

**Community Stream Monitoring Survey:  
Resource Management Agency Survey**



Participant ID: \_\_\_\_\_

This is a voluntary survey being conducted by [My name] (Graduate student; Simon Fraser University) as part of her Master’s project, in collaboration with Fisheries and Oceans Canada (DFO), as part of their Community Stream Monitoring (CoSMo) pilot project. [Name of supervisor] and [Name of team member] are the primary DFO collaborators involved in the CoSMo project, and (if permitted by interviewees) will have access to interviewee responses. [My] work is supported by the Social Sciences and Humanities Research Council (SSHRC) of Canada, as well as DFO. You are not required to complete the survey and are free to change your mind or request that the answers you provide not be used at any time during or after completion of the survey, prior to the publication of [My] thesis. You also have the choice to be identified or remain anonymous in the written component of the thesis.

The purpose of these questions is to gather people’s opinions as to what facilitates or hinders successful collaborations between community groups and resource management agencies and what we should be monitoring, as well as to determine what collaborations are already occurring and how the data are gathered or managed. I will also be asking questions about how you/your resource management agency collects and manages data compared to how the group you collaborate with (if applicable) collects and manages data.

If you have any questions or concerns, please don’t hesitate to ask! Otherwise, please feel free to share as much (or as little) as you like. I sincerely appreciate you taking the time to share your thoughts, opinions, and suggestions.

**Questions**

1. In your opinion, what is necessary for a collaboration between a community group and a resource management agency to succeed?

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2. In your opinion, what prevents or hinders successful collaborations between community groups and resource management agencies? (i.e., why do some collaborations fail?)

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3. In your opinion, what are the main challenges when working with community groups?

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4. a) Rank which freshwater habitat factors/parameters you feel are most important to monitor, and explain why (1=most important, 5=least important).

- Factor: Stream discharge/ flow      Rank: ( )
- Factor: Dissolved oxygen      Rank: ( )
- Factor: Turbidity      Rank: ( )
- Factor: Stream temperature      Rank: ( )
- Factor: pH      Rank: ( )

b) Why do you feel each of these is important to monitor?

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5. Are there any additional factors/ parameters you feel are important to monitor in freshwater fish habitats? If so, briefly include why you feel these are important.

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6. In your opinion, what are the biggest threats to freshwater habitat in the Lower Mainland, British Columbia (or your region, if outside the Lower Mainland)?

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7. If you need current data on freshwater habitat parameters, where do you typically go to collect or access these data? (e.g., if you need flow data prior to developing near a river bank)

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8. a) Do you ever experience data gaps when searching for current freshwater ecosystem data?

- Always ( )
- Often ( )
- Occasionally ( )
- Never ( )

b) Can you provide an example of a type of data or environmental factor that is often lacking/ where you experience regular gaps? e.g., water flow data

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9. a) Have you worked/ collaborated with a community environmental steward group before?

- Yes ( )
- No ( )

b) Briefly describe the collaboration/ roles of each party (e.g. what data/information or resources are/were exchanged, and what benefits are/were gained from the collaboration):

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10. How frequently did/does communication with the stream steward group take place?

\_\_\_\_\_ times per **week/month/year** (circle one)

11. How long has the collaboration been maintained?

\_\_\_\_\_ **weeks/months/years** (circle one)

12. a) Would you describe this collaboration as successful?

- Yes ( )
- No ( )

b) Why?

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13. Do you/ your resource management agency have an official data-management plan/protocol? (e.g., describing the purpose of data collection, mandate, process of data collection, etc.)

- Yes, always
- Yes, sometimes
- No

14. When you/your resource management agency conduct fieldwork, how do you record data?

- By hand
- Digital
- Other  Please explain: \_\_\_\_\_

15. How does the community steward group you collaborate with record data?

- By hand
- Digital
- Other  Please explain: \_\_\_\_\_

16. How do you/ your resource management agency store data that you have collected via fieldwork?

- Personal computer or hard drives
- Online platform
- Other

If other, please explain:

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17. How does the community steward group you collaborate with store data they have collected via fieldwork?

- Personal computer or hard drives
- Online platform
- Other

If other, please explain:

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18. When you/your resource management agency conduct fieldwork, how do you typically analyze the data that you collect?

The data are not analyzed (i.e., the raw data are stored or entered into a data sheet, but nothing more)

The data get summarized (e.g. some figures are produced, or values of data added), but no statistical analysis is conducted

The data are statistically analyzed

19. How does the community steward group data typically get analyzed?

The data are not analyzed (i.e., the raw data are stored or entered into a data sheet, but nothing more)

The data get summarized (e.g., some figures are produced, or values of data added), but no statistical analysis is conducted

The data are statistically analyzed

20. If the data collected by community members whom you collaborated with are analyzed, who analyzes them?

Members of the community steward group analyze the data they collect

I/ my resource management agency analyze the data that the community volunteers collect

21. Do you/ your resource management agency share data that you collect with other people/ groups?

Yes

No

22. If yes, how do you/your RMA share data?

Raw data available online via a website

Raw data (e.g., hard/paper copies) is shared in person

Data are emailed to other people

Summarized data are available online via a website

The data are not shared

Other

If other, please explain:

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23. Does the community steward group you collaborate with share data with other people/ groups?

Yes ( )

No ( )

24. If yes, how do they share data?

Raw data available online via a website ( )

Raw data (e.g., hard/paper copies) is shared in person ( )

Data are emailed to other people ( )

Summarized data are available online via a website ( )

The data are not shared ( )

Other ( )

If other, please explain:

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25. Once you receive the data/information from the community steward group, what are they used for?

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26. a) Was fieldwork/ data collection training provided to the community steward volunteers?

Yes ( )

No ( )

b) If so, who trained the volunteers and how was training conducted? (In person, via email, etc.).

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27. a) In your opinion, is this method of training adequate?

Not at all adequate ( )

Somewhat adequate ( )

Adequate ( )

b) What training method/s do you feel are the most effective? Do you have any thoughts on the training process (e.g., what is needed to improve training)?

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28. a) Did you/ the community steward group you collaborate with encounter any challenges while monitoring/ collecting environmental data?

- Yes ( )
- No ( )

b) What were they?

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Were they mitigated/ resolved? And if so, how?

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29. a) Do you view data collected by trained volunteers the same as data collected by professional scientists?

- Yes ( )
- No ( )

b) If no, what, in your opinion, would need to occur in order to have volunteer data be viewed as comparable to professional data?

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30. In your opinion, what role does (or should) DFO play in community environmental stewardship collaborations?

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31. a) Are you familiar with the 2005 Wild Salmon Policy and the 2018 Wild Salmon Policy Implementation Plan?

Yes

No

b) If yes, in your opinion, what role should community environmental groups play in the activities mentioned in the Wild Salmon Policy Implementation Plan?

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32. In your opinion, what needs to be done to improve freshwater habitat monitoring collaborations between DFO Science, DFO Management, and community environmental steward groups?

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