

ATTACHMENT I:
PROJECT SCOPE OF WORK

2023 Wellhead 106 Grant Program

Project Title: Long term Water Supplye- Hegewald Well Quantity & Quality Assessment

PURPOSE:

The purpose of this grant is to fund a comprehensive assessment of water quality and quantity in an existing source of groundwater for the City of Stevenson to evaluate its potential to convert from a seasonal source to a permanent source, from providing an alternative to the City's surface water sources of drinking water.

Background/General Information:

-The City of Stevenson has generally observed a decline in availability of clean water from our established surface water sources (Labong and Rock Creeks). As part of a larger planning effort to ensure adequate drinking water to our small community in the Columbia River Gorge, the Hegewald Well Quantity and Quality Assessment Project would provide valuable information regarding our existing groundwater source, Hegewald Well. This information, most specifically, will determine whether the well is sufficient to act as our community's primary water source.

The City of Stevenson is working with Greyling-Grayling Engineers on the larger analysis of the City of Stevenson water supply. Greyling-Grayling has identified Aspect Consulting to provide water quantity and quality assessment of the Hegewald Well water supply, as well as condition assessment of the well itself.

Aspect will complete the tasks and deliverables provided in the next section, per the timeline outlined in the Schedule and Budget Attachment at the estimated price. Data from these analyses will confirm whether the Hegewald Well may be used as a primary water source, whether any modifications to the well infrastructure or treatment is required and describe the wellhead protection area using analytical methods rather than the calculated, fixed radius method.

The Office of Drinking Water (ODW) administers the Source Water Protection (SWP) Program to prevent, reduce and eliminate pollution and to encourage practices that ensure a reliable supply of groundwater. Through grants provided by the 106 Ground Water/Wellhead Protection allocation from EPA, ODW administers funding for projects that address both water quality and quantity concerns, working with regional partners to better understand activities and policies that influence water quality and quantity changes.

This project meets the SFY22-23 Source Water Protection program essential elements as well as Goal 5 of the 22-26 EPA Strategic Plan by ensuring safe drinking water and reliable infrastructure, as well as emphasizing partnerships to address water quality challenges.

Funding for this project will not be used for any construction or ground disturbing activities.

Contract Administration:

Deliverables:

1. Submit quarterly reports via e-mail that include a brief status summary of progress and achievements. Quarterly reports must be submitted December 22, 2023 and March 31, 2024.
2. Submit quarterly reimbursement requests with supporting invoices along with A19 form. Payment will be issued by DOH upon receipt and approval of the quarterly reports. Invoices and reports submitted via e-mail to: Nikki Guillot at nikki.guillot@doh.wa.gov
3. Provide an updated action plan by March 15, 2024 that indicates any added or changed components, schedule revision and status of deliverables.

The project's scope of work is comprised of the following activities:

TASK/ACTIVITY:	DELIVERABLES:	ESTIMATED DUE DATE/COST:
<p>Task 1: Well assessment and desktop analysis: Review background documentation related to Hegewald well including pump and motor information, pump curves, pumping test records, operational and maintenance records, and water quality data. This task includes instrumentation of the well with a pressure transducer datalogger for continuous monitoring of water level trends.</p> <p>Include a Aspect will oversee a 4-hour step-rate test and a 24-hour constant rate draw down/stress test, video assessment to determine well casing Condition, and historic records review to identify any other concerns to be further evaluated related to pumps, operations, quality, and quantity.</p> <p>Any pump test will be conducted in accordance with Appendix E of the Water System Design Manual. A pump test plan will be submitted to DOH for review prior to work being conducted.</p>	<p>Final report assessment and analysis</p>	<p>Within 1 year of contract execution \$15,500</p>
<p>Task 2: Water Quality Sampling: Conduct testing for potential clogging precipitation from biological and chemical hazards not identified as part of standard compliance testing, as well as quarterly testing for seasonal variation in</p>	<p>Final report of findings</p>	<p>Within 1 year of contract execution \$5,000</p>

<p>hardness, iron, manganese, silica, chloride, sulfate, and dissolved solids. No data will be collected before a Quality Assurance Project Plan is submitted and approved by EPA.</p>		
<p>Task 3: <u>Water Quality Sampling Well Capture Zone Delineation</u>: <u>Aspect will analyze results of pumping test and u</u> Utilize the analytical method to determine a more accurate wellhead protection area to be integrated into the wellhead protection program.</p>	<p>Final report of findings</p>	<p>Within 1 year of contract execution \$5,000</p>
<p>Administration The quarterly progress reports should document project accomplishments, existing and potential problem areas, suggestions for improvements, and any desired outcomes achieved. Reports are a few paragraphs long with sufficient detail for DOH to understand the relative progress of the project since the last reporting period. The last quarterly report serves as the final report and should include summary information about the project.</p>	<p>Submit quarterly reports to Nikki Guillot.</p>	<p>\$2,000 Quarterly reports due the last working day of each quarter</p>
<p>PAYMENT:</p>	<p>DOH will provide reimbursement to City of Stevenson based on approval of quarterly reports and required deliverables. City will provide an hourly accounting of time spent for each task in support of invoice.</p> <p>The contractor is responsible for tracking all project expenditures as related to this contract, and for maintaining these records.</p> <p>DOH will withhold 10 percent of the total funding amount (\$2,700) until the project is successfully completed and all deliverables are received and approved by DOH.</p>	
<p>Total Consideration for this contract not to exceed:</p>		<p>\$27,500</p>

The project will be considered complete when all the activities identified in the above scope of work are complete.

Project End Date: 06/30/2024 All deliverables need to be submitted by 5/30/2024 for review and approval. Work performed after 06/30/2024 is not eligible for reimbursement.