

Fraser Salmon & Watersheds Program



2008 Final Report Template

FSWP File Number*	007350/FSWP 08 HPR D110
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*Please use the FSWP File Number provided in previous FSWP 2008 project correspondence

Contact Information					
Sponsoring Organization's Legal Name					
Musqueam Ecosystem Conservation Society					
Are you a federally registered Charity, Non-profit organization or Business (Yes /No)?					No
If yes, please indicate which.	<input type="checkbox"/>	Charity	<input type="checkbox"/>	Non-profit organization	<input type="checkbox"/>
Registration number				GST number	
Are you a registered Society (Yes / No)?	<input checked="" type="checkbox"/>	Yes	Society Registration number	S- 47923	
Mailing Address					
125A-1030 Denman Street, Vancouver, BC, V6G 2M6					
Street Address (if different from above)					
Project Manager¹					
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¹ All correspondence will be directed to the Project Manager.					
Alternate Project Contact					
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Partners / Subcontractors	
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Project Information					
Project Title					
Musqueam Creek Wild Salmon Habitat Stewardship & Restoration Project: <i>Hydrological Assessment Phase One</i>					
Project Location					
Musqueam Creek Watershed (North Arm of the Fraser River Tributary), Vancouver, BC					
Amount Requested	\$40,000	Total Project Value	\$41,640	Non-FSWP funds ²	\$1,640

² Non-FSWP funds include both cash and in-kind funding. In-kind funding refers to all non-cash contributions such as equipment, supplies, labour, etc. Please refer to Budget Section for further details.

Project Summary
<p>Please provide a single paragraph describing your project, its objective, and the results. As this summary will be used in program communications, clearly state the issue addressed and avoid overly technical descriptions. Do not use more than 300 words.</p> <p>Musqueam Creek is Vancouver’s last wild salmon stream supporting runs of wild Coho, Chum and Cutthroat Trout. Being wild the Musqueam Coho stock it is an important contributor to the health and biodiversity of Fraser River Pacific Salmon and an invaluable culture resource to the Musqueam Nation.</p> <p>However, the production of salmonids in this system is limit by low summer flows. Our Musqueam Creek Wild Salmon Habitat Stewardship & Restoration Project: <i>Hydrological Assessment Phase One</i> was designed to review and compile all available information on the hydrology and biology of the Musqueam/ Cutthroat Creek watershed and their salmonid populations.</p> <p>Through this report we collected and analyzed...</p> <ol style="list-style-type: none"> 1. Preliminary hydrological and geological data on the Musqueam and Cutthroat Creek stream channels.

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2. Hydrological and geological data on the UBC Endowment Lands, the UBC EL Ecological Zone #74 and the GVRD Pacific Spirit Park surficial aquifer.
3. Detailed Geographical Information Systems (GIS) data, Light Detection & Ranging (LIDar) remote sensing, and stream survey information for the entire Musqueam/ Cutthroat Creek watershed.
4. Traditional Ecological Knowledge (TEK) and historic records on the historic development of the watershed and its stream channels.
5. Historic biological data on fish production and water quality.

This report has provided us will a clearer picture of the hydrology of the Musqueam & Cutthroat Creek watershed highlighting a factors affecting the flow of water in this system. Further, this report has provided us with some preliminary recommendations for further study as well as, recommendations for potential restoration opportunities. (See attached Executive Summary for more details.)

OPTIONAL If your project lends itself to sparking interest through a compelling sound bite (for potential use in FSWP media communications), please tell us what that sound bite would be. Do not use more than 150 words.

Thanks to the support of the Fraser Salmon Watershed program the Musqueam Ecosystem Conservation Society has begun an analysis of the “State of the Musqueam Creek Watershed”, home to Vancouver’s last wild salmon stream. This report will help guide future restoration efforts to ensure that these important wild Coho, Chum and Cutthroat stocks are here for future generations.

Species and life stage(s) the project targets: please list

Coho Salmon, Chum Salmon, Cutthroat Trout- spawner, egg, alavin, fry, juvenile and smolt.

Watershed(s) the project targets: please list

Musqueam Creek Watershed, Fraser River Watershed

Project Deliverables and Results

- Paste in the deliverables outlined in your Detailed Proposal (question #3 under project ‘relevance and significance’ heading) into the table below. Then, please list the results associated with each deliverable.
- Please include copies of any relevant communications products (brochures, posters, videos, website addresses etc.) resulting from this project.

Deliverable	Result
Produce phase one a Draft Hydrological Assessment of the Musqueam/ Cutthroat Creek Watershed.	Produced a 41 page draft report on the hydrology and biological productivity of the Musqueam/ Cutthroat Creek watershed. (See attached document.)

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Distribute the draft report to partners and key agencies for analysis and recommendations.	Distributed the draft report to 24 partners from key agencies, organizations and the community. Preliminary comments have been incorporated into the report and we will continue to gather comments over the following months.
Summarize and prepare all mapping data for the production of a detailed GIS outreach map to be produced in Phase Two.	Gathered and analyzed important mapping data in preparation of a future detailed GIS outreach maps.

Project Effectiveness

Please evaluate the effectiveness of the project, using the objective standards, quantifiable criteria and/or quality control measures identified in your Detailed Proposal (under question #1 in the 'performance expectations' heading).

Below is an evaluation of our project effectiveness based on the criteria laid out in our detailed proposal...

1) Fiscal Responsibility

We conducted the research specified and develop a report within the specified budget. Given the tight timeline on the objectives laid out in this revised project proposal we provide accurately and timely reports to our project funders and partners.

2) Time Management

We completed the specified work plan by March 31, 2009 deadline. Project milestones were met.

3) Action Plan

We began development of an action plan that will focus and prioritize further study and potential habitat restoration efforts.

What are the top three lessons learned from this project that would be important to communicate to others doing similar work throughout the Basin?

Through this project we have discovered that although there where many different studies conducted on this watershed over the last 20 years these studies lacked a central focus or goal. Through this project the top three lessons we learned are...

- 1) Although conservation and restoration activities are often urgent and are seen as a priority before research, it is useful to collect at least some minimal base line hydrological, water quality and biological data every year or every other year

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- 2) Conveying your conservation goals as early as possible to local governments, universities, colleges and conservation partners can provide valuable in-kind resources and help coordinate their research efforts to assist with your conservation goals.
- 3) Having a team of scientists, local experts and Streamkeepers that have been continually involved in your project from its inceptions provides an important historical perspective and “brain trust” for your project.

Project Effectiveness

Please describe how your project has addressed each Priority Activity identified in your Detailed Proposal.

Priority Activity ¹	How the Priority Activity has been Addressed
<i>Habitat & Water Restoration and Stewardship</i>	<p>We began to identified the factors limiting the production of wild Coho salmon within Musqueam Creek; Vancouver’s last wild salmon stream and an important tributary of the Fraser River.</p> <p>By 1) developing suggestions for further study and potential restoration projects to address this issue, 2) building further capacity among our Musqueam Streamkeeper team, 3) coordinating a partnership project with the Musqueam Indian Band, the GVRD, the City of Vancouver and DFO.</p>

¹Please paste each priority activity identified in your Detailed Proposal in the space provided.

Further Comments

Please provide any further comments including recommendations for future conservation efforts and suggestions for helping partners to meet the goals of the Fraser Salmon and Watersheds Program. If your project produced a narrative or scientific report or additional project products (e.g. maps, photos), attach them as an appendix.

Please follow the web address below to download a draft copy of our State of the Watershed report. This is a draft report and is embargoed from distribution. If you would like to provide input or comment on this report or know of someone who would please contact our Executive Director Nicholas Scapillati at mecsinfo@mac.com.

<http://files.me.com/ecowalker/6vq7rg>

Submission Instructions

Please send your Final Report electronically to your designated FSWP Staff Contact. If you are uncertain who this person is or how to contact them, please contact Tiffany Pither, FSWP Administrator.