



## SUMMARY REPORT

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**Agenda Date:** 6/2/2020

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**To:** Board of Directors, Sonoma County Water Agency  
**Department or Agency Name(s):** Sonoma County Water Agency  
**Staff Name and Phone Number:** Susan Haydon / 707-547-1937  
**Vote Requirement:** Majority  
**Supervisory District(s):** Second

**Title:**

Stormwater Management Suitability Analysis

**Recommended Action:**

In an ongoing effort to manage surface and groundwater supplies, authorize Sonoma County Water Agency's General Manager to execute an agreement with The Regents of the University of California for implementation of the site evaluation tool developed under a previous agreement for stormwater management and recharge projects through December 31, 2022, in the not-to-exceed amount of \$60,000 and, consistent with other agreements, authorize Sonoma County Water Agency's General Manager to amend or terminate this agreement with approval of County Counsel.

**Executive Summary:**

The University of California Berkeley's Center for Resource Efficient Communities (UC Berkley) will deploy the GIS-based method that was developed under a previous agreement for site selection to identify suitable stormwater management projects in the Upper Petaluma River Watershed (Watershed). Conducting this study will allow important non-engineering factors to be considered in tandem with traditional engineering feasibility already underway in other flood modelling and studies in the Watershed. The cost of services will not exceed \$60,000; the term end date is December 31, 2022.

**Discussion:**

**HISTORY OF ITEM/BACKGROUND**

Sonoma County Water Agency (Sonoma Water) is actively participating in the Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt) program as an industry partner with other academics, planners, municipalities, economists, and ecologists. ReNUWIt is an interdisciplinary, multi-institution research program (involving U.C Berkeley, Stanford University, Colorado School of Mines, and New Mexico Institute of Mining and Technology) whose goal is to develop innovative approaches to address the problems facing urban water systems.

Previous studies commissioned by Sonoma Water have identified potential locations within the Upper Petaluma, Sonoma Valley, and Laguna/Mark West watersheds for installation of stormwater collection and groundwater recharge facilities, based upon the location of flood prone areas, probable recharge zones, and other physical and ecological criteria.

Under the previous agreement, UC Berkeley created a novel site-evaluation tool for such projects, which

incorporated non-technical factors such as site-specific regulatory and land use constraints, land assembly challenges, neighborhood objections, site access limitations, public health issues, and liability concerns. This spatial tool allows important non-engineering factors to be considered earlier in the site suitability analysis process, rather than being considered only at the end of that process. This developed tool will be applied for use in a watershed and community setting to aid in determining siting and feasibility for managing stormwater and identifying multiple benefit projects, focused in the Watershed. This work directly supports ongoing flood modeling and engineering feasibility work underway through the Upper Petaluma Flood Control Project and provides cohesive and integrated siting and feasibility. The analysis, evaluation process, and community engagement program associated with the Petaluma community created under this agreement, provides a template and replicable example that can be used in any watershed.

Conducting this study will allow important non-engineering factors to be considered in tandem with traditional engineering feasibility already underway to identify suitable stormwater management projects in the Watershed.

#### SERVICES TO BE PERFORMED

Under the proposed agreement, UC Berkeley will deploy the GIS-based method for site selection that was developed under the previous agreement; select which stormwater management technology to use in the Watershed study area; assemble spatial data for the study; select stakeholders to participate in the study; prepare imagery (either new or existing, depending on the technology selected); collect and process stakeholder input; conduct spatial multi-criteria analysis; and prepare a report and presentation on the findings of the study.

The cost of services will not exceed \$60,000; the term end date is December 31, 2022.

#### REQUEST FOR SONOMA WATER GENERAL MANAGER AMENDMENT AND TERMINATION AUTHORITY

Changes to lengthen time schedules or make minor modifications to the scope of work, which do not increase the amount paid under the Agreement, may be executed by Sonoma County Water Agency's General Manager in a form approved by County Counsel.

*Authority to Terminate:* Sonoma Water's right to terminate may be exercised by Sonoma County Water Agency's General Manager.

#### Prior Board Actions:

04/28/2015: Approved agreement between Sonoma Water and The Regents of the University of California for development of site evaluation tool for stormwater management and recharge projects. Cost \$120,000; term end June 30, 2016.

#### FISCAL SUMMARY

Expenditures	FY 19-20 Adopted	FY20-21 Projected	FY 21-22 Projected
Budgeted Expenses	\$60,000		
Additional Appropriation Requested			
<b>Total Expenditures</b>	<b>\$60,000</b>		
<b>Funding Sources</b>			

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General Fund/WA GF			
State/Federal			
Fees/Other	\$60,000		
Use of Fund Balance			
Contingencies			
<b>Total Sources</b>	<b>\$60,000</b>		

**Narrative Explanation of Fiscal Impacts:**

Budgeted amount of \$60,000 is available from FY 2019/2020 appropriations for the Flood Control Zone 2A Petaluma fund, which is funded by property taxes. No additional appropriation is required.

<b>Staffing Impacts:</b>			
<b>Position Title (Payroll Classification)</b>	<b>Monthly Salary Range (A-I Step)</b>	<b>Additions (Number)</b>	<b>Deletions (Number)</b>

**Narrative Explanation of Staffing Impacts (If Required):**

N/A

**Attachments:**

Attachment 1: Agreement with the Regents of the University of California

**Related Items "On File" with the Clerk of the Board:**

None