

**DEPARTMENT OF NATURAL RESOURCES**  
**SUPPORT OF RESILIENCE TO NATURAL DISASTER RISKS**  
**EARTHQUAKE EARLY WARNING**  
**AMENDMENT NO. ONE TO THE NON-REPAYABLE CONTRIBUTION AGREEMENT**

**THIS AMENDING AGREEMENT** is made in duplicate

**BETWEEN:**

**HIS MAJESTY THE KING IN RIGHT OF CANADA ("Canada")**,  
represented by the Minister of Natural Resources,

**AND:**

**CITY OF VICTORIA**, a municipal government continued under the Local Government Act (British Columbia) (the "**Proponent**").

**WHEREAS** Canada and the Proponent entered into a Contribution Agreement signed by Canada on 8<sup>th</sup> March 2023 and by the Proponent on 3<sup>rd</sup> March 2023 (the Agreement);

**WHEREAS** the Proponent is requesting an amendment to defer some **Tasks** and **Eligible Expenditures** to the final Fiscal Year of the Earthquake Early Warning Grants and Contributions Programme;

**AND WHEREAS** Canada and the Proponent wish to amend the Agreement;

**NOW, THEREFORE**, Canada and the Proponent agree as follows:

1. Article 6 of the Agreement is revoked and replaced by the following:

6. CONTRIBUTIONS

Paragraph 6.2 of the Agreement is revoked and replaced by the following:

6.2 The Fiscal Year allocations for the Contribution are as follows:

2023-2024 Three Hundred Fifty Five Thousand Dollars (\$355,000)

2. Schedule A is revoked and replaced by the attached Schedule A, Description of the Project.

3. Schedule B is revoked and replaced by the attached Schedule B, Budget and Eligible Expenses.

4. All other terms and conditions of the Agreement remain in full force and in effect.

5. This Amending Agreement comes into force when signed by the Parties.

**IN WITNESS WHEREOF** this Amending Agreement has been executed on behalf of **His Majesty the King in right of Canada** by an officer duly authorized by the Minister of Natural Resources and on behalf of the **Proponent**, by an officer duly authorized on its behalf.

**HIS MAJESTY THE KING IN RIGHT OF CANADA**

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jeff Labonté  
Assistant Deputy Minister  
Lands and Minerals Sector

**CITY OF VICTORIA**

\_\_\_\_\_  
Date

\_\_\_\_\_  
Curt Kingsley  
City Clerk

**SCHEDULE A**  
**To the Agreement between**  
**HIS MAJESTY THE KING IN RIGHT OF CANADA**  
**And**  
**CITY OF VICTORIA**  
**DESCRIPTION OF THE PROJECT**

<b>PROJECT TITLE:</b>	<b>Earthquake Early Warning Sensors in the Capital Regional District</b>															
<b>PROJECT OBJECTIVE:</b>	The objective of this Project is to enhance EEW coverage in areas of concern to the Proponent, improving warning times to these regions prior to the arrival of strong shaking from earthquakes, enabling protective actions to be taken by the Proponent's systems and staff.															
<b>PROJECT SUMMARY:</b>	<p>The Proponent will purchase, install, and operate equipment for EEW sensor stations at up to thirteen sites in the Capital Regional District at the following locations (each a "Project Site"):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRD Water HQ</td> <td style="width: 33%;">Sooke Dam</td> <td style="width: 33%;">Port Renfrew Firehall</td> </tr> <tr> <td>Humpback Reservoir</td> <td>Sooke Firehall</td> <td>Jordan River Dam</td> </tr> <tr> <td>Victoria Fire Hall No.1</td> <td>Saanich Firehall No.1</td> <td>Metchosin Fire Hall</td> </tr> <tr> <td>Victoria General Hospital</td> <td>Saanich Firehall No.3</td> <td>Royal Jubilee Hospital</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">Songhees Wellness Centre</td> </tr> </table> <p>The Proponent will install an EEW sensor station at a Project Site only if the Project Site is suitable.</p> <p>In order that the Proponent's equipment operate within the requirements of the national EEW system, extended network installations will:</p> <ol style="list-style-type: none"> <li>1. Use a seismic sensor of one of the following two model and manufacturer types: <ul style="list-style-type: none"> <li>o Titan SMA 17197, Nanometrics Incorporated</li> <li>o Fortimus, Güralp Systems Limited</li> </ul> </li> <li>2. Use a station controller based on a Xytronic ControlbyWeb X17s device; and</li> <li>3. Perform telecommunications and data security functions using one of the following: <ul style="list-style-type: none"> <li>o Redlion SixNET RAM-6021 Wired router,</li> <li>o Redlion SixNET SN-6921 Cellular router, or</li> <li>o an acceptable equivalent</li> </ul> </li> </ol>	CRD Water HQ	Sooke Dam	Port Renfrew Firehall	Humpback Reservoir	Sooke Firehall	Jordan River Dam	Victoria Fire Hall No.1	Saanich Firehall No.1	Metchosin Fire Hall	Victoria General Hospital	Saanich Firehall No.3	Royal Jubilee Hospital		Songhees Wellness Centre	
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<b>BENEFITS:</b>	<p><b>Benefits to Canada / Canadians:</b></p> <p>The Project will improve EEW coverage and, hence, alert times prior to the arrival of strong shaking from earthquakes in the region of southern Vancouver Island, allowing people more time to take protective actions, generally to Drop, Cover and Hold on.</p> <p>The Project will also provide shaking data that can be used in post-earthquake damage assessment and business resumption planning.</p> <p><b>Benefits to Stakeholders:</b></p> <p>The Project will enhance EEW coverage in coastal BC, improving warning times to the Proponent and other stakeholders in the region. Post-earthquake reports of shaking at the Project Sites will allow for damage assessment and business resumption planning. Additionally, for Project Sites that have automated EEW devices installed, this will enable protective actions to be completed more easily before the arrival of EEW alerts.</p>															

**PROJECT TASKS**

<b>Task No.</b>	<b>Task Name</b>	<b>Description</b>	<b>Outputs</b>
1	Plans  September 30, 2023	Under this task, the Proponent will: <ul style="list-style-type: none"> <li>• complete development of procurement plan,</li> <li>• acquire agreement with site owners, and</li> <li>• complete development of operational plan.</li> </ul>	<ul style="list-style-type: none"> <li>• Preparation of EEW sites (communications , etc.)</li> <li>• Procurement of EEW Equipment</li> <li>• Installation of EEW station equipment</li> </ul>
2	Communications Equipment  December 31, 2023	Under this task, the Proponent will install site communications equipment.	
3	Equipment procurement and installation  March 31, 2024	Under this task, the Proponent will acquire and install EEW system equipment at the thirteen sites identified	

**PERFORMANCE INFORMATION:**

<b>Key Performance Indicators:</b>
<b>1. Equipment: number of EEW sensors, power managers, and peripherals (cables, etc.) acquired</b>
<b>2. Installation: number of complete EEW sensor stations installed and operating</b>

**SCHEDULE B**  
**To the Agreement between**  
**HIS MAJESTY THE KING IN RIGHT OF CANADA**  
**And**  
**CITY OF VICTORIA**  
**BUDGET AND ELIGIBLE EXPENDITURES**

1. Subject to the limitations set out in Article 6 (Contributions), Eligible Expenditures shall be associated with the execution of the various activities as described in Schedule A (Description of the Project).

<b>Approved Budget</b>			
<b>Tasks</b>	<b>2022-23</b>	<b>2023-24</b>	<b>Total</b>
<b>Tasks 1&amp;2: Plans &amp; Communications</b>	\$ 12,500	\$ 34,500	\$ 47,000
<b>Task 3: Equipment Procurement and installation</b>	\$ -	\$ 355,000	\$ 355,000
<b>Total Contribution (NRCan)</b>	\$ -	\$ 355,000	\$ 355,000
<b>Total Collaboration</b>	\$ 19,506	\$ 12,811	\$ 32,317
<b>Other Contributors</b>	\$ 12,500	\$ 34,500	\$ 47,000
<b>Total Project Costs</b>	\$ 32,006	\$ 402,311	\$ 434,317

<b>Source of Contributions:</b>	<b>Percentage (%)</b>	<b>Cash</b>	<b>Non-monetary</b>	<b>In-kind</b>	<b>Total</b>
Canada (NRCan)	82%	\$ 355,000	\$ -	N/A	\$ 355,000
Collaboration	7%	\$ -	\$ 32,317	\$ -	\$ 32,317
The Proponent	11%	\$ -	\$ -	\$ 47,000	\$ 47,000
<b>TOTAL</b>	<b>100%</b>	<b>\$ 355,000</b>	<b>\$ 32,317</b>	<b>\$ 47,000</b>	<b>\$ 434,317</b>

**2. Eligible Expenditures:**

Eligible Expenditures shall be directly related to the Project, and necessary for the implementation and conduct of the Project, and will include:

- Capital expenditures such as the purchase of equipment, materials, and products, including seismic sensors, power supplies, communications infrastructure and equipment, and diagnostic and testing tools and instruments to ensure national interoperability of the EEW system.
- Professional, scientific, technical and contracting services;
- Travel expenditures, including meals and accommodation;
- Laboratory and field supplies, and materials;

- Informatics software and hardware;
- Communication tools and services;
- Data collection services, including processing, analysis, and management;
- Materials, supplies and equipment, and room costs for events and training workshops;
- Salaries and benefits for employees on the payroll of the Proponent for the actual time spent by the employees on the Project; and
- Overhead expenditures.

NOTE: the following limitations apply to the approved budget above:

1. In accordance with the departmental GST/PST/HST certification form, the reimbursable Provincial Sales Tax, the Goods and Services Tax and Harmonized Sales Tax costs must be net of any tax rebate to which the Proponent is entitled.
2. In-kind costs are those contributions of goods or services provided by the Proponent or other contributors that are considered towards Total Project Costs; they are not Eligible Expenditures, however.
3. Overhead expenditures related to the conduct of the Project to a maximum of fifteen (15) percent the Contribution. Overhead expenditures include:
  - a. Routine laboratory and field equipment maintenance, based on the actual expenditure,
  - b. Heat, hydro, and office operating costs (e.g., faxes, telephone), and
  - c. Financial and accounting services.
4. Travel expenditures, including meals and accommodations are to be based on National Joint Council Rates.
5. "Other expenses" include:
  - a. Laboratory and field supplies, and materials;
  - b. Informatics software and hardware;
  - c. Communication tools and services;