

March 7, 2016

Mr. Michael Wackman
P.O. Box 187
Herald, CA 95638
michaelkw@msn.com

SUBJECT: SCOPE AND BUDGET FOR CASGEM PROGRAM FOR SSCAWA AND COUNTY OF SACRAMENTO

Dear Mr. Wackman:

In response to the request by the Southeast Sacramento County Agriculture Water Authority (SSCAWA) and the County of Sacramento, Luhdorff & Scalmanini, Consulting Engineers (LSCE) has prepared the following scope and budget for assistance in preparing the California Statewide Groundwater Elevation Monitoring (CASGEM) Plan. The CASGEM Plan area includes the area near the Cosumnes River to the north, the Amador County boundary to the east, and the Sacramento County boundary to the south. Specifically, the proposed CASGEM Plan area is the South Basin jurisdictional area of the South Basin Groundwater Management Plan (GMP) as shown in the attached Figure 1-2 of the GMP.

Our proposed scope consists of two (2) tasks:

- Task 1 – CASGEM Monitoring Plan Preparation
- Task 2 – Assistance with Plan Submittal/Acceptance

A more detailed description of each task is provided below.

Task 1 – CASGEM Monitoring Plan Preparation

This task involves preparation of the CASGEM Plan in accordance with the California Department of Water Resources' (DWR) *CASGEM Monitoring Plan Summary* guidance document. LSCE's scope for this item includes the following:

- a) Prepare draft CASGEM well network and rationale for well selection and coverage. This will include gathering well construction data, information on well completion by aquifer, length of historical groundwater level monitoring record, and other relevant information (as described in *CASGEM Monitoring Plan Summary* under "Well Information").
- b) Describe how the proposed network design will be used to monitor temporal groundwater elevation trends within the DWR Cosumnes Subbasin area to be monitored by SSCAWA and/or the County of Sacramento.
- c) Develop Plan sections relating to historical groundwater monitoring and groundwater conditions related to the DWR Cosumnes Subbasin area to be

monitored by SSCAWA and/or the County of Sacramento.

- d) Prepare a Plan section that describes the overall groundwater monitoring objectives and future efforts to be conducted, as resources and funding allow, to address data gaps and/or additional information needs as required under the CASGEM program.

In preparing the CASGEM Plan, LSCE will draw from groundwater-related documents recently prepared for SSCAWA/County of Sacramento, including, but not limited to the *South Basin Groundwater Management Plan* completed in October 2011.

A Draft Monitoring Plan will be submitted to SSCAWA and the County of Sacramento for review. Following SSCAWA and the County of Sacramento's review, any comments will be incorporated into a Final CASGEM Plan. A copy of the Final Plan will be distributed to SSCAWA and the County of Sacramento and an electronic copy will also be submitted to DWR via the CASGEM submittal site.

Task 2 – Assistance with Plan Submittal/Acceptance

Under Task 2, LSCE staff will assist in responding to comments by DWR as part of the Plan submittal/acceptance process. This task will also include the preparation of any additional data or GIS layers required by DWR to establish SSCAWA and/or the County of Sacramento as the CASGEM Monitoring Entity for the DWR Cosumnes Subbasin.

Budget Summary

The estimated budget to perform scope Tasks 1 and 2 is \$12,000 (**Table 1**). LSCE's time would be billed in accordance with the attached schedule of fees.

Table 1 – Cost Estimate Broken Down by Task

Task	Cost
Task 1 CASGEM Plan Preparation	\$10,000
Task 2 Submittal/Acceptance Process	\$2,000
Total	\$12,000

Schedule

LSCE will prepare the draft CASGEM Plan as soon as we are authorized to proceed. Recognizing that the SSCAWA Board meets on February 9, 2016, we anticipate work could begin as soon as verbal authorization is provided and/or a contract is completed, whichever occurs first. We anticipate completion of a draft CASGEM Plan by March 31. Pending the time

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needed for SSCAWA and the County of Sacramento's review (estimated to be approximately two weeks), LSCE would finalize the CASGEM Plan within one week following receipt of review comments. LSCE would submit the Final Plan to DWR via DWR's CASGEM submittal site.

We appreciate your interest in our services and wish to thank you for the opportunity to propose on the above. Please call should you have any comments, questions, or require additional information.

Sincerely,

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS



Vicki Kretsinger Grabert
President and Senior Principal Hydrologist

Attached: LSCE Fee Schedule

Figure 1-2 of the South Basin Groundwater Management Plan



**LUHDORFF & SCALMANINI
CONSULTING ENGINEERS**

500 FIRST STREET WOODLAND, CALIFORNIA 95695

**SCHEDULE OF FEES - ENGINEERING AND FIELD SERVICES
2016**

Professional:*

<i>Senior Principal</i>	\$200/hr.
<i>Principal Professional</i>	\$198/hr.
<i>Project Manager</i>	\$185/hr.
<i>Senior Professional</i>	\$175/hr.
<i>Project Professional</i>	\$135 to 168/hr.
<i>Staff Professional</i>	\$115 to 130/hr.

Technical:

<i>Engineering Inspector</i>	\$115 to 130/hr.
<i>ACAD Drafting/GIS</i>	\$115/hr.
<i>Engineering Assistant</i>	\$98/hr.
<i>Technician</i>	\$98/hr.

Clerical Support:

<i>Word Processing, Clerical</i>	\$69/hr.
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<i>Vehicle Use</i>	\$0.55/mi.
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<i>Subsistence</i>	Cost Plus 15%
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<i>Groundwater Sampling Equipment (Includes Operator)</i>	\$170.00/hr.
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<i>Copies</i>	.20 ea.
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<i>Professional or Technical Testimony</i>	200% of Regular Rates
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<i>Requested Technical Overtime</i>	150% of Regular Rates
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<i>Outside Services/Rentals</i>	Cost Plus 15%
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<i>Services by Associate Firms</i>	Cost Plus 15%
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* Engineer, Geologist, Hydrogeologist, and Hydrologist

