



City of Sacramento City Council

915 I Street, Sacramento, CA, 95814
www.CityofSacramento.org

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Meeting Date: 8/14/2012

Report Type: Consent

Title: Supplemental Agreement: Combined Sewer System Regulatory Compliance Support Services (I14120600)

Report ID: 2012-00614

Location: Districts 3, 4, 5 and 6

Recommendation: Pass a Motion authorizing the City Manager or City Manager's designee to execute Supplemental Agreement No. 2 to City Agreement No. 2010-0969 with Larry Walker Associates, Inc., to provide services for FY2012/2013 for an amount not to exceed \$352,498.

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

Presenter: None

Department: Department Of Utilities

Division: Water Quality Engineering

Dept ID: 14001331

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Location Map
- 4-Exhibit A - Agreement.with Larry Walker Associates, Inc.

City Attorney Review

Approved as to Form
Joe Robinson
7/31/2012 5:27:06 PM

City Treasurer Review

Reviewed for Impact on Cash and Debt
Russell Fehr
7/24/2012 2:18:37 PM

Approvals/Acknowledgements

Department Director or Designee: Dave Brent - 7/31/2012 12:29:15 PM



Description/Analysis

Issue: The City is required to complete a comprehensive Water Quality Assessment and to provide extensive reporting for Combined Sewer System (CSS) discharges pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit issued for the operation of the CSS by the Central Valley Regional Water Quality Control Board (RWQCB). In 2010, Larry Walker Associates, Inc. (LWA) was selected to perform the required CSS regulatory compliance support services for up to three years, and the City Council authorized a professional services agreement with LWA to provide these services for the first year, with the option to perform these services during the second and third years upon City Council approval of the necessary supplemental agreement(s). The first supplemental agreement was approved by City Council in October 2011. This FY2012/13 Supplemental Agreement covers the services to be performed for the third of the three years.

Policy Considerations: NPDES Permit CA0079111 requires implementation of specific activities and programs. Completion of the Water Quality Assessment and reporting activities supports 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 Environmental Services Manager has determined that the proposed project is not considered a project under the California Environmental Quality Act (CEQA), Section Number 15378 of the CEQA Guidelines, as the project consists of ongoing administrative services.

Sustainability: Completion of the Water Quality Assessment and required reporting activities will provide the data needed to develop pollution reduction programs and inform the selection of projects to reduce flooding in the CSS area and, as such, is consistent with the City Sustainability Master Plan. These activities advance the following Master Plan goals:

1. Conserving the use and protection of sources of water.
2. Providing exceptional flood protection.

Commission/Committee Action: Not applicable

Rationale for Recommendation: Approval of the CSS Regulatory Compliance Support Services supplemental agreement with LWA is recommended to obtain professional services needed to comply with the NPDES Permit issued for the City's CSS.

Financial Considerations: The cost for the supplemental agreement is \$352,498. There is sufficient funding in the Multi-Year Operating Project, CSS Regulatory Compliance Support (I14120600). The cost will be split between the Wastewater (Fund 6006) and Storm Drainage (Fund 6011), with 25% from the Wastewater Fund in the amount of \$88,124, and 75% from the Storm Drainage Fund in the amount of \$264,374.

Emerging Small Business Development (ESBD): Larry Walker Associates, Inc., is not certified as an Emerging or Small Business Enterprise.

Background

In June 1990, the Regional Water Quality Control Board (RWQCB) issued a Cease and Desist Order requiring the City to eliminate outflows from the Combined Sewer System (CSS) into City streets and properties. After exhaustive studies and rigorous benefit/cost analysis, the City Council adopted a Combined Sewer System Improvement Plan (Improvement Plan) in 1995 intended to reduce outflows as well as discharges to the river. That same year, the RWQCB approved the Improvement Plan, rescinded the Cease and Desist Order, and issued a National Pollutant Discharge Elimination System (NPDES) Permit that mandated implementation of the Improvement Plan and protection of the water quality in the Sacramento River.

The CSS infrastructure dates back to the late 1800s and is one of only two such systems in the State. The area of the City served by the CSS comprises approximately 7,000 acres including downtown, midtown, East Sacramento, and Land Park as shown on the location map for this report. Unlike more common systems that carry sanitary sewage and storm drainage in separate pipes, the CSS collects sanitary sewage from residents and businesses as well as runoff from city streets and urban land uses in the same pipe. During large storm events, those pipes can overflow causing combined sewage to back up onto streets, yards, and, in extreme events, even buildings.

Since 1995, in accordance with the Improvement Plan, the City has constructed over \$132 million in improvements to the CSS. Major projects included upgrades to Sump 2 and Pioneer Reservoir to significantly improve the performance of the CSS and to provide primary treatment for higher volumes of CSS discharges to the river. These improvements have reduced street and structure flooding and have resulted in fewer untreated discharges to the Sacramento River. However, the CSS currently still does not meet the mandated goals of minimizing street flooding during the 10-year storm and preventing structure flooding during the 100-year storm.

The RWQCB renewed the CSS NPDES Permit on January 28, 2010 and issued Waste Discharge Requirements Order No. R5-2010-0004 (NPDES Permit CA0079111). The revised 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 episodic discharges to the river. The new permit requires extensive water quality and toxicity sampling of effluent and river water; comprehensive reporting of Nine Minimum Controls 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 State 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 annual professional services agreements or construction contracts. 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 included various NPDES Permit required tasks to be performed over a period of up to three years, and was conducted in September 2010. Statements of Qualifications were received from:

- AECOM
- Larry Walker Associates, Inc.
- Robertson-Bryan, Inc.
- Stantec Consulting Inc.

Larry Walker Associates, Inc. (LWA) was selected as the top ranked firm to provide these regulatory compliance support services, which includes review, revision and implementation of the Water Quality Assessment Plan; coordination, implementation, and data quality evaluation for water quality and toxicity sampling activities; pollutant load estimations; analysis of CSS performance; and regulatory reporting. The City Council authorized a professional services agreement for Combined Sewer System Regulatory Compliance Support Services with LWA in November, 2010, (Agreement No. 2010-0969).

Agreement No. 2010-0969 included work for one year, with a potential maximum of two successive one-year extensions upon the approval of Supplemental Agreement(s) specifying the scope of services and payment provisions for such extended term(s). The total amount for FY2010/11 services was \$398,051, and was encumbered in the FY2010/11 CSS Permit Reporting and Testing Project (X14010060), Sewer Fund 6006). The total amount for FY2011/12 services was \$363,585, and was encumbered in Project Number I14120600.

The FY2012/13 Combined Sewer System Regulatory Compliance Support Services supplemental agreement provides services for the third of the three years authorized by the original agreement.



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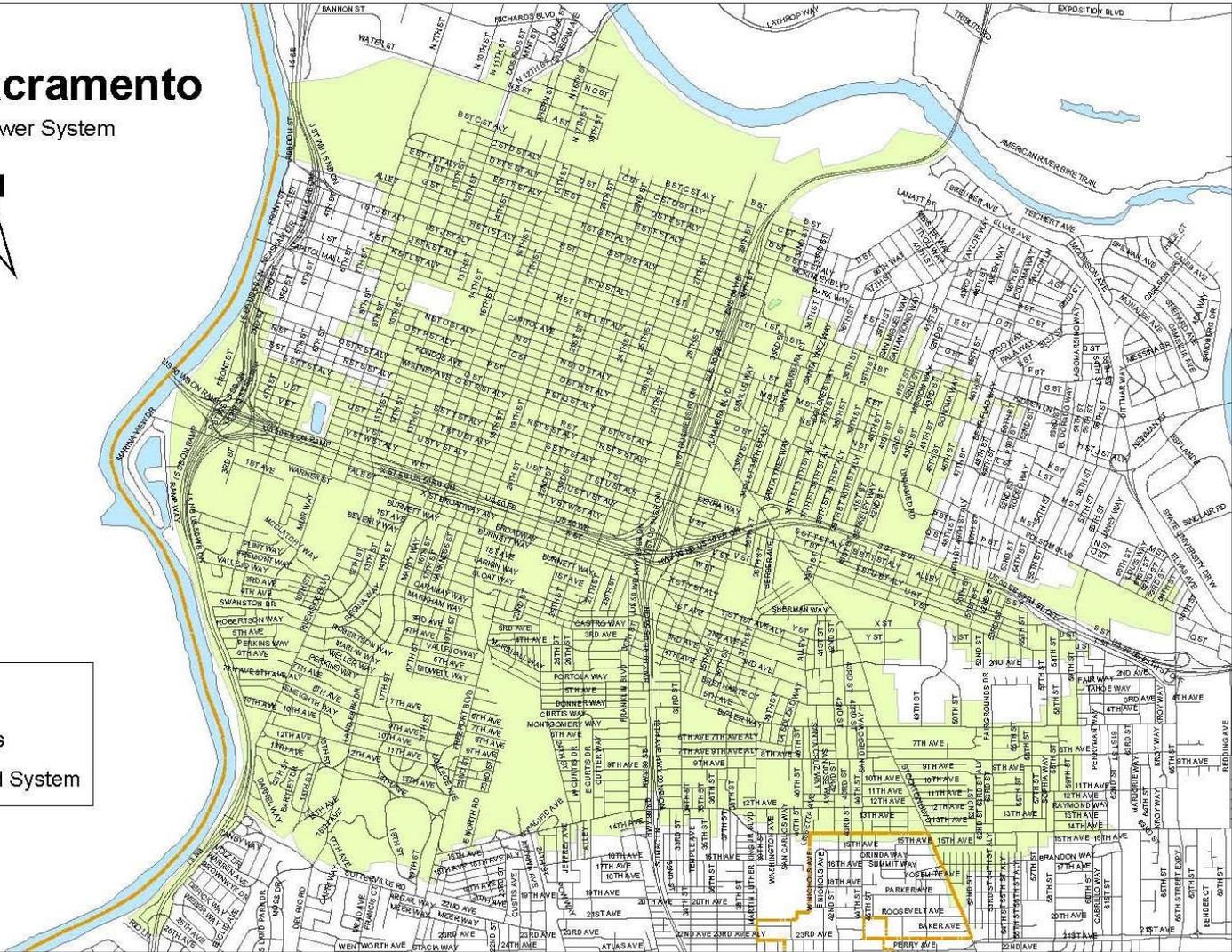
City of Sacramento

Combined Sewer System



Legend

-  City Limits
-  Combined System



R:\maps\sewer2004\003\css.mxd



The City of Sacramento ("City") and Larry Walker Associates, Inc. ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2010-0969, including any and all prior supplemental agreements modifying said agreement (said agreement and supplemental agreements are hereafter collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. Exhibit A of the Agreement is amended as follows:
 - a. Exhibit A, Section 1, the City Representative is changed:

The new City Representative is:

Roxanne Dilley
 Associate Engineer
 1395 35th Avenue
 Sacramento, CA 95822
 Phone: (916) 808-1458
 Fax: (916) 808-1497
 Email: rdilley@cityofsacramento.org

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

This supplemental agreement adds FY2012/2013 services to the Agreement. Contractor shall perform the work and services specified in "Attachment 3 to Exhibit A", which is attached hereto and incorporated herein by this reference.

2. The Budget for performance of the 2012-2013 CSS monitoring and support services is set forth on "Attachment 3 to Exhibit B," attached hereto and incorporated herein by this reference.
3. 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 \$352,498, and said maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	<u>\$398,051</u>
Net change by previous supplemental agreements:	<u>\$363,585</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>\$761,636</u>
Increase by this supplemental agreement:	<u>\$352,498</u>
New not-to exceed amount including all supplemental agreements:	<u>\$1,114,134</u>

4. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 3, 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.
5. 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.
6. 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

ATTACHMENT 3 TO EXHIBIT A

CITY OF SACRAMENTO COMBINED SEWER SYSTEM REGULATORY AND MONITORING SUPPORT

2012-2013 LARRY WALKER ASSOCIATES SCOPE OF SERVICES

Overview

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 October 2012 through September 2013.

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.

LWA previously prepared recommendations for the 2012-2013 Combined Sewer System (CSS) monitoring year to sufficiently prepare the City for the Water Quality Assessment (WQA) report due to the Central Valley Regional Water Quality Control Board on June 30, 2013¹. LWA will provide ongoing progress reports and recommendations to complete this required study.

The following tasks will be completed under a new contract for the 2012-2013 monitoring year. These tasks further support the WQA and assist the City with NPDES permit compliance.

TASK 1. WATER QUALITY MONITORING SUPPORT

LWA will provide as-needed monitoring support to the City for all CSS river discharge events and facilitate all contract 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). The schedule of deliverables for all tasks is shown below:

Sub-Task No.	LWA Deliverable	Deliverable Date to City
1.1	Update Sampling and Analysis Plan	October 1, 2012
1.2	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
1.3	Data assessment memorandum, CIWQS upload	Within 24 calendar days of event completion

Sub-Task 1.1 Sampling Preparations

LWA will review and revise the 2012-2013 Sampling and Analysis Plan (SAP) to include laboratory analyses and specific sampling protocols, including toxicity. The review will consider permit compliance, logistics, safety, quality control samples, and industry-standard sampling protocols. It is assumed that the same laboratories and analytical methods contracted for 2011-2012 will be contracted for 2012-2013, and adjustments will be made if the Water Quality Assessment monitoring is complete.

Following review and update of the SAP, LWA will provide a field training session for the LWA field crew and other interested City field staff.

¹ This is the date given in the permit (p.21). Page F-44 gives a due date of January 30, 2013.

LWA will provide logistical support for all sampling events at all sites, including the receiving water locations, effluent locations and influent locations. LWA will prepare all sample bottles, bottle labels, and field log sheets for all locations. 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.

Sub-Task 1.2 Sample Collection

LWA will collect samples at the receiving water locations for 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 Supervising Plant Operator (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 City 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.

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 permit and Water Quality Assessment Plan. These services include analysis of acute toxicity and pathogen (giardia and cryptosporidium) samples at certain locations. The City will provide bacteriological analytical services directly through the City Water Treatment Laboratory. The budget estimate includes aquatic toxicity analysis, but does not include any required follow-up monitoring.

The permit and Water Quality Assessment Plan do not currently require follow-up toxicity assessments such as a toxicity identification evaluation (TIE) or toxicity reduction evaluation (TRE). However, such evaluations should be considered as part of this monitoring program to ensure that the nature of any observed toxicity is understood. 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.

Sub-Task 1.3 Data Review, Compilation, and CIWQS Upload

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 also provide data in a format that assists with California Integrated Water Quality System (CIWQS) Program uploads of other permit compliance data. 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 September 2012 Sampling and Analysis Plan (SAP) will detail the recommended roles and schedules for CIWQS reporting. 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).

Sub-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 (assuming for six months), targeting the season's first CSO.

TASK 2. CSS PERFORMANCE AND PERMIT COMPLIANCE REPORTING

The Permit requires the City to report on CSS operations. The LWA-led team will support the preparation of one-time reports, certain annually prepared reports, and overall coordination of the annual report. The Permit also requires multiple reports. This task combines activities that were previously discussed. The schedule of deliverables for all tasks is shown below:

Sub-Task No.	LWA Deliverable	Deliverable Date to City
2.1	Nine Minimum Controls 2011-12 Annual Report Sections Assigned by City	December 21, 2012
2.2	Annual Discharge Monitoring Report data reporting	January 15, 2013
2.3	Update to Plan of Operations	TBD
2.4	Draft Water Quality Assessment Report	March 15, 2013
2.5	Draft Control Study Workplan	March 1, 2013

Sub-Task 2.1 Assess Compliance with Nine Minimum Controls

According to the CSO Control Policy, a permittee is required to implement nine minimum controls (NMCs) that constitute the technology-based requirements of the CWA as applied to combined sewer facilities. This task will assess the City's compliance with the NMC permit requirements and associated EPA guidance.

The LWA-led team 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 developing the report format, and then compiling and reviewing the draft report as an attachment to the annual report due January 30.

The City is required to submit as part of its Nine Minimum Controls Annual Progress Report that is due on January 30th 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 Discharger shall propose revisions to the CSO control program (including the Nine Minimum Controls) to improve the efficiency and effectiveness of controls. LWA will provide an assessment of pollution prevention efforts based on data provided by the City. The results of the assessment may be incorporated into the Water Quality Assessment Report to explain current effluent quality and to project future improvements as additional control measures are implemented.

LWA will prepare the following report sections by December 21, 2012:

- C. Review and modify the pretreatment program
- 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 annual report due annually on January 30th. 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.

Sub-Task 2.2 DMR Reporting (Annual Only)

LWA will prepare the hard copy format of the annual datasheets for the Discharge Monitoring Report by January 15, 2013. The State is in the process of beta-testing electronic submittal of these EPA forms, which may be available for 2012 annual data reporting. If electronic data reporting is available, LWA will prepare the electronic deliverables for review by the City.

Sub-Task 2.3 Plan of Operations Updates

In 2012 LWA completed the draft Plan of Operations and revisions to meet several Permit requirements. The Permit also requires that the City maintain an updated version of this document. In 2012-13 LWA will assist the City with additional edits based on comments from the City and possibly the Regional Board. LWA will provide up to two additional revisions and assist with implementation of Plan of Operations within the City, including providing recommendations and technical assistance on deployment of an electronic version on the City intranet.

Sub-Task 2.4 Water Quality Assessment Report

LWA will prepare the Water Quality Assessment Report based on data collected through February 15, 2013 and existing data analyses. It is expected that the basis for the report will be data collected by the City and historical analyses of dilution. CSS model runs performed by other City consultants will be provided to LWA, in consultation with LWA and the City. It is expected that these model runs will include reconstructions of historical events as well as an analysis of discharge frequency under 2-3 management scenarios. These evaluations may be limited to qualitative interpretations of available data. The report will satisfy the Permit requirements and provide additional detail on methylmercury to inform the City on compliance with the Delta Methylmercury TMDL.

Sub-Task 2.5 TMDL and Regulatory Support

The City is required by the Delta Methylmercury TMDL to participate in the Phase 1 assessment phase. This initial phase requires an assessment of the CSS to comply with the wasteload allocation (WLA). The City plans to submit a conceptual workplan to the Technical Advisory Committee (TAC) in September 2012. LWA will coordinate preliminary sample collection of expected mercury and methylmercury samples and procure laboratory services from a qualified laboratory. LWA staff will collect inflow samples to both Pioneer Reservoir and the CWTP, as time permits prior to discharge events. If inflow samples are collected and no discharge occurs, the samples will not be analyzed. LWA will also coordinate collection of 2-3 solids samples prior to wash-down back to SRCSD.

LWA will prepare the Control Study Workplan in coordination with the City based on the concept proposal submitted to the TAC and their comments. LWA will consider any additional data collected to date and coordinate outcomes/recommendations from the Water Quality Assessment Report.

Sub-Task 2.6 General Regulatory Compliance Support

LWA will provide consulting services to assist the City with permit compliance including technical review of responses to Notices of Violations (NOV), as-needed preparation or review of comment letters on regulatory initiatives (e.g., proposed Policy or Total Maximum Daily Loads) that affect the CSS, etc.) LWA will assist the City with the annual update of the Plan of Operations and preparing annual reporting language summarizing changes to that document. LWA will provide as-needed technical assistance and support for communications with Regional Water Quality Control Board staff including meeting attendance, preparation of agenda or meeting notes with regulators.

TASK 3. PROJECT ADMINISTRATION

Sub-Task 3.1 Coordination and Project Management

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.

NOTES TO SCOPE OF WORK

1. The period during which the Larry Walker Associates services described herein will be performed will extend from approximately October 2012 through approximately September 2013. However, upon mutual consent of City and Larry Walker Associates, some activities may extend beyond this time period.
2. Remaining budget from FY2012/2013 may be utilized for assignments continuing in FY2013/2014.

ATTACHMENT 3 TO EXHIBIT B

City of Sacramento - Combined Sewer System Monitoring and Reporting Support FY2012-13 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.			
1.0 WATER QUALITY MONITORING SUPPORT								
1.1	<i>Sampling Preparations</i>	0	80	88	24	\$ -	\$ 4,000	\$ 39,600
1.2	<i>Sample Collection</i>	26	44	64	88	\$ 79,888	\$ 3,000	\$ 122,248
1.3	<i>Data Review, Compilation, and CIWQS Upload</i>	6	12	8	192	\$ -	\$ -	\$ 32,280
1.4	<i>Receiving Water Continuous Data Probes</i>	2	0	40	40	\$ 750	\$ 11,200	\$ 25,250
Sub TOTAL LABOR HOURS		34	136	200	344			
Sub TOTAL COSTS						\$ 80,638	\$ 18,200	\$ 219,378
2.0 CSS PERFORMANCE AND PERMIT COMPLIANCE REPORTING								
2.1	<i>Nine Minimum Controls and Annual Reporting</i>	24	0	40	8	\$ -	\$ 100	\$ 14,420
2.2	<i>DMR Reporting (Annual Only)</i>	2	0	12	12	\$ -	\$ 50	\$ 4,390
2.3	<i>Plan of Operations Update</i>	8	40	0	24	\$ -	\$ 100	\$ 13,660
2.4	<i>Water Quality Assessment Report</i>	40	100	8	8	\$ -	\$ 150	\$ 33,210
2.5	<i>TMDL and Regulatory Support</i>	40	40	0	8	\$ 13,200	\$ -	\$ 32,520
2.6	<i>As-needed Regulatory Reporting and Compliance</i>	60	24	0	0	\$ -	\$ -	\$ 19,920
Sub TOTAL LABOR HOURS		174	204	60	60			
Sub TOTAL COSTS						\$ 13,200	\$ 400	\$ 118,120
3.0 PROJECT MANAGEMENT								
3.1	<i>Coordination and Project Management</i>	60	0	0	0	\$ -	\$ -	\$ 15,000
Sub TOTAL LABOR HOURS		60	0	0	0			
Sub TOTAL COSTS						\$ -	\$ -	\$ 15,000
TOTAL LABOR HOURS		268	340	260	404			
TOTAL COSTS						\$ 93,838	\$ 18,600	\$ 352,498

Notes:

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

LARRY WALKER ASSOCIATES

Rate Schedule Effective July 1, 2012 – June 30, 2013

PERSONNEL	Rate \$/Hour	REIMBURSABLE COSTS
Principals		
Ashli Cooper Desai	\$250.00	Travel: Local mileage • Current IRS rate Transportation • Actual expense Auto rental • Actual commercial rate Fares • Actual expense Room • Actual expense Subsistence ⁽¹⁾ • 48.00 per day The rate for each meal as follows: ⁽¹⁾ Breakfast \$9.00 Lunch \$13.00 Dinner \$21.00 Incidentals \$5.00
Tom Grovhoug	\$265.00	
Brian Laurenson	\$250.00	
Larry Walker	\$265.00	
Mack Walker	\$250.00	
Associates		
Karen Ashby	\$230.00	
Denise Conners	\$230.00	
Betsy Elzufon	\$230.00	
Chris Minton	\$230.00	
Mitch Mysliwec	\$230.00	
Claus Suverkropp	\$230.00	
Senior Staff		
Kristine Cornellie	\$205.00	
Karen Cowan	\$205.00	
Diana Engle	\$205.00	
Gorman Lau	\$205.00	
Sandy Mathews	\$205.00	
Mike Trouchon	\$205.00	
Rebecca Winer-Skonovd	\$205.00	
Project Staff		
Alina Constantinescu	\$180.00	
Mike Marson	\$180.00	
Amy Storm	\$180.00	
Rachel Warren	\$180.00	
Reni Keane-Dengel	\$165.00	
Airy Krich-Brinton	\$165.00	
Kate Lundberg	\$165.00	
Hope M. Taylor	\$165.00	
Jeff Walker	\$165.00	
Bryant Alvarado	\$140.00	
Michelle Boeckx	\$140.00	
Steve Maricle	\$140.00	
Danielle Moss	\$140.00	
Jeannette Sager	\$140.00	
Kathryn Walker	\$140.00	
Patrick Wong	\$140.00	
Amber Shiau	\$130.00	
Greg Reide	\$105.00	
Mashon Jones	\$75.00	
Denise Parren	\$75.00	
Adriana Stovall	\$75.00	
Douglas Swehla	\$75.00	
		Report Reproduction and Copying: • Actual outside expense • \$0.08 per black and white copy, in-house • \$0.89 per color copy, in-house • \$1.95 per binding, in-house Special Postage and Express Mail: • Actual expense Other Direct Costs: • Actual expense Daily Equipment Rental Rates: • All single parameter field meters (pH, EC, D.O., Turbidity) \$25.00 each • Multi-parameter field meters \$35.00 • Peristaltic Sampling Pump \$35.00 • Professional grade GPS unit \$25.00 • Digital Flow Meter \$45.00 • Digital Fluorometer \$45.00 • Multi-parameter Data Sonde (with telemetry) - first day \$200.00 - each additional day \$40.00
		Subcontractors: Actual expense plus 10% fee

Note: ⁽¹⁾ Charged when overnight lodging is required.