

## CLAM SURVEY QUICK GUIDE

For detailed method instructions and information about clams check out the full manual. Always review the full manual before you go out if you haven't done a survey in a while.

### CLAM SURVEY EQUIPMENT CHECK-LIST

- |   |  |
|---|--|
| <input type="checkbox"/> Pitchforks                       | <input type="checkbox"/> Camera                                    |
| <input type="checkbox"/> 2 x 50m tape measures            | <input type="checkbox"/> GPS                                       |
| <input type="checkbox"/> Clam sacks                       | <input type="checkbox"/> Field notebook w/ field paper             |
| <input type="checkbox"/> Buckets                          | <input type="checkbox"/> Calipers                                  |
| <input type="checkbox"/> Blank Data sheets                | <input type="checkbox"/> Digital scales (spare batteries)          |
| <input type="checkbox"/> Pens, pencils, permanent markers | <input type="checkbox"/> Random number table or random # generator |
| <input type="checkbox"/> Flagging Tape                    |  |

### STEP 1 – SELECT CLAM BEACH



Chose the site based on your groups needs or goals. Sites may include loxiwe or areas for community or commercial use. Clam beaches usually have a shallow to moderate slope, broken and/or empty shells on the beach, sand and shell-hash. Always arrive 1 hour before low-tide.

### STEP 2 – ESTABLISH GRID AND PLACE X-Y REFERENCE LINES



Chose a place to start (point of commencement (POC)) for the X-Y axis and record the lat-long. Decide on the X and Y axis lengths and direction. Usually this is 30m by 30m, but it depends on the beach. Estimate of the size of the beach in m<sup>2</sup> (length x width).

### STEP 3 – GENERATE X-Y COORDINATES AND MARK QUADRATS 1 TO 30

Use a random # table or random # generator to establish X and Y coordinates for quadrats. Mark out the quadrats with stakes or empty clam sacks.

## STEP 4(A) – ONE CREW MEMBER COLLECTS AND RECORDS SITE INFORMATION

Fill out site description, location, reason for surveying, beach particle and plants and wildlife. Sketch a map including the X-Y reference lines, upper, middle and lower intertidal zones. Write down all the other basic information: date, time, weather, crew members, tide levels, etc.



## STEP 4 (B) – REMAINING CREW MEMBERS DIG QUADRATS AND COLLECT CLAMS



Each quadrat should be 1m x 1m x 0.2m (deep). Sort and collect all clams from that quadrat and store in a vexar sack. Make sure all clam sacks are labelled with the quadrat number.

## STEP 5 – PROCESS CLAMS, RECORD ID, MEASUREMENTS, WEIGHT AND COMMENTS



Identify, measure and weigh every clam from each quadrat. One person identifies and measures while the other records the information. Pick a sheltered, flat spot above the high-tide level to do this work.

## IMPORTANT LINKS

Marine Weather – Government of Canada - [https://weather.gc.ca/marine/index\\_e.html](https://weather.gc.ca/marine/index_e.html)

Tide Levels – Fisheries and Oceans Canada - <http://www.tides.gc.ca/eng/find/region/1>

## VHF MARINE CHANNELS

Distress, Safety and Calling – Channel **16** or Transmitting Frequency 156.800

Continuous Marine Broadcast (English) – Channel **21** or Transmitting Frequency 161.650





# Clam Monitoring Manual

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1441 16<sup>th</sup> Ave  
Campbell River, BC V9W 2E4  
Telephone: (250) 286-7200  
Fax: (250) 286-7222

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## HOW TO USE THIS MANUAL

This manual outlines the steps to do survey for intertidal clams. The document shows you how to start your survey and work through the datasheet step by step. In the appendix there is information about the importance of eelgrass and more detailed descriptions of how to find and identify eelgrass. The appendix has an equipment list and a sample datasheet.



Examples of historic cultivated clam gardens found in the Broughton Archipelago of Coastal BC.

## WHY MONITOR CLAMS?

Monitoring clam beds let you know how the clam beds are doing in that area. A typical clam survey is done by digging small plots or **quadrats** on a beach and collecting data such as the number, size, weight and species of clams within each quadrat. Depending on how the data is analyzed, this type of survey can provide information on clam populations:

- **Abundance and Biomass** – The total number of clams or **abundance** can be estimated for a beach. Collecting the weight of each clam can be used to calculate an estimate of the total weight of clams or **biomass** for a given beach. Calculating the average abundance or average biomass for each quadrat can be used to compare clam populations between different beaches.
- **Length, weight and age** – These measurements show the status or health of a clam population based on how much of the population is a certain size. These measurements also show about how many **legal** or **sublegal** sized clams there are on a beach.

- Clam growth – The growth for an individual clam is based on the distance between **annuli** (growth rings) on the shell. **Length-at-annulus** data can be used to estimate growth rates of individual clams, when it is collected from several clams can be used to estimate the growth rate for the whole population.

Results of a single survey will provide information for one clam population in a single year. However, repeated surveys on the same beach each year will provide a long-term data set that can be used to track changes over time. Data from several different beaches can be used to compare differences in abundance or biomass throughout a larger area. The knowledge will help to inform decisions about harvest rates and closures, as well as identify potential impacts (over-harvesting or point-source pollution) affecting a clam beach.

## WHAT TYPES OF CLAMS ARE MOST COMMONLY HARVESTED?

Littleneck clams, manila clams and butter clams are the most common species harvested for commercial, recreational and aboriginal harvesting on the west coast of BC are native (Gillespie et al. 1999). Other species commonly harvested by coastal First Nations include horse clams also known as gapers (*Tresus* spp.), razor clams (*Siliqua patula*) and cockles (*Clinocardium* spp.) (Harbo 2011).

## BUTTER CLAMS

Native to BC. Maximum size is as large as 130mm. The shells are heavy and thick with side-by-side circular ridges. Found in sand, shell hash and gravel within the lower intertidal zone (between high and low tide) and subtidal (below low tide) to depths of 40m.



**Pacific Butter Clam** (Photo courtesy of Fisheries and Oceans Canada)



## LITTLENECK CLAMS

Native to BC, these clams grow to about 75mm. Shells have ridges in rings and ridges that are straight lines starting near the hinge. They are found in mixed gravel, sand and mud in the lower intertidal zone to depths of 10m.



**Pacific littleneck clam** (Photo courtesy of Fisheries and Oceans Canada)

## MANILA CLAMS

Introduced to the waters of BC prior to 1936. The biggest size is about 75mm. . Shells have ridges in rings and ridges that are straight lines starting near the hinge. This clams usually live in the upper half of the intertidal zone in mixed mud, sand and gravel.



**Manila Clam** (Photo courtesy of Fisheries and Oceans Canada)

### WHAT IS “SIMPLE RANDOM SAMPLING”?

**Simple random sampling** is a tool for estimating clam abundance and biomass. Survey methods outlined in this manual follow the DFO survey protocol as described in Gillespie and Kronlund, 1999. Other sampling methods will not be covered in this manual. A simple random sample is achieved by picking a clam beach, setting a survey area and digging several quadrats at random locations within that area. The number, size and species of each clam removed from the quadrat is then recorded and entered into a spreadsheet. This data can be used to estimate the health of the clam population. The most common analyses are estimating the average abundance or biomass of a beach.

### WHAT DO YOU NEED TO COMPLETE A CLAM SURVEY?

- Pitch forks
- 2 x 50m tape measures
- Vernier calipers
- Digital field scale
- Data-sheets, pens, pencils and notepaper, cybertracker if using
- Vexar mesh tubing for making clam sacks
- Buckets
- Digital camera, GPS
- Compass
- Flagging tape

Note – a quick reference list similar to the example in appendix 1 is helpful when preparing for the clam surveys to ensure no equipment is forgotten and all the pertinent field information is recorded.



## STEP 1 - SURVEY DESIGN

- **Timing** – Due surveys during a low-tide cycle during the day. Select a tidal station located near your survey area or beach. (<http://www.tides.gc.ca/eng/find/region/1>).
  - Select a tide cycle where the low tide level is equal to or less than 1.0m above chart datum (usually occurring during the late spring and summer months from April to September).
  - Ideally the closer the low tide level is to chart datum, the better it will be for obtaining those types of clams found in the lower intertidal zone.
- **Site Selection** – Clam beaches are typically selected because it has been harvested before; i.e. commercial, community or family use. Surveyors should do a pre-survey on unfamiliar beaches before choosing them for a full sample. A pre-survey can be done by digging test-holes in areas of the beach likely to hold clams. Usually clam beaches have:
  - A shallow to moderate slope
  - Broken and/or empty shells on the beach
  - Sand and shell-hash.



A typical clam beach located in the Carey Group Islands, Central Coast, BC.

## STEP 2 - SURVEY LAYOUT

### GRID PLACEMENT

- X and Y reference lines should be placed on the beach such that a representative area of clam habitat is covered by the grid. The reference grid is used to guide the placement of quadrats.
- The X reference line is typically laid out parallel to the long axis of the beach; the Y axis is laid out perpendicular to the long axis of the beach.
- For most small beaches, the reference lines are 30m long, but shape and size of the beach will dictate the length.
- Designate one end of the reference line to be 0; if you face seaward, the left end of the reference line will be the 0m mark or point of commencement (POC); the other end will be the distance mark you have chosen (i.e. 30m mark for a 30 x 30 grid).



**Place the X and Y reference lines so that a representative area of clam habitat is covered by the grid.**

- Determine and record the direction of each reference line using a compass. *If using an electronic data-form on the cybertracker, enter the compass bearings into the header form.*





Take a photograph looking down each reference line and record the direction and length of each line.

#### RECORD ENVIRONMENTAL INFORMATION

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- Briefly describe each intertidal zone (upper, middle and lower) in terms of slope, beach material and plant types. Draw a site map to show the reference lines relative to the intertidal zones and shoreline. Also record the:
- Comments on other plants and animals; i.e. other types of shellfish, barnacles, kelp, etc.
- Weather – current weather and/or the weather for the past 24 hour period if relevant.
- Other important information – signs of recent harvest, any litter or other material showing human use of the beach.



Recording environmental information of the selected clam beach.



- As per the DFO clam manual, the recommended sampling rate for small beaches less than 5 hectares in size is 30 quadrats per hectare with a minimum of 10 quadrats per hectare. A quadrat is a rectangle 1m<sup>2</sup> in area and 0.2m in depth.
- The total population of quadrats, N, is equal to the number of square meters available in the grid you established when you first arrived on site. For example, if you have placed a 30m x 30m grid on the beach, your survey area is 900m<sup>2</sup>; this gives you an N value of 900 quadrats to choose from.
- Your sample size, n, is the sub-set of quadrats randomly selected from the survey area that you will dig up. Quadrats are numbered sequentially 1, 2, 3,..., n.
- The quadrat locations are determined by randomly selecting coordinates from the X and y reference lines. Numbers can be chosen by way of a random number table or a random number generator downloaded to a mobile device.
- Example: If you've decided to have 10 quadrats (n=10) in your 900m<sup>2</sup> survey grid, you would randomly choose 10 numbers between 0 and 30 from the X-axis to obtain your X-coordinates. Then you would randomly select 10 numbers between 0 and 30 to obtain your Y-coordinates. Pair the two sets of numbers to make n=10 pairs of coordinates for quadrats.

Quadrat Number (i.e. 1 – n)	X values	Y values
1	10	6
2	18	12
3	9	17
4	27	18
5	13	29
6	4	28
7	8	20
8	11	11
9	22	8
10	25	14

- Place a numbered clam sack at the corresponding quadrat based on the coordinate location. For example, Quadrat 1 would be located at (10, 6) or 10m down the X reference line and 6m down the Y reference line, and so on.

## CYBERTRACKER SCREENS

### Introduction Screen

Clams - Full survey
<p>Set up sampling grid using paper and a random number generator. Usually, the grid will be defined by two perpendicular, 30 meter long axes, but this may depend on the size and shape of the beach. You will then define 30 (or at least 10, for very small beaches) quadrat locations by picking random numbers between 0 and the lengths of the axes. Write those numbers onto paper and set up flags/sampling bags at each location.</p> <p>Also sketch a map of the sampling beach on paper; you can take a photo of it on the next screen.</p> <p>When that set-up is complete, select 'Define survey axes' while at the "point of commencement" (POC) for the grid; the software will grab the GPS coordinates of the tablet's location when you select 'next screen'.</p> <p>Beach description and clam data entry can be performed before or after capturing the GPS location, photos, and other data about the survey axes.</p> <p>When entering clam data, the quadrat information will be retained if you select 'add another clam'. When moving to a new quadrat, either edit the header information, or select 'return to clam survey options' and then 'enter clam data' again, to clear them.</p>
Define survey axes
Describe beach
Enter clam data
Return to patrol options

### Beach Description

Clam survey: Beach description
Geographic area: Tap to edit
Beach name: Tap to edit
Tide level: Tap to edit
DFO area: Tap to edit
Describe upper intertidal: Tap to edit
Describe middle intertidal: Tap to edit
Describe lower intertidal: Tap to edit
Comment on other plants and animals: Tap to edit
Comment on weather: Tap to edit
Other important information: Tap to edit
Return to clam survey options

Clam survey: Sampling axes
<p>X axis photo and measurements:</p> <p>Compass bearing (deg): 0. Tap to capture</p> <p>Length (m): 0.0 Tap to capture</p>
<p>Y axis photo and measurements:</p> <p>Compass bearing (deg): 0. Tap to capture</p> <p>Length (m): 0.0 Tap to capture</p>
<p>Sketch a photo of beach, including X-Y reference lines, tidal zones, etc. Take a photo of this sketch:</p> <p>Tap to capture</p>
Save and return to clam survey options

## STEP 3 - SAMPLE COLLECTION

### DIGGING

- Mark out a 1.0m by 1.0m square at each quadrat location. Dig down to a depth 0.2m at each quadrat location using a pitchfork and/or rake.
- Carefully overturn the beach material (substrate) for the whole square, while gently hand-sifting the sediment in order to pick out clams of all sizes and species.
- Most d-handled pitchforks are about 1.0m long and the tine length is about 0.2m. Mark out your quadrat using the length of the pitchfork as a reference and dig only as deep as the tine length. If you use this approach each time you dig a quadrat, your digging effort will remain the same for all surveys.



**Sorting and collecting clams from a quadrat.**

#### **COLLECTION AND STORAGE**

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- Clams of all sizes and species should be removed from the hole and placed in the right numbered clam sack.
- Beaches that produce a lot of clam may require two or more sacks to be used to hold the clams from a single quadrat; ensure that all extra bags are labeled with same quadrat # so they are all counted for the right square.



## STEP 4 - DATA COLLECTION

Pick a flat location on the beach above the high-tide mark to process clams and record the clam data. For each clam write down the quadrat number where it was found, species, size and weight into a data form. This work can start while quadrats are still being dug in order to reduce the time spent on the beach. You can split into two groups for this.

Lawn chairs and/or portable picnic tables can make the work easier.



Selecting a sheltered and flat area to measure and record clam data as well as using lawn chairs makes the job easier.

### HEADER INFORMATION

Header information such as **date, tide level, etc.** should be recorded in the spots at the top of each data sheet (See Appendix 2 for an example of a blank data sheet including header information) or into a header form provided on a tablet or cybertracker to record data.

**Header information should include:**

- Date – date that the work was done
- Sampling crew - first and last initials of the work crew members
- Geographic location – a general description of the area; i.e. Broughton Archipelago, Johnstone Strait.

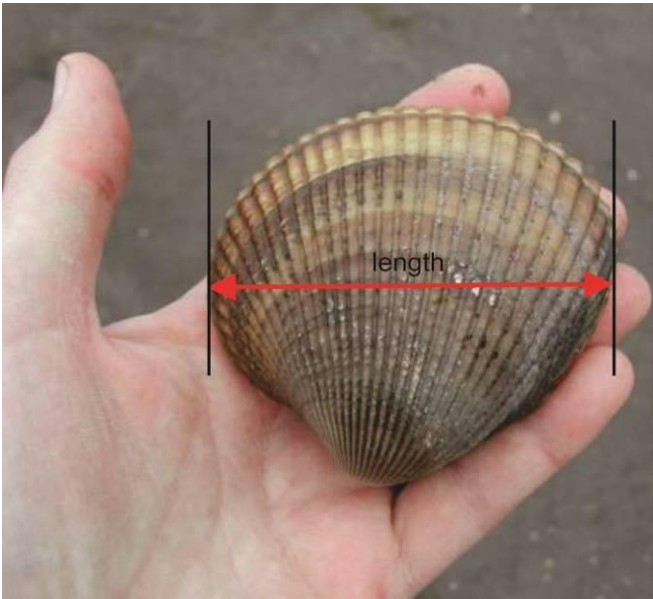
- Name of the beach being sampled – a local name or label only used for that beach; if one is not already used for that site, it can be made-up.
- Tide level – the time of and height of low-tide as well as the station it was recorded at; i.e. 0.6m @ 08:15am – Port Neville
- Statistical area and sub-area – DFO Fisheries Management Areas for the Pacific Region: <http://www.pac.dfo-mpo.gc.ca/fm-gp/maps-cartes/areas-secteurs/index-eng.html>
- Sample Type - **Simple Random Sample** is used in this manual
- Sample Tech – **fork/not screened** is used in this manual

## CLAM DATA

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Write down species, size, weight and any special notes. ***See an example of a pre-made data-form is in Appendix 2.***

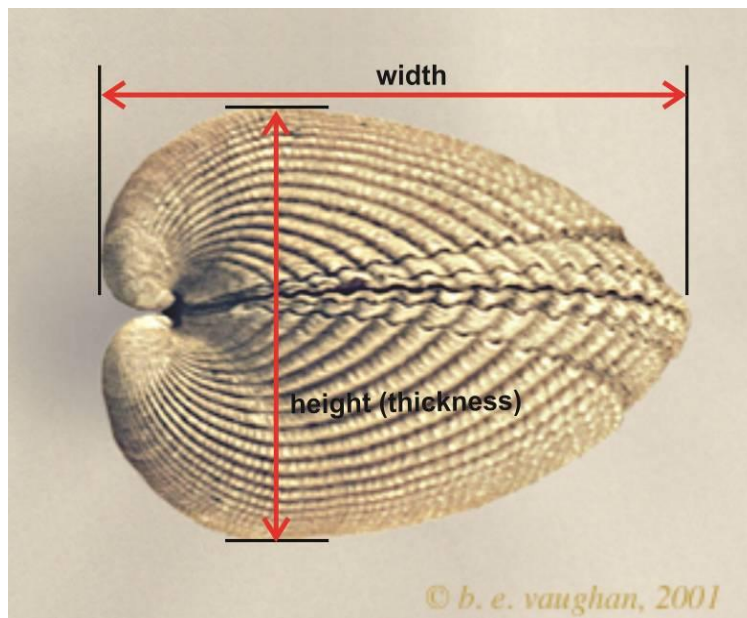
- Species – enter the species code into the species column. Codes are:
  - B = Butter clams
  - BN = Macoma (bent-nose)
  - C = Cockle spp.
  - HC = Horse Clam
  - LN = Little Neck
- Length – measure the length of the clam and record it in mm into the table.
- Width and Height (thickness) – Width and height (or thickness) of the clam and record the measurements in mm into the table.
- Weight – weigh the clam on a digital scale. Remove any excess water or dirt from the clam prior to placing on scale. Record the weight in grams to the nearest single decimal place in the table.
- Comments - Other things note should be written down. For example: healed injuries, shell damage, bad smell, etc.



The length measurement of a cockle (*Clinocardium* spp.)



Obtaining length measurements using calipers.



Width and height (thickness) measurements for a cockle (*Clinocardium* spp.)





**Obtaining a thickness measurement using calipers.**

CYBERTRACKER SCREEN

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## INFORMATION SOURCES

### FIELD GUIDES

“Whelks to Whales – Coastal marine life of the Pacific Northwest” – Rick M. Harbo – Newly rev. and expanded 2<sup>nd</sup> ed.

“Marine Life of the Pacific Northwest: A photographic encyclopedia” – Andy Lamb and Bernard P. Hanby

### GOVERNMENT WEBSITE LINKS

Fisheries and Oceans Canada – Pacific Region BC Sport Fishing Guide – Shellfish Identification  
<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/species-especes/shellident-identcoquille-eng.html>

Fisheries and Oceans Canada – Pacific Region Science and Aquatic Species Research – Intertidal Clams  
<http://www.pac.dfo-mpo.gc.ca/science/species-especes/shellfish-coquillages/clam-palourde/index-eng.html>

Fisheries and Oceans Canada – Pacific Clam Species <http://www.pac.dfo-mpo.gc.ca/science/species-especes/shellfish-coquillages/clam-palourde/clams-palourdes-eng.html>

Fisheries and Oceans Canada – Tides, Currents and Water Levels -  
<http://www.tides.gc.ca/eng/find/region/1>

Government of Canada – Environment and Natural Resources – Weather Information –  
[http://weather.gc.ca/canada\\_e.html](http://weather.gc.ca/canada_e.html)

Fisheries and Oceans Canada – Science Branch – Pacific Region – “A Manual for Intertidal Clam Surveys” – By G.E. Gillespie and A.R. Kronlund - <http://www.dfo-mpo.gc.ca/Library/234406.pdf>

Fisheries and Oceans Canada – Integrated Fisheries Management Plans – Pacific Region – Intertidal Clams January 1, 2013 to December 31, 2015. [http://www.pac.dfo-mpo.gc.ca/fm-gp/mplans/2013/intertidal\\_clam-palourde\\_intercotidale-sm-2013-15-eng.pdf](http://www.pac.dfo-mpo.gc.ca/fm-gp/mplans/2013/intertidal_clam-palourde_intercotidale-sm-2013-15-eng.pdf)

First Nations Health Authority – Wellness –Healthy Eating – Traditional Food Facts Sheet -  
[http://www.fnha.ca/Documents/Traditional\\_Food\\_Fact\\_Sheets.pdf](http://www.fnha.ca/Documents/Traditional_Food_Fact_Sheets.pdf)

### GOVERNMENT CONTACTS

Graham Gillespie - [Graham.Gillespie@dfo-mpo.gc.ca](mailto:Graham.Gillespie@dfo-mpo.gc.ca) – 250-756-7215

Jason Dunham - [Jason.Dunham@dfo-mpo.gc.ca](mailto:Jason.Dunham@dfo-mpo.gc.ca) – 250-756-7214

## APPENDIX 1 – SURVEY EQUIPMENT CHECKLIST AND QUICK REFERENCE CARD

### CLAM SURVEY EQUIPMENT CHECKLIST:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> blank 8.5x11" field paper</li> <li><input type="checkbox"/> field notebook with field paper</li> <li><input type="checkbox"/> clam id or field guide</li> <li><input type="checkbox"/> survey methodology book</li> <li><input type="checkbox"/> random numbers table, or phone app.</li> <li><input type="checkbox"/> map of beaches</li> <li><input type="checkbox"/> tide guide</li> <li><input type="checkbox"/> pencils and permanent markers</li> <li><input type="checkbox"/> 2-3 box cutters or knives</li> <li><input type="checkbox"/> GPS with spare batteries</li> <li><input type="checkbox"/> Digital scales with spare batteries</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> 1 VHF radio</li> <li><input type="checkbox"/> 1 camera and charger</li> <li><input type="checkbox"/> 1 hand measuring tape (5m)</li> <li><input type="checkbox"/> 2 x 50m measuring tapes</li> <li><input type="checkbox"/> 3-4 calipers (measuring)</li> <li><input type="checkbox"/> 30 stakes (skewers)</li> <li><input type="checkbox"/> 4 rolls flagging tape</li> <li><input type="checkbox"/> 300 ft roll of vexar clam bag</li> <li><input type="checkbox"/> 30 clam sacks (numbered with pink flag)</li> <li><input type="checkbox"/> 4 clam shovels (pitchfork)</li> </ul> |
|--|--|

### FIELD NOTE QUICK REFERENCE CARD:

<ul style="list-style-type: none"> <li>• <b>Date</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Beach Name and General Location</b></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Crew Initials</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Weather</b></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Random numbers</b> for X and Y (#1-30)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Transect Details</b> <ul style="list-style-type: none"> <li>○ POC of transect (Lat. / Long.)</li> <li>○ X-axis length and direction (30m is best)</li> <li>○ Y-axis length and direction (30m is best)</li> <li>○ Estimate the size of the beach in square meters (length x width)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• <b>Site description:</b> topography and slope</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Tides:</b> tide height, time at low tide, reference station (<b>Alert Bay</b>)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Site info:</b> (why was it chosen? Fish farm proximity/log dump/ is it an index site/ common commercial digging)</li> <li>• <b>History:</b> evidence of clam gardens, commercial harvest (use pers. comm.), food gathering</li> </ul>	



## APPENDIX 2 – EXAMPLE OF A FIELD DATA-FORM WITH HEADER INFORMATION

### Intertidal Clam Biological Data

Location: \_\_\_\_\_ Beach: \_\_\_\_\_ Page: \_\_\_\_\_  
 Date: \_\_\_\_\_ Tide Level: \_\_\_\_\_ Stat Area: \_\_\_\_\_  
 Samplers: \_\_\_\_\_ Water Temp: \_\_\_\_\_ Sample Type: \_\_\_\_\_  
 Sample Tech: fork/not screened Sub Area: \_\_\_\_\_

Quadrat	Species	Length (mm)	Width (mm)	Height (mm)	Weight (g)	Comment