

**Meeting Date:** 7/15/2014

**Report Type:** Consent

**Report ID:** 2014-00502

**Title: Supplemental Agreement: Combined Sewer System Regulatory Compliance Support**

**Location:** Citywide

**Recommendation:** Pass a Motion authorizing the City Manager or the City Manager's designee to execute supplemental agreement #1 to City Agreement 2013-0898 with Larry Walker Associates in an amount of \$398,593, increasing the agreement not-to-exceed amount to \$770,520.

**Contact:** Bill Busath, Manager, Engineering and Water Resources, (916) 808-1434; Sherill Huun, Supervising Engineer, Engineering and Water Resources, (916) 808-1455, Department of Utilities

**Presenter:** None

**Department:** Department Of Utilities

**Division:** Engineering & Water Resources

**Dept ID:** 14001311

**Attachments:**

1-Description/Analysis

2-Background

3-Agreement

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**City Attorney Review**

Approved as to Form

Joe Robinson

7/1/2014 3:18:01 PM

**Approvals/Acknowledgements**

Department Director or Designee: Dave Brent - 6/26/2014 2:59:11 PM

## Description/Analysis

**Issue Detail:** The Department of Utilities (DOU) requests approval of a supplemental agreement to the City's existing agreement for Combined Sewer System (CSS) Regulatory Compliance Support with Larry Walker Associates, Inc. (LWA).

**Policy Considerations:** The City has coverage for the City's CSS under National Pollutant Discharge Elimination System (NPDES) Permit, Order No. CA0079111. This report's recommendations are consistent with the following goals and policies of the City's 2030 General Plan:

1. The City shall continue to rehabilitate the CSS to provide adequate wastewater collection, treatment, and disposal in areas served by this system.
2. Protect local watersheds, water bodies, and groundwater resources, including creeks, reservoirs, the Sacramento and American rivers, and their shorelines.
3. Protect life and property from flooding.
4. The City shall continue to identify, construct, and maintain infrastructure systems and facilities required to promote and sustain a positive economic climate.

**Economic Impacts:** None

**Environmental Considerations:** The Community Development Department, Environmental Services Manager has reviewed the proposed supplemental agreement and has determined that the proposed project is exempt from the California Environmental Quality Act (CEQA) under Section Number 15061(b)(3) of the CEQA Guidelines. The activity is covered by the general rule that CEQA applies only to projects that have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

**Sustainability:** Not applicable

**Commission/Committee Action:** Not applicable

**Rationale for Recommendation:** Approval of this supplemental agreement with LWA is recommended to continue professional services needed to comply with the NPDES Permit issued for the City's CSS. LWA was selected through a Request for Qualifications process in 2013, to provide these services for a period of up to three years (FY 2013-14, FY 2014-15, FY 2015-16).

**Financial Considerations:** The City Council approved City Agreement No. 2013-0898 with LWA for services rendered in FY2013/14. The agreement included the option of extending the contract for up to two additional years. Extension of this agreement for subsequent fiscal years is contingent upon the City Council's approval of a supplemental agreement specifying the scope of services and payment provisions for each extended term. This supplemental agreement with LWA is for the amount not-to-exceed \$398,593. Approval of this supplemental agreement will bring the total not-to-exceed amount under Agreement No. 2013-0898 to \$770,520. There is sufficient funding for this supplemental agreement available within the CSS Regulatory Compliance Support Project (I14120600) and the Sanitary Sewer Management Plan (SSMP) Project (I14110110). A portion of the supplemental agreement cost (\$17,930) will be charged to the SSMP Project (I14110110). The remaining supplemental cost (\$380,663) will be charged to the CSS Project (I14120600). Charges to I14120600 will be split between the Wastewater (Fund 6006) and Storm Drainage (Fund 6011) with 25% from the Wastewater Fund (\$95,165.75) and 75% from the Storm Drainage Fund (\$285,497.25).

**Local Business Enterprise (LBE):** Agreement No. 2013-0898 was approved prior to the establishment of LBE participation requirements for professional service agreements.

## Background

The City of Sacramento (City) owns and operates a combined sewer system (CSS) that conveys both sewer and drainage in common pipelines from the Downtown, East Sacramento, and Land Park areas. The CSS is comprised of a roughly 7,500-acre service area, and a roughly 3,800-acre service area. The 7,500-acre service area contributes both wastewater and stormwater to a common collection system, and the 3,800-acre service area is a separated sewer system that contributes flows into the CSS. The CSS is regulated under National Pollutant Discharge Elimination System (NPDES) Permit No. CA0079111, Order No. R5-2010-0004, which is up for renewal in January 2015.

In June 1990, the Central Valley Regional Water Quality Control Board (Regional Water Board) issued a Cease and Desist Order requiring the City to eliminate outflows from the CSS into City streets and properties. In 1995, City Council adopted a Combined Sewer System Improvement Plan (Improvement Plan) intended to reduce outflows as well as discharges to the river. That same year, the Regional Water Board approved the Improvement Plan, rescinded the Cease and Desist Order, and issued a NPDES Permit that mandated implementation of U.S. Environmental Protection Agency's Combined Sewer Overflow Policy, which prescribes nationwide operational and planning goals for combined sewer systems.

Since 1995, in accordance with the Improvement Plan, the City has constructed over \$170 million in improvements to the CSS. Major upgrades to critical CSS facilities were completed to significantly improve the performance of the CSS and to provide increased primary treatment capacity. These improvements have significantly reduced street flooding, structure flooding, and treated and untreated discharges to the Sacramento River.

The 2010 CSS NPDES Permit mandates the continued implementation of the Improvement Plan and requires further studies to determine if the current operational practices and configurations of the CSS adequately protect the Sacramento River during the infrequent episodic discharges to the river. The permit requires extensive water quality and toxicity sampling of effluent and river water; comprehensive reporting of system operations applicable to the CSS, including operations and maintenance activities and various feasibility studies; comprehensive reporting of infrastructure annual budgets, long term funding, and actual expenditures; annual analysis and reporting of untreated discharges to the river and on-line reporting of CSS outflows; and extensive regulatory reporting and public notification including notification of downstream municipal water users.

Completion of the tasks required by the NPDES Permit is accomplished by City staff and through professional services agreements or construction contracts when staff expertise or equipment is not available. Contracted services have included flow measurement and modeling, long term capital improvement evaluation and prioritizations, infrastructure condition assessments, inspections and specialized maintenance, capital improvement construction, and compliance monitoring.

The Request for Qualifications (RFQ) process for this project was conducted in May 2013, and it included various NPDES Permit required tasks to be performed over a period of up to three years (Fiscal Year (FY) 2013-14, FY 2014-15, FY 2015-16). Only one Statement of Qualifications (SOQ) was received in response to the RFQ, from Larry Walker Associates, Inc. (LWA). The program manager reviewed the SOQ submitted by LWA and found that it met the City's RFQ requirements. The City Council approved City Agreement No. 2013-0898 to authorize performance of these services for FY2013/14. Extension of the agreement for subsequent fiscal years is contingent upon the City Council's approval of a supplemental agreement specifying the scope of services and payment provisions for each extended term. LWA has provided professional water quality services under multiple contracts for the City, and the Utilities Department has been highly satisfied with the services performed by LWA under prior agreements.

The FY 2014-15 Combined Sewer System Regulatory compliance support services agreement includes: technical support during permit reissuance; coordination, implementation, and data quality evaluation for permit required water quality and toxicity sampling activities; Delta regulatory expertise; analysis of CSS performance; and regulatory reporting.

# SUPPLEMENTAL AGREEMENT

**Project Title and Job Number: Combined Sewer System Regulatory Compliance Support (14120600)**

**Date: 4/25/2014**

**Purchase Order #: SACTO-0000022598**

**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 2013-0898, 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 Agreement is amended as follows:

a. The Scope of Services specified in Exhibit A of the Agreement is amended as follows:

**This supplemental agreement adds Fiscal Year 2014-15 services to the Agreement. Contractor shall perform the work and services specified in "Attachment 2 to Exhibit A," which is attached hereto and incorporated herein by this reference.**

b. The Fee Schedule/Manner of Payment specified in Exhibit B of the Agreement is amended as follows:

**The budget for performance of the FY 2014-15 CSS monitoring and support services is set forth on "Attachment 2 to Exhibit B," which is attached hereto and incorporated herein by this reference.**

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 \$398,593, and the Agreement's maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	<u>\$371,927</u>
Net change by previous supplemental agreements:	<u>\$0</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>\$371,927</u>
<b>Increase</b> by this supplemental agreement:	<u>\$398,593</u>
New not-to exceed amount including all supplemental agreements:	<u>\$770,520</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:**

**Approved As To Form By:**

\_\_\_\_\_  
Project Manager: Roxanne Dilley

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

**Approved By:**

\_\_\_\_\_  
HDR

# SUPPLEMENTAL AGREEMENT

**Approved By:**

**Attested To By:**

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City of Sacramento

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City Clerk

**ATTACHMENT 2 TO EXHIBIT A**

**CITY OF SACRAMENTO COMBINED SEWER SYSTEM MONITORING  
AND REGULATORY SUPPORT**

**FISCAL YEAR 2014-15 LARRY WALKER ASSOCIATES SCOPE OF  
SERVICES**

**Overview**

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This Scope of Services describes the consulting services to be provided by Larry Walker Associates, Inc. (LWA) and its subcontractors to the City of Sacramento Department of Utilities (City) from July 2014 through January 2016.

LWA will provide services in support of the combined sewer system (CSS) National Pollutant Discharge Elimination System (NPDES) permit compliance (Order No. R5-2010-0004). These services include monitoring, reporting, system analysis and general regulatory support.

The following 2014-15 tasks will be completed under the first amendment to the contract awarded in 2013.

**TASK 1 WATER QUALITY MONITORING SUPPORT**

LWA will provide permit required monitoring support to the City for all CSS river discharge events and associated subcontracted laboratory services. It is assumed that LWA will provide field staff responsible for receiving water monitoring and available to support other monitoring (influent and effluent). LWA will provide as-needed support for sanitary sewer overflow sampling and response.

The schedule of deliverables for all tasks is shown below:

<b>Sub-Task No.</b>	<b>LWA Deliverable</b>	<b>Deliverable Date to City</b>
1.1	Update Sampling and Analysis Plan	October 1, 2014
1.3	Sampling Event Follow-up Email, Chain of Custody forms, and sample tracking table	Within 3 calendar days of event completion
1.3	Laboratory reports for 'routine' data	Within 20 calendar days of event completion

**Task 1.1 Pre-season Sampling Preparations**

LWA will review and update the 2013-14 Sampling and Analysis Plan (SAP) to assess permit compliance, logistic improvements, safety, quality control samples, industry-standard sampling protocol changes, and feedback from the City staff and field staff. Additional analyses requested or for other programs may be added to the sampling program as funding is available.

LWA will present 2014-15 SAP edits and a review of the previous monitoring year at a meeting with the City Project Manager and the Supervising Plant Operators (SPOs).

Following review and update of the SAP, LWA will lead a field training session for the LWA and City sample collection staff and other City staff. The training session will be a refresher session to review the SAP, including SAP changes and as-needed follow-up to assist new staff or

address issues identified during the training. LWA will not act as the safety officer for City staff, and health and safety policies listed in the SAP are intended for LWA staff. City staff should conform to City safety policies. The SAP will be finalized, if necessary, within two weeks of the training session.

### **Task 1.2 Inter-Event Preparations**

LWA will provide logistical support for sampling events at the locations and in the roles described in the SAP. This may include the receiving water locations, effluent locations and influent locations. LWA will prepare sample bottles, bottle labels, and field log sheets for permit sample collection. LWA will regularly check with Operations and Maintenance Division staff to determine if additional bottles are necessary and will fill requests as needed. Sample coolers for City staff will be delivered to the appropriate mobilization area specified by field staff. LWA and City field crews will provide their own properly calibrated field measurement instrumentation. LWA and City field crews will prepare their own chain-of-custody forms that will be reviewed by the LWA Water Quality Monitoring Task Manager. LWA will subcontract with a forecast service to provide daily weekday forecasts and as-needed weekend and phone forecasting for up to six months, splitting the cost with the Sacramento Stormwater Quality Partnership.

### **Task 1.3 Sample collection**

LWA will collect samples at the receiving water locations for up to four discharge events and provide as-needed assistance at all other locations. The SAP outlines roles and responsibilities of the designated consultant and City for sample collection. The on-call SPO will notify the LWA Water Quality Monitoring Task Manager of imminent discharge events including a pre-storm estimate based on forecasted rain events. During the storm event, the on-call SPO will provide a two-hour lead-time notification to the LWA Water Quality Monitoring Task Manager prior to the discharge event.

LWA field staff will mobilize to CWTP when notified by the SPO. Receiving water samples will be collected as side-bank grab samples at the locations specified in the SAP. Crews will be able to mobilize initially for discharges at Pioneer and CWTP. Additional samples may also be collected at Sump 2/2A. Because Sump 2/2A discharges are infrequent and short in duration, LWA field teams will need to be on site and notified prior to such discharges. LWA will not act as the health and safety officer for City staff and is not responsible for notifying City staff of hazards.

For budgeting purposes, it is assumed that: 1) two false starts will occur where field crews are mobilized but discharges and receiving water sampling do not actually occur; 2) one LWA field crew staff will be available to team with City staff for receiving water monitoring for each routine discharge monitoring event, 3) three LWA field crew staff will be available for each “annual” discharge monitoring event and 4) one LWA staff will provide office-based logistical support for each discharge event.

LWA will arrange for delivery of all samples to the appropriate laboratories from a sample mobilization location at the City facilities or LWA office. LWA will contract directly with commercial analytical laboratories according to specifications in the SAP, which are based on the NPDES permit. These services include analysis of acute toxicity samples at certain locations. The City will provide bacteriological analytical services directly through the City Water Treatment Laboratory.

Within three calendar days of the end of an event sample collection, LWA will send a summary of field activities to the designated City staff. The summary will include all relevant field sheets, operational log sheets, chain of custody forms, and a summary table of samples submitted. City staff will review these materials and provide comments or changes to requested analyses.

The budget estimate includes aquatic toxicity analysis, but does not include any required follow-up monitoring (e.g., dilution series or toxicity identification evaluations are not included). The NPDES permit does not currently require follow-up toxicity assessments such as a toxicity identification evaluation (TIE) or toxicity reduction evaluation (TRE). It is expected that observed effluent toxicity would be due to chlorine or ammonia. The toxicity laboratory will screen for these constituents. Plant operations staff monitor chlorine residual hourly in all effluent discharges. Additionally, for the annual monitoring event, sufficient sample should be collected at all sites to allow for follow-up ammonia screening using zeolite to reduce ammonia related aquatic toxicity. It is assumed that one additional effluent sample per year will be required for this assessment. This scope of work does not specifically include additional TIE support or TRE preparation, however, if funds from other tasks can be reallocated, the LWA team can provide support and lab analyses for these follow-up analyses.

#### **Task 1.4 Receiving Water Continuous Data Probes**

LWA will deploy self-contained, continuous data sondes near river monitoring locations RSW-001 (Delta King) and RSW-002 (Miller Park). A third sonde may be added at a discharge or receiving water location, as budget can be reallocated from other tasks. Such installation would allow collection of continuous data for ammonia, turbidity, dissolved oxygen, temperature, conductivity, and pH. The sensors will be deployed early in the wet season, targeting the season's first CSO and will remain for up to six months.

#### **Task 1.5 Sanitary Sewer Overflow Sample Collection and Analysis**

LWA will provide as-needed monitoring and regulatory analysis support of the City's sanitary sewer overflow program based on the 2013 amendment to the General Order Waste Discharge Requirements (WDR, Order No. WQ 2013-0058-EXEC). When requested by the City, LWA will review and prepare recommendations on the City sampling and analysis plan documents. LWA will provide as needed sample collection support including field staff or office support when notified by the City. LWA will provide as needed regulatory support related to reporting and other communication with the State Water Resources Control Board, the Regional Board, and other parties. LWA will not act as a safety officer for the City or provide safety guidelines for City staff.

### **TASK 2 REGULATORY REPORTING**

The NPDES permit requires monthly and annual reporting. LWA will provide data processing support for months in which CSS overflow discharges occur and the annual reporting. Annual reporting for the 2013-2014 monitoring year (as defined in NPDES permit) will be performed under the FY 2013-14 contract and is not included in this scope of services. Annual reporting for the 2014-2015 monitoring will be performed under this scope of services if funding is available. The City's permit will expire in January 2015, however, it is not expected that a permit renewal would occur before July 2015

The following is a summary of expected reporting activity deliverables for the 2014-2015 scope of services.

<b>Sub-Task No.</b>	<b>LWA Deliverable</b>	<b>Deliverable Date to City</b>
2.1	Data assessment memoranda, CIWQS uploads	Within 24 calendar days of event completion
2.2	Annual data DMR drafted hard copies or CIWQS upload, if allowed	January 15, 2016
2.3	2014-2015 Annual Report Sections Assigned by City	December 22, 2015
2.3	2014-2015 Untreated Discharge Report, if necessary	December 1, 2015

### **Task 2.1 Data Compilation and Reporting**

LWA will coordinate all follow-up and corrective actions with analytical laboratories to resolve any identified analytical or sample problems. LWA will request electronic data deliverables (EDD) from the laboratories and apply an EDD processing tool to expedite the compilation of data into a format compatible with the Surface Water Ambient Monitoring Program (SWAMP) database for receiving water data. Data will be maintained in a spreadsheet or database format and available upon request by the City. LWA will perform a data quality evaluation assessment and evaluate the appropriateness of data for future uses by adding necessary data qualifiers.

LWA will process the data and upload it for review in the California Integrated Water Quality System (CIWQS). LWA will review data and provide a summary table of qualified data and a narrative discussion of known significant problems affecting the data. LWA will target complete data compilation and review prior to the reporting deadline (first business day of the second calendar month following the monitoring event). In some cases, events late in the month coupled with laboratory delays may not allow significant City review time. The 2014-2015 Sampling and Analysis Plan (SAP) will include roles and schedules for CIWQS reporting. LWA will notify the City of CIWQS uploads and submit the data overview memorandum. If necessary, the City will request that LWA perform any changes or corrections. The City Legally Responsible Officer (LRO) or their City designee will submit the CIWQS reports for routine (monthly) and annual reporting as well as all required Discharge Monitoring Reports (DMR).

### **Task 2.2 FY 2014-15 Annual Report Assistance**

LWA will prepare specifically assigned sections of the 2014-2015 Annual Report including monitoring data and loading summaries for the Nine Minimum Controls Report and preparation of the Untreated Discharge Report. LWA will provide as-needed support services to the City to complete other sections of the annual report. It is expected that there are sufficient FY 2013-14 funds to prepare the 2013-2014 report.

LWA will assist the City with preparation of the Nine Minimum Controls Annual Progress Report as required in permit section E.X.D.3. The LWA-led team will provide as-needed technical support to the City in reviewing any changes to the report format based on the forthcoming Report of Waste Discharge or comments from the Regional Board, and then compiling and reviewing the draft report as an attachment to the annual report.

The City is required to submit as part of its Nine Minimum Controls Annual Progress Report that is due on January 30<sup>th</sup> of each year, a summary of existing monitoring data and an evaluation of the efficacy of CSO controls (including pollution prevention efforts) to minimize and/or prevent

impacts from CSOs. LWA will prepare a summary of existing monitoring data and estimate the load of key constituents removed by CSO controls. If necessary, the City is required to propose revisions to the CSO control program (including the Nine Minimum Controls) to improve the efficiency and effectiveness of controls.

LWA will prepare the following report sections by December 19, 2015:

- A.v. Record of Overflows
- D. Maximize flow to the POTW Treatment Plant
- I. Monitoring to characterize CSO impacts and efficacy of CSO controls

LWA will review all existing sections or items prepared by the City and provide comments on suggested language or additional analysis.

LWA will assist the City in preparation of the 2014-15 annual report due January 30, 2016. LWA will provide technical and coordination support to assist in the preparation of the report. LWA duties may include but not limited to the following: review of any report language or analysis and suggested edits, as-needed assistance in preparation of materials not covered under other Scope-of-Services items, attendance at meetings specific to the annual report preparation, and preparation of responses to comments from the Regional Board.

If the City has any untreated discharges in 2014-2015, an “Untreated Discharge Evaluation Report” as described in Section IV.D.2 of the NPDES permit is required. If necessary, LWA will prepare this report and submit it to the City by December 1, 2015.

LWA will prepare the required hard copy format of the annual datasheets (EPA forms) for the Discharge Monitoring Report (DMR) by January 15, 2016 if they are still required. If electronic (CIWQS) reporting is made available, LWA will instead provide the draft upload of annual data to CIWQS by January 15, 2016. “Annual” data refers to the samples collected once per year when a discharge occurs.

### **Task 2.3 Regulatory Reporting and Compliance**

LWA will provide as-needed support to respond to regulatory reporting requests or other evaluations including but not limited to responses to notices of violation, data requests from regulators and other parties, interpretation and assessment of modeling performed by others, and as-needed review of online reports in CIWQS, Total Maximum Daily Load (TMDL) data requests or other.

### **TASK 3 CSS PERFORMANCE**

LWA has previously prepared the Plan of Operations and the Water Quality Assessment report. These documents may require updates or supplements based on comments from the Regional Board or City staff in preparation for the NPDES permit renewal. The LWA team will provide engineering and technical support as requested by the City to prepare necessary updates which may include but are not limited to the following – evaluation of disinfection systems, technical revisions to Water Quality Assessment, updates to the Plan of Operations, and others.

### **Task 3.1 Water Quality Assessment Follow-up**

This task will compliment Task 4 (Report of Waste Discharge) and Task 5 (Delta Methylmercury TMDL Support) by providing the as-needed engineering and operational support to the technical assessments. The City plans to meet with the Regional Board in July 2014 to discuss the Water Quality Assessment Report and upcoming Report of Waste Discharge (ROWD). As requested by the City the, LWA team will perform operations and engineering assessments to consider identified issues such as solids and floatables removal optimization and chlorination, dechlorination, and chemical dosing.

### **Task 3.2 Plan of Operations Updates**

LWA prepared a Plan of Operations in 2012 under direction of City staff. Annually the Plan of Operations is reviewed by the City to incorporate any changes in operations or procedures. This task includes as-needed engineering support to assist the City to resolve operational issues within the CSS or perform more detailed technical updates necessary to comply with the permit.

### **TASK 4 PERMIT RENEWAL SUPPORT**

The NPDES permit will likely be renewed in 2015, though a schedule is not yet available. Even if the permit renewal process (i.e., administrative drafts and tentative order) are not released before July 2015, it is expected that the Regional Board may make additional information requests to support the renewal. Specific items addressed in the June 2014 Report of Waste Discharge (ROWD) are identified in this task as potential as-needed tasks.

<b>Task No.</b>	<b>Task</b>	<b>Timeline</b>
4.1	Evaluate LTCP modeling	Within four weeks of request and availability of all review materials
4.2	Permit renewal assistance	Spring-Fall 2015
4.3	Permit negotiation support	Summer-Fall 2015

### **Task 4.1 CSS Model and LTCP Support for Water Quality Aspects of Program Development**

As directed by the City, LWA will review model outputs and reports prepared by other consultants to support the Long Term Control Plan (LTCP) and evaluate the sufficiency of the analysis of water quality impacts. LWA will provide summary comments and recommendations for additional analysis or modified approaches necessary to comply with the NPDES permit or at the request of the Regional Board. LWA will attend up to three meetings with the City and their modeling consultants to discuss the assessment and recommendations.

### **Task 4.2 Technical Support During Permit Reissuance**

As directed by the City, LWA will prepare evaluations and written summaries of key technical issues identified in the ROWD and through the permit renewal period. In the June 2014 ROWD, the City is expected to request modification to pH effluent limitations, changes to the monitoring program, and other specific technical changes that may require additional analysis to justify the request. When requested, LWA will develop an email summary of the requested task and assessment of level of effort expected and remaining funds. The Regional Board may also

request additional data submittals or clarifications of previously submitted materials. The City and LWA will agree on this level of effort for each task and the timeline for completion.

**Task 4.3 Permit Negotiation Support and Coordination**

LWA will provide permit negotiation support that includes technical review of draft tentative order permit language, summaries of other similar permits or related policy document language, communication with Regional Board staff, meetings and teleconferences with the City and Regional Board, preparation of a comment letter and permit mark-ups, preparation of hearing testimony and presentation materials, and other as-needed permit renewal tasks. LWA will perform these tasks at the direction of the City project manager.

**TASK 5 DELTA METHYLMERCURY TMDL SUPPORT**

The City CSS has a wasteload allocation for all discharges in the final Delta Methylmercury Total Maximum Daily Load (TMDL). While the City can meet the wasteload allocation in years with a low to average number of discharge events, compliance in years with larger discharge volumes may require development of methylmercury control measures. While the TMDL Phase 1 assessment is currently underway, the City submitted a Control Study Work Plan to the Regional Board in April 2013 and initiated sampling in the spring and summer of 2013. The proposed study includes collection of influent samples, solids bench testing, and assessments of collection system "hot spots". The following timeline is expected for the TMDL support work:

<b>Task No.</b>	<b>Task</b>	<b>Timeline</b>
5.1	Sample collection for influent, effluent, and solids	In coordination and as feasible with discharge events October 2014-May 2015
5.2	Draft Progress Report	August 31, 2015
5.2	Final Progress Report	Within two weeks of receiving comments from City. Due to Regional Board, pending schedule changes, October 2015

**Task 5.1 Mercury Sample Collection and Analysis**

LWA will collect or coordinate collection with City staff of influent and effluent samples if collection of other NPDES permit requirements can already be assured. LWA will also collect solids samples, with assistance from the City operations staff, to perform the bench "bucket tests" to assess methylation potential due to system solids. Bench test sampling from 2013-2014 will be confirmed and further developed with 2014-2015 testing to better understand contributing factors or to test pilot control measures. Up to two sediment samples and bucket tests will be performed by LWA and the contract laboratory. LWA will also coordinate collection of any collection system sediment samples if the City identifies hot-spots. LWA will coordinate with the laboratories team partners in the analysis and reporting of results.

**Task 5.2 Prepare Progress Report**

The Work Plan includes a progress report due to the Regional Board in October 2015 reporting the status of sample collection and findings to date. LWA will prepare this data and progress summary, including a summary of coordination with the Central Valley Clean Water Agencies

(CVCWA) effort. LWA will submit a draft Progress Report to the City by August 31, 2015 and provide a revised version within two weeks of receiving comments. On request, LWA will also prepare a summary progress report statement that can be used in annual reporting or permit negotiations.

### **Task 5.3 Attend Meetings with Regional Board and CVCWA**

At the direction of the City, LWA will attend up to three meetings with the Regional Board or CVCWA regarding TMDL Phase 1 activities and progress.

## **TASK 6 DELTA AND REGULATORY EXPERTISE**

Delta water quality is a critical resource to California as a major drinking water supply, agricultural supply, and wildlife habitat. This level of interest is expected to increase in the coming years with increasing resource demands, major proposed infrastructure changes such as the Bay Delta Conservation Plan (BDCP), and land use and "conservation project" planning as described in the Delta Plan. Sacramento and San Joaquin River Delta dischargers face increasing regulatory pressures, even in cases where those discharges may not cause significant impacts or are a benefit to the community and receiving water. LWA will provide general tracking support for a wide range of Sacramento and San Joaquin River Delta policy, planning, and implementation activities.

### **Task 6.1 Attend CVCWA Delta Meetings and Prepare Summary Notes**

LWA will attend CVCWA Delta meetings on behalf of the City to gather information and coordinate commenting on issues related to the City CSS. This includes up to six of the monthly meetings in person or via teleconference. Additional meetings may be attended if time is combined with other client representation (e.g., Sacramento Stormwater Quality Partnership).

### **Task 6.2 Prepare comments on BDCP, Delta initiatives, and Statewide Policy**

LWA will prepare and coordinate comments specific to the City CSS for the Delta initiatives expected to be drafted for public review in 2014-2015, including the Bay Delta Conservation Plan (BDCP) follow-up versions and amendments, TMDLs, Delta nutrient objective development, and other policies. LWA will provide technical as-needed review of City-prepared or other partner (e.g., Regional Water Agency) comments or contribute comments on water quality related items.

LWA tracks all statewide activities and prepares summaries for clients of issues that may affect them (e.g., State Toxicity Policy, TMDLs, State Trash Policy, etc.). LWA will prepare as needed summary of the issues potentially affecting the City CSS and will also provide as-needed information to the City or as-needed representation at policy development or stakeholder meetings.

### **Task 6.3 Participate in Delta Pathogen Study**

The City and LWA have contributed time and resources to the Delta Regional Monitoring Program (RMP) Pathogen Subcommittee that is implementing the Basin Plan Amendment and Central Valley Drinking Water Policy Workgroup recommendation to include a study of sources, fate and transport, and general pathogen assessments. The objective of the study is to develop baseline information that can be used if future conditions trigger follow-up action by the

Regional Board. LWA will participate on behalf of the City and in coordination with the Sacramento Stormwater Quality Partnership to represent the City's "wet weather" discharge interests in developing this study plan. Participation in the study could also become a requirement of the upcoming NPDES permit renewal and was included in the ROWD as a follow-up activity to address the CSS as a potential source of Cryptosporidium and Giardia.

## **TASK 7 PROJECT COORDINATION**

LWA will ensure that the City has access to requested staff and around-the-clock wet weather support for the duration of the project.

### **Task 7.1 Project Coordination**

LWA will coordinate staff and subcontracted laboratories to ensure timely delivery of high quality work products. LWA will provide project status reporting and track budget and deliverable submittals.

LWA will provide project management to ensure that the project is completed on time and within budget, including project coordination and administration necessary to achieve the tasks previously described, and periodic communications with the City and subcontractors. LWA will provide qualified staff to complete all tasks as described in the preceding Scope of Services.

The LWA Project Manager and task leads, as necessary, will lead and attend progress meetings every other month or as requested by the City. LWA will prepare an agenda and distribute to City in advance of each scheduled progress meeting.

LWA will produce Progress Reports for review at the progress meetings as needed to keep the City apprised of work progress, schedule and budget status.

LWA will submit a monthly invoice with detailed budget status information on a subtask basis, and a monthly written report describing project activities and expenditures during the period covered by the invoice.

# ATTACHMENT 2 TO EXHIBIT B

## City of Sacramento - Combined Sewer System Monitoring and Regulatory Support FY2014-15 Budget Estimate

TASK	DESCRIPTION	LABOR HOURS				LAB COSTS [1]	OTHER DIRECT COSTS [1]	TOTALS [1]
		SENIOR ADVISOR	SENIOR ENG./SCL.	STAFF ENG./SCL. II	STAFF ENG./ SCL.			
<b>1.0 WATER QUALITY MONITORING SUPPORT</b>								
1.1	<i>Pre-season Sampling Preparations</i>	4	0	24	64	\$ -	\$ 600	\$ 15,680
1.2	<i>Inter-event preparations</i>	4	0	56	100	\$ -	\$ 3,450	\$ 29,850
1.3	<i>Sample Collection</i>	16	0	56	82	\$ 57,663	\$ 1,000	\$ 85,483
1.4	<i>Receiving Water Continuous Data Probes</i>	2	0	24	40	\$ 750	\$ 9,600	\$ 21,310
1.5	<i>Sanitary Sewer Overflow Sample Collection and Analysis</i>	4	0	24	48	\$ 5,000	\$ 250	\$ 17,930
	Sub TOTAL LABOR HOURS	<b>22</b>	<b>0</b>	<b>104</b>	<b>186</b>			
	Sub TOTAL COSTS					<b>\$ 58,413</b>	<b>\$ 11,200</b>	<b>\$ 170,253</b>
<b>2.0 REGULATORY REPORTING</b>								
2.1	<i>Data Compilation and Reporting</i>	4	0	36	120	\$ -	\$ -	\$ 25,700
2.2	<i>FY1415 Annual Report Assistance</i>	4	0	40	100	\$ -	\$ 100	\$ 23,540
2.3	<i>As-needed Regulatory Reporting and Compliance</i>	40	0	40	0	\$ -	\$ -	\$ 17,800
	Sub TOTAL LABOR HOURS	<b>48</b>	<b>0</b>	<b>116</b>	<b>220</b>			
	Sub TOTAL COSTS					<b>\$ -</b>	<b>\$ 100</b>	<b>\$ 67,040</b>
<b>3.0 CSS PERFORMANCE</b>								
3.1	<i>Water Quality Assessment Follow-up</i>	4	0	16	0	\$ -	\$ 5,000	\$ 9,000
3.2	<i>Plan of Operations Updates</i>	4	0	24	12	\$ -	\$ 5,000	\$ 12,280
	Sub TOTAL LABOR HOURS	<b>8</b>	<b>0</b>	<b>40</b>	<b>12</b>			
	Sub TOTAL COSTS					<b>\$ -</b>	<b>\$ 10,000</b>	<b>\$ 21,280</b>
<b>4.0 PERMIT RENEWAL SUPPORT</b>								
4.1	<i>CSS Model and LTCP Support for Water Quality Aspects</i>	16	40	16	12	\$ -	\$ 200	\$ 17,520
4.2	<i>Technical Permit Issue Analysis and Reporting</i>	24	0	40	12	\$ -	\$ 200	\$ 15,640
4.3	<i>Permit Negotiation Support and Coordination</i>	24	0	40	12	\$ -	\$ 200	\$ 15,640
	Sub TOTAL LABOR HOURS	<b>64</b>	<b>40</b>	<b>96</b>	<b>36</b>			
	Sub TOTAL COSTS					<b>\$ -</b>	<b>\$ 600</b>	<b>\$ 48,800</b>
<b>5.0 DELTA METHYLMERCURY TMDL SUPPORT</b>								
5.1	<i>Sample Collection and Analysis</i>	8	0	16	48	\$ 9,700	\$ -	\$ 21,940
5.2	<i>Prepare Progress Report</i>	12	0	40	16	\$ -	\$ -	\$ 12,920
5.3	<i>Attend Meetings with Regional Board and CVCWA</i>	16	0	12	0	\$ -	\$ -	\$ 6,380
	Sub TOTAL LABOR HOURS	<b>36</b>	<b>0</b>	<b>68</b>	<b>64</b>			
	Sub TOTAL COSTS					<b>\$ 9,700</b>	<b>\$ -</b>	<b>\$ 41,240</b>
<b>6.0 DELTA AND REGULATORY EXPERTISE</b>								
6.1	<i>Attend CVCWA Delta meetings and prepare summary notes</i>	24	0	0	0	\$ -	\$ 200	\$ 6,440
6.2	<i>Prepare comments on BDCP and other Delta initiatives</i>	24	0	8	0	\$ -	\$ -	\$ 7,720
6.3	<i>Participate in CVDWPWG Pathogen study development</i>	24	0	40	0	\$ -	\$ -	\$ 13,640
	Sub TOTAL LABOR HOURS	<b>72</b>	<b>0</b>	<b>48</b>	<b>0</b>			
	Sub TOTAL COSTS					<b>\$ -</b>	<b>\$ 200</b>	<b>\$ 27,800</b>
<b>7.0 PROJECT COORDINATION</b>								
7.1	<i>Coordination and Project Management</i>	48	0	20	40	\$ -	\$ -	\$ 22,180
	Sub TOTAL LABOR HOURS	<b>48</b>	<b>0</b>	<b>20</b>	<b>40</b>			
	Sub TOTAL COSTS					<b>\$ -</b>	<b>\$ -</b>	<b>\$ 22,180</b>
<b>TOTAL LABOR HOURS</b>		<b>298</b>	<b>40</b>	<b>492</b>	<b>558</b>			
<b>TOTAL COSTS</b>						<b>\$ 58,413</b>	<b>\$ 21,200</b>	<b>\$ 398,593</b>

Notes:  
[1] Includes 10% LWA markup for lab costs and subcontractor labor.