

**Meeting Date:** 5/31/2016

**Report Type:** Consent

**Report ID:** 2016-00550

**Title: Supplemental Agreement: Groundwater Well Rehabilitation Support**

**Location:** District 2

**Recommendation:** Pass a Motion authorizing the City Manager or the City Manager's designee to sign Supplemental Agreement No. 1 to City Agreement No. 2016-00278 with Larry Walker Associates for additional groundwater support services for an amount not-to-exceed \$66,410, bringing the agreement's total not-to-exceed amount to \$151,410.

**Contact:** Dan Sherry, Engineering & Water Resources Manager, (916) 808-1419; Michelle Carrey, Supervising Engineer, (916) 808-1438; Megan Thomas, Project Manager, (916) 808-1729, Department of Utilities

**Presenter:** None

**Department:** Department Of Utilities

**Division:** CIP Engineering

**Dept ID:** 14001321

**Attachments:**

1-Description/Analysis

2-Background

3-Location Map

4-Supplemental Agreement

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**City Attorney Review**

Approved as to Form

Joe Robinson

5/23/2016 6:05:41 PM

**Approvals/Acknowledgements**

Department Director or Designee: Bill Busath - 5/10/2016 2:58:44 PM

## Description/Analysis

**Issue Detail:** Staff recommends Council approve a supplemental agreement with Larry Walker Associates to provide water quality analysis at three existing groundwater wells.

**Policy Considerations:** The requested action is in conformance with City Code Chapter 3.64, Article II, which requires City Council approval of supplemental agreements that exceed the City Manager's level of approval authority.

**Economic Impacts:** None.

**Environmental Considerations:** The Community Development Department, Environmental Planning Services Division has reviewed the proposed project and determined that investigation services to be performed under the proposed supplemental agreement are exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15306. The in-well water quality investigations consist of basic data collection, research, and resource evaluation (CEQA Guidelines Section 15306). Any future work as a result of the findings of these investigations would be subject to applicable CEQA review.

**Sustainability:** This report's recommendation is consistent with the City's General Plan Goals of achieving water system reliability, sustainability, and financial viability throughout the City.

**Commission/Committee Action:** Not applicable.

**Rationale for Recommendation:** Groundwater wells are a valuable part of the City's drinking water supply portfolio. To ensure that the City is able to continue to provide high quality groundwater water, in-well water quality testing and analysis is needed at well sites. Larry Walker Associates was contracted to complete well assessments after rehabilitation efforts on 16 existing wells in addition to an in-well assessment at Well 154 due to recent water quality changes (City Agreement No. 2016-0278). The proposed supplemental agreement will include an additional three wells for in-well water quality testing.

**Financial Considerations:** The proposed Supplemental Agreement No. 1 will increase the Larry Walker Associates contract amount by \$66,410, for a new contract amount not-to-exceed \$151,410. Sufficient funds are available from grant funds within the Well Rehab Program (Z14110100).

**Local Business Enterprise (LBE):** The City's minimum LBE participation requirement applies to professional services agreements of \$100,000 or more. This requirement was not applied to the City's existing agreement with Larry Walker Associates (Agreement No. 2016-0278), which will be amended by the proposed supplemental agreement, because the

agreement amount was less than \$100,000. Larry Walker Associates is located in Davis and is not an LBE.

## **BACKGROUND**

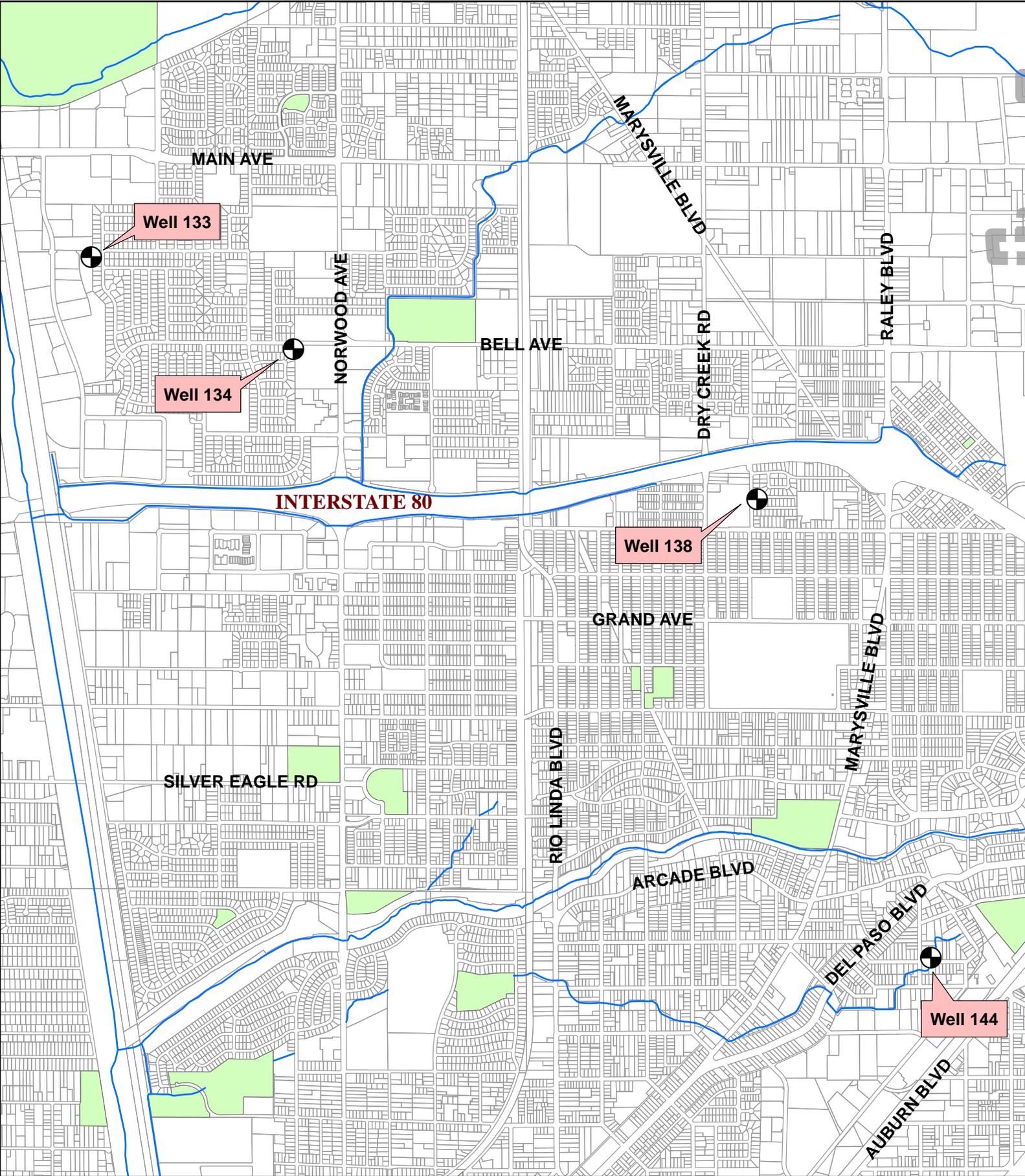
The City of Sacramento currently operates 29 drinking water wells in the City, a majority of which have been in service for over 50 years. These groundwater wells are a valuable part of the City's source water profile, helping to improve the reliability of the City's water supply.

On May 10, 2016, Council accepted the award of Proposition 84 Grant Funding which helps provide funding for the Drought Program and the Well Rehab Program. In an effort to maintain our groundwater well supply, this funding can be used to assist the City in assessing groundwater quality.

The in-well water quality assessments allow the City to better understand the water quality coming from various depths in our aquifers. Several sites have been identified as good candidates for in-well assessments after recently completing an assessment at Well 154. The potential wells include Well 133, 134, and 144, all located within the northeast region of the City. Grant funding is available to complete testing of three of these four wells.

City staff is recommending a supplemental agreement to the existing contract (2016-0278) to increase the contract amount by \$66,410, for a new contract total of \$151,410. The increased contract will allow Larry Walker Associates to complete in-well water quality investigations at three existing drinking water wells.

# In-Well Water Quality Assessment Potential Well Sites (I14510100)



**SUPPLEMENTAL AGREEMENT**

**Project Title and Job Number:** Groundwater Well Rehabilitation Support  
**Purchase Order #:** I14510100

**Date:** 4-26-16  
**Supplemental Agreement No.:** 1

The City of Sacramento ("City") and Larry Walker Associates ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2016-0278, including any and all prior supplemental agreements modifying the agreement (the agreement and supplemental agreements are hereafter collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. The scope of Services specified in Exhibit A of the Agreement is amended as follows:

The services provided shall be as set forth in Attachment 1, attached hereto and incorporated herein.

2. In consideration of the additional and/or revised services described in section 1, above, the maximum not-to-exceed amount that is specified in Exhibit B of the Agreement for payment of Contractor's fees and expenses, is increased by \$66,410, and the Agreement's maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	<u>\$85,000</u>
Net change by previous supplemental agreements:	<u>\$0</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>\$85,000</u>
Increase by this supplemental agreement:	<u>\$66,410</u>
New not-to exceed amount including all supplemental agreements:	<u>\$151,410</u>

3. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 2, above, shall constitute full compensation for the additional and/or revised services specified in section 1, above, and shall fully compensate Contractor for any and all direct and indirect costs that may be incurred by Contractor in connection with such additional and/or revised services, including costs associated with any changes and/or delays in work schedules or in the performance of other services or work by Contractor.

4. Contractor warrants and represents that the person or persons executing this supplemental agreement on behalf of Contractor has or have been duly authorized by Contractor to sign this supplemental agreement and bind Contractor to the terms hereof.

5. Except as specifically revised herein, all terms and conditions of the Agreement shall remain in full force and effect, and Contractor shall perform all of the services, duties, obligations, and conditions required under the Agreement, as supplemented and modified by this supplemental agreement.

**Approval Recommended By:**

  
\_\_\_\_\_  
Project Manager

**Approved By:**

  
\_\_\_\_\_  
Contractor

**Approved By:**

\_\_\_\_\_  
City of Sacramento

**Approved As To Form By:**

\_\_\_\_\_  
City Attorney

**Attested To By:**

\_\_\_\_\_  
City Clerk

April 22, 2016

Ms. Megan Thomas  
Associate Engineer  
Department of Utilities  
Engineering Services  
1395 35th Avenue  
Sacramento, CA 95822



**Re: Cost Estimate for Additional Water Supply Well Profiling, City of Sacramento**

Dear Ms. Thomas,

Larry Walker Associates (LWA) is pleased to present the City of Sacramento (City) with this proposal for performing additional water supply well profiling. The following sections briefly present the project context and scope of work, estimated costs and schedule.

#### **Project Context and Scope of Work**

LWA recently performed flow and concentration profiling of City Well 154 and found that well screen modification is expected to reduce hexavalent chromium concentrations in the well discharge (see letter report dated April 18, 2016). The City has expressed interest in performing similar evaluations for three additional wells. There are four candidate wells: 133, 134 and 138 (CrVI), and 144 (PCE).

Four tasks will be involved in conducting each investigation and developing options for well modification. Two tasks will be performed by the City, and two tasks will be performed by LWA. Descriptions of the tasks are provided below.

#### Task 1: Provide Services Related to Preparation (by City)

- Survey the wells to verify down-hole clearance for profiling tools (ground surface to total depth)<sup>1</sup>
- Purge the well until water quality stabilizes (if the well has been inactive)
- Provide a flow meter that accurately measures the pump discharge rate
- Provide a sampling spigot on the pump discharge line

#### Task 2: Perform Well Testing and Sampling (by LWA)

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<sup>1</sup> As before, the profiling subcontractor (BESST, Inc.) will provide an access survey tool that City staff will lower down to the bottom of the well in order to confirm no obstructions will impede the profiling.

- Arrange subcontracting (BESST, Inc.)
  - Flow profiling
  - Concentration profiling
- Design flow measurement plans to test and account for possible errors in the flow measurement process
- Design sampling plans to determine the depths where undesirable water quality constituents are entering the well
- Perform field inspections of the flow and concentration profiling
- Hand samples off to City staff for transport to laboratory and chemical analysis

Task 3: Laboratory Analysis (by City and its contractor BSK)

- Provide all sampling bottles and cooler
- Transport samples to laboratory
- Perform analyses by approved methods for constituents of interest

Task 4: Analyze Data and Identify Options for Well Modification (by LWA)

- Flow profiling
  - Analyze and account for measurement errors
  - Quantify flow contributions from screened intervals and strata
- Concentration profiling
  - Analyze and account for measurement errors
  - Quantify contributions of constituents from screened intervals and strata
- Assess options for well modification
  - Identify options
  - Discuss potential effects on water quality and production
  - Recommend best option
- Summarize results in a brief letter

**Estimated Costs**

LWA will perform the scope of work listed above on a time-and-materials basis at billing rates noted in our existing contract with the City. The costs listed below will not be exceeded unless LWA agrees to a change in the scope of work and the City approves additional charges.

	Number of Wells		
	1	2	3
<b>Subcontractor</b>	\$ 16,500.00	\$ 29,700.00	\$ 39,600.00
<b>Consulting Labor</b>	\$ 8,712.00	\$ 17,424.00	\$ 26,136.00
<b>Expenses</b>	\$ 224.84	\$ 449.68	\$ 674.52
<b>Total</b>	<b>\$ 25,436.84</b>	<b>\$ 47,573.68</b>	<b>\$ 66,410.52</b>

Please note that the well profiling subcontractor has provided a volume discount; therefore, the project price per well decreases with the number of wells profiled.

**Schedule**

Work on the scope described above will begin within one week of LWA receiving notice to proceed. The goal is to complete the field work by the end of the first week in June and complete the analysis soon thereafter. Based upon communications with the well profiling subcontractor, the intended schedule for the field work is achievable.

We look forward to working with you on this project.

Sincerely,



Thomas Grovhoug, P.E.

President