Coastal Guardian Watchmen Regional Monitoring Strategy

METHODS AND INSTRUCTIONS
FOR COLLECTING DATA AND FILLING IN FIELD CARDS

INTRODUCTION

The Coastal Guardian Watchmen Regional Monitoring Strategy has been developed to support Guardian Watchmen and other First Nations' Stewardship staff in collecting region-wide data on priority issues. For this pilot year, eight main indicators have been selected to be included in the strategy:

- Wildlife sightings.
- Crab and prawn trap sightings;
- Boat sightings, including sport fishing, commercial fishing, tourist, and enforcement agency boats;
- Activities of tourists;
- Sport fishing lodge visits;
- Enforcement incidents, agency responses, and outcomes;
- Impacts to cultural and ecological sites; and
- Eulachon returns.

For each of the indicators, there are data collection methods and field cards. Once collected, data will be entered into an online Data Management System and used by your Nation to learn more about and address the issues you are concerned about in your territory and region-wide.

METHODS AND INSTRUCTIONS

GENERAL

Data collected for the Regional Monitoring Strategy can be collected any time you are out patrolling your territory, whether in a boat or on land. The goal is to do at least one patrol every two weeks, but every week is even better. The more you are out, the more data you will have, leading to a more complete picture of what is going on in your territory and the region. On your patrols, you may also be collecting data for other programs your nation is involved in.

For the Regional Monitoring Strategy, there are nine individual field cards for collecting data.

- Patrol Report
- Wildlife Sightings
- Trap Sightings
- Boat Sightings (not approached)
- Approached Tourist Boats
- Lodge Visits
- Enforcement Incidents
- Cultural and Ecological Sites
- Eulachon Survey

There are two alternate cards that can be used if you want to collect data using more codes and fewer field cards. One of these field cards, "Wildlife, Boat, and Trap Sightings" combines the three sightings field cards into one. The other is an alternate "Patrol Report" that is to be used with the combined sightings field card These alternate cards are described on pages 14 and 15 below.

For each new patrol you do, you will use a fresh set of field cards. After your patrol, pull out all the sheets you used for that patrol, mark on the patrol report how many of each type of field card you used, and then put them all together in the tab at the back of your binder.

The following are notes about data fields that are on most of the field cards.

Dates: It is clearest to write out the name of the month so that you or the person entering the data into the Data Management System do not confuse the month and day. If you have a standard system of writing the date only with numbers, you can use that, provided you are entering the data into the Data Management System or the person entering the data knows which system you are using.

Times: Write the time in a 24-hour format (not a.m. and p.m.). This is because the Data Management System is designed to record the time in a 24-hour format.

Locations: Record a GPS location for all of your sightings if possible. It will increase the usefulness of the data you are collecting. Locations can be filled in as a latitude and longitude, the way point number on your GPS, and/or a description of where you are. Latitude and longitude are to be entered into the online system in the WGS /84 format. If you use way point numbers, you will need to write the latitude and longitude on the field card when you get back to the office for data entry and as a record. Even if you have the latitude and longitude or a way point, it is a good idea to fill in a short description of where you are in case the latitude and longitude are incorrect or so you can use the description to find a point on a map later on. If you do not have a latitude and longitude or way point, descriptions should include the name of the water body and an estimated distance and direction to a landmark. Write the description in enough detail that you can find it on a map when entering the location into the Data Management System. If your territory covers more than one fishing area (e.g., 1 to 10, not-sub-area), it will be helpful to note which of the fishing areas you were in when you recorded a sighting.

If you need more space: In general, if you need more space than is in the box on a field card, continue into the next entry and scratch out the boxes that you do not need more space in. That way you will start in the right place for your next entry.

PATROL REPORT

As you begin your patrol, you will fill in all of the information in the large box at the top of the "Patrol Report" field card, except for the "Patrol end time". The box includes general information about you, your trip, and the weather and sea. At the end of your trip, you fill in the rest of the information on the Patrol Report. On the back of the "Patrol Report" field card are some codes that you will use when filling out other field cards. Below is an example of how to fill out a Patrol Report.

PATROL REPORT — Regional Monitoring Strategy

| Nation: *Kitasoo Xaixais*

Patrol vessel/vehicle: *White Bear*

GW on patrol: *Joe Robbins*
 Sarah Shields

Date: *June 6/10* | Patrol start time: *07:30*

Patrol end time: *16:10*

Air temp: *12* (°C)

Wind speed: (knots or desc)

NE 5 knots, lt. breeze | Sky: ☐Clear ☒Partly cloudy ☐Overcast
Prec: ☒None ☐Light Rain ☐Rain ☐Snow
Seas: ☐Calm ☐Choppy ☐Rough ☒Swell
Wave height:___3___ft (wind wave + swell)
Visibility: ☐<0.5 ☐0.5-1 ☐1-2 ☐2-5 ☒>5 (nm)
Note: ☐Fog ☐Glare ☐Other:_____ |

Area Patrolled: *KL dock, N thru Salty Channel, around Little Is, W thru Smith's Strait, KL*

No. of Sheets: Wildlife _3__ Traps _2__ Boats _3__ Approached Tourist Boats _1__ Lodge Visits _1__

Enforcement Incidents _0__ Cultural and Ecological Sites _1__ Eulachon Survey _0__

Other Data Collected on Trip: ___*Crab Sampling at Snuggle Cove*_____

Notes/Additional Info: *Saw natural landslide on the west side of Little Island, way pt 7, photo*

Nation: The name of your nation

Patrol vessel/vehicle: The name of the vessel or vehicle you are travelling in

GW on patrol: The names of all of the Guardian Watchmen on the patrol

Date: The date of the patrol

Patrol start time: The time you begin your trip (using a 24 hour clock)

Patrol end time: The time you end your trip (using a 24 hour clock)

Air temp: The air temperature in °C

Wind speed: The windspeed in knots or describe in words (e.g., gusty)

Sky: Check the most appropriate box to describe the sky

Prec: Check the most appropriate box to describe the precipitation

Seas: Check the most appropriate box to describe the seas

Wave height: Select the size (in feet) that best describes the wave height (wind wave plus swell)

Visibility: Estimate the visibility in nautical miles

Note: Note anything affecting visibility

Area Patrolled: Describe the route you took on your patrol

No. of Sheets: The number of sheets of each type of field card you used on the trip (do not count back and front, just number of sheets)

Other Data Collected on Trip: List other data collected (e.g., for other research programs)

Notes/Additional Info: Notes about the trip or other things you saw that are not recorded elsewhere

WILDIFE SIGHTINGS

Coastal First Nations, Guardian Watchmen, and many other people and groups are interested in learning more about wildlife on the coast, where they are, and how they use different habitats. Recording sightings of species of interest will help you to understand more about when and where you see those species. This information can help in making decisions about how different areas in your territory should be managed or areas where further research is required.

For the Regional Monitoring Strategy, the following species have been selected as of special interest. The land animals are grizzly bear, black bear, wolf, black-tailed deer, and mountain goat. Marine species include all whales, porpoises, and dolphins, sea otters, California and Stellar sea lions, and elephant seals. You do not need to record every sea lion you see, but you may want to note large groups or unusual sightings. Non-native and out of range species are also of special interest. You may also record other wildlife species that are not listed above if they are of interest to your Nation. When you see any of these species, or any animal you want to record the sighting of, you will use the "Wildlife Sightings" field card.

The data that will be collected on whales, porpoises, and dolphins can be shared with the BC Cetacean Sightings Network so there is a larger pool of information for analysis. In combination with the Patrol Report, the "Wildlife Sightings" field card has been designed to include all of the same data as the Cetacean Sightings Network logbooks.

Wildlife Sightings

Date/Time	Species	Conf level	# in group	Behaviour	Condition	Comments
Sep 9/10 *18:20*	*grizzly bear*	☐uncertain ☐possible ☐probable ☒certain	*3*	☐travelling ☒feeding ☐resting ☐other:	☒healthy ☐poor ☐dead	*Mother and two cubs feeding on chum;*
Lat/long	**Location description**	**Observer initials**	**Direction of travel**		**Sighting distance**	
way pt 5	*Mouth of Salmon R*	*JK*	*N.D.*		*200m*	☒Photos

Date/Time: The date and time you see the animal(s)

Lat/long: The latitude and longitude readings or way point of where the sighting occurred

Species: The species of animal you see. A list of the species to record is on the back of the Patrol Report. You can record non-native, out of range, and other animals you are interested in as well. If you are not certain what species and animal is, describe its appearance in the 'Comments' section.

Location description: The name of the place where the sighting occurred

Conf level: Check the box that best describes your confidence in your species identification

Observer initials: The initials of the person who identified the species of animal

 # in group: The number of animals in the group. If you cannot complete a precise count, provide the minimum and maximum number of animals in the group.

Direction of travel: The direction the animals are travelling. If animals are non-directional (i.e., not moving in a particular direction), write 'N.D.'

Behaviour: Check the box that describes what the animals are doing. If you check 'other', write in what the animal is doing.

Condition: Check the box that describes the condition of the animal(s)

Sighting distance: Note your distance from the animal(s) during the sighting

Comments: Note any details about the animal(s) and what they are doing. Where appropriate, note the number of females, males, or juveniles in the group. If you are not sure of the species, describe the appearance of the animals. Add any other comments you have about the sighting. Check the box if you took any photos.

TRAP SIGHTINGS

There has been a lot of concern expressed by Guardian Watchmen and communities about crab harvesting within their territories. Several communities have started sampling crab populations using different protocols to better understand the health of local crab populations. For the Regional Monitoring Strategy, you will be recording sightings of crab and prawn traps while on patrol. This information will help your community map where concentrations of traps are located in your territory, and what proportion of traps are commercial and recreational. While on patrol, when you see a crab or prawn trap float or group of floats, you record the sighting on the "Trap Sightings" field card.

Trap Sightings

Date	Location (desc & lat/long)	Fishing Area	Species	Type	Name or # on float	# of floats	Comments
May 17/10	Coho pass −131.0339355 51.95103664	2	☒crab ☐prawn	☐recreational ☒commercial ☐food fish	2 2114	5	
Jun 2/10	Halfmoon Bay Way pt s	3	☒crab ☐prawn	☒recreational ☐commercial ☐food fish	Parker	1	

Date: The date you see the trap float

Location: The latitude and longitude readings and the name of the place where the sighting occurred

Fishing Area: The fishing area (e.g., 1 to 10) where the trap is located

Species: Check the box indicating the target species. If you do not know, leave it blank.

Type: Check the box indicating which type of fishery. If you do not know, leave it blank.

Name or # on float: The name or number written on the float(s). Use another entry if there are floats belonging to different people or licenses.

# of floats: The number of floats with the same name and/or number on them

Comments: Note anything of interest

BOAT SIGHTINGS

Having an estimate of how many boats, what type of boats, where they are, and when they are there can provide a lot of information about what activities are going on in your territory, impacts they might have on your resources, and opportunities for things like tourism development. For example, DFO requires lodges to report their catch, but not independent sport fishers. If you have an idea about what proportion of the sport fishing boats are lodge boats versus independent boats, you can start to get an idea about the

catch of independent sport fishers. Or, if you know where tourist boats are anchoring, you can take measures to ensure that they are not damaging sensitive sites.

The goal is to record a little bit of information about all of the boats you see while on patrol, and more detailed information about tourist boats. You use the "Boat Sightings (not approached)" field card to record information about boats you see while on patrol. If you do not have time to write everything down, or you cannot get all of the information, write down what you can starting from left to right, and hopefully filling in at least the first five columns (up to and including number of boats). If you are able to collect more detailed information, fill in all of the fields, including the activities and descriptions of the boats.

On this field card you will need to use codes to enter information about the specifics of the kind of boat you see and its activity. The codes can be found on the back of the Patrol Report.

Boat Sightings (not approached)

Date/ Time	Location (desc & lat/long)	Boat type (select one)	Boat details (code)	# of boats	Activity (code)	Boat, lodge, company, or agency name	Details (e.g., VRN, home port, hull colour, approx length) and/or comments
July 7/10 14:22	Halfmoon Bay, Way pt 5	☐sport fish ☐com fish ☒tourist ☐other	S-p	2	A	Adagio & Thistle	Green, 30 ft & white, 40 ft
Same	Same	☐sport fish ☐com fish ☒tourist ☐other	S-c	1	AS	Maple Leaf	White, 90 ft
Same	Same	☐sport fish ☒com fish ☐tourist ☐other	Gi	1	A	MJ	22265
Same	Same	☒sport fish ☐com fish ☒tourist ☐other	K-p	4	CaAS		
Aug 1/10 10:43	Coho pass -131.0339355 51.95103664	☒sport fish ☐com fish ☐tourist ☐other	I	2	F		
Same	Same	☒sport fish ☐com fish ☐tourist ☐other	L	3	F	Bud's Place	

Date/Time: The date and time you see the boat(s)

Location: The name and latitude and longitude of the place where the sighting occurred

Boat type: Check ONE box for the type of boat(s) you are recording. If you see more than one type of boat at the same time in one location, use the next row down and write "same" in the Date/Time and Location fields.

Boat details: The one or two letter code that describes the specific type of sport fishing, commercial fishing, tourist, or other boat you see (the list of codes is on the back of the Patrol Report field card). If you see more than one specific type (e.g., sailboat-private, sailboat-commercial) of a broader category of boat type (e.g., tourist boat), you can write in more than one code and follow along the rest of the columns with the data for each.

# of boats: The number of this specific type of boat. If you have two specific types in "Boat details", write the number of each type in the space beside it.

Activity: The code describing the activity of the boat or group of boats (list of codes is on the back of the Patrol Report field card). You can only select ONE activity for each boat or group of boats. If two (or more) of the same type of boat are doing different activities, separate them and use a new line.

Boat, lodge, company, or agency name: The name of the boat or the associated lodge, tourism or other company, or enforcement agency.

Details and/or comments: For commercial fishing boats, write in the vessel registration number. For tourist boats, write in information like the home port, hull colour, or approximate length if possible. Write any other details or comments on any of the types of boats here.

APPROACHED TOURIST BOATS

Communities want to know more about the tourists visiting their territories and what tourists are doing during their visits. Guardian Watchmen and other Stewardship staff want to create a visible presence and educate tourists about respectful use of their territories. As part of the Regional Monitoring Strategy, when Guardian Watchmen encounter tourists on anchored boats or camping ashore, they can take the opportunity to introduce themselves and conduct a brief survey. Talking to tourists provides an opportunity to tell them about your Guardian Watchmen program and give them a brochure, talk to them about how to minimize the impacts of activities such as whale watching, wildlife viewing, or camping on shore, and ask them to contact you if they see anything that concerns them.

When you approach tourists, be friendly and courteous. Introduce yourself and tell them about your Guardian Watchmen program and Stewardship Department. Let them know you are collecting some general information about tourists in your territory, and ask them if it is okay for you to ask them a few questions about their trip. You record the information on the "Approached Tourist Boats" field card in your binder as you ask the questions. If you collect information on a tourist boat on the "Approached Tourist Boats" field card, you DO NOT include that boat on the "Boat Sightings (not approached)" field card.

Approached Tourist Boats

Date/ Time	Location (desc & lat/long)		Boat code	Activity codes	Boat or company name	Details (home port, hull colour, approx length)
Jul 1/10 1:20 pm	Rainy Bay Way pt 21		S-p	A, Cr, AS, WW, WV	Andante	Vancouver, white, 50 ft
Origin	# people	# days	Permit?	Last night	Next night	Comments
Van-couver	2	2	n/a	Snuggle Cove	Halfmoon Bay	Dog aboard, they had a concern about dive fishers (recorded in enforcement)

Date/Time: The date and time you talk to the people on the boat

Location: The name and latitude and longitude of the place where the survey occurred

Boat code: The code that describes the specific type of tourist boat: sailboat, power boat, or kayak (S,P,K), including whether it is private or commercial (-p, -c).

Activity codes: Ask the people what they have been doing at the site or in the nearby area and list all of the codes describing the activities. You can list more than one code (the codes are on the back of the Patrol

Report). If they do not mention certain activities like fishing, crabbing, or wildlife viewing, ask them specifically if they have been doing that activity.

Boat or company name: The name of the boat and/or tourism company

Details: List information like home port, hull colour, and/or approximate length

Origin: Ask where they started their trip and record the name of the place

# of people: Ask how many people are on board the boat and record the number

# of days: Ask how many nights they are staying at the site and record the number

Permit?: If applicable (e.g., it is a commercial tourist operation in a conservancy), you can ask if they have a permit. If they have a permit, enter 'yes'. If they do not have a permit, enter 'no'. If you did not ask, enter 'didn't ask'. If the question is not applicable, enter 'n/a'.

Last night: Ask where the last place they stayed was and enter the name

Next night: Ask where they plan to stay next and enter the name

Comments: List any additional information, for example what wildlife they saw, what kind of fish they caught, if there are dogs aboard, if they have seen anything of concern, or any other information you think is important.

SPORT FISHING LODGE VISITS

One of the goals of Guardian Watchmen programs is to create a presence on the water. Part of this involves developing better relationships with sport fishing lodges. In the future, once protocol agreements are signed between Coastal First Nations and lodges, Guardian Watchmen will also be able to collect catch data from the lodges. These visits to lodges in the pilot year of the Regional Monitoring Strategy will help to create better conditions for collecting data from lodges in the future.

The goal is to visit the sport fishing lodges in your territory regularly in order to develop awareness about your programs and build relationships with lodge staff. Identifying which lodges you will visit and how often you will stop by needs to be decided by your Manager, and will depend on broader discussions between your Nation and the lodges in your territory. When you visit a lodge, you can introduce yourselves if you do not know the lodge staff, ask them their names, tell them about your Guardian Watchmen program, give them a brochure, and let them know that you will be stopping by throughout the season. Tell them that they can call you if they see anything that concerns them in the area. The purpose is to have a friendly and casual conversation.

Once you leave the lodge, you fill out the "Lodge Visits" field card, which includes a description of the visit. In the description you can note things like:
- the topics of conversation (e.g., the weather, whether the fishing has been good, what people have been catching, wildlife in the area, local events);
- the tone of the conversation (e.g., were staff receptive, relaxed, busy, suspicious);
- interesting things people said (e.g., related to fishing or other data you are collecting); and
- anything else that seems noteworthy.

If a protocol agreement has been signed between your nation and the lodge, you can also collect catch data as outlined in the agreement.

Lodge Visits

Date	Lodge name	Staff spoken with	Description of visit
June 14/10	King Salmon	Lois Smith Ed Naschet	Distracted; told them about GW program, gave brochure; first guests coming June 22; we suggested they show video to guests & left a copy
Aug 15/10	Big Fish Lodge	Doug Konley Randy Desjarlais	Friendly, had coffee; grizzly sow +2 cubs in area; guests catching "loads of coho", they are giving brochures out to all their guests

Date: The date of your visit

Lodge name: The name of the lodge you visited

Staff spoken with: The names of the staff you spoke with at the lodge

Description of visit: Note the topics of conversation, tone of conversation, interesting things people said, anything else that seems noteworthy

ENFORCEMENT

Communities and Guardian Watchmen have expressed concern over a lack of enforcement by agencies and are interested in taking on a stronger enforcement role within their territories. Keeping detailed records of all of the enforcement incidents you see and report to other agencies, the responses of the agencies, and the outcomes will give you information about how well regulations in your territory are being enforced. With that evidence, your community can take steps to improve the accountability of enforcement agencies and/or build a case for a stronger role for your Nation in enforcement. Knowing when and where incidents occur will help you determine when and where to patrol. When you are on patrol and you see a suspicious activity or evidence of a suspicious activity, you record detailed information on the "Enforcement Incidents" field card. As soon as possible, either while you are still on patrol or when you get back to the office, report the incident to the relevant agency. Please remember when you are recording a suspicious activity, do not approach or confront people: your safety must always come first. Information on who to report a suspicious activity to can be found on the Coastal Guardian Watchmen Network website (http://coastalguardianwatchmen.ca/reporting_suspicious_activities).

Enforcement Incidents

Date/Time	Location (desc + lat/long)	Boat/vehicle (name, reg/lic #, colour, make)	Violator (e.g., height, weight, hair colour)	Evidence @ scene	Actions of violator
Sep 21/10 06:15	N side of Channel Is Way pt 7	Neptune, 30 ft aluminum fishing boat, VRN 22135	1) >6 ft, 200 lbs, blond hair, on boat 2) diver in water	something (bag?) hanging off side of boat where diver was working ☒Photos	Diver was working alongside boat, went back down when they saw us
Notes: *Boat was in an area where there are abalone. One guy on boat and one diver. Suspect they were getting abalone. Did not approach. Took photos and called DFO when we got back to the office.*					
Reported to: *Anna Wong, DFO, 1-800-465-4336, Fisheries Violation Line*					

Date/Time	Location (desc + lat/long)	Boat/vehicle (name, reg/lic #, colour, make)	Violator (e.g., height, weight, hair colour)	Evidence @ scene	Actions of violator
Jul 30/10 16:12	Long Harbour Way pt 22	Liquid Asset, 20 ft power boat, white, fibreglass	No one on board	Abandoned boat, drifting N in Steven's Strait ☒Photos	N/A
Notes: *Noticed boat drifting and did not see anyone aboard. Approached and called out. Called Coast Guard on VHF and stayed with boat until they arrived (about ½ hour). Left soon after they arrived.*					
Reported to: *Francois Morisette, Coast Guard on boat that responded.*					

Date/Time: The date and time when you observed the suspicious activity or evidence at the scene

Location: The latitude and longitude and name of the place where you saw the incident or evidence

Boat/vehicle: Describe the boat or vehicle at the scene, including the name, registration or license number, colour, make, and/or any other identifying information

Violator: Describe the person or people involved and any companions. Be as accurate as possible and include height, weight, hair colour, and any other identifying information, including name if you know it.

Evidence @ scene: Describe anything that made you suspicious or indicated that a violation had taken place. Take photos if you can without alarming the violators. Check the box if you took any photos.

Actions of violator: Describe what the people were doing, including the activities that made you suspicious

Notes: Any other notes about what happened and what you did. Please remember when you are recording information on a suspicious activity, do not approach or confront people, your safety must always come first.

Reported to: The name, agency, and telephone number of the person to whom you reported the incident

CULTURAL AND ECOLOGICAL SITES

Communities are concerned about impacts from tourists and others on particular cultural and/or ecological sites within their territories. These sites may be:
- ecological sites, including conservancies and other protected areas;
- cultural sites and other sensitive areas;
- high tourism sites, such as anchorages, kayak campsites, and cabins; and/or
- sites where community harvesting occurs.

It is also important to work towards understanding the cumulative impacts of tourism at a regional level to ensure that tourist impacts are being managed appropriately.

For the Regional Monitoring Strategy, the goal is to conduct a pre- and post-season assessment of specific cultural and ecological sites that are prioritized by your Nations within your territory and to patrol the sites at regular intervals over the tourist season. Before the tourist season starts, you will need to work with the relevant people in your community to select the cultural and ecological sites you want to monitor in your territory. You will go to each of those sites at the beginning of the tourist season and fill out the "Cultural and Ecological Sites" field card. At regular intervals over the season, perhaps every two weeks or month (depending on how much the sites are used), you will return to the site and fill out a new "Cultural and Ecological Sites" field card.

There may be some sites that you do not want tourists and others visiting. If you monitor these sites regularly, your presence may alert tourists that there is something interesting there. You may want to only go to these sites at the beginning and end of the season, or if you see someone at the site when you are on patrol.

Cultural and Ecological Sites

Date	Site name	Protected area?	If yes, PA name	Location (desc & lat/long)	Concerns?
Jun 4/10	Newcombe Is	☒no ☐yes		Smith's Channel, Way pt 35	☐no ☒yes

If concerns, describe what you saw:	List actions taken	Further action req?
Environmental Has been firewood collection; garbage left (lots of cans) ☒Photos	Cleaned up garbage	☐no ☒yes–list: Need signs re: fires, garbage
Cultural ☐Photos		☐no ☐yes–list:
Facility Outhouse and mooring buoy need repair ☒Photos	Nailed on missing board on outhouse	☐no ☒yes–list: Need new float for buoy

Date: The date of your visit to the site
Site name: The name of the specific site

Protected area?: If the site is not in a protected area (e.g., conservancy or park), check 'no'. If it is in a protected area, check 'yes'.

If yes, PA name: If the site is in a protected area, write in the name of the protected area

Location: The latitude and longitude and a short description of where the site is

Concerns?: If you have concerns about anything at the site, check 'yes'. If not, check 'no'.

If concerns, describe what you saw: If you have concerns, describe what you saw under the most appropriate heading (environmental, cultural, or facility). You can fill in more than one of the types of concerns and more than one concern for each type. Check the box if you took photos.

List actions taken: List any actions you took to address the specific concern listed in the box to the left.

Further action req?: If no further action is required to address the specific concern mentioned in that row, check 'no'. If further action is required, check 'yes' and list the actions that are required.

EULACHON SURVEY

There is a lot of concern about eulachon stocks on the coast and many of the runs are diminished or gone. Although DFO is not monitoring eulachon runs, some First Nations are currently sampling eulachon. Having standard information on all of the runs on the coast will allow communities to get a better picture of what is happening with the stocks and press for stronger protection for eulachon and their habitat.

The goal for the Regional Monitoring Strategy is for Guardian Watchmen from each community with an eulachon run to visit their eulachon rivers several times during the spawning season. On each trip to the river, you will record specific information on the "Eulachon Survey" field card. If your community has a more detailed sampling protocol, you will summarize the results of each trip to the river on the "Eulachon Survey" field card. The benefit of filling out a field card even if you are doing more detailed surveys is to contribute data to the coast-wide analysis.

In order to fill out the "Eulachon survey" field card, you will need to determine the status of the eulachon run. This can be done in a variety of ways, including just looking (visual scan), sampling with a gillnet, or doing a plankton tow. If there is a fishery, you can also determine the status of the run by estimating the amount of fish that has been caught. Finally, someone else in the community who has experience with eulachon fishing or monitoring might tell you about the status of the fishery (2nd hand report).

If you have been monitoring and/or fishing eulachon for several years, you will be able to determine the status of the eulachon run by comparing your current year data with data from previous years. If you have not monitored or fished eulachon on the river before, you will need to take someone with you who has. If there is not someone who has monitored or fished that specific river available, the next best choice would be someone who has monitored or fished a different eulachon river.

Eulachon Survey

Date	River	Water level	Eulachon status	Predators + #	Description/comments
Mar 12/10	Little Bear	☐flood ☐low ☐high ☐ice ☒med ☐other	☐none ☒average ☐very low ☐high ☐low ☐very high	☒gulls_100_ ☒eagles_12_ ☒seals_20_	Eulachon school went mid-way across river; sig. more than last year. Bob Gill (has stink pit) said run is
Time	Highest location:	River temp (°C)	Method of determining	☒sea lions_5_ ☒other: 12 Canada geese	best in 10 years, but was much higher before that
10:45 am	you: Rocky bend, w.p. 34 fish: Coll ck, w.p. 33	3	☒visual ☐fishery ☐gillnet ☒2nd hand ☐plankton tow		☒Photos
Fishery	Size of fish	# of camps	# of stink pits	Other small fish?	Comments on fishery
☐no ☒yes - continue	☒most small ☐most large ☐mixed		5	☒capelin ☐herring ☐other	Bob Gill said fish smaller than usual

Date: The date you visit the river

Time: The time you arrive at the river

River: The river you are surveying

Highest location: Beside 'you', write the latitude and longitude and/or a description of the highest location up the river that you surveyed. Beside 'fish', write the latitude and longitude and/or the highest location up the river that you found eulachon.

Water level: Check the box that best describes the water level in the river. If other, note the water level in the comments box.

River temp: The temperature of the water in the river in degrees Celsius

Eulachon status: Check the box that best represents the estimate of the numbers of eulachon in the river as compared to previous years

Method of determining: Check the box(es) indicating the method(s) you used to determine the eulachon status for the river

Predators + #: Check the box(es) beside the types of eulachon predators you see and write in an estimate of the number of each on the line beside it

Description/comments: Describe in more detail what you saw or did to determine the eulachon status and any other comments about what you see or hear from others. Check the box if you took any photos.

Fishery: If there is a fishery on the river, check 'yes' and continue filling in the data fields for this entry. If there is no fishery on the river, check 'no' and you do not need to record any more information for the entry.

Size of fish: Note if the fish are mostly small, mostly large, or a mixture of small and large

# of camps: The number of fishing camps on the river

# of stink pits: The number of stink pits on the river

Other small fish?: If there are other small fish being caught along with the eulachon, check the box beside the species. If 'other', note what type in the 'Comments on fishery' box to the right.

Comments of fishery: Write in any other notes about the fishery or what people said about the fishing

COMBINED SIGHTINGS

For those Guardian Watchmen who want to use fewer field cards and record all of their sightings—wildlife, boat, and trap—on one field card, there is a field card called "Wildlife, Boat, and Trap Sightings". These cards have fewer instructions on them and require the use of more codes, so it may take a little longer to get comfortable using them. If you decide to use the "Wildlife, Boat, and Trap Sightings" field cards for sightings, you will use an alternate Patrol Report that has the correct categories for field cards in the "No. of Sheets" on the front and a different set of "Codes and Instructions" on the back.

Wildlife, Boat, and Trap Sightings

Date + Time	Sight type (W,B,T)	Location + (Desc or lat/long) Fishing area	Species, boat, or trap type	Conf. level + Initials	# in group	Activities/ comments (W: behaviour, direction, sighting distance, condition) (B: activity, name, description) (T: name or # on floats)
May 17/10 09:17	T	Coho pass −131.0339355 51.95103664; FA2	CC		5	22114 □ Photo
July 7/10 14:22	B	Halfmoon Bay; WP 5; FA 4	T-S-p		2	Anchored; Adagio & Thistle; green, 30 ft & white, 40 ft □ Photo
Same	Same	Same	T-S-c		1	Ashore; Maple Leaf; white, 90 ft □ Photo
Same	Same	Same	CF-G		1	Anchored; "MJ"; VRN 22265 □ Photo
Same	Same	Same	T-K-p		4	Camping ashore □ Photo
Aug 1/10 10:43	B	Coho pass −131.0339355 51.95103664; FA2	SF-I		2	□ Photo
Same	Same	Same	SF-L		3	Bud`s Place □ Photo
Sep 9/10 18:20	W	Mouth Salmon R WP 5; FA 7	GB	C JK	3	Mother and two cubs feeding on chum; ND; 200m; healthy ☒ Photo

Date + Time: The date and time of the sighting

Sight type: The type of sighting. Enter 'W' for wildlife, 'B' for boat (not approached), and 'T' for trap. Do not count or enter information on approached tourist boats.

Location + Fishing area: The name and latitude and longitude of the place where the sighting occurred AND the fishing area in which it occurred (e.g., 1-10)

Species, boat, or trap type: Enter the code that describes the wildlife species, specific type of boat (e.g., broad category AND specific type), or type of trap. The codes are on the back of the alternate Patrol Report.

Conf. level + Initials: For wildlife, the initials of the person who identified the species of animal and their level of confidence in the species identification

 # in group: The number of animals, boats, or traps of the particular type identified in 'species, boat, or trap type'

Activities/comments:

For wildlife: list the behaviour (e.g., travelling, feeding, resting); direction of travel (if animals are non-directional, write 'N.D.'); your distance from the animal(s) during the sighting; the condition of the animal(s) (healthy, poor, dead); and any other details about the animal(s) (e.g., number of females, males, or juveniles; description of animals if you are not sure of species). Check the box if you took any photos.

For boats: list ONE activity for the boat(s) (e.g., travelling, fishing, crabbing, anchored, ashore, camping ashore, whale watching, wildlife viewing); the name of the boat, lodge, tourism company, or enforcement agency; the vessel registration number for commercial fishing boats; and the home port, hull colour, and/or approximate length for tourist boats. Write in any other comments and check the box if you took photos.

For traps: Write in the name or number on the floats and any other comments. Check the box if you took any photos.