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Municipal Asset Management Program Application Form

FCM's Municipal Asset Management Program Application Form

IMPORTANT: Before filling out this application form, please read the Municipal Asset Management Program (MAMP) application guide, available on the FCM website.

Please save or download this form to your computer before completing it. If you see a dialog box requesting that you trust the links to FCM, please click "trust".

We encourage you to contact FCM before you submit your application. FCM advisors can help determine if your project is eligible, answer questions and help you prepare a successful application. Contact us at:

programs@fcm.ca

Tel.: 613-907-6208 or 1-877-997-9926

Part A: Applicant information

There are two eligible lead applicant categories:

- » Municipal governments (e.g. towns, cities, regions, districts, etc., and local boards thereof)
- » Quebec applicants must first submit their application through Quebec's Ministère des Affaires municipales et de l'Occupation du territoire (MAMOT). See details below.
- » Municipal partners applying in association with a municipal government

A municipal partner is one of the following entities:

- a. a municipally owned corporation
- b. a regional, provincial or territorial organization delivering municipal services
- c. an Indigenous community
 - » *Certain Indigenous communities require a shared service agreement with a municipal government related to infrastructure to be eligible. Contact FCM for additional details.*
- d. a not-for-profit organization with a focus on municipal services

Please note that private-sector entities are not eligible as municipal partners.



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1. Lead applicant information

Please select your organization type from the list below. If you are unsure, please review the [application guide](#), or contact FCM: email programs@fcm.ca or call 613-907-6208 or 1-877-997-9926.

- Municipal government (e.g. towns, cities, regions, districts, etc., and local boards thereof)

Municipal partner

- a municipally owned corporation
- a regional, provincial or territorial organization delivering municipal services
- an Indigenous community
 » *Certain Indigenous communities require a shared service agreement with a municipal government related to infrastructure to be eligible. Contact FCM for additional details.*
- a not-for-profit organization with a focus on municipal services
- Other Describe: _____

2. Lead applicant contact information

Organization name

Town of Gibsons

Mailing address

Address

474 South Fletcher Road

City

Gibsons

Province/territory

British Columbia

Postal code

V0N 1V0

Tel.

604-886-2274

Fax (optional)

(area) number

Lead applicant primary contact information

Salutation (optional)

Mr.

First name

Emanuel

Last name

Machado

Middle initial (optional)

Title

Chief Administrative Officer

Email

emachado@gibsons.ca

Tel. (work)

1 604 886 2274

Ext.

Cell (optional)

1 604 741 1092



3. Additional lead applicant information

The following demographic information will help FCM understand the reach and results of the Municipal Asset Management Program:

Lead applicant annual operating budget:	\$8,000,000.00
Number of administrative staff that manage the municipality or lead organization (e.g. senior administrators, finance, public works, planners and other administrative staff)	21 - 50

Part B: Self-assessment

Please complete a self-assessment using the [Asset Management Readiness Scale](#), available for download. The self-assessment should be reflective of your organization as a whole, and not a division or an asset class within the organization. Using the results of the self-assessment, fill in the Current State column in the table below.

5. Self-assessment summary – Current State

Competency	Current State <i>What are your current readiness levels?</i>	Notes <i>Three outcomes make up each level of the Asset Management Readiness Scale. Please provide notes that describe how you have achieved each of the three outcomes associated with your current level.</i>
Policy and governance	Level 3	
People and leadership	Level 4	
Data and information	Level 4	
Planning and decision making	Level 2	
Contribution to asset management practice	Level 2	

Part C: Project description

6. Working title

What is the project's working title? This title will be used publically to identify the project.

Ecological Accounting Process (EAP): Valuing the Worth of Ecological Services (Stage 2 Demonstration Applications)



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7. Description

Provide a high-level description of the activities you will complete within your project. Summarize what you will do and what the project will achieve in 100 words or less. If your application is accepted, this section will be used as the public description of your project.

The concept of natural capital and natural assets can be a challenge to integrate effectively into asset management practices. Local governments need "real numbers" to deliver outcomes and support decision making. EAP deals with a basic question: what is a creekshed WORTH, now and in future, to the community and various intervenors?

WORTH is defined as use by the community of a "package of ecological services" made possible by the hydrology. Ecological services are diverse, and provide environmental, social and traditional (core) services to the community via a natural asset – in this case, a creek/riparian area. Stage 1 tested the concept for leveraging the BC Assessment database to establish a financial value for the "Commons Asset" (the land comprising the stream corridor and riparian zone).

Stage 2 would refine the "valuation of worth" methodology (Stage 1) by further validating the EAP through pilots (demonstration applications) with four collaborating local governments, namely: Town of Gibsons, Capital Regional District, Regional District of Nanaimo, and District of North Vancouver.

NOTE TO REVIEWERS: Additional work is underway outside Stage 2 to understand the complementary nature of EAP and the Municipal Natural Asset Initiative (MNAI). The latter also involves the Town of Gibsons as a lead proponent. Stage 2 would therefore result in a greater understanding of the value of EAP, as well as the compatibility of both approaches / tools working together to create a total picture.

8. Activities and deliverables

What are the proposed activities that you want FCM to fund? Please identify one to three activities.

What deliverables do you plan to submit to FCM at the end of this project that will demonstrate you have completed the activities? Please identify **at least one** deliverable per activity.

Please see the [application guide](#) for additional guidance on the level of detail expected.

Activity	Deliverable
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<p>Please identify one to three asset management related activities.</p> <p>Examples:</p> <ul style="list-style-type: none"> » conduct a needs assessment » collect data on the condition of 200 km of roads » set up a cross-functional asset management committee » training for cross-functional team of managers » update job descriptions to include asset management responsibilities <p style="text-align: center;">Add</p>	<p>Please identify specific items you will send to FCM to demonstrate completion of each activity.</p> <p>Examples:</p> <ul style="list-style-type: none"> » needs assessment report » condition assessment report for 200 km of roads » asset management committee terms of reference and minutes from first two meetings » training attendance record and copy of training materials » updated job descriptions, and minutes from job description workshop with cross-functional team
<p>Remove 1.</p>	<p>DATA COLLECTION & REPORTING: Apply the EAP process to asset management concerns identified by each of four collaborating local governments (Gibsons, Capital Regional District, Nanaimo Regional District, and North Vancouver District)</p>
<p>Remove 2.</p>	<p>KNOWLEDGE TRANSFER: Prepare a summary report, titled "What We Learned, How to Apply the Findings", describing the results of the analyses for the four demonstration applications.</p>

Note: Please use these same activities to complete the workplan and budget template. In the workplan and budget template, you will be required to break each of these activities down into tasks.

9. Outcomes

Describe how your proposed activities will improve your asset management capacity and why these activities are the priority for your municipality at this time. How will these outcomes move you along the Asset Management Readiness Scale? List the specific outcomes in the scale that are likely to be achieved through your proposed activities.

In addition to the immediate outcomes, you can also describe the impact these activities will ultimately have on your municipality or community.

HOW PROJECT WILL IMPROVE ASSET MANAGEMENT CAPACITY: Ecological systems such as creeksheds are "infrastructure assets" that provide "water balance services" that in turn power "ecological services". In BC, this way of thinking is described as "Sustainable Watershed Systems, through Asset Management". The twin pillars are EAP ("social lens") and the Water Balance Methodology ("technical lens"). These pillars are interconnected. In Stage 2, the spotlight is on the EAP pillar.

EAP provides a methodology to assign a dollar value to the "stream corridor and riparian zone" (natural assets) so that a baseline annual budget for maintenance and management of this "Commons Asset" can be incorporated in asset management strategies and plans. Inclusion requires definition and measurement.



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Stage 1 tested how to leverage the BC Assessment database to value the Commons Asset. Stage 2 would refine the "valuation of worth" (value in use) methodology through demonstration applications (4) in Gibsons, Capital Regional District, Nanaimo Regional District, and North Vancouver District.

MOVING ALONG THE ASSET READINESS SCALE: Each demonstration would examine a concern that each collaborating local government has identified vis-a-vis a project where asset management needs refinement. The analysis would show how the technical and social dimensions are connected through the concept of the commons and the "package of ecological services" (made available by the subject creekshed or other ecological asset). This would help each collaborator defend or support strategic asset management decisions.

In all four jurisdictions, Stage 2 EAP outcomes would be expected to help advance competency in all five asset management "competencies", with emphasis in two categories: "Data & Information"; "Planning & Decision-Making". The biggest impact would be in "Contribution to Asset Management Practice" because the Stage 2 EAP outcomes encompass "staff development, sharing knowledge internally and participating in external knowledge sharing".

WHY THIS WORK IS A PRIORITY: Hydrology is the engine that powers ecological services. Impaired hydrology function results in a diminished package of ecological services. EAP defines natural assets as the hydrology of a creekshed and the ecological (water balance) services dependent on that hydrology.

View choices through the "worth lens" if the goal is to motivate communities to implement strategies that restore or protect creekshed function. Taking action depends on what a community thinks a creekshed is worth.

PREVIOUS APPLIED RESEARCH: In Stage 1, the EAP approach demonstrated a way to confirm the importance and value of ecological features (services and supporting hydrology) as community assets. Thus, managers, intervenors and the community can consider investment in management and maintenance of these ecological features, as well as the land harbouring them, in their asset management strategies and plans. This is the view of worth, value in use, and commitment of lands for related purposes.

EAP focuses on worth rather than personal and social perceptions of value (inherent, imputed, and assigned) or market value (value in exchange). Worth refers to likely returns for expenditures. The history of stakeholder initiatives is a measure of stakeholder understanding of ecological services and what they may be worth.

IMMEDIATE "DESIRED OUTCOME": In Stage 2, the EAP program has the goal of positioning local government practitioners and their collaborators to integrate natural asset values (worth of ecological services) into asset management strategies. The practicality of this approach would be illustrated through analyses of four demonstration applications of current importance to local governments.

Local governments need "real numbers" to deliver outcomes. EAP uses BC Assessment database as a proxy regarding land value to calculate the financial value of the Commons Asset.

ULTIMATE IMPACT: Implementation of a whole-system, water balance approach founded on the twin pillars of EAP and the Water Balance Methodology would enable local governments to avoid an unfunded liability, adapt to a changing climate, and reduce life-cycle costs for drainage infrastructure.



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Use the [Asset Management Readiness Scale](#) to identify your desired future state. Complete the Desired Future State column below to indicate your intended readiness levels at the end of the funded project.

Note: Progression in asset management practices takes time and ongoing effort. Your “desired future state” should reflect the levels you realistically anticipate reaching by the end of the project. In some cases, the asset management activities that are most important for you may not result in a full level change on the readiness scale. That is okay — all progress is important.

Tip: Once you identify your desired future state below, revisit the “Outcomes” text box above. Have you provided information about how your activities will help you achieve each of your “desired future state” levels?

Competency	Current State <i>This column will auto populate based on the readiness levels you identify in Part B.</i>	Desired Future State <i>What are your intended readiness levels at the end of this project?</i>
Policy and governance	Level 3	No change
People and leadership	Level 4	No change
Data and information	Level 4	No change
Planning and decision making	Level 2	Level 3
Contribution to asset management practice	Level 2	Level 3

10. Human resources

Describe the internal and external human resources who will complete the proposed activities.

- » Who will lead the project? Who will carry out project activities?
- » If you plan to hire external individuals or organizations to carry out project activities, please describe and, if possible, specifically identify them below.
- » Summarize the relevant experience of your proposed project team.

EAP is an initiative of the Partnership for Water Sustainability in British Columbia (PWSBC), a not-for-profit society that originated (in 2002) as an intergovernmental partnership. The Town of Gibsons is a member of PWSBC. Note that Stage 1 of the EAP program was funded by the governments of Canada and British Columbia under the aegis of the Clean Water & Wastewater Fund.

PWSBC will lead the project. The project activities comprising the Stage 2 workplan will be carried out by a 3-person team led by Tim Pringle (PWSBC Director & EAP Chair). He will be supported by David Huer (researcher) and Kim Stephens (PWSBC Executive Director).

There will be a minimum of one and typically two key contacts per local government, namely: Emanuel Machado, Town of Gibsons; Jody Watson & Natalie Bandringa, Capital Regional District (CRD); Randy Alexander & Julie Pisani, Regional District of Nanaimo (RDN); Richard Boase & Stephen Bridger, District of North Vancouver (DNV). In addition, key collaborators from the stewardship sector will be key resources - for example, Peter Law, President of the Mid-Vancouver Island Habitat Enhancement Society for the RDN demonstration application.



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PWSBC is the hub for a "convening for action" network in the local government setting; and develops approaches, tools and resources. PWSBC delivers the Water Sustainability Action Plan for BC through partnerships and collaboration. The program includes the Georgia Basin Inter-Regional Education Initiative (IREI). Gibsons, CRD, RDN and DNV are actively engaged in the IREI.

How to value the services provided by nature has been a career quest for Tim Pringle. He was the founding Executive Director for the Real Estate Foundation of BC. In 2010, he was the inaugural recipient of the BC Land Champion Award. EAP is Tim's vision. EAP is one of the twin pillars of "Sustainable Watershed Systems, through Asset Management".

For 15 years, Kim Stephens has been responsible for the Water Sustainability Action Plan program. His leadership role in a series of provincial initiatives includes "Stormwater Planning: A Guidebook for British Columbia". At the heart of the Guidebook is the Water Balance Methodology, which Kim developed. This is the other pillar of Sustainable Watershed Systems.

11. Fit with provincial or territorial approach

Describe how this project fits within the asset management approach being implemented within your province or territory.

Under the IREI umbrella, which involves five regional district partners representing 75% of BC's population, the implementation program for "Sustainable Watershed Systems, through Asset Management" is aligned with and supports the vision for "Asset Management for Sustainable Service Delivery: A BC Framework".

Asset management has traditionally been about hard engineered assets. Yet, creekshed systems are also "infrastructure assets". Hence, PWSBC is collaborating with Asset Management BC to "make real" the concept of the Asset Management Continuum.

Assessment Management BC is currently in the process of integrating Climate Change and Natural Assets into the Framework, with 'primers' specifically on both topics. The EAP project would support this updating by providing real-life application of how natural assets can be integrated into a local government's asset management practices.

Hydrologic integrity has emerged as a driver for "maintenance" (prevent degradation) and "management" (enhancement) of nature's water balance services in the same way that engineered assets (and services) are managed.

The continuum defines three steps or thresholds: Step One is embrace the BC Framework; Step 2 is implement Sustainable Service Delivery; and Step Three is apply EAP. It is a journey that takes time. As understanding grows, each local government would progress incrementally along the continuum.

The goal would be to build capacity within a local government to transition to Step 3. The ultimate outcome would be Sustainable Watershed Systems and thus a "water-resilient future".

12. Challenges and mitigations

What are the one to three most important risks or challenges that could impede the delivery of this project? How will you mitigate these challenges?



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Add	Challenge	Mitigation
	<p>The EAP approach is breaking new ground, introducing new ideas / approaches, and the nature of the analysis is outside the normal range of practitioner experience.</p> <p>Hence, it can be a challenge for project collaborators to intuitively grasp what the deliverables would look like. As a result, there is a learning process as collaborators assimilate a new way of thinking about natural assets.</p> <p>When collaborators have a diversity of backgrounds and experience, it is necessary for the project team to find the "right balance" to explain and report out on concepts and findings.</p>	<p>Be crystal clear. Use straightforward language that is readily understood. Establish and manage expectations. Under-promise and over-deliver.</p> <p>Explain concepts and findings in a clear and concise way that bridges perspectives in order to inform and educate a range of audiences - from stewardship sector to local government senior manager.</p> <p>Be patient.</p>

Part D: Required attachments

Please submit the following with your application

Supporting document	Comments and reference pages
A resolution from council, band council or board of directors, using the sample provided	
<input type="button" value="Attach File"/>	
A completed workplan and budget template	
<input type="button" value="Remove"/> 3b_MAMP_EAP_Workplan_Budget_Aug2018.xlsm	

Part E: Declaration and signature

Please review this declaration and have it executed by an authorized signatory of the applicant. This declaration confirms that: a) the Applicant understands and will abide by the Federation of Canadian Municipalities' ("FCM") requirements, including those related to funding; and b) the information provided in and appended to the application is accurate and complete.

I, Emanuel Machado, Chief Administrative Officer of Town of Gibsons (herein called the "**Applicant**"), hereby declare, without personal liability and in my capacity as Chief Administrative Officer of the Applicant, as follows:



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1. That the Applicant will not be able to receive funding from FCM prior to entering into a legally binding agreement with FCM (the "**Agreement**") in respect of the project being applied for (the "**Initiative**") and that the said Agreement will contain pre-conditions to funding, all of which the Applicant must comply with, including without limitation:
 - a. the Applicant having obtained all authorizations required to enter into the Agreement and carry out the Initiative;
 - b. the Applicant having obtained assignments of copyright and waivers of moral rights from any consultants or third-parties who have contributed or will contribute to reports prepared on the Applicant's behalf, such that the Applicant will hold the copyright in all reports related to the Initiative;
 - c. the Applicant providing reports and consenting to FCM sharing the lessons learned and experience gained from the Initiative with other communities across Canada by allowing FCM to publish reports, such as project completion and final reports, on the FCM website;
 - d. the Applicant having incurred costs in connection with the Initiative, which costs must be invoiced to and paid for by the Lead Applicant; and
 - e. the Applicant claiming reimbursement for in-kind costs only, all in accordance with FCM's restrictions regarding such claims.
2. That the Applicant will carry out the Initiative in compliance with all applicable laws and regulations.
3. That the Applicant will confirm to FCM all sources of funding prior to executing the Agreement.
4. That all of the information contained in this application and in the accompanying documents is true, accurate and complete as of the date of submission.
5. That if any of the information contained in this application and in the accompanying documents becomes inaccurate, incomplete or incorrect, the Applicant will provide updated information and/or accompanying documents.
6. That the Applicant acknowledges and agrees that changes in scope to the Initiative after this date of application may not be accepted by FCM.
7. If the Applicant has engaged or intends to engage (a) consultant(s) who will communicate with FCM on behalf of the Applicant, that the Applicant hereby confirms that the consultant(s) are authorized to do so.

Name of authorized agent: Partnership for Water Sustainability in BC (Attn: Kim Stephens)

Organization: Town of Gibsons

By typing my name above and submitting this application, I am providing my signature for the declaration above.



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Note: The information provided in this application, including all attachments, will be kept confidential. Access to this information will be limited to:

- » *FCM employees and professional representatives who are involved with your Initiative*
- » *persons to whom the applicant has granted access and persons authorized by law*

The information provided in applications, including attachments, is subject to FCM's Privacy Policy.

The system will highlight any incomplete questions

Review

Asset Management Planning Program

2018 Application Form

Updated April 2018

Please complete and return the application form by Friday, September 28, 2018. All questions are required to be answered by typing directly in this form. If you have any questions, contact lgps@ubcm.ca or (250) 356-2947.

SECTION 1: Applicant Information

Local Government: Town of Gibsons

Complete Mailing Address: Box 340 - 474
South Fletcher Road, Gibsons, BC, V0N 1V0

Contact Person: Emanuel Machado

Position: CAO

Phone: 604-886-2274

E-mail: emachado@gibsons.ca

SECTION 2: PROJECT INFORMATION

1. Project Information

A. Project Title: Ecological Accounting Process (EAP): Valuing the Worth of Ecological Services (Stage 2 Demonstration Applications)-----

NOTE THAT Stage 1 tested the concept and Stage 2 would refine the methodology by further validating the EAP through pilots with four collaborating local governments, namely Town of Gibsons, Capital Regional District, Regional District of Nanaimo and District of North Vancouver

B. Proposed start and end dates. Start: Nov 1 2018 End: Oct 31, 2019

C. Total project budget: \$99,000

D. Is this project also funded through FCM's Municipal Asset Management Program? Refer to Section 6 of the Program & Application Guide for more information.

Yes No

2. **Current Status of Asset Management Expertise** (based on self-assessment). Please select your current status and provide a description of current level of asset management expertise.

A. Beginner Intermediate Advanced

B. Description of current level of asset management expertise:

3. Proposed Activities. Please describe the specific activities you plan to undertake, i.e. baseline assessment, asset management policy, asset management plan, training, etc.

The concept of natural capital and natural assets can be a challenge to integrate effectively into asset management practices. Local governments need "real numbers" to deliver outcomes and support decision making. EAP deals with a basic question: what is a creekshed WORTH, now and in future, to the community and various intervenors?

WORTH is defined as use by the community of a "package of ecological services" made possible by the hydrology. Ecological services are diverse, and provide environmental, social and traditional (core) services to the community via a natural asset – in this case, a creek/riparian area.

NOTE THAT: A grant application has also been submitted to the FCM's Municipal Asset Management Program. The following two activities and associated deliverables are described in and brought forward from the FCM grant application.

ACTIVITY 1 - DATA COLLECTION & REPORTING: Apply the EAP process to asset management concerns identified by each of four collaborating local governments (Gibsons, Capital Regional District, Nanaimo Regional District, and North Vancouver District).

DELIVERABLES: In each case: 1) Define the package of ecological services; 2) Define the required commons asset area; 3) Calculate the worth of the package of ecological services; and, 4) Calculate the financial value of the land supporting the ecological assets.

ACTIVITY 2 - KNOWLEDGE TRANSFER: Prepare a summary report, titled "What We Learned, How to Apply the Findings", describing the results of the analyses for the four demonstration applications.

DELIVERABLES: Describe each of the four demonstration applications in a stand-alone chapter that provides a concise synthesis of the process and the outcomes.

4. Progress to Date. If you have previously received funding under the Asset Management Planning program, or through the Gas Tax Fund, please provide an update on the outcomes of those funded projects or a summary of progress to date.

5. Intended Outcomes, Deliverables & Impacts on Local Government. What will your project achieve? What will be the specific deliverables? List any policies, practices, plans or local government documents that will be developed or amended as a result of your project.

The following description of OUTCOMES is brought forward from the FCM grant application. The description of DELIVERABLES is included under Item #3 above.

HOW PROJECT WILL IMPROVE ASSET MANAGEMENT CAPACITY: Ecological systems such as creeksheds are "infrastructure assets" that provide "water balance services" that in turn power "ecological services". In BC, this way of thinking is described as "Sustainable Watershed Systems, through Asset Management". The twin pillars are EAP ("social lens") and the Water Balance Methodology ("technical lens"). These pillars are interconnected. In Stage 2, the spotlight is on the EAP pillar.

EAP provides a methodology to assign a dollar value to the "stream corridor and riparian zone" (natural assets) so that a baseline annual budget for maintenance and management of this "Commons Asset" can be incorporated in asset management strategies and plans. Inclusion requires definition and measurement.

Stage 1 tested how to leverage the BC Assessment database to value the Commons Asset. Stage 2 would refine the "valuation of worth" (value in use) methodology through demonstration applications (4) in Gibsons, Capital Regional District, Nanaimo Regional District, and North Vancouver District.

MOVING ALONG THE ASSET READINESS SCALE: Each demonstration would examine a concern that each collaborating local government has identified vis-a-vis a project where asset management needs refinement. The analysis would show how the technical and social dimensions are connected through the concept of the commons and the "package of ecological services" (made available by the subject creekshed or other ecological asset). This would help each collaborator defend or support strategic asset management decisions.

In all four jurisdictions, Stage 2 EAP outcomes would be expected to help advance competency in all five asset management "competencies" as listed in FCM's grant application, with emphasis in these two categories: "Data & Information"; "Planning & Decision-Making". The biggest impact would be in the "Contribution to Asset Management Practice" competency because the Stage 2 EAP outcomes encompass "staff development, sharing knowledge internally and participating in external knowledge sharing".

WHY THIS WORK IS A PRIORITY: Hydrology is the engine that powers ecological services. Impaired hydrology function results in a diminished package of ecological services. EAP defines natural assets as the hydrology of a creekshed and the ecological

(water balance) services dependent on that hydrology.

View choices through the "worth lens" if the goal is to motivate communities to implement strategies that restore or protect creekshed function. Taking action depends on what a community thinks a creekshed is worth.

PREVIOUS APPLIED RESEARCH: In Stage 1, the EAP approach demonstrated a way to confirm the importance and value of ecological features (services and supporting hydrology) as community assets. Thus, managers, intervenors and the community can consider investment in management and maintenance of these ecological features, as well as the land harbouring them, in their asset management strategies and plans. This is the view of worth, value in use, and commitment of lands for related purposes.

EAP focuses on worth rather than personal and social perceptions of value (inherent, imputed, and assigned) or market value (value in exchange). Worth refers to likely returns for expenditures. The history of stakeholder initiatives is a measure of stakeholder understanding of ecological services and what they may be worth.

IMMEDIATE "DESIRED OUTCOME": In Stage 2, the EAP program has the goal of positioning local government practitioners and their collaborators to integrate natural asset values (worth of ecological services) into asset management strategies. The practicality of this approach would be illustrated through analyses of four demonstration applications of current importance to local governments.

Local governments need "real numbers" to deliver outcomes. EAP uses BC Assessment database as a proxy regarding land value to calculate the financial value of the Commons Asset.

ULTIMATE IMPACT: Implementation of a whole-system, water balance approach founded on the twin pillars of EAP and the Water Balance Methodology would enable local governments to avoid an unfunded liability, adapt to a changing climate, and reduce life-cycle costs for drainage infrastructure.

6. Additional Information. Please share any other information you think may help support your submission.

The EAP program falls under the umbrella of the Georgia Basin Inter-Regional Education Initiative (IREI). Town of Gibsons, CRD, RDN and DNV are actively engaged in the IREI.

The following two topics are brought forward from the FCM application.

HOW EAP FITS WITH PROVINCIAL APPROACH:

Under the IREI umbrella, which involves five regional district partners representing 75% of BC's population, the implementation program for "Sustainable Watershed Systems, through Asset Management" is aligned with and supports the vision for "Asset Management for Sustainable Service Delivery: A BC Framework".

Asset management has traditionally been about hard engineered assets. Yet, creekshed systems are also "infrastructure assets". Hence, PWSBC is collaborating with Asset Management BC to "make real" the concept of the Asset Management Continuum.

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The continuum defines three steps or thresholds: Step One is embrace the BC Framework; Step 2 is implement Sustainable Service Delivery; and Step Three is apply EAP. It is a journey that takes time. As understanding grows, each local government would progress incrementally along the continuum.

The goal would be to build capacity within a local government to transition to Step 3. The ultimate outcome would be Sustainable Watershed Systems and thus a "water-resilient future".

THE TEAM:

EAP is an initiative of the Partnership for Water Sustainability in British Columbia (PWSBC), a not-for-profit society that originated (in 2002) as an intergovernmental partnership. The Town of Gibsons is a member of PWSBC. Note that Stage 1 of the EAP program was funded by the governments of Canada and British Columbia under the aegis of the Clean Water & Wastewater Fund.

PWSBC will lead the project. The project activities comprising the Stage 2 workplan will be carried out by a 3-person team led by Tim Pringle (PWSBC Director & EAP Chair). He will be supported by David Huer (researcher) and Kim Stephens (PWSBC Executive Director).

There will be a minimum of one and typically two key contacts per local government, namely: Emanuel Machado, Town of Gibsons; Jody Watson & Natalie Bandringa, Capital Regional District (CRD); Randy Alexander & Julie Pisani, Regional District of Nanaimo (RDN); Richard Boase & Stephen Bridger, District of North Vancouver (DNV). In addition, key collaborators from the stewardship sector will be key resources - for example, Peter Law, President of the Mid-Vancouver Island Habitat Enhancement

Society for the RDN demonstration application.

PWSBC is the hub for a "convening for action" network in the local government setting; and develops approaches, tools and resources. PWSBC delivers the Water Sustainability Action Plan for BC through partnerships and collaboration. The program includes the Georgia Basin Inter-Regional Education Initiative (IREI). CRD, RDN and DNV are actively engaged in the IREI.

How to value the services provided by nature has been a career quest for Tim Pringle. He was the founding Executive Director for the Real Estate Foundation of BC. In 2010, he was the inaugural recipient of the BC Land Champion Award. EAP is Tim's vision. EAP is one of the twin pillars of "Sustainable Watershed Systems, through Asset Management".

For 15 years, Kim Stephens has been responsible for the Water Sustainability Action Plan program. His leadership role in a series of provincial initiatives includes "Stormwater Planning: A Guidebook for British Columbia". At the heart of the Guidebook is the Water Balance Methodology, which Kim developed. This is the other pillar of Sustainable Watershed Systems.


SECTION 3: Required Attachments

Please submit the following with your application:

- Council/Board Resolution – Indicating local government support for the proposed project and a willingness to provide overall grant management
- Detailed budget
- For eligible projects that are also funded through FCM, the complete MAMP application package and notice of funding approval from FCM is also required to be submitted.

SECTION 4: Signature

Applications are required to be signed by an authorized representative of the applicant. Please note all application materials will be shared with the Province.

Name: Emanuel Machado	Title: CAO
Signature: 	Date: September 18, 2018

Workplan and Budget - MAMP Funding Offer						Instructions
Lead applicant:	TOWN OF GIBSONS BC					This is the legal name of your organization.
Project title:	ECOLOGICAL ACCOUNTING PROCESS - STAGE 2 DEMONSTRATION APPLICATIONS					This is the title describing your project in 10 words or less.
Activity	Start date	End date	Eligible cost (\$)	Ineligible cost (\$)	Total cost (\$)	
Data Collection and Reporting	01/11/2018	31/10/2019				Notes: Activities should match those in Section C of the Application Form. Project timeline may not exceed 11 months.
Apply the EAP process to asset management concerns identified by each of four collaborating local governments (Gibsons, Capital Regional District, Nanaimo Regional District, and North Van Dist)			\$59,000	\$28,000	\$87,000	Describe the steps that will be taken to complete the activity. Provide details broken down by major tasks needed to achieve the deliverables noted in the Application Form. Identify who will be doing the work.
NOTE THAT: In each case (demonstration application), there is a set of four deliverables:						
1) Define the package of ecological services						
2) Define the required commons asset area						
3) Calculate the worth of the package of ecological services						
4) Calculate the financial value of the land supporting the ecological assets						
Activity 1 Subtotals					\$87,000	
Knowledge Transfer	01/11/2018	31/10/2019				3 If you have only one activity, leave the remaining cells blank.
Prepare a summary report, titled "What We Learned, How to Apply the Findings". This deliverable would consolidate the results of the analyses for the four demonstration applications.			\$6,000	\$6,000	\$12,000	
NOTE: Describe each of the four demonstration applications in a stand-alone chapter that provides a concise synthesis of the process and the outcomes for each.						
Activity 2 Subtotals					\$12,000	
	01/11/2018	31/10/2019				
					\$0	
					\$0	
					\$0	
					\$0	
[Add task description here]					\$0	
Activity 3 Subtotals					\$0	
			Total costs	\$65,000	\$34,000	\$99,000
Total eligible costs					\$65,000	
NB: Click on the Calculate Budget button to round off all figures to the nearest \$100.						<input type="button" value="Calculate Budget"/>
Contingency costs: Have you included room for contingencies in some or all of your task costs? Please explain.						Contingency is not mandatory.
No contingency is included. Any additional time & effort to complete Stage 2 would simply increase the value of the In-Kind Contribution by PWSBC						
Other Notes:						
A global budget is shown above because the individual allocations by demonstration application are relatively small and range from \$11,000 to \$22,000.						

About the Partnership for Water Sustainability

The Partnership for Water Sustainability in BC is a legal entity, incorporated in 2010 as a not-for-profit society, and delivers services on behalf of government. It originated as an inter-governmental partnership, formed in 2002 to fund and develop the Water Balance Model as a web-based decision support tool.

*When the **Water Sustainability Action Plan for British Columbia (Action Plan)** was released in 2004, the Water Balance Model for BC was the centrepiece initiative. Action Plan experience informed development of **Living Water Smart, British Columbia's Water Plan**, released in 2008, as well as the parallel **Green Communities Initiative**.*

*The Partnership for Water Sustainability embraces shared responsibility, is the hub for a "convening for action" network in the local government setting, and is responsible for delivering the Action Plan program through partnerships and collaboration. This program includes the **Georgia Basin Inter-Regional Education Initiative (IREI)**.*

*The Partnership for Water Sustainability plays a bridging role between Province, local government and community; and is the steward for **Stormwater Planning: A Guidebook for British Columbia**, a provincial guidance document released in 2002.*

Regional Districts supporting the IREI



C.V.R.D.



Making a difference...together



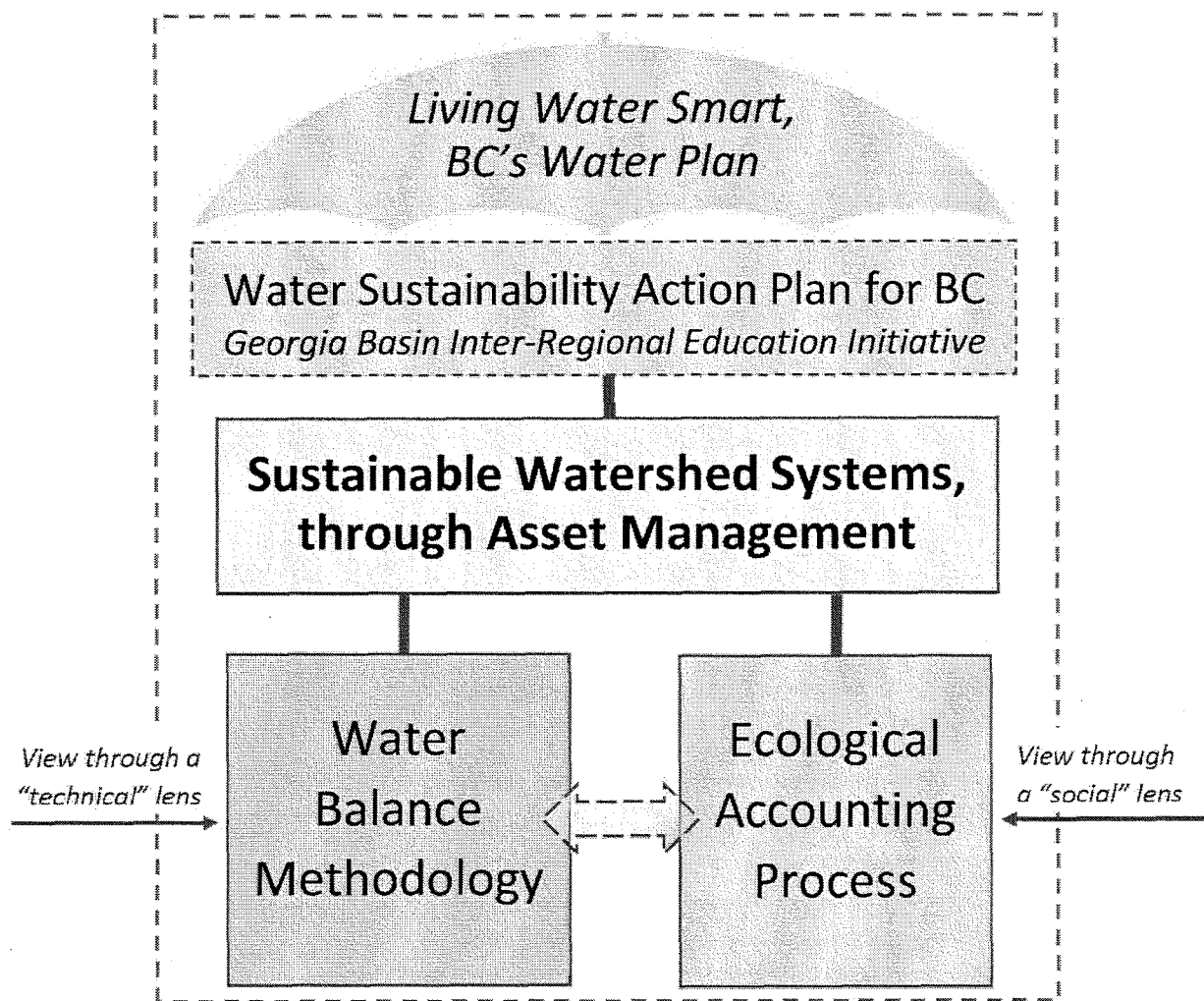
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The five Regional Boards have passed Resolutions endorsing the IREI and supporting the work of the Partnership in facilitating a sharing of experience under the IREI umbrella.

Educational Goal

Build practitioner capacity within local government to implement a whole-system, water balance approach branded as ***Sustainable Watershed Systems, through Asset Management***.

Inter-governmental collaboration and funding enable the Partnership to develop approaches, tools and resources; as well as provide teaching, training and mentoring.



The Twin Pillars of Sustainable Watershed Systems

Hydrology is the Engine that Powers Ecological Services