	0	0	0	0	
12-May-22	7:49	Cliff Cove	calm, cloud	High	4	4	0	0	0	0	0	2 sculpins
12-May-22	8:07	Esperanza Inlet	calm, cloud	High	0	0	0	0	0	0	0	sculpin
12-May-22	8:20	Ehatisaht Creek	sum, cloud	High	45	30	1	1	0	0	0	
12-May-22	10:06	Saltery Bay	calm, sun, cloud	High	80	30	0	0	0	0	0	
12-May-22	10:25	Steamer Point	calm, cloud	High	0	0	0	0	0	0	0	
12-May-22	10:40	Hecate Channel	sun, cloud, calm	High	2	2	0	0	0	0	0	
12-May-22	10:53	McBride Bay	sun, cloud, calm	High	0	0	0	0	0	0	0	1 sculpin
30-May-22	10:10	Lutes	overcast, calm	High	0	0	0	0	0	0	0	1 shiner perch
30-May-22	10:29	Barr Creek	overcast, calm	High	0	0	0	0	3	3	0	7 flounder, 2 stripe perch, 1 pile perch, 5 shiner perch, 1 herring, 2 juvenile lingcod
30-May-22	10:43	Zeballos Inlet	overcast, calm	High	0	0	0	0	0	0	0	1 sculpin, 20 pile perch, 5 shiner perch
30-May-22	10:57	Cliff Cove	overcast, calm	High	14	14	0	0	1	1	0	1 stripe perch, 10 pile perch
30-May-22	11:16	Esperanza Inlet	overcast, calm	Mid	0	0	0	0	0	0	0	13 pile perch
30-May-22	11:31	Ehatisaht Creek	overcast, light wind	Mid	7	7	0	0	0	0	0	7 sculpins
30-May-22	12:57	Saltery Bay	overcast, light wind	High	0	0	0	0	0	0	0	15 pile perch, greenling
30-May-22	13:14	Steamer Point	overcast, calm	High	0	0	0	0	0	0	0	NFC
30-May-22	13:29	Hecate Channel	overcast, calm	High	0	0	0	0	0	0	0	1 sculpin
30-May-22	13:45	McBride Bay	overcast, light wind	High	0	0	0	0	0	0	0	1 herring, 12 shiner perch, 2 stickleback

Appendix III – Sea Lice Analysis Data

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Ehatisaht Creek	12-May-22	Chum	43	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	44	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	48	1.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	47	1.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	38	0.8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
Ehatisaht Creek	12-May-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	40	0.9	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	47	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	45	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	39	0.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	43	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	39	0.8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1
Ehatisaht Creek	12-May-22	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	42	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	12-May-22	Chum	44	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	12-May-22	Coho	31	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	12-May-22	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	12-May-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	12-May-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Lutes	12-May-22	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	42	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Lutes	12-May-22	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	44	1.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Lutes	12-May-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	44	1.1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Lutes	12-May-22	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	42	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Lutes	12-May-22	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chinook	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	12-May-22	Chinook	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	31	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	41	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	50	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Zeballos Inlet	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	43	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Zeballos Inlet	28-Apr-22	Chum	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	41	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	46	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	45	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	46	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Zeballos Inlet	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	32	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballos Inlet	28-Apr-22	Chum	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	51	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	58	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	56	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	59	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	60	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	64	2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	89	7.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	59	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	54	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	58	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	55	1.6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Cliff Cove	30-May-22	Chum	57	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chum	63	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	30-May-22	Chinook	70	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	51	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	48	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	55	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	45	1.1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Lutes	28-Apr-22	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	52	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	50	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	51	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	56	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	47	1.3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Lutes	28-Apr-22	Chum	45	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	51	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	52	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	48	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	57	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	52	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	52	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	28-Apr-22	Chum	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Esperanza Inlet	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	45	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	41	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Esperanza Inlet	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	42	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	28-Apr-22	Chum	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Ehatisaht Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	28-Apr-22	Coho	77	7.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	28-Apr-22	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	28-Apr-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	12-May-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	12-May-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	36	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	36	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	33	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Saltery Bay	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	43	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	42	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	32	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	42	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	41	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	30-May-22	Chum	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	30-May-22	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	30-May-22	Chum	53	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	30-May-22	Chum	54	1.8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	30-May-22	Chum	51	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	30-May-22	Chum	51	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	30-May-22	Chum	59	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McBride Bay	28-Apr-22	Chum	23	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McBride Bay	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
McBride Bay	28-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McBride Bay	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	43	0.9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Saltery Bay	12-May-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	46	1.2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Saltery Bay	12-May-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	53	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	411	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saltery Bay	12-May-22	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	53	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Cliff Cove	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	28-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	30-May-22	Chinook	50	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	30-May-22	Chinook	48	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	30-May-22	Chinook	52	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Lutes	14-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	38	0.7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Lutes	14-Apr-22	Chum	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutes	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	48	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	48	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barr Creek	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zeballas Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Esperanza Inlet	14-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esperanza Inlet	14-Apr-22	Chum	52	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cliff Cove	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	14-Apr-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	14-Apr-22	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hecate Channel	14-Apr-22	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	42	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	40	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	14-Apr-22	Chum	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Ehatisaht Creek	14-Apr-22	Chum	43	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	43	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	55	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	45	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	14-Apr-22	Chum	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehatisaht Creek	14-Apr-22	Chum	42	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Ehatisaht Creek	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	46	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	42	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	DATE COLLECTED	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP NM NOT ID	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_PAF	CAL AM	CAL AF	TOT LICE ID	TOT LEP	TOT CAL
Steamer Point	14-Apr-22	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steamer Point	14-Apr-22	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0