

CONSULTANT: Cascadia Consulting Group, Inc.  
CONTACT PERSON: Andrea Martin  
ADDRESS: 1109 First Avenue, Suite 400  
Seattle, WA 98101  
FEDERAL TAX ID NUMBER/U.B.I. NUMBER: 91-1589555 / 601 448 948  
TELEPHONE/FAX NUMBER: 206-449-1112 / 206-343-9819  
COUNTY DEPT: Public Works  
DEPT. CONTACT PERSON: Manuela Winter, Special Projects Coordinator  
TELEPHONE/FAX NUMBER: 425-388-3927 / 425-388-6449  
PROJECT: Understanding & Planning for Climate  
Change Impacts  
AMOUNT: \$87,134.12  
FUND SOURCE: 102 50610134109  
CONTRACT DURATION: Execution through December 31, 2021

**AGREEMENT FOR PROFESSIONAL SERVICES – AMENDMENT NO.10**  
**AGREEMENT NO. CC05-15**

THIS AMENDMENT NO. 10 to that certain Agreement for Professional Services (the “Agreement”) dated April 15, 2015, as amended by Amendment No.1 on September 21, 2015, Amendment No.2 on November 30, 2015, Amendment No.3 on February 18, 2016, Amendment No.4 on August 9, 2016, Amendment No.5 on December 19, 2016, and Amendment No. 6 on March 29, 2017, Amendment No. 7 on April 6, 2017, Amendment No. 8 on March 19, 2018 and Amendment No. 9 on December 11, 2018, is made by and between Snohomish County, a political subdivision of the State of Washington (the “County”) and CASCADIA CONSULTING GROUP, INC., a Washington corporation (the “Consultant”).

NOW THEREFORE, for and in consideration of the benefits conferred on both parties and the mutual promises set forth below, the parties agree that the Agreement be amended as follows:

1. Schedule A-3, attached hereto and incorporated by this reference, is added to Section 1 of the original Agreement as additional work to be performed under the Scope of Services.
2. Section 2 of the Agreement is deleted and amended as follows:

**Term of Agreement; Time of Performance.** This Agreement shall be effective upon execution (the “Effective Date”) and shall terminate on December 31, 2021. The Consultant shall commence work upon the Effective Date and shall complete the

work required by this Agreement no later than December 31, 2021, PROVIDED, HOWEVER, that the County's obligations after December 31, 2019, are contingent upon local legislative appropriation of necessary funds for this specific purpose in accordance with the County Charter and applicable law.


3. Schedule B-1c, attached hereto and incorporated herein by this reference, is added to Section 3(a) as additional compensation for the additional work to be performed under Schedule A-2 of the amended Agreement.
4. Section 3(f) of the original Agreement is deleted and amended as follows:

Contract Maximum. Total charges under this Agreement, all fees and expenses included, shall not exceed \$87,134.12 for the term of this Agreement (excluding extensions or renewals, if any).


Except as expressly provided in this Amendment No.10, all terms and conditions of the Agreement, shall remain in full force and effect.

SNOHOMISH COUNTY:

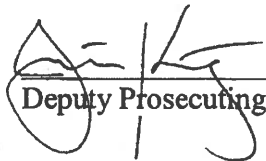
**KEN KLEIN**  
Executive Director

  
\_\_\_\_\_  
County Executive  
12/12/19  
\_\_\_\_\_  
Date

CASCADIA CONSULTING GROUP, INC.:

  
\_\_\_\_\_  
Name  
Christy Shelton, Principal  
\_\_\_\_\_  
Title  
9/12/2019  
\_\_\_\_\_  
Date

Approved as to form only:

  
\_\_\_\_\_  
Deputy Prosecuting Attorney  
9/10/19  
\_\_\_\_\_  
Date

COUNCIL USE ONLY	
Approved:	DEC 11 2019
Docfile:	D-1

Schedule A-3  
Supplemental Scope of Services

**Introduction**

In early 2017, Cascadia Consulting Group (“Cascadia”) in collaboration with the University of Washington Climate Impacts Group (UW CIG) disseminated a Climate Impacts Decision Support Tool (CIMPACT-DST, or “Climate Tool”) to Snohomish County staff. Customized by Cascadia specifically for Snohomish County, the Climate Tool supports County staff decision making around climate change impacts and resilience, with a focus on transportation planning, surface water infrastructure, and habitat restoration Public Works projects.

The scope of work described below supports needed maintenance to keep the Climate Tool up-to-date and useful for Public Works staff. These updates will ensure that Public Works staff have access to the latest local information on anticipated climate impacts and response options.

**Scope of Work**

The scope of work includes the following tasks:

1. Assist County Staff to Update Tool with New Climate Impacts Information
2. Assist County Staff to Update Tool with New Guidance Information
3. Improve Tool Usability

**Task 1: Assist County Staff to Update Tool with New Climate Impacts Information**

Cascadia will update the Climate Tool to reflect the latest climate impacts information relevant to Snohomish County. Updates, which will be confirmed in writing with Snohomish County staff, may include the following:

- Updated sea level rise projections from the 2018 *Projected Sea Level Rise for Washington State* report.<sup>1</sup>
- Modeling outputs from King County’s recent work on modeling future extreme precipitation events to inform stormwater and wastewater management.<sup>2</sup>
- Updated flooding projections for river basins in Snohomish County, such as those currently being developed within the Coastal Resilience/Floodplains by Design (FbD) interface in collaboration with Snohomish Conservation District.<sup>3</sup> The update could also include forthcoming flood projections for Snohomish County river basins, scoped for development over the next 1-2 years by Public Works Surface Water Management Division in coordination with the University of Washington Climate Impacts Group.

These updates will include coordinating with Snohomish County GIS staff and other designated staff to integrate spatial information into the current Public Works GIS data system. It also includes updating all corresponding Tool guidance documents, including the User Guide and Climate Map Data Summary document.

**Task 2: Assist County Staff to Update Tool with New Guidance Information**

Cascadia will assist County staff to update the Climate Tool with new guidance information specific to the following project types:

- Habitat restoration
- Transportation planning
- Surface water management

Cascadia will work with Snohomish County staff to identify newly available guidance information that

<sup>1</sup> <http://www.wacoastalnetwork.com/files/theme/wcrp/SLR-Report-Miller-et-al-2018.pdf>

<sup>2</sup> <https://cig.uw.edu/news-and-events/publications/new-projections-of-changing-heavy-precipitation-in-king-county/>

<sup>3</sup> <https://maps.coastalresilience.org/washington/>

could support staff in increasing the resilience of Public Works projects. Potential guidance documents include the following:

- Climate scaling factors used by Seattle Public Utilities in sizing new stormwater infrastructure.
- Updated design specifications developed by King County stormwater and wastewater departments for use in new projects and retrofits.
- Resilience-building project features employed in other regions, such as from Resilient by Design projects in the San Francisco Bay Area.<sup>4</sup>
- Other national and international documents that have up-to-date, relevant guidance that is identified by Cascadia and Snohomish County staff.

### **Task 3: Improve Tool Usability**

Cascadia will improve the functionality of the Climate Tool to make it more useful and streamlined by Public Works staff. Improvements—which will be identified by Climate Tool users and confirmed with Snohomish County staff—could include the following updates:

- Combining outputs into one comprehensive reporting page for printing.
- Eliminating redundancy in tool guidance information outputs.
- Updating Tool pop-up windows, help buttons, and other interactive Tool features to improve usability.

---

<sup>4</sup> <http://www.resilientbayarea.org/>

Schedule B-1c  
Compensation – Supplemental Budget

	<i>Staff Name</i>	Andrea Martin	Emily Wright	<b>TASK LABOR</b>	<b>TASK EXPENSES</b>	<b>TASK TOTAL</b>
	<i>Staff Title</i>	Senior Associate 3	Associate II			
	<i>Rate</i>	\$163.32	\$98.15			
<b>Task #</b>	<b>Task Name</b>					
1	Assist with County Staff to Update Tool with New Climate Impacts Information	40	80	\$ 14,384.80	\$ 69.60	\$ 14,454.40
2	Assist with County Staff to Update Tool with New Guidance Information	12	32	\$ 5,100.64	\$ 69.60	\$ 5,170.24
3	Improve Tool Usability	24	48	\$ 8,630.88	\$ 69.60	\$ 8,700.48
	<i>Total Hours</i>	76	160	\$ 28,116.32	\$ 208.80	\$ 28,325.12
				<b>Total Labor: \$ 28,116.32</b>		
				<b>Total Expenses: \$ 208.80</b>		
				<b>Task Order Total: \$ 28,325.12</b>		

