15ᵗʰ International Geography Olympiad

Québec City, Canada

31 July – 6 August, 2018

FIELDWORK EXERCISE 1

TASK 1B

Student Number

1	5				

Fieldwork Site Context

The area you are in, Charlevoix, is remarkable both geographically and historically. Geographically, you are on the north shore of the St. Lawrence River, a key access point into Canada from the 1600s until today. The region was designated a World Biosphere Reserve by UNESCO in 1989. The area's elevation ranges from 0-1150m above mean sea level, and is characterized by rolling hills, Canadian Shield (old metamorphic bedrock), river ecosystems, estuarine tidal marshes and mud flats, mixed forest, boreal forest, and alpine tundra.

Key faunal species include beluga whale and blue whale, wolf, caribou, moose, and cougar.

Historically, this was one of the first areas settled in Canada. The economy was originally water-based (coastal navigation, fisheries). Today the economy is based on tourism and agro-forestry.

The diversity of land uses and the varied topography has resulted in an appealing landscape for artists. This area is famous as an arts community and celebrates and supports a unique and rich visual arts heritage. Recently the city of Baie-Saint-Paul adopted a policy aimed at promoting its rich heritage and setting guidelines for its cultural development. It also adopted and put into action a sustainable development policy. This series of initiatives earned it the title of Cultural Capital of Canada.

The City of Baie-Saint-Paul initiated a landscape plan this year. The goal of the plan is to identify local landscapes that are valued by the citizens, understand the landscape qualities that are appealing, and define specific goals and outcomes to ensure sustainable development of their landscapes. The first steps in developing the plan are:

1. Consultation with citizens through a survey
2. Development of an initial landscape plan

The City sent out a survey to the citizens asking them to identify:

1. their favourite landscapes
2. the landscapes which best represent the area
3. aspects of the landscape that are disliked

Today as part of the Fieldwork Test, you will explore two of these landscapes.

1. The Boisé du Quai (coastal area), deemed the most favourite area, and the third most representative of the area.
2. Downtown Baie-Saint-Paul, deemed the second favourite area, and was voted the most representative landscape of the area.

These two areas were also identified as important viewpoints in the area, indicating their uniqueness and value to citizens and tourists.

Location: Boisé du Quai

Time duration: 90 minutes total

Marks: 20

Instructions:

1. You will have 15 minutes to read the introduction to this exercise on **page 4 and read through the task entirely before starting**.
2. You will have 75 minutes to explore the area around Boisé du Quai indicated on **Map B1** and complete the tasks. You will have to move quickly, but be careful on the uneven terrain and be careful near the water.
3. Before beginning, ensure your student number is written on the top of every page.
4. Remember no phones are allowed, and you are to work on this exercise individually.
5. If you need any help please find one of the volunteers stationed around the site.
6. In an emergency, please see a volunteer and/or go to the Ecohouse near the buses or call Julie at 1(418) 575-9403 or Maxwell 1 (581) 984-6807.

Task 1B

Introduction:
The local landscape is very important to the citizens and to the tourists of Baie-Saint-Paul. The citizens have said:
- this area is their favourite landscape
- they love access to the river
- they want to both protect and develop this important landscape.

1. Explore the area, keeping within the area indicated on **Map B1** and answer the following questions:
   a. Identify, outline, and label on **MAP B1** the seven main **land cover/vegetation** types for the areas which are numbered on the map (consider both terrestrial and aquatic environments). Add these to **Table B1.**

   b. Complete the table below **(Table B1)** to describe:

      i. how each area is currently being used by people or wildlife
      ii. the value of the area to the environment or to people   (7 marks)

Table B1 Land cover and Land use

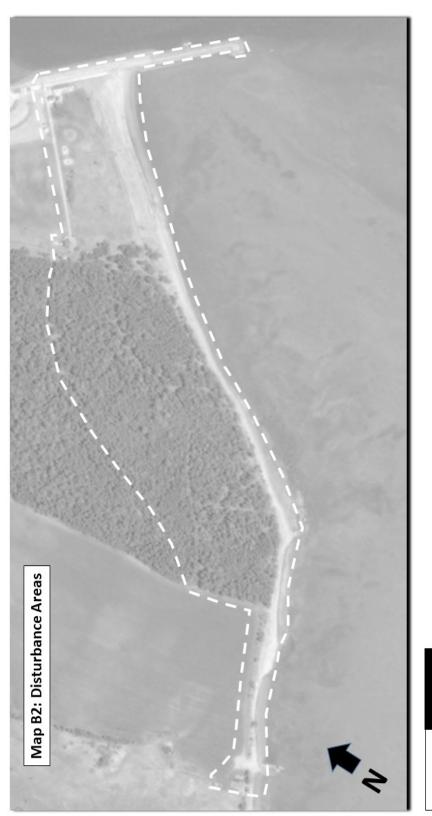| Area on Map B1	Land cover/ Vegetation type	Current land use or purpose (if any)	Value
eg.	*grass*	*School field*	*Human recreation*
1			
2			
3			
4			
5			
6			
7			

Map B1: Boisé du Quai

N

100m 200m

2. Observe any signs of damage or disturbance to this environment and answer the following questions:

i. On **Map B2** mark any areas of damage or disturbance to this environment. (2 marks)

ii. **Annotate** the map to describe what the damage is, **and** whether it is due to natural or human disturbance. (4 marks)

iii. **Identify and list** on **Table B2,** any natural conditions or human interventions that minimize erosion at this site. (2 marks)

Table B2 Natural conditions and human interventions that minimize erosion at this site

Natural	Human

Map B2: Disturbance Areas

N

100m   200m

3.

a. What evidence do you see that this area is an estuary? (2 marks)

i. _____

ii. _____

b. What marks the boundary between terrestrial and aquatic landscapes here? (1mark)

_____

c. Suggest reasons why a beach has formed at this location (2 mark)

_____

_____

_____

_____

_____

Hand in this booklet as you get back on the bus.

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