

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management Joint
Powers Authority*

AGENDA

Special Meeting of the Board of Directors

Thursday, May 14, 2018 at 10:00 a.m.

Clearwater Building (2nd Floor), 16401 Paramount Blvd., Paramount, CA

1. Roll Call

2. Determination of a Quorum

3. Additions to Agenda (Govt. Code Sec. 54954.2(b))

4. Oral Communications to the Board

This is an opportunity for members of the public to address the Board on any item under the jurisdiction of the agency. Depending upon the subject matter, the Board may be unable to respond until the item can be posted on the agenda at a future meeting in accordance with provisions of the Brown Act.

**5. Approve Resolution No. 2018-2, A Resolution of the Gateway Water Management Authority
“GWMA” Recognizing and Commending Christopher S. Cash (Enclosure)**

6. Consent Calendar: (Acted as one item unless withdrawn by request)

- a. Minutes of the Board Meeting of April 12, 2018 (Enclosure)
- b. Approve the Warrant Register for May 2018 as presented (Enclosure)
- c. Receive and File the Update on Expenditures for Legal Counsel Services (Enclosure)
- d. Ratify Transfer in the amount of \$1,000,000 from GWMA's Wells Fargo Checking Account to GWMA's LAIF Account (Enclosure)

7. Discussion/Action Regarding Policy and Procedures - Collection and Use of Direct and Indirect Administrative Fees (Enclosure)

- a. Approve the Policy and Procedures – Collection and Use of Direct and Indirect Administrative Fees as presented

8. Workshop – FY2018/19 GWMA Administrative Budget (Enclosure)

9. Direct and Indirect Administrative Fees for FY2018/19 (Enclosure)

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



- a. Approve FY2018/19 GWMA Member Direct Cost Administrative Fees at a rate of 3% of the Member's cost share allocation for the particular watershed, grant, program or other activities
- b. Approve FY2018/19 GWMA Non-Member Direct Cost Administrative Fees at a rate of %5 of the Non-Member's cost share allocation for the particular watershed, grant, program or other activities
- c. Approve FY2018/19 GWMA Non-Member Indirect Cost Administrative Fees at a rate of 3.76% of the Non-member's cost share allocation for the particular watershed, grant, program or other activities

10. Gateway Integrated Regional Water Management (IRWM) Plan Update/Amendment (Enclosure)

- a. Direct Staff to Issue a Notice to Proceed to GEI Consultants under the On-Call Policies and Procedures to Amend the Gateway IRWM Plan as presented, for a cost not to exceed \$23,248, or
- b. Direct Staff to not update the Gateway IRWM Plan and only pursue project grants using the Greater LA IRWM Plan as the IRWM Plan requirement for various grant programs

11. Status Report Update – GWMA Funding Strategy & Grants Program for FY 2017/18 (Enclosure)

- a. Receive and file status report update – GWMA Funding Strategy & Grants Program for FY 2017/18

12. Discussion/Action Regarding Agreement for Cost Sharing for the Installation of Monitoring Equipment and Monitoring Pursuant to the Harbor Toxic Pollutants TMDL (Enclosure)

- a. Approve the Agreement Template to be issued to GWMA Members/Non-Members to provide administrative and contractual services on behalf of the Harbor Toxic Upstream participants for the Harbor Toxic Pollutant TMDL Monitoring Program as presented
- b. Authorize the Chair to execute the Agreements with GWMA Members/Non-Members

13. Third Amendment to the Agreement between GWMA and John L. Hunter & Associates, Inc. for the Lower San Gabriel River Watershed Group (Enclosure)

- a. Authorize staff to issue a Third Amendment to the Professional Services Agreement between GWMA and John L. Hunter & Associates, Inc. in an amount not to exceed \$6,978,603 for services through FY2020 with three 1-year extension options for LSGR
- b. Authorize Chair to sign the Third Amendment to the Professional Services Agreement between the GWMA and John L. Hunter & Associates, Inc. for LSGR.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



14. Third Amendment to the Agreement between GWMA and John L. Hunter & Associates, Inc. for the Lower Los Angeles River Watershed Group (Enclosure)

- a. Authorize staff to issue a Third Amendment to the Professional Services Agreement between GWMA and John L. Hunter & Associates, Inc. in an amount not to exceed \$5,602,679 for services through FY2020 with three 1-year extension options for LLAR
- b. Authorize Chair to sign the Third Amendment to the Professional Services Agreement between the GWMA and John L. Hunter & Associates, Inc. for LLAR

15. Appointments to Executive Management Contract Ad Hoc Committee (Enclosure)

- a. Establish a 5 to 7-member Ad Hoc Committee that includes members of the Executive Committee to meet with the Executive Officer over the next several months

16. Gateway Region Watershed Management Groups Oral Report

- a. Lower Los Angeles River Upper Reach 2 Watershed Group
- b. Lower Los Angeles River Watershed Group
- c. Los Cerritos Channel Watershed Group
- d. Lower San Gabriel River Watershed Group

17. Executive Officer's Oral Report

18. Directors' Oral Comments/Reports

19. Adjournment

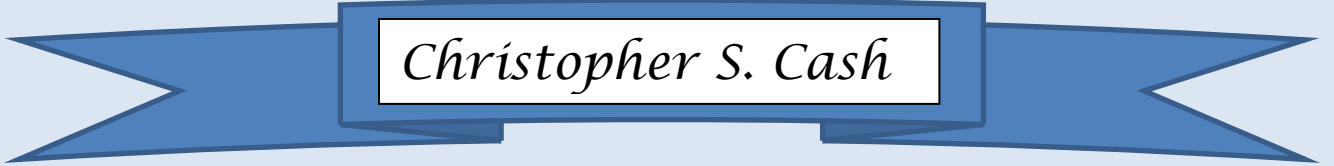
Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

Resolution No. 2018-2

A Resolution of the Gateway Water Management Authority “GWMA” recognizing and commending Christopher S. Cash



Christopher S. Cash

Whereas, Christopher S. Cash was appointed as the City of Paramount representative on the Board of the GWMA on September 4, 2007;

Whereas, Christopher S. Cash served as Vice-Chair of the Board of the GWMA from November 8, 2007 to November 12, 2009;

Whereas, Christopher S. Cash served as Chair of the Board of the GWMA from November 12, 2009 to May 14, 2018;

Whereas, Christopher S. Cash has spent countless hours supporting GWMA, providing leadership and enhancing the goals and objectives of the GWMA;

Whereas, Christopher S. Cash actively advocated on behalf of the GWMA resulting in many successes;

Now Therefore Be It Resolved, Christopher S. Cash, on this 14th day of May, 2018, is hereby highly commended and given gratitude for his outstanding leadership and service to the GWMA on behalf of the 2 million residents in the Gateway Region.

Adriana Figueroa, Vice-Chair

Kelli Tunnicliff, Secretary/Treasurer

AGENDA ITEM NO. 6A

**MINUTES OF THE GATEWAY WATER MANAGEMENT AUTHORITY
LOS ANGELES GATEWAY REGION
INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
BOARD
AT PARAMOUNT, CALIFORNIA
THURSDAY, APRIL 12, 2018**

A regular meeting of the Board of Directors of the Gateway Water Management Authority was held on Thursday, April 12, 2018 at 12:00 p.m. at the Clearwater Building, 2nd Floor, 16401 Paramount Blvd., Paramount, CA.

Chair Chris Cash called the meeting to order at 12:07 p.m. Roll was called by Ms. Weiss and a quorum of the Board was declared.

BOARD MEMBERS PRESENT:

Okina Dor	Artesia
Bill Pagett (alternate)	Bell
Chau Vu	Bell Gardens
Sandi Linares-Plimpton (alternate)	Central Basin MWD
Mike O'Grady (alternate)	Cerritos
Gina Nila	Commerce
Aaron Hernandez-Torres	Cudahy
Mohammad Mostahkami	Downey
Christina Dixon (alternate)	Huntington Park
Konya Vivanti (alternate)	Lakewood
Melissa You	Long Beach
Christopher Garner	Long Beach Water Dept.
Adriana Figueroa	Norwalk
Christopher Cash	Paramount
Robert Delgadillo (alternate)	Pico Rivera
Frank Beach	Santa Fe Springs
Kelli Tunnickliff	Signal Hill
Claudia Arellano (alternate)	Vernon
Phuong Nguyen (alternate)	Whittier

STAFF AND GUESTS ON SIGN-IN SHEET:

Grace Kast	Executive Officer
Toni Penn	Admin/Accounting Manager
Bibi Weiss	Administrative Asst/Grants Coordinator
Nick Ghirelli	Legal Counsel
Bill Minasian	Downey Resident
Fred Cardenas	City of Vernon
Kenner Guerrero	City of Pico Rivera
Andres Rangel	City of Cudahy

Kekoa Anderson
Renee Graves
Gerry Greene
Desi Alvarez
Edel Vizcarra

Koa Consulting
Clifton Larson Allen, LLP
CWE
MCM Management
LA County Dept.of Public Works

ITEM 3- ADDITIONS TO THE AGENDA

None.

ITEM 4 – ORAL COMMUNICATIONS TO THE BOARD

None.

Director Tunnickliff entered the meeting at 12:12 p.m.

Director Dixon entered the meeting at 12:21 p.m.

Director Figueroa entered the meeting at 12:29 p.m.

ITEM 5 – PRESENTATION: SAFE, CLEAN WATER PROGRAM

Ms. Kast introduced Edel Vizcarra from the Los Angeles County Department of Public Works. Mr. Vizcarra spoke about the water-scarce area of Los Angeles County and how over 100 billion gallons of water was lost before being able to capture it for use. He also informed the Board about how stormwater picks up chemicals and toxins as it flows through streets and other developed areas before flowing into our rivers and streams and into the ocean. He stated that this threatened not only marine life, but also public health.

Mr. Vizcarra informed the Board that the County and the Los Angeles County Flood Control District, were reaching out to stakeholders throughout local communities to get input on how to create a Safe, Clean Water Program, to ensure safe and clean water resources for Los Angeles County residents.

Mr. Vizcarra informed the Board that the next steps would be a Program Elements Workshop on April 19, 2018. He stated that there was a Stakeholder Advisory Committee Meeting scheduled for May 9, 2018. He also invited everyone to attend a Public Hearing on June 26, 2018. Mr. Vizcarra stated that if approved by the Board of Supervisors, this Safe, Clean Water Program was scheduled to go to Election on November 6, 2018.

ITEM 6 – CONSENT CALENDAR

Ms. Kast reported to the Board that, on the warrant list, there were a series of checks for the reimbursement to participants in the Prop 84 Stormwater Round 2. She stated that once GWMA receives the pending reimbursement check from the State, the checks would be released to the participants in that project.

Director Mostahkami motioned to approve the consent calendar as presented. The motion was seconded by Director Nila and was approved by the following voice vote:

AYES: DOR, PAGETT, VU, LINARES-PLIMPTON, O'GRADY, NILA, HERNANDEZ-TORRES, MOSTAHKAMI, DIXON, VIVANTI, YOU, GARNER, FIGUEROA, CASH, DELGADILLO, BEACH, TUNNICLIFF, ARELLANO, NGUYEN

NOES: NONE

ABSTAIN: NONE

ITEM 7 – STUDY SESSION: GWMA'S FY 2018/19 ADMINISTRATIVE BUDGET PREPARATION

Ms. Kast and a representative from GWMA's Accounting Consultant, Ms. Renee Graves, conducted a Study Session to review the proposed budget framework for FY2018/19. Ms. Kast and Ms. Graves reviewed Policies and Procedures in Accordance with Generally Accepted Accounting Principles (GAAP), reviewed budgeting preparations, reviewed Administrative Costs collected as a Fiduciary Agency, reviewed the Operating Budget framework for FY2018/19 and discussed plans moving forward.

After general discussion, the Board directed staff to develop a Policy and Procedures for the collection of Direct and Indirect Administrative Costs and bring this Policy and Procedures back to the Board in May for consideration.

ITEM 8 – SECOND AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT BETWEEN THE GWMA AND CWE CORPORATION FOR THE LOWER LOS ANGELES RIVER UPPER REACH 2 (LAR URS) WATERSHED GROUP

Ms. Kast reported that in February 2015, GWMA entered into a Professional Services Agreement (PSA) with CWE Corporation to implement a Coordinated Integrated Monitoring Program for the LAR UR2 in an amount not to exceed \$537,205 (\$240,000 for FY 2014/15 and \$297,205 for FY 2015/16). Ms. Kast stated that this PSA was for the period of February 19, 2015 through February 19, 2016 followed by a First Amendment through February 10, 2018.

She stated that the first amendment allowed water quality monitoring work that was originally planned to begin during FY2014/15 to start in FY 2016/17.

Ms. Kast stated that the LAR UR2 Watershed Group requested that GWMA issue a Second Amendment to this PSA in order to allow CWE to continue work through FY 2018/19. Ms. Kast informed the Board that this Amendment would be retroactively effective as of February 18, 2018 and would expire on December 31, 2019, with an additional cost not to exceed \$756,965.10

After discussion, Director Mostahkami requested that the verbiage “Approved As To Form” by General Counsel be added. Director Nila motioned to approve the Second Amendment to the Professional Services Agreement Between the GWMA and CWE Corporation for the Lower Los Angeles River Upper Reach 2 Watershed Group as presented with Director Mostahkami’s request. The motion was seconded by Director Vu and was approved by the following voice vote:

AYES: DOR, PAGETT, VU, LINARES-PLIMPTON, O’GRADY, NILA, HERNANDEZ-TORRES, MOSTAHKAMI, DIXON, VIVANTI, YOU, GARNER, FIGUEROA, CASH, DELGADILLO, BEACH, TUNNICLIFF, ARELLANO, NGUYEN

NOES: NONE

ABSTAIN: NONE

ITEM 9 – AMENDMENT TO SUBRECIPIENT AGREEMENT BETWEEN GWMA AND THE CITY OF LAKEWOOD FOR THE PROP 84 2015 IMPLEMENTATION GRANT – PARAMOUNT BLVD. TURF REPLACEMENT PROJECT – PROJECT #5

Ms. Kast reported that on August 11, 2016, the GWMA Board signed a Subrecipient Agreement with the City of Lakewood for their Paramount Boulevard Turf Replacement Project, under the Prop 84 2015 Implementation Grant. Ms. Kast stated that this subrecipient agreement would be expiring on May 4, 2018.

Ms. Kast stated that the schedule was delayed due to the length of time for execution of the grant between the Department of Water Resources and the Los Angeles County Flood Control District. Ms. Kast reported that due to these delays, the City of Lakewood was unable to move forward with their project, thus they were unable to stay within their original schedule and requested that GWMA extend the Subrecipient Agreement until January 1, 2021.

Ms. Kast referred to a First Amendment to the Subrecipient Agreement which was prepared by GWMA’s Legal Counsel. She reported that the only change to the Subrecipient

Agreement was the extension of the termination date from May 4, 2018, to January 1, 2021, as requested by the City of Lakewood.

Director Figueroa motioned to approve the First Amendment to the Subrecipient Agreement between GWMA and the City of Lakewood, for the Prop 84, 2015 Implementation Grant – Paramount Boulevard Turf Replacement Project – Project #5, as presented. The motion was seconded by Director Delgadillo and approved by the following voice vote:

AYES: DOR, PAGETT, VU, LINARES-PLIMPTON, O'GRADY, NILA, HERNANDEZ-TORRES, MOSTAHKAMI, DIXON, VIVANTI, YOU, GARNER, FIGUEROA, CASH, DELGADILLO, BEACH, TUNNICLIFF, ARELLANO, NGUYEN

NOES: NONE

ABSTAIN: NONE

Director Pagett left at 1:30 pm.

ITEM 10 -- AGREEMENT BETWEEN GWMA AND KOA CONSULTING

Ms. Kast reported that at the last GWMA Board Meeting in March, the Board approved a proposal from Koa Consulting, for augmentation of current services between GWMA and the Gateway Cities Council of Government (COG). Ms. Kast stated that the GWMA Board had also Approved a FY 2017/18 budget line item transfer from the General Reserve to Special Projects up to an amount of \$75,000 in order to cover this expense.

Ms. Kast reported that Legal Counsel drafted an Agreement between GWMA and the COG for Board approval in April. Ms. Kast stated that after the COG's legal counsel reviewed the agreement, they determined that the current agreement between the COG and Koa Consulting was not set up for an expansion of augmented services with GWMA

Ms. Kast reported that GWMA staff was now requesting that Koa Consulting be added to GWMA's approved On-Call Consulting List. She stated that the approved On-Call Consulting Policy, Section A (2) stated "Consideration to add a consultant(s) to the list with Statement of Qualifications (SOQ) may be recommended to the full board for approval by majority vote". Ms. Kast added that staff recommended that Koa Consulting be added to the approved On-Call Consulting List under the categories of: Feasibility Study and Project and/or program report writing; Project Management; Coordination and manage watershed projects; Engagement in regional planning grant and/or other opportunities including development of associated documents; Grant writing and/or grant implementation management; Strategic local and/or regional planning efforts, including development of associated documents.

Ms. Kast stated that given the unique circumstances that involved Koa Consulting's existing work with the COG, staff was not releasing an RFP for this contract. She stated that staff and legal counsel had reviewed GWMA's On-Call Consulting Policy along with the Goods and Services Policy and it was determined that the GWMA Board could allow for a contract to be awarded under this unique circumstance. Ms. Kast reported that both policies specifically allowed the Board's selection of a sole source consultant due to unique services or programs.

Ms. Kast introduced Kekoa Anderson, from Koa Consulting. Mr. Anderson spoke to the Board and provided an opportunity for any questions.

Director Mostahkami motioned to approve the addition of Koa Consulting to the On-Call Consulting List per the Statement of Qualifications; Approve entering into an On-Call Consulting Agreement with Koa Consulting in accordance with the On-Call Consulting Policy and Good and Services Policy; Authorize the Chair to sign the 5-year On-Call Agreement between GWMA and Koa Consulting; and Authorize the Executive Officer to issue a Notice to Proceed for a one year, time and material scope of services in the amount not to exceed \$75,000, as presented. The motion was seconded by Director Figueroa and approved by the following voice vote:

AYES: DOR, VU, LINARES-PLIMPTON, O'GRADY, NILA, HERNANDEZ-TORRES, MOSTAHKAMI, DIXON, VIVANTI, YOU, GARNER, FIGUEROA, CASH, DELGADILLO, BEACH, TUNNICLIFF, ARELLANO, NGUYEN

NOES: NONE

ABSTAIN: NONE

ITEM 11 – GATEWAY REGION WATERSHED MANAGEMENT GROUPS ORAL REPORT

Lower Los Angeles River Upper Reach 2 Watershed Group

Director Vu reported that they were moving forward and that a Project Manager would be announced on April 23, 2018, for the Prop 1-John Anson Ford Park Project.

Lower Los Angeles River Watershed Group

None.

Los Cerritos Channel Watershed Group

None.

Lower San Gabriel River Watershed Group

None.

ITEM 12 – EXECUTIVE OFFICER’S ORAL REPORT

Ms. Kast reported that GWMA received a completion letter from the State Water Resources Control Board (SWRCB) dated March 5, 2018, stating that the Final Project Report and Deliverables had been approved for the Prop 84 – Stormwater Grant Round 2. She stated that the final invoice in the amount of \$809,820.00 was being processed. Ms. Kast reported that GWMA would be receiving a separate letter from the SWRCB indicating final payment of the final invoice, release of retention, and disencumbering of any remaining grant funds. She stated that this would complete the grant disbursement process for this grant.

Ms. Kast stated that an RFP was issued on March 9, 2018 for the Harbor Toxics Regional Monitoring and Reporting Proposal and that the due date for submittal’s was April 9, 2018. She reported that GWMA received a total of three (3) proposals from the following companies: Anchor QEA, Kinnetic Laboratories, Inc., and Latitude Environmental. Ms. Kast reported that the RFP’s were forwarded to James Vernon for his selection process and she planned to bring a recommended selection back to the GWMA Board for approval in the near future.

Ms. Kast reported that the USBR WaterSMART Grant was almost completed.

Ms. Kast reported that Director Mostahkami would be retiring on May 2, 2018, after 34 years of Public Service.

ITEM 13 – DIRECTORS’ ORAL COMMENTS/REPORT

Director Mostahkami thanked Ms. Kast and Chair Cash and commended them on doing a great job.

Director Vivanti announced that there was a conflicting meeting on the date of GWMA’s May Board Meeting. After discussion, staff was requested to cancel the scheduled May 10 Board meeting and get alternate dates from the Board Members and Alternates and agendize a special meeting in May.

The meeting was adjourned at 1:45 PM. to closed session.

ITEM 14 – CLOSED SESSION – PUBLIC EMPLOYEE PERFORMANCE EVALUTION

No reportable action.

The meeting was adjourned at 2:35 PM to a Special GWMA Board Meeting. Date and location to be determined.

Kelli Tunnichliff, Secretary/Treasurer

Date

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 6(B): Approve the Warrant Register for May 2018

SUMMARY:

The Warrant Register is a listing of general checks issued since the last warrant register. Warrants will be signed by 2 of the 3 Board Officers and released by Toni Penn, serving as the Administrative/Accounting Manager of the Gateway Water Management Authority, upon Board Approval.

DISCUSSION:

The Warrant Register for expenditures dated April 2018 in the amount of \$338,355.76 are submitted for approval. Invoices and supporting documentation are available for review at the office of the GWMA.

FISCAL IMPACT:

The Warrant Registers totals \$338,355.76. Funds to cover payment are available in the GWMA budget.

RECOMMENDATION:

Approve the Warrant Register for May 2018 as presented.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

AGENDA ITEM NO. 6b
WARRANT REGISTER
Disbursement Journal
May-18

Invoice Date	Vendor	Invoice Number	Description	Amount
5/2/2018	Anchor QEA	56527	Harbor Toxics TMDL Monitoring for FY 16/17	\$ 13,971.50
5/2/2018	Anchor QEA	56690	Harbor Toxics TMDL Monitoring for FY17/18	\$ 39,182.23
5/1/2018	City of Paramount	3832	Rent - May 2018	\$ 339.22
5/1/2018	City of Paramount	3834	Reimbursment for April Meeting Expenses	\$ 32.21
4/9/2018	Civiltec Engineering Inc.	38749	Prop 84 2015 Grant Adminisitrative Services	\$ 1,485.00
4/24/2018	CliftonLarsonAllen LLP	1790354	Accounting/Budgeting Services for April	\$ 3,000.00
5/1/2018	CliftonLarsonAllen LLP	1821469	Ongoing Accounting Services	\$ 1,500.00
5/4/2018	CWE	18111	Upper Reach 2 WMP and CIMP Development	\$ 126,681.34
4/30/2018	Gateway Cities COG	4/30/2018	Reimbursement for Office Supplies	\$ 190.13
5/1/2018	GK Consulting	18-4-DACIP-GWMA	GLAC DAC Chair Activities for April 2018	\$ 2,827.50
05/01/18	GK Consulting	18-4-GWMA	Professional and Accounting Services	\$ 29,813.13
04/18/18	Joe A Gonsalves & Son	156508	Legislative Advocacy Services for May	\$ 2,083.00
04/29/18	Richard Watson & Associates	18-192-003-004	LCC Watershed Monitoring Program for March	\$ 114,061.88
04/12/18	Richards Watson Gershon	216477	Legal Services - General	\$ 2,519.46
04/12/19	Rodger's Catering	29388	Meeting Expense	\$ 439.10
05/08/18	Toni Penn	5-8-18-expense	Plaque & Engraving Expense for Board Member	\$ 230.06
				<u>\$ 338,355.76</u>

Reviewed and Approved by:


Kelli Tunnicliff, GWMA Secretary/Treasurer

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 6C: Status of total legal expenditures for General Legal Counsel Services for FY 2017/18

SUMMARY:

At the Board meeting in January 2018, the Board increased the budget for legal counsel services from \$50,000 to \$88,000 for FY 2017/18 to address unique and unexpected legal issues. At that time, the Board also directed staff to provide monthly updates on total expenditures for legal counsel services for FY 2017/18.

Legal Counsel Services Update:

\$88,000.00	FY2017/18 Budget amount for Legal Counsel services
<u>\$76,714.62</u>	Expenditures for Legal Counsel services through March 2018
\$11,285.38	Remaining budget amount available through June 30, 2018

FISCAL IMPACT:

The total expenditures for Legal Counsel services through March 2018 total \$76,714.62. Funds to cover payment are available in the GWMA budget.

RECOMMENDATION:

Receive and file the update on expenditures for Legal Counsel services.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 6D: Ratify Transfer of Funds from GWMA's Wells Fargo Checking Account to GWMA's LAIF Account

SUMMARY:

In September 2015, the Board approved the GWMA's Accounting Policies and Procedures Manual. Included in this Manual was GWMA's Investment Policy. At the Board meeting in January 2017, the Board directed staff to establish a Local Agency Investment Fund (LAIF in the State Treasury under Government Code Section 16429.1 and approved the following procedures:

- a. Authorize the Chair, Vice-Chair and/or Secretary/Treasurer to initiate LAIF transfers in-out and to/from GWMA's Wells Fargo Checking account and that two of the three must sign formal written approval;
- b. The written approval authorizes staff to complete LAIF transfer in/out and to/from GWMA's Wells Fargo Checking account;
- c. GWMA Board to ratify transaction under the Consent Calendar;
- d. Authorize the Secretary/Treasurer to verify that all deposits and withdrawals have been properly approved and that all deposits and withdrawals to the GWMA's bank account that paid/received the funds to/from LAIF.

On April 19, 2018, GWMA's Chair and Secretary/Treasurer initiated a transfer in the amount of \$1,000,000 from GWMA's Wells Fargo Checking account to GWMA's LAIF account for investment/interest earning opportunities. Staff is now recommending that the Board ratify this transaction.

FISCAL IMPACT:

None.

RECOMMENDATION:

Ratify transfer in the amount of \$1,000,000 from GWMA's Wells Fargo Checking account to GWMA's LAIF account.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 7: DISCUSSION/ACTION REGARDING POLICY AND PROCEDURES – COLLECTION AND USE OF DIRECT AND INDIRECT ADMINISTRATIVE FEES

BACKGROUND

At the April 12, 2018 Board meeting, the Board directed staff and GWMA's Accounting Consultant to develop a policy for Board approval regarding policy for the collection and use of direct and indirect administrative fees.

The purpose of this policy is to identify direct and indirect administrative costs to be assessed to GWMA members and/or GWMA non-members. Allocating these direct and indirect costs provides sound fiscal management by distributing the costs incurred by the GWMA for specific work under agreement and MOUs with both GWMA members and GWMA non-members. The Government Finance Officers Association (GFOA) encourages governments to allocate their direct and indirect costs through their Best Practices and Advisories.

Direct administrative costs are those costs that are directly attributed to a watershed, grant, program or other activity outside of general membership-related responsibilities. These would include direct administrative staff and direct legal costs.

The Direct Administrative Fees as a percentage of invoices for GWMA members and non-members will be set each fiscal year by a vote of the Board of Directors. This percentage will range from 0% to 5% for members and 5% to 10% for non-members and will be invoiced and collected in accordance with the MOU's, Agreements, Grant Program or other appropriate program being assisted by GWMA. Any funds not expended from annual Direct Administrative Fees collected from GWMA members and non-members, will be credited back to the Watershed, grant or program and may be used to reduce costs at any time per written approval by a designated and authorized representative. In the event that Direct Administrative Costs exceed what has been collected for the fiscal year, GWMA will notify the authorized representative of the shortfall and the amount remaining in their respective reserve funds, if any. GWMA will then seek direction from the authorized representative to remedy the shortfall.

Indirect administrative costs are those costs that are not readily identified with a particular grant, contract project function or activity but are necessary for the general operations of the organization and the conduct of activities. These are also called overhead, administrative, or general operating expenses and are essential. These would include professional services

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



(excluding direct costs associated with MOU's/Grants/Programs); legal services (excluding direct costs associated with MOUs/Grants/Programs); office rent; annual audit; office expenses (including supplies, postage, printing costs, equipment); web services; outside accounting services; government relations; general liability and crime insurance; general technology updates; miscellaneous administrative costs. Indirect costs are calculated using a generally accepted accounting principle:

A. Total Indirect Costs (Total from Previous Audited Financials) = \$XX.XX

B. Base Costs (Previous Audited Expenses less Indirect Costs = \$XX.XX

C. Indirect Cost Rate (A divided by B) X.XX%

GWMA members will not be assessed for Indirect Costs as GWMA members are required to pay annual membership dues and thus are contributing to general costs in support of GWMA. The Indirect Administrative Fees as a percentage of invoices for GWMA non-members will be set each fiscal year by a vote of the Board of Directors. Percentages will range from 2% to 5% and will be invoiced and collected in accordance with the MOUs, Agreements, Grant Program or other appropriate program being assisted by GWMA. All funds collected for Indirect Administrative Costs collected from GWMA non-members will be used to offset indirect costs of the GWMA and will not be refunded/credited back to GWMA non-members or the Watershed, Grant or Program.

RECOMMENDATION

- a. Approve the Policy and Procedures – Collection and Use of Direct and Indirect Administrative Fees as presented

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

GATEWAY WATER MANAGEMENT AUTHORITY
POLICY AND PROCEDURES

Collection and Use of Direct and Indirect Administrative Fees

The purpose of this policy is to identify Direct Administrative Costs and Indirect Administrative Costs to be assessed to GWMA members and/or GWMA non-members. Allocating Direct and Indirect Costs provides sound fiscal management by distributing the costs incurred by the GWMA for specific work under agreements and MOUs with members and non-GWMA members. The Government Finance Officers Association (GFOA) encourages governments to allocate their direct and indirect costs through their Best Practices and Advisories.

DIRECT ADMINISTRATIVE COSTS

Direct Administrative Costs are costs that are directly attributed to a watershed, grant, program or other activity outside of general membership-related responsibilities.

Direct Administrative Costs will include:

- Direct Administrative Staff Costs
- Direct Legal Costs

INDIRECT ADMINISTRATIVE COSTS

Indirect Administrative Costs represent the expenses of doing business that are not readily identified with a particular grant, contract, project function or activity, but are necessary for the general operations of the organization and the conduct of activities.

Indirect expenses, also called “overhead,” “administrative,” or “general operating” expenses, are essential to all of the organization’s programs yet difficult to attribute directly to individual programs.

Indirect Costs will include:

- Professional Services (excluding direct costs associated with MOUs/Grants/Programs)
- Legal Services (excluding direct costs associated with MOUs/Grants/Programs)
- Office Rent
- Annual Audit
- Office Expenses (includes supplies, postage, printing costs, equipment)
- Web Services
- Outside Accounting Services

- Government Relations
- General Liability and Crime Insurance
- General Technology Updates
- Miscellaneous Administrative Costs

GWMA Members Administrative Fees

The Direct Administrative Fee is a percentage of the invoice for each GWMA member and will be set each fiscal year by a vote of the Board of Directors. The percentage will range from 0% to 5% of the invoiced amount (e.g., cost share amount) and will be invoiced and collected in accordance with the MOUs, Agreements, Grant Program or other appropriate program being assisted by GWMA. GWMA members will not be assessed for Indirect Costs as GWMA Members are required to pay annual membership dues and thus are contributing to general costs in support of GWMA.

Any unspent funds from annual Direct Administrative Fees collected from GWMA members will be credited back to the Watershed, grant or program and may be used to reduce/offset costs at any time per written approval by a designated and authorized representative of a group (i.e., watershed group chair) or, in certain circumstances the individual member, and in accordance with the applicable MOU or agreement. In the event that Direct Administrative Costs exceed what has been collected for the fiscal year, GWMA will notify the authorized representative of the shortfall and the amount remaining in their respective reserve funds, if any. GWMA will request and receive direction from the authorized representative to remedy the shortfall. If no reserve funds are available, GWMA will coordinate with the authorized representative to invoice the participants and collect funds for the shortfall.

GWMA Non-Members Administrative Fees

The Direct Administrative Fees is a percentage of the invoice for each GWMA non-member and will be set each fiscal year by a vote of the Board of Directors. Percentages will range from 5% to 10% of the invoiced amount (e.g., cost share amount) and will be invoiced and collected in accordance with the MOUs, Agreements, Grant Program or other appropriate program being assisted by GWMA. Any remaining funds from annual Direct Administrative Costs collected from GWMA non-members will be credited back to the Watershed, grant or program and may be used to reduce/offset costs at any time per written approval by a designated and authorized representative or, in certain circumstances the individual member, and in accordance with the applicable MOU or agreement. In the event that Direct Administrative Costs exceed what has been collected during the fiscal year, GWMA will notify the authorized representative of the shortfall and the amount remaining in their respective reserve funds, if any. GWMA will request and receive direction from the authorized representative to remedy the shortfall. If no reserve funds are available,

GWMA will coordinate with the authorized representative to invoice the participants and collect funds for the shortfall.

The Indirect Administrative Fees as a percentage of invoices for GWMA non-members will be set each fiscal year by a vote of the Board of Directors. Percentages will range from 2% to 5% of the invoiced amount (e.g., cost share amount) and will be invoiced and collected in accordance with the MOUs, Agreements, Grant Program or other appropriate program being assisted by GWMA. All funds collected for Indirect Administrative Costs collected from GWMA non-members will be used to offset indirect costs of the GWMA and will not be refunded/credited back to GWMA non-members or the Watershed, Grant or Program.

AMENDMENT OF POLICY

The Board of Directors may amend this Policy & Procedures - Collection and Use of Direct and Indirect Administrative Fees or approve exceptions to any part of this policy at any time by a majority vote at its regular meeting.

AGENDA ITEM NO. 8

Gateway Water Management Authority
DRAFT FY 2018/2019 Operating Budget

A		B	C	D	E
DESCRIPTION	FY 15/16 Actuals	FY 16/17 Actuals	Current FY 17/18 Admin Budget	FY 17/18 Actuals & Year-End Projections	FY 18/19 Admin Budget
REVENUES					
Dues from Member Agencies	\$ 369,500	\$ 386,500	\$ 398,000	\$ 398,000	\$ 399,500
Administrative Contribution from Watersheds and Watershed Grants	\$ 62,791	\$ 62,053	\$ 88,535	\$ 117,852	\$ 79,105
Administrative Contributions from GWMA Grants and Sub-recipients	\$ 36,000	\$ 211,175	\$ -	\$ -	\$ -
DACIP Proposal Development Grant		\$ -	\$ 14,326	\$ -	\$ 14,326
Interest Income	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
TOTAL REVENUES	\$ 473,291	\$ 664,728	\$ 505,861	\$ 520,852	\$ 497,931
OPERATING EXPENSES					
Professional Services - General Operations	\$ 272,000	\$ 277,000	\$ 322,000	\$ 322,000	\$ 322,500
General Counsel	\$ 47,224	\$ 52,413	\$ 88,000	\$ 88,000	\$ 60,000
Government Relations	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Meeting Expenses	\$ 4,487	\$ 6,477	\$ 6,400	\$ 6,400	\$ 6,500
Office Supplies, Postage, Notices, Misc.	\$ 3,942	\$ 1,765	\$ 1,500	\$ 3,600	\$ 5,000
Office Rent	\$ 3,870	\$ 3,964	\$ 4,071	\$ 4,071	\$ 4,071
Website Services	\$ 1,617	\$ 307	\$ 500	\$ 500	\$ 500
Postage, notices, misc.	\$ 345	\$ -	\$ 250		\$ -
Insurance	\$ 10,086	\$ 11,147	\$ 13,000	\$ 12,000	\$ 12,000
Authorized Conferences, Travel & Sponsorships	\$ -	\$ 905	\$ 2,000	\$ -	\$ 2,000
Organization Memberships	\$ 5,700	\$ -	\$ 3,000	\$ 1,000	\$ 3,000
Audit	\$ 9,100	\$ 9,450	\$ 13,000	\$ 8,000	\$ 13,000
TOTAL OPERATING EXPENSES	\$ 383,371	\$ 388,429	\$ 478,721	\$ 470,571	\$ 453,571
NET INCOME BEFORE SPECIAL PROJECTS	\$ 89,920	\$ 276,299	\$ 27,140	\$ 50,281	\$ 44,360
SPECIAL PROJECT EXPENSES					
Accounting Transition Services	\$ 13,685	\$ -	\$ -	\$ -	\$ -
Disadvantaged Community Involvement Program	\$ -	\$ 20,631	\$ 26,000	\$ 28,869	\$ -
General Project/Grant Consulting Services	\$ 1,110	\$ 206,523	\$ 100,000	\$ 100,000	\$ 100,000
TOTAL SPECIAL PROJECT EXPENSES	\$ 14,795	\$ 227,154	\$ 126,000	\$ 128,869	\$ 100,000
NET INCOME AFTER ALL OPERATING EXPENSES AND SPECIAL PROJECTS EXPENSE	\$ 75,125	\$ 49,145	\$ (98,860)	\$ (78,588)	\$ (55,640)
BEGINNING FUND BALANCE	\$ 405,712	\$ 480,837	\$ 529,982	\$ 431,122	\$ 352,534
ADMINISTRATIVE ENDING FUND BALANCE	\$ 480,837	\$ 529,982	\$ 431,122	\$ 352,534	\$ 296,894
MOUs and Watershed Group Grant Reserves					\$ 145,318
ADMINISTRATIVE ENDING FUND BALANCE WITH MOU RESERVE					\$ 442,212

Los Angeles River Upper Reach 2
DRAFT Administrative and Legal Costs Budget
FISCAL YEAR ENDING JUNE 30, 2019

Description	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Actuals through March 2018	FY 18/19 Budget
RESERVES FROM PREVIOUS YEAR		\$10,806	(\$2,501)	\$29,437
REVENUE				
MOU	\$21,762	\$8,374	\$8,944	\$11,354
Grants	\$0	\$0	\$19,103	\$6,957
Other (line item transfer from MOU)	\$0	\$0	\$60,198	\$0
TOTAL ANNUAL REVENUES	\$21,762	\$8,374	\$88,245	\$18,311
OPERATING EXPENSE				
Administrative - Direct Charges	\$8,416	\$11,839	\$18,863	\$0
Legal - Direct Charges	\$2,540	\$9,842	\$37,444	\$0
Indirect Operating Expenses		\$0	\$0	\$0
TOTAL ANNUAL OPERATING EXPENSES	\$10,956	\$21,681	\$56,306	\$0
TOTAL ANNUAL RESERVES	\$10,806	(\$13,307)	\$31,939	\$18,311

Los Cerritos Channel
DRAFT Administrative and Legal Costs Budget
FISCAL YEAR ENDING JUNE 30, 2019

Description	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Actuals through March 2018	FY 18/19 Budget
RESERVES FROM PREVIOUS YEAR		\$5,274	\$14,518	\$20,501
REVENUE				
MOU	\$18,948	\$17,838	\$17,261	\$18,242
Grants	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES	\$18,948	\$17,838	\$17,261	\$18,242
OPERATING EXPENSE				
Administrative - Direct Charges	\$10,650	\$7,040	\$8,640	\$0
Legal - Direct Charges	\$3,024	\$1,553	\$2,639	\$0
Indirect Operating Expenses		\$0	\$0	\$0
TOTAL ANNUAL OPERATING EXPENSES	\$13,675	\$8,593	\$11,279	\$0
TOTAL ANNUAL RESERVES	\$5,274	\$9,244	\$5,983	\$18,242
TOTAL CUMULATIVE RESERVES	\$5,274	\$14,518	\$20,501	\$38,743

Lower Los Angeles River
DRAFT Administrative and Legal Costs Budget
FISCAL YEAR ENDING JUNE 30, 2019

Description	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Actuals through March 2018	FY 18/19 Budget
RESERVES FROM PREVIOUS YEAR		\$15,087	\$35,057	\$41,506
REVENUE				
MOU	\$24,900	\$27,600	\$18,260	\$17,804
Grants	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES	\$24,900	\$27,600	\$18,260	\$17,804
OPERATING EXPENSE				
Administrative - Direct Charges	\$7,897	\$6,078	\$8,868	\$0
Legal - Direct Charges	\$1,916	\$1,552	\$2,943	\$0
Indirect Operating Expenses	\$0	\$0	\$0	\$0
TOTAL ANNUAL OPERATING EXPENSES	\$9,813	\$7,630	\$11,811	\$0
TOTAL ANNUAL RESERVES	\$15,087	\$19,970	\$6,449	\$17,804
TOTAL CUMULATIVE RESERVES	\$15,087	\$35,057	\$41,506	\$59,310

Lower San Gabriel River
DRAFT Administrative and Legal Costs Budget
FISCAL YEAR ENDING JUNE 30, 2019

Description	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Actuals through March 2018	FY 18/19 Budget
RESERVES FROM PREVIOUS YEAR		\$13,174	\$30,085	\$41,603
REVENUE				
MOU	\$23,753	\$24,942	\$23,550	\$9,437
Grants	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0
TOTAL ANNUAL REVENUES	\$23,753	\$24,942	\$23,550	\$9,437
OPERATING EXPENSE				
Administrative - Direct Charges	\$8,612	\$6,366	\$9,135	\$0
Legal - Direct Charges	\$1,967	\$1,665	\$2,897	\$0
Indirect Operating Expenses	\$0	\$0	\$0	\$0
TOTAL ANNUAL OPERATING EXPENSES	\$10,579	\$8,031	\$12,031	\$0
TOTAL ANNUAL RESERVES	\$13,174	\$16,911	\$11,519	\$9,437
TOTAL CUMULATIVE RESERVES	\$13,174	\$30,085	\$41,603	\$51,040

Harbor Toxics Downstream
DRAFT Administrative and Legal Costs Budget
FISCAL YEAR ENDING JUNE 30, 2019

Description	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Actuals through March 2018	FY 18/19 Budget
RESERVES FROM PREVIOUS YEAR		\$7,891	\$14,021	\$8,495
REVENUE				
MOU	\$14,772	\$14,023	\$12,960	\$9,641
Grants	\$0	\$0	\$0	\$0
Other (Data Sharing Individuals)	\$0	\$0	\$0	\$2,508
TOTAL ANNUAL REVENUES	\$14,772	\$14,023	\$12,960	\$12,149
OPERATING EXPENSE				
Administrative - Direct Charges	\$6,881	\$7,893	\$12,906	\$0
Legal - Direct Charges	\$0	\$0	\$5,580	\$0
Indirect Operating Expenses	\$0	\$0	\$0	\$0
TOTAL ANNUAL OPERATING EXPENSES	\$6,881	\$7,893	\$18,486	\$0
TOTAL ANNUAL RESERVES	\$7,891	\$6,130	-\$5,526	\$12,149
TOTAL CUMULATIVE RESERVES	\$7,891	\$14,021	\$8,495	\$20,644

Harbor Toxics Upstream
DRAFT Administrative and Legal Costs Budget
FISCAL YEAR ENDING JUNE 30, 2019

Description	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Actuals through March 2018	FY 18/19 Budget
RESERVES FROM PREVIOUS YEAR		\$3,791	\$3,550	\$3,775
REVENUE				
MOU	\$14,679	\$7,984	\$8,164	\$0
Grants	\$0	\$0	\$0	\$0
Other (Indirect Admin)	\$0	\$0	\$0	\$3,162
TOTAL ANNUAL REVENUES	\$14,679	\$7,984	\$8,164	\$3,162
OPERATING EXPENSE				
Administrative - Direct Charges	\$10,527	\$7,618	\$7,917	\$0
Legal - Direct Charges	\$360	\$608	\$23	\$0
Indirect Operating Expenses	\$0	\$0	\$0	\$0
TOTAL ANNUAL OPERATING EXPENSES	\$10,887	\$8,225	\$7,939	\$0
TOTAL ANNUAL RESERVES	\$3,791	(\$241)	\$225	\$3,162
TOTAL CUMULATIVE RESERVES	\$3,791	\$3,550	\$3,775	\$6,937

16401 Paramount Boulevard
 Paramount, CA 90723
 562.663.6850 phone
 562-634-8216 fax

www.gatewaywater.org



*Los Angeles Gateway Region
 Integrated Regional Water Management
 Joint Powers Authority*

May 14, 2018

SECTION NO. 9: Direct and Indirect Administrative Fees for FY2018/19

BACKGROUND

In addition to annual membership dues, Direct and Indirect Administrative Fees paid by GWMA members and non-members for implementing certain MOUs and other cost share agreements are collected to recover GWMA's administrative costs to support the administration of its various programs. Administrative Fees are applied against the cost share allocation for the GWMA member's for the particular watershed, grant, program or other activity. The Administrative Fee rates are approved by the Board of Directors annually.

The GWMA's fiscal budget year is July 1 through June 30. In preparation of the 2018-19 fiscal year, the GWMA Board of Directors is requested to establish the Administrative Fees for the next fiscal year.

SUMMARY

In a separate action, the GWMA Board will consider adopting an Administrative Fee Policy. The purpose of this policy is to ensure that the GWMA's Administrative Fees are established at a rate that recovers its expenses. Per GWMA's Proposed Policy and Procedure – Collection and Use of Direct and Indirect Administrative Fees, an annual percentage must be set for all GWMA members and non-members to cover GWMA's direct and indirect administrative costs. Direct Administrative Costs are staff and legal costs that are directly attributed to a watershed, grant, program or other activity outside of general membership-related responsibilities. Indirect Administrative Costs are the expenses of doing business that are not readily identified with a particular grant, contract, project function or activity, but are necessary for the general operations of the GWMA and the conduct of activities. GWMA members will not be assessed for Indirect Costs as GWMA members are required to pay annual membership dues and thus are contributing to general costs in support of GWMA.

To date, GWMA members have been charged 3% of their cost share allocation for the particular watershed, grant, program or other activity and non-members have been

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
 Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



charged 5% of their cost share allocation for the particular watershed, grant, program or other activity for GWMA Direct Administrative Costs. Staff recommends maintaining the same percentages in the coming year for GWMA members and non-members, respectively. Since non-members have not been previously assessed for Indirect Costs, staff recommends approving an initial rate of 3.76% percent. This percentage is also applied against the non-member's cost share allocation for the particular watershed, grant, program or other activity. This recommendation is based upon a generally accepted accounting principle for collecting indirect costs.

RECOMMENDATION:

- a. Approve FY 2018/19 GWMA Member Direct Cost Administrative Fees at a rate of 3% of the Member's cost share allocation for the particular watershed, grant, program or other activity
- b. Approve FY 2018/19 GWMA Non-Member Direct Cost Administrative Fees at a rate of 5% of the Non-Member's cost share allocation for the particular watershed, grant, program or other activity
- c. Approve FY 2018/19 GWMA Non-Member Indirect Cost Administrative Fees at a rate of 3.76% of the Non-Member's cost share allocation for the particular watershed, grant, program or other activity

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 10: Gateway Integrated Regional Water Management “IRWM” Plan Update/Amendment

SUMMARY:

At the February 2018 GWMA Board Meeting, staff requested direction on whether to update/amend the Gateway IRWM Plan. At that time, staff reported on the passage of Proposition 1, which contained new standards for Integrated Regional Water Management Plans. In order to be eligible for State and Federal grants, many programs are now requiring/encouraging projects to be in an IRWM Plan. Staff reported that GWMA has its own IRWM Plan, but that it is also a part of the Greater Los Angeles County “GLAC” IRWM Plan which was recently amended to meet minimum requirements. The Board requested an RFP be issued to the On-Call Consultants for cost consideration before making a decision on whether to update/amend the Gateway IRWM Plan or not.

BACKGROUND:

It is important to note that for purposes of IRWM grants, the GWMA is a member of the GLAC IRWM Leadership Committee and has agreed to only seek IRWM funding through the GLAC IRWM Plan. Further, the Gateway IRWM Plan is included in the GLAC IRWM Plan as a Technical Memorandum in the Lower LA/Lower SG River Sub-Region section of the document. Because of this, GWMA plays a very active role in the GLAC IRWM process as a member of the Leadership Committee, Chair of the Sub-regional Steering Committee, Chair of the GLAC DAC Committee, and Co-Chair of the LA/Ventura DAC Involvement Program Task Force.

Since the Gateway IRWM Plan was adopted in 2013, its project list was updated twice, but the Gateway IRWM Plan itself has not been updated. As a matter of background, in 2010, GWMA was awarded a \$950,000 grant through a Proposition 84 IRWM Planning Grant from the California Department of Water Resources (DWR) to fund the majority of the development of the Gateway IRWM Plan. The Gateway IRWM Plan development process began in early 2012 and was adopted by the GWMA Board in June 2013. The Project List included in the original Gateway IRWM Plan was updated with new projects in 2014 and again in 2016.

Despite GWMA’s successes, DWR continued to urge the GLAC IRWM group and GWMA to coordinate efforts so there was no “overlapping” region although GWMA had consistently rejected the overlap argument. DWR management felt that, in order to achieve regional watershed solutions, the GWMA Region needed to be a part of the GLAC Region.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

In February 2015, the GWMA entered into an MOU with the GLAC IRWM Leadership Committee to form a partnership between the 2 groups for the purpose of seeking and attaining funding for this region and to establish the GWMA as a member agency representing the Lower LA and Lower SG River sub-region. The main benefit of joining the GLAC Leadership Committee was that it improved the GWMA standing with DWR by addressing DWR's desire for the two IRWM groups to work together and likely improve GWMA's chances of obtaining grant funds through the final round of the Prop 84 grant solicitation.

In June 2017, GWMA sent a letter to DWR requesting that the Gateway IRWM Plan be incorporated into the GLAC IRWM Plan and that the GLAC IRWM regional boundary be amended to incorporate the Gateway IRWM Region and the City of Avalon. In August 2017, DWR approved GWMA's request and indicated that the Gateway IRWM Plan would be added to the GLAC IRWM Lower San Gabriel and Los Angeles Rivers Sub-Regional Plan (which includes the City of Avalon) in an additional appendix as a technical memorandum. **As part of this arrangement, GWMA can continue to operate with its own IRWM Plan, but DWR will not accept IRWM grant applications directly from GWMA. It must go through the GLAC IRWM process.**

As a matter of background, below is a table of grants awarded to GWMA since 2010:

IRWM Grants under Gateway IRWM Plan	IRWM Grants under Greater LA IRWM Plan	Other Grants
2010 - \$950,000: Develop Gateway IRWM Plan	2016 - \$3,412,615: 4 multi-party projects	2010 - \$10M: LA River Catch Basin Retrofits
2014 - \$3,941,966: Drought Round 2 Projects		2011 Prop 84 S/W - \$338,465: Los Cerritos Channel
		2014 Prop 84 S/W - \$1,073,820: multi-party LIDs
		2014 USBR - \$1,000,000: multi-party AMR
		** 2017 Prop 1 S/W - \$9,904,842: LAR UR2
TOTAL=\$4,891,966	TOTAL=\$3,412,615	TOTAL=\$22,317,127

** Denotes requirement to be part of/consistent with an IRWM Plan

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



Under consideration is whether an update to the Gateway IRWM Plan is needed. This could mean that future non-IRWM grant applications could include projects that are in either or both IRWM Plans. In other words, while joining the GLAC efforts has been beneficial, it does not preclude GWMA from retaining its own DWR-approved IRWM Plan and continuing its own separate regional efforts, projects and non-IRWM grant applications. However, this can also be accomplished solely with the GLAC IRWM Plan.

CURRENT STATUS:

From the time the Gateway IRWM Plan was adopted, its project list has been updated twice, but the Gateway IRWM Plan itself has not been updated. With the passage of Proposition 1, new IRWM Plan standards were introduced in 2016. The GLAC IRWM Plan was amended in 2017 over a period of several months through a sub-committee of its members, and with help from the LA County Flood Control District's in-house technical experts. The GLAC IRWM Plan is currently under review at DWR for acceptance. GWMA continues to play an active role with the GLAC IRWM process and the Gateway IRWM Plan remains a part of that plan as a technical memorandum. If the Board chooses to update the Gateway IRWM Plan, GWMA would request that the GLAC Leadership Committee consider requesting DWR to accept it into their Plan as an updated Technical Memo at a future date.

As directed by the GWMA Board, staff solicited an RFP from all of its On-Call Consulting Firms under the category of "IRWM Related Programs and Activities (Including but not limited to, Plan Updates and Project List Updates)" on February 16, 2018. They were given until March 16, 2018 to submit their proposals with opportunity for questions as well. No questions were received.

The 3 firms were:

Geosyntec - Declined
Tetra Tech - Declined
GEI Consultants - \$23,248

Only one consultant responded with a proposal. After several discussions and negotiations with GEI Consultants regarding the scope to amend the Gateway IRWM Plan, staff is now presenting the proposal for consideration and discussion. Staff has reached out to DWR to confirm that a redline amendment to the Gateway IRWM Plan rather than a full update would be acceptable. This would reduce costs and follow the same path that GLAC followed to amend their IRWM Plan.

The question is whether to proceed with amending the Gateway IRWM Plan or solely focus on utilizing the Greater LA IRWM Plan for project inclusion and all potential State and Federal grants.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



FISCAL IMPACT:

If the Board chooses to amend the Gateway IRWM Plan, the cost would be up to \$23,248. This does not include staff time to manage and coordinate the process.

If the Board chooses not to amend the Gateway IRWM Plan and continue to solely work under the Greater LA IRWM Plan, no additional funds would be needed.

Currently, there are sufficient reserves to cover this cost, but with continued growth of GWMA and expanded activities, reserves will continue to deplete and future budgets will be impacted.

RECOMMENDATIONS:

- a. Direct staff to issue a Notice to Proceed to GEI Consultants under the On-Call Policies and Procedures to amend the Gateway IRWM Plan as presented, for a cost not-to-exceed \$23,248;
- OR**
- b. Direct staff to not update the Gateway IRWM Plan and only pursue project grants using the Greater LA IRWM Plan as the IRWM Plan requirements for various grant programs.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

COVER LETTER

May 4, 2018

Ms. Grace Kast
Gateway Water Management Authority
16401 Paramount Boulevard
Paramount, CA 90723

Subject: Proposal to Amend the Gateway Integrated Regional Water Management Plan

Dear Ms. Kast:

Gateway Water Management Authority (GWMA) solicited proposals from on-call firms to amend the 2013 Gateway Region Integrated Regional Water Management Plan (IRWMP), GEI Consultants, Inc. (GEI) was the only firm to respond to the call. After discussing the needs, limitations, and details of the product with you, we offer the attached proposal for consideration by GWMA.

GEI has shown it is responsive to GWMA needs in the past and has the following attributes:

- **Extensive experience** with integrated regional water resources planning. Besides Gateway, GEI staff has successfully assisted eight other IRWMP efforts and many other regional water and groundwater management plans over a span of years.
- **Plenty of staff resources**
- **Proven close partnership with GWMA** in all aspects of IRWMP development
- A team of **technical experts**
- **Successful record of obtaining grant funding** for GWMA and other clients
- **Direct knowledge of the Gateway IRWMP**

Thank you for your consideration, and we look forward to continuing our work with GWMA. Please contact Bill Bennett at 916.631.4564 or by email at bbennett@geiconsultants.com, if you have any questions or require clarification.

Regards,

GEI Consultants, Inc.



William J. Bennett, PE, GE
Vice President



Mark S. Williamson, PE
Vice President

TABLE OF CONTENTS

Contact and Project Manager Experience	1
Staff Experience and Qualifications.....	4
Firm Experience.....	5
Relevant Project References.....	6
Understanding and Scope of Work.....	7
Rate Schedule	12
Proposed Project Schedule.....	13

CONTACT AND PROJECT MANAGER EXPERIENCE

CORPORATE OFFICE

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
T: 781.721.4005; F: 781.721.4073
Tax ID No. 04-2468348

LOCAL OFFICE CONTACT

William Bennett, PE, GE
2868 Prospect Park Drive, Suite 400
Rancho Cordova, CA 95670
wbennett@geiconsultants.com
T: 916.631.4500; F: 916.631.4501

WILLIAM BENNETT, PE, GE – PROJECT ADVISOR

GEI Rate Sheet (Grade 8)

Education	Industry Experience	GEI Experience	Registrations/Licenses
MS, Soil Mechanics, University of California, Davis BS, Civil Engineering, University of California, Davis	42 years	11 years	Professional Geotechnical Engineer, CA No. 137 Professional Civil Engineer, CA No. 26848

Mr. Bennett has spent more than four decades in water resources and geotechnical engineering. His expertise includes developing water management plans, watershed management, fisheries recovery and passage, and flood management programs. He has extensive experience in collaborative planning and guiding stakeholder groups to decisions on shared resources. Additionally, Mr. Bennett has substantial experience in all aspects of dam safety. Prior to joining GEI in 2006, Mr. Bennett was employed by the DWR. His career there included serving in the capacity of Division Chief and Office Chief, with responsibility for major California water planning programs, and as Regional Engineer for the Safety of Dams.

PROJECT EXPERIENCE

Gateway Integrated Regional Water Management Plan (IRWMP), Los Angeles Gateway Region JPA, Paramount, CA. Project Manager. In close partnership with the Gateway Water Management Authority and its members, the GEI team produced an IRWMP for the Gateway Region (southeast Los Angeles County).

IRWMP Grant Application (2010) and IRWM Drought Grant Application (2014), Los Angeles Gateway Region JPA, Paramount, CA. Project Manager. On behalf of the Gateway Region, successfully managed the writing of two critical applications for Proposition 84 funds to assist with the planning phase of an IRWMP

(nearly \$1 million) and regional drought project implementation funding (\$3.9 million).

Upper Santa Ana River Integrated Regional Water Management Plan, San Bernardino Valley Municipal Water District, Sacramento, CA. Senior Consultant. Prepared the water use efficiency elements of the Upper Santa Ana River IRWMP.

IRWMP, Imperial Irrigation District, CA. Assisted in the formulation of the project review and ranking, integration, and financing sections of the IRWMP for the Imperial Region.

San Luis Obispo County IRWMP, San Luis Obispo County, San Luis Obispo, CA.

Provided QA/QC review for Administrative Draft Plan and reviewed draft with DWR standards checklist to assure completeness.

Regional 20x2020 Report, Los Angeles Gateway Region JPA, Paramount, CA. Project Manager. Conducted research and provided a report on water use targets for the Gateway IRWMP Region to comply with the state's "20x2020 Plan" which calls on water agencies to reduce statewide per capita urban water use by 20 percent by the year 2020. Information collected and analyzed in this effort was available for the development of Gateway's IRWMP and meets the requirements of the Water Conservation Act of 2009 (SBx7-7).

Grant Writing, West Basin Municipal Water District. Prepared or reviewed three Proposition 50 Water Use Efficiency Grant applications and three U.S. Bureau of Reclamation Water Use Efficiency Grant applications; four of six were successful. Presented information at WBMWD's annual grant workshop. Assisted in preparing USBR 2025 Challenge grant application.

Grant Writing, Central Basin Municipal Water District. Prepared three Proposition 50 Water Use Efficiency Step 1 grant proposals and reviewed or prepared Step two proposals for those submittals. All applications were successful, yielding \$1.78 million in grant funding for the District's water use efficiency projects. Assisted in presenting a grant information workshop for CBMWD retailers.

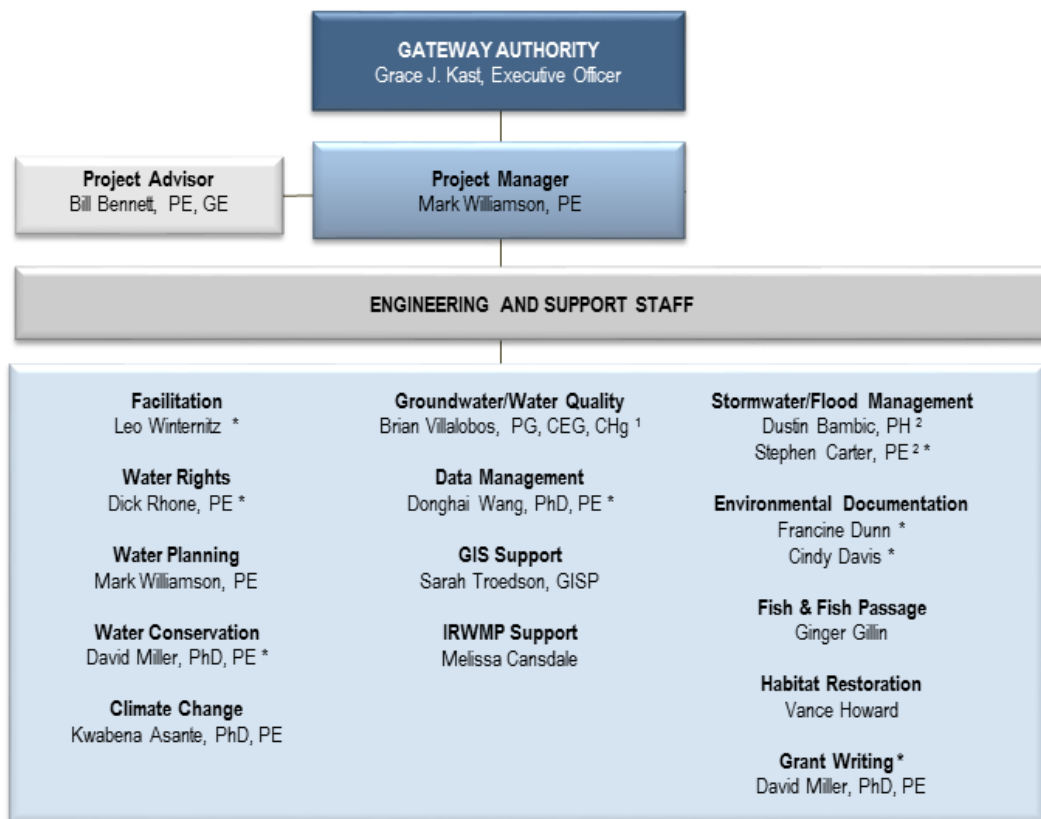
Water Management Planning. Responsible for Statewide Planning and the California Water Plan Update in 1998, as well as elements of the 1993

plan update. He helped institute and supervise the planning process for California's off stream water storage development (Sites Reservoir preliminary planning) and the Integrated Storage Investigation Program, which includes conjunctive use of groundwater, fish passage, on-stream storage enlargement, and Delta storage alternatives.

Watershed Management and Stakeholder Collaboration. For five years was California's Klamath River Compact Commissioner and for several years, a representative to the Trinity River Task Force, dealing with interstate water, water rights allocations, and controversial endangered species restoration and protection measures. As Special Manager for Klamath Watershed Issues, actively worked with federal, state, and local groups to successfully meld species recovery efforts with continued agricultural water use. Served on the state's Shasta-Scott Coho Recovery Team and participated in the Statewide Coho Recovery Plan compilation for DWR. Attended Klamath Stakeholders Collaborative Sessions (Chadwick Workshops) on Klamath River Watershed issues.

Water Use Efficiency. In charge of California's Water Use Efficiency Programs: agricultural water conservation, urban water conservation, desalination, water recycling related grants, and technical assistance programs. In 2006, the program distributed more than \$100 million in grant funding under his guidance. Administered the review of all urban water management plans submitted by urban water suppliers every five years (more than 350 submittals). (Water management activities directly related to IRWMP elements.)

FIGURE 1. PROJECT TEAM ORGANIZATION



Subconsultants: ¹ GEOSCIENCE, ² Paradigm Environmental

* = Support

STAFF EXPERIENCE AND QUALIFICATIONS

MARK WILLIAMSON, PE – PROJECT MANAGER

GEI Rate Sheet: Grade 8

Education	Industry Experience	GEI Experience	Registrations/Licenses
MS, Civil Engineering and Water Resources, University of Washington BS, Civil Engineering and Water Resources, University of California, Berkeley	39 years	13 years	Professional Engineer, CA No. 35671 Project Management Professional

Mr. Williamson is a registered civil engineer and project management professional with more than three decades of experience in both the public and private sectors. He has significant experience managing water supply and groundwater recharge and banking projects, often developing projects from concept level through design and grant funding. Mr. Williamson has successfully performed integrated regional water management planning and secured funding for water agencies throughout California.

PROJECT EXPERIENCE

Led the development of an **Integrated Regional Water Management Plan for the Eastern San Joaquin County Groundwater Basin Authority** in 2007, and was the project manager for the 2014 IRWM Update.

Managed the 2005 **Mojave Water Agency's Regional Water Management Plan Update**, a stakeholder-driven process to screen and select the best water management strategy to match projected supplies with forecasted 2020 demands.

Project manager for completion of the **2012 Imperial Integrated Regional Water Management Plan**.

Project manager for developing groundwater banking programs and recharge pilot projects for the **Sonoma County Water Agency**.

Provided successful grant writing assistance (>\$65M) and prepared **Region Acceptance Process Applications** for a variety of clients.

Project Engineer for the **Mountain Tunnel Flow Study** for the City of San Francisco's Hetch Hetchy Water and Power Department.

Project Manager for a **Regional Groundwater Banking Demonstration Project** for San Joaquin County and EBMUD.

KWABENA O. ASANTE, PHD, PE – CLIMATE CHANGE

GEI Rate Sheet: Grade 6

Education	Industry Experience	GEI Experience	Registrations/Licenses
PhD, Water Resource Engineering, University of Texas, Austin MS, Construction Management, University of Texas, Austin BS, Civil Engineering, University of Nairobi, Kenya	20 years	7 years	Professional Engineer, CA No. 80880

Dr. Asante is an engineering hydrologist with extensive experience in modeling, planning, and building decision support systems for water, climate, renewable energy, and natural hazards. His areas of expertise include hydrology, water resources, climate risk management, forecasting, statistical analysis, GIS, remote sensing, infrastructure planning, and project management. Dr. Asante has conducted climate change analysis and adaptation planning studies for 5 different water management planning regions in California. He has prepared and secured federal grants for local and regional applications including the development of a toolkit for climate adaptation planning in small and medium water agencies. He has also served on technical panels reviewing project alternatives for climate adaptation.

PROJECT EXPERIENCE

Flood Emergency Response Program (Phase I & Phase II), DWR, Statewide, CA. Currently serving as Technical Lead and Project Manager for Climatology/Meteorology Support Services.

Gateway IRWMP, Los Angeles Gateway Region JPA, Los Angeles, CA.

IRWMP, Imperial Irrigation District, Imperial, CA.

FIRM EXPERIENCE



Established in 1970 in Boston, Massachusetts, GEI focused primarily on geotechnical engineering. Through the years, the practice expanded to include water resources, environmental engineering, and ecological sciences. In 2003, GEI acquired Bookman-Edmonston, a water resources engineering firm renowned for helping solve California's water needs since 1959. Today, GEI is an employee-owned corporation that has grown two-fold in the last six years, employing over 800 people in 37 offices nationwide, including 5 offices in California. GEI has an active water resources practice in California, specializing in water supply and flood management planning, as well as design and construction management of major water and flood control infrastructure such as water banking projects, pipelines, canals, levees, dams, and diversion works, pumping plants, power systems, wells, and other water resources management facilities.

GEI staff has successfully completed nine Integrated Regional Water Management Plans (IRWMPs) and assisted with another two in California, and nine groundwater management plans that involved intensive stakeholder involvement. These were developed in areas facing technical and policy challenges.

GEI Staff Experience with IRWMPs

Gateway	Upper Santa Ana
Eastern San Joaquin	Poso Creek
San Luis Obispo	Sacramento Valley
Imperial	Yuba County
Mojave	

Our staff brings knowledge and experience in water management that was accrued while they worked at other public-sector organizations. GEI managers possess a complete understanding and experience in all aspects of California's water resource management. They stay current with new and emerging requirements, such as including plan elements for climate change sustainable groundwater and flood control and the plans they develop. GEI has successful grant writing capability and tracks funding opportunities available to local government and public utilities.

RELEVANT PROJECT REFERENCES

The following is a list of references where GEI has provided integrated planning services.

[Grace Kast, Gateway Water Management Authority](#)

Phone: 626.485.0338

Services: Gateway IRWMP, Grant Writing

Key Staff: Bill Bennett, Brian Villalobos, Dustin Bambic, Ginger Gillin, Donghai Wang, Kwabena Asante

[Carolyn Berg, PE, County of San Luis Obispo, Department of Public Works Utilities Division](#)

Phone: 805.781.5536

Services: San Luis Obispo County IRWMP, Grant Writing

Key Staff: Bill Bennett, Mike Cornelius

[Tammy Hierlihy, Central Basin MWD](#)

Phone: 323.201.5510

Services: Grant Writing

Key Staff: Bill Bennett

[Lance Eckhart, RG, CHG, REA, Director of Basin Management and Resource Planning, Mojave Water Agency](#)

Phone: 760.946.7000 or 760.946.7015

Services: 2005 Regional Water Management Plan Update

Key Staff: Mark Williamson

[Brandon Nakagawa, Water Resources Coordinator, San Joaquin County Department of Public Works](#)

Phone: 209.953.7460

Services: IRWMP for Eastern San Joaquin County Groundwater Basin Authority

Key Staff: Mark Williamson

UNDERSTANDING AND SCOPE OF WORK

The Gateway Water Management Authority is considering an update of the Gateway Region's Integrated Regional Water Management Plan (IRWMP) dated June 2013. They have previously updated the Plan's project list twice, but now must include changes in plan standards that subsequent legislation now requires. With the passage and implementation of Proposition 1, new IRWMP standards were introduced in 2016. For Gateway to be eligible to receive project grant funding from some programs, the Gateway Region must amend the plan to the newer standards.

Changes to the 2012 IRWM Plan Standards are summarized in Appendix H of the DWR 2016 IRWM Grant Program Guidelines. Key efforts needed to amend the IRWMP and bring the Gateway IRWMP up to 2016 standards may include:

- Address water quality contamination and how it is addressed for nitrate, arsenic, perchlorate, or chromium VI
- Additional analysis of energy consumption, energy use efficiency, and greenhouse gas evaluation, including consideration of California Air Resources Board AB 32 strategies and carbon sequestration strategies
- Additional analysis and description of climate change vulnerabilities, and adaptation to climate change and sea level rise
- Consideration of additional Resource Management Strategies (Sediment Management, Outreach and Engagement, Water and Culture) in addition to the 29 strategies previously considered
- Inclusion of adaptive management strategies
- Possible inclusion of or reference to a stormwater management plan(s)
- Demonstrated information sharing and collaboration on regional land use planning
- Providing and publicly distributing a draft Amended IRWMP, soliciting and receiving public comments, and incorporating comments into a final IRWMP Amendment ready for adoption by GWMA and its member agencies.

The amended Plan should also address procedures for:

- DAC outreach
- Adding to, updating, and ranking projects

APPROACH

Chapter 19 of the 2013 Gateway IRWMP outlines the basic and formal process adopted by the region and entities making up the region for updating the Gateway IRWMP. However, the Greater Los Angeles County (GLAC) Region IRWMP Regional Management Group recently proposed a simplified plan "amendment" process. Instead of reformulating and re-writing the plan, GLAC noted proposed changes to the plan in track changes format and submitted that "red-line" version to the Department of Water Resources (DWR) for review and approval. GLAC also adopted the same track change document, after allowing for written comments by stakeholders. This shortened procedure drastically reduced the cost of updating or changing the GLAC IRWMP.

DWR accepted this “amendment-track change” method for GLAC, citing the difficulty and cost that would come with an update. No formal public announcement of the new modified procedure has been given.

While not a guaranteed or a publicly endorsed method, we are proposing to use the amendment template offered by GLAC to make and adopt changes in the Gateway IRWMP. The Gateway IRWMP will also serve as the Lower Los Angeles-Lower San Gabriel Sub-Region Plan for the GLAC IRWMP.

Plan amendments would be authorized and directed by majority vote of the Gateway Water Management Authority.

As in the past, GEI Staff will work closely with the GWMA Executive Officer and her staff to coordinate announcements, facilities, and deliverables.

Since the “amendment – track change” method is not officially authorized by DWR or statute, we cannot guarantee our approach will be 100% successful; however, many other regions appear to be going in this direction and we feel confident after talking with DWR staff that this procedure will succeed.

SCHEDULE

To provide an Updated IRWMP by October 2018 as outlined in the RFP, the plan update development must be at a quickened pace and begin as soon as possible. Ideally, work would be authorized in May 2018, the draft IRWMP Update would be available in August, and the final Plan adopted in October. The schedule for this project is provided in the Proposed Project Schedule section of our proposal.

TASK-ASSIGNMENT-COST MATRIX

Table 1 allocates staff resources to project tasks and aggregates and summarizes costs for the IRWMP Update. Of course, assignments may need to be flexible and could change in the course of time. GWMA would be informed immediately and consulted if any significant staffing assignment changes are needed.

TABLE 1. PROPOSED STAFF RESOURCES

GWMA: Gateway IRWMP Update 2018		GEI Consultants							Total Project Costs		
		Senior Consultant	Senior Consultant	Senior Engineer/	Project		Labor	Labor	Total Labor Costs	Direct Costs (Travel)	Total Project Costs
		PM	Advice	Climate Change	Prof.	Clerical	Hours	Costs			
		Williamson	Bennett	Asante	Cansdale	Admin	Total	Total			
Tasks		Grade 8	Grade 8	Grade 6	Grade 4						
		\$267	\$267	\$201	\$149	\$99					
Task A	Project Management	4				0	4	\$1,068	\$1,068		\$1,068
Task B	QA/QC		4				4	\$1,068	\$1,068		\$1,068
Task C	Review 2016 Standards				8		8	\$1,192	\$1,192		\$1,192
	Update DAC outreach process						0	\$0	\$0		\$0
	Update Regional Description						0	\$0	\$0		\$0
	Update Groundwater chapter						0	\$0	\$0		\$0
	Update stormwater chapter						0	\$0	\$0		\$0
	Update Plan Objectives						0	\$0	\$0		\$0
	Resource Management Strategies				6		6	\$894	\$894		\$894
	Call/new project review and ranking						0	\$0	\$0		\$0
	Revise adding, change projects				2		2	\$298	\$298		\$298
	Plan performance & monitoring						0	\$0	\$0		\$0
	Local water planning coordination						0	\$0	\$0		\$0
	Stakeholder involvement outreach						0	\$0	\$0		\$0
Task D	Climate change			16			16	\$3,216	\$3,216		\$3,216
	Public mtgs (0)						0	\$0	\$0		\$0
Task E	Prepare for and attend Stakeholder/GWMA mtg (1	4			4		8	\$1,664	\$1,664	\$600	\$2,264
Task F	Prepare Draft IRWMP amendments	16			46	4	66	\$11,522	\$11,522		\$11,522
Task G	Review comments;Prepare Final IRWMP amend	2			8		10	\$1,726	\$1,726		\$1,726
Subtotal Hrs		26	4	16	74	4	124	---			
Subtotal Costs		\$6,942	\$1,068	\$3,216	\$11,026	\$396	---	\$22,648	\$22,648	\$600	\$23,248

We estimate the cost of the Update to be approximately \$23,300. We are assuming costs for meeting rooms, arrangements, public notices, and other similar expenses would be the responsibility of GWMA.

Our approach to providing services will continue to focus on the following principles:

- **Accessible.** The Team's Project Manager and staff will be accessible to GWMA representatives always by phone and with minimum lead time, in person. While we propose to manage work predominantly from GEI's Sacramento Office, staff from our Pasadena Office will be available for support. GEI's teaming partners have offices in or nearby the Gateway Region.
- **Responsive.** We will continue being prompt and responsive to GWMA inquiries, needs, and assignments.
- **Quality Work and Quality Control.** The GEI Team believes in producing quality products for clients. GEI's policy is to perform a quality control review of all major deliverables and products by knowledgeable senior staff before submitting them to a client.
- **Flexible.** Assignments often change as work progresses so the GEI Team will be flexible to changing assignments.
- **Deep Bench.** The GEI Team will secure and retain an abundant capacity of technical resources available for GWMA projects. We and our subconsultants have additional capacity should more resources be needed.
- **Cost Control Review.** The GEI Team is sensitive to the constrained budgets of Gateway Cities and GWMA. We will look for the most efficient and economical method of solving problems and completing assignments.
- **Experienced Program or Task Manager.** Task order progress will be watched carefully to see that work milestones are completed on time and within budget. There is no substitute for an experienced program manager, who will manage most tasks for the GEI Team. That manager is backed up by several qualified and experienced activity managers identified on the GEI Team, should additional or multiple tasks run concurrently. Activity managers will work closely with GWMA staff and representatives in each task order phase to guarantee that work meets the expectations and scope. Working closely with GWMA includes sharing the status of work, task progress, issues, and potential course corrections. This working relationship is important as it builds and maintains trust between GWMA and the Team needed for a successful Plan update. It is also essential in watching and reducing costs.

PROJECT MANAGEMENT SYSTEM

GEI uses software from BST to manage and track project expenditures. Costs and timesheets are posted weekly and can be monitored and queried at that frequency. Invoices are compiled, reviewed, and sent to the client monthly, usually within two weeks of monthly close. Work descriptions by staff are made daily along with hours charged for that day and the invoice is usually accompanied with a progress report noting the remaining funds available by task as well as the work accomplished for the period and other relative information. This system, along with frequent and clear communication with GEI Staff on assignments, such as weekly staff meetings, provides a close management of expenditures. Any discrepancies, delays, or unexpected costs can be and will be addressed promptly before a large problem arises. Clients are notified promptly on potential issues so that appropriate corrections or adjustments can be employed. Frequent

monitoring the budget and work progress, knowing the deliverables, actively watching due dates, and generally being aware of the project are important aspects for bringing the project to a successful close with a quality project within budget.

RATE SCHEDULE

GEI CONSULTANTS, INC.

Personnel Category	Hourly Rate
Staff Professional – Grade 1	\$110
Staff Professional – Grade 2	\$121
Project Professional – Grade 3	\$133
Project Professional – Grade 4	\$149
Senior Professional – Grade 5	\$176
Senior Professional – Grade 6	\$201
Senior Professional – Grade 7	\$238
Senior Consultant – Grade 8	\$267
Senior Consultant – Grade 9	\$330
Senior CADD Drafter & Designer	\$133
CAD Drafter/Designer & Senior Technician	\$121
Technician, Word Processor, Administrative Staff	\$99
Office Aide	\$77

SUBCONSULTANTS

GEOSCIENCE

Professional Services	Hourly Rates
Principal Hydrologist	\$311
Senior Modeler	\$238
Senior Geohydrologist	\$211
Senior Engineer	\$216
Project Geohydrologist	\$179
Sr. Staff Geohydrologist	\$149
Staff Geohydrologist	\$135
Graphics and GIS Illustrator	\$119
Clerical	\$100

Paradigm Environmental

Professional Services	Hourly Rates
Principal in Charge	\$216
Principal Engineer	\$206
Principal Hydrologist	\$191
Principal WQ Analyst	\$185
Principal Scientist	\$180
Senior Engineer	\$180
Senior Hydrologist	\$175
Senior WQ Analyst	\$170
Senior Scientist	\$165
Associate Engineer	\$149
Associate Hydrologist	\$144
Associate WQ Analyst	\$139
Associate Scientist	\$134
Staff Engineer	\$124
Staff Hydrologist	\$118
Staff Analyst	\$113
Staff Scientist	\$108
Graphic Designer	\$103
Editor	\$93
GIS Technician	\$88
Field Specialist	\$77
Contract Administrator	\$88
Clerical	\$52
Intern	\$40

PROPOSED PROJECT SCHEDULE

TABLE 2. SCHEDULE AND POTENTIAL AGENDAS TIMELINE

	June	July	August	September	October
Meeting	@ GWMA and Stakeholder Meeting				@ GWMA and Stakeholder Meeting
Tasks and Activities	GEI Contract Approval				Incorporate or Address Public Comments
	Identify Stakeholders			*30-Day Notice for September Meeting (Comments on Plan)	
	Announce Process Schedule			Collect Comments (including DWR input) on Draft	Adopt IRWMP
	Process Questions				
	Begin Stakeholder Outreach		Distribute Draft IRWMP for Review & to DWR Ranked Project List		
	Call for Projects *30-Day Notice (Start of Updates)	Project Proponents Submit Projects			

Tentative



Planning – Environmental - Engineering

May 14, 2018

SECTION 11: STATUS REPORT UPDATE – GWMA FUNDING STRATEGY & GRANTS PROGRAM FOR FY 2017/18

BACKGROUND:

The GWMA Funding Strategy & Grants Program FY 2017/18 allows for local and regional significant projects to move forward towards implementation with consensus. The Funding Strategy & Grants Program will identify priority projects and encourage program stakeholders to put forward their best and most creative ideas for innovatively addressing the challenges they are facing. Addressing how emerging surface water and transportation; technologies, and applications can be assimilated with existing and proposed systems to benefit the region. Demonstrating and evaluating a holistic approach to improving performance within the region and integrating this approach by getting programs funded is the objective of the GWMA Funding Strategy & Grants Program.

Existing Regional Programs

GWMA has spent considerable effort in creating a comprehensive Integrated Regional Water Management Plan (IRMWP) and becoming a part of the larger Greater LA IRWM Plan, which contains water related projects from all Gateway Cities jurisdictions and the four watershed groups. In addition, GWMA supports many watershed groups and activities in the Gateway Region.

The Gateway Cities Strategic Transportation Plan (STP), which contains a comprehensive sub-regional plan of transportation projects from all Gateway Cities jurisdictions and analyzes relationships and impacts amongst these projects. Chapter 10 of the STP focus is on Water Quality and discusses the relationship between transportation projects and the various Watershed Management Plan projects. The GCCOG has recently prioritized their transportation projects by jurisdiction.

The goal of the GWMA Funding Strategy & Grants Program FY 2017/18 is to coordinate and identify possible funding strategies, to prioritize and optimize the benefits to the region with the greatest rate of return on our investment through shared funding avenues and program coordination.

DISCUSSION:

The program formally commenced on April 12, 2018 when this Board approved the scope of the GWMA Funding Strategy & Grants Program. Since that time only one of the four Watershed Management Groups has had their regular meeting, the Lower LA River Upper Reach 2. The following meeting will be occurring within the next few weeks:

Koa

C O N S U L T I N G

419 MAIN STREET, SUITE 320, HUNTINGTON BEACH, CA 92648

- Los Cerritos Channel Watershed Group Thursday, May 17th from 11:00 - 12:30 PM.
- Lower San Gabriel River Watershed Group Thursday, May 17th from 1:30 - 3:00 PM.
- Lower Los Angeles River Watershed Group Monday, May 21st, from 11:00 AM - 12:15 PM.

Unfortunately, based on the timing of current funding and grant cycles (listed below), the GWMA is both developing the draft funding strategy while at the same time beginning to identify candidate projects and priorities for the current grants that are now active.

Upcoming grants being tracked to date include the following:

Active:

1. Lower LA River, RMC Prop 1 Grant
2. Prop 1 Groundwater Grant (Round 2)

Pending:

- Prop 1 Stormwater Grant Round 2 - Implementation (late 2018/early 2019)
- Prop 1 Integrated Regional Water Management Implementation Grant – (mid-2018)
- Urban and Community Forestry Program California Climate Investments Grants
- Natural Resources Urban Greening Grant

Active Grants – Summary & Details:

1. Lower LA River, RMC Prop 1 Grant

The allocation is for projects to protect and enhance urban creeks and its tributaries (Prop. 1 Section 79735(a)). Projects identified within the Lower LA River Revitalization Plan and along the Lower LA River corridor are eligible.

The Grant focuses on the following programs/projects categories:

- Property Acquisition
- Enhancement Fund (Small Starts – Ready Project under \$1M, & Planning Projects for Revitalization)
- Construction Fund (Supports projects for Revitalization)
- Green Incubator Fund (Green & Environmental non-profits)

Project/Program grants amounts are as follows:

\$50M over the next 2-4 years

Schedule Overview:

- Informational Workshops (March 2018), Which both Grace Kast and Kekoa Anderson attended.
- Call for Projects are due around (May-July 2018).
- Proposal Deadline is planned for July 2018
- Grant agreements (for awards) will come around Summer of 2019.

2. Prop 1 Groundwater Grant (Round 2)

The Grant focuses on programs/projects that prevent and clean up contamination of groundwater that serves (or has served) as a source of drinking water. They have approximately \$740 Million, with \$80M set-aside for DAC's and \$80M set-aside for SDAC's (Severely Disadvantaged Communities).

The match requirement for DAC's are 10% and SDAC's are 5%, compared to Non-DAC of 50%.

Project/Program grants amount ranges are as follows:

Planning: \$100K to \$2M

Implementation: \$500K to \$50M

Schedule Overview:

The first step is the concept proposal applications, which are due around (June/July 2018). Then at the end of Summer 2018 they will provide invitations for Full Proposals close to the end of the year. Grant agreements (for awards) will come around Summer of 2019.

FISCAL IMPACT:

Currently we are identifying the program and projects that will determine the fiscal impact. As the information becomes more defined over the next month, I will be seeking direction from each of the watershed groups to identify projects, if any they want to pursue for grant funds and how they want to fund the cost of grant applications. For the groundwater program, I will review the list of IRWM projects and reach out to GWMA members to see if a regional project can be developed for an application. Regardless, based upon my experience, a grant application generally ranges in costs from \$20-30k per application. Likely GWMA, on behalf of watershed groups or other regional project group(s), could be applying for several grants over the 2018 fiscal year.

Soliciting request for proposals will come from the following two options:

- 1) Watershed group consultants
- 2) GWMA On-Call list

On-Call Consulting Services between \$10k and \$75k

- a) Based on a general scope of services, staff will request proposals from all consultants listed under the appropriate category(ies) on the approved On-Call Consultant List.

These categories include:

- Regional Planning Grant and/or Other Opportunities including development of associated documents
 - Grant Writing and/or Grant Implantation Management
- b) The Executive Officer will evaluate, rank, and select the top ranked consultant upon negotiation until an agreement is met on the final fees. The Executive Officer will request authorization from the GWMA Board for award of contract to selected consultant. The request must include a brief description of the scope of work, background information regarding the amount being requested



419 MAIN STREET, SUITE 320, HUNTINGTON BEACH, CA 92648

and the number of proposals sought and received. Upon approval, the Executive Officer will issue a NTP using the existing PSA on file. If no agreement is on file, staff will utilize the pre-approved general PSA template and attach the proposal as an exhibit prior to execution.

RECOMMENDATIONS:

Receive and File Status Report Update - GWMA Funding Strategy & Grants Program FY 2017/18

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 12: DISCUSSION/ACTION REGARDING AGREEMENT FOR COST SHARING FOR THE INSTALLATION OF MONITORING EQUIPMENT AND MONITORING PURSUANT TO THE HARBOR TOXIC POLLUTANTS TMDL

BACKGROUND

On August 31, 2011, a far reaching TMDL requirement became effective affecting many cities throughout Los Angeles County. In general, the TMDL divides the impacted areas into three groups: those cities discharging into: (1) the Dominguez Channel, (2) the Los Angeles /Long Beach Harbor and Los Cerritos Channel and (3) the Los Angeles River and San Gabriel River watersheds. The TMDL establishes separate compliance requirements for each of those areas. The pollutants are: metals (copper, lead and zinc) and toxics (DDT, PCBs, etc.).

The cities (and unincorporated areas of Los Angeles County) discharging into the Los Angeles River (above the estuary) and San Gabriel River have, at least initially, the least requirements of the three groups. While the other two groups have numeric discharge limits and targets, the Los Angeles and San Gabriel River entities have no such limits and are only being required to monitor for toxic pollutants. Individual MS4 Permittees contacted GWMA to express interest in participating in a cost sharing for the installation of the monitoring stations and the costs of monitoring conducted at the monitoring stations, known herein as Harbor Toxic Upstream.

In March 2015, GWMA entered into Agreements with MS4 Permittees for cost sharing for the installation of monitoring equipment and monitoring pursuant to the Harbor Toxic Pollutants TMDL. These Agreements between GWMA and MS4 Permittees are set to expire in June 2018.

DISCUSSION

The Agreements between the GWMA and Harbor Toxic Upstream participants are set to expire on June 30, 2018. The participants have contacted GWMA and expressed interest in continuing this agreement through June 30, 2023. The participants also requested that the Board of Directors authorize GWMA to enter into individual separate agreements with individual MS4 Permittees (which shall not have voting rights in any group relating to the GWMA Members) for purposes of only cost sharing in the monitoring costs to offset program costs.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



GWMA's Legal counsel drafted and approved an Agreement Template to be issued to all GWMA members/non-members to provide administrative and contractual services for the Harbor Toxic Upstream participants to implement the Harbor Toxic Pollutants TMDL Monitoring Program.

Participating GWMA members and non-members will be invoiced for administrative fees on each payment to cover direct administrative costs. GWMA non-members will also be invoiced for administrative fees on each payment to cover indirect administrative costs. GWMA members will not be invoiced for indirect administrative costs as members already pay annual membership fees that pay for these costs.

FISCAL IMPACT

GWMA's Direct and Indirect Administrative Costs Services would be accounted for and paid from the GWMA Administrative Fee collected annually.

RECOMMENDED ACTION

- a. Approve the Agreement Template to be issued to GWMA Members/Non-Members to provide administrative and contractual services on behalf of the Harbor Toxics Upstream participants for the Harbor Toxic Pollutant TMDL Monitoring Program as presented.
- b. Authorize the Chair to execute the Agreements with GWMA Members/Non-Members.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

RECITALS

WHEREAS, various MS4 Permittees desire to facilitate the achievement of the objectives of the Harbor Toxic Pollutants TMDL by installing one monitoring station in the Los Angeles River at Wardlow Road, one monitoring station in the San Gabriel River near Spring Street, and one monitoring station in the Coyote Creek, also near Spring Street and conducting monitoring at said monitoring stations (collectively "Monitoring Stations") to ensure consistency with other regional monitoring programs and usability with other TMDL related studies;

WHEREAS, installation of the Monitoring Stations and future monitoring requires administrative coordination for the various MS4 Permittees that the GWMA can and is willing to provide;

WHEREAS, the members of the GWMA are the Cities of Artesia, Avalon, Bell, Bell Gardens, Bellflower, Cerritos, Commerce, Cudahy, Downey, Hawaiian Gardens, Huntington Park, La Mirada, Lakewood, Long Beach, Lynwood, Maywood, Montebello, Norwalk, Paramount, Pico Rivera, Santa Fe Springs, Signal Hill, South Gate, Vernon, Whittier, Water Replenishment District, Central Basin Municipal Water District and the Long Beach Water Department ("GWMA Members");

WHEREAS, because of the financial savings and benefits resulting from this cost-sharing arrangement, other MS4 Permittees that are not GWMA Members may request to participate in the cost sharing of the Monitoring Costs for the installation of the Monitoring Stations and the costs of monitoring conducted at the Monitoring Stations (collectively "Monitoring Costs");

WHEREAS, the GWMA Board of Directors authorized the GWMA to enter into individual separate agreements with such individual MS4 Permittees (which shall not have voting rights in any group relating to the GWMA Members) for purposes of only cost sharing in the Monitoring Costs;

WHEREAS, because GWMA Members already pay annual membership fees that pay for GWMA administrative costs, GWMA Members that participate in the cost share for the Monitoring Costs shall pay a three percent (3%) administrative fee on each payment to cover various administrative costs;

WHEREAS, MS4 Permittees that are not GWMA Members that participate in the cost share for the Monitoring Costs shall pay an eight and seventy-six hundredths percent (8.76%) administrative fee on each payment to cover various administrative costs. Five percent (5%) of such amount represents the estimated direct, actual costs of the GWMA's administrative expenses and three and seventy-six hundredths percent (3.76%) represents the estimated indirect, overhead costs of the GWMA's administrative expenses;

WHEREAS, certain private NPDES permit holders that are subject to the Harbor Toxic Pollutants TMDL have also expressed interest in participating in the cost share for the Monitoring Costs and procuring the monitoring data generated pursuant to this Agreement in order to satisfy their own permit obligations;

WHEREAS, it is currently unknown how many MS4 Permittees and private NPDES permit holders will ultimately participate in the cost sharing of the Monitoring Costs;

WHEREAS, depending on how many MS4 Permittees and private NPDES permit holders ultimately participate in the cost sharing for the Monitoring Costs, each

participating Permittee's annual cost share amount will be adjusted and the GWMA will notify each participating Permittee of its adjusted annual cost share amount in writing;

WHEREAS, the Permittee desires to share in the Monitoring Costs;

WHEREAS, the Parties have determined that authorizing GWMA to hire consultants as necessary to install and maintain the Monitoring Stations and conduct the monitoring required by the Harbor Toxic Pollutants TMDL will be beneficial to the Parties;

WHEREAS, the Permittee agrees to pay: (a) its proportional share of the Monitoring Costs to be incurred by the GWMA in accordance with the Cost Sharing Formula reflected in Exhibit "A"; and (b) applicable administrative fees to cover administrative costs; and

WHEREAS, the role of the GWMA is to: (1) invoice and collect funds from the Permittee to cover its portion of the Monitoring Costs; and (2) hire and retain consultants to install Monitoring Stations and conduct monitoring at the Monitoring Stations.

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth herein, the Parties do hereby agree as follows:

Section 1. Recitals. The recitals set forth above are fully incorporated as part of this Agreement.

Section 2. Purpose. The purpose of this Agreement is for the Permittee to cost share in the Monitoring Costs.

Section 3. Cooperation. The Parties shall fully cooperate with one another to achieve the purposes of this Agreement.

Section 4. Voluntary Nature. The Parties voluntarily enter into this Agreement.

Section 5. Binding Effect. This Agreement shall become binding on GWMA and the Permittee.

Section 6. Term. This Agreement shall commence on July 1, 2018 and shall expire on June 30, 2023, unless terminated earlier pursuant to this Agreement.

Section 7. Role of the GWMA.

(a) The GWMA shall invoice and collect funds from the Permittee to cover the Monitoring Costs; and

(b) The GWMA shall administer the consultants' contracts for the Monitoring Costs. Provided the Permittee has paid all outstanding invoices to the GWMA to cover the Monitoring Costs and administrative costs, the GWMA will provide

the Permittee with the monitoring data collected from the Monitoring Stations.

(c) At the request of an MS4 Permittee that participates in the cost sharing for the Monitoring Costs, the GWMA is authorized and may negotiate, enter into agreements with, and collect funds from general and individual NPDES permit holders that are not MS4 Permittees for cost-sharing the Monitoring Costs.

Section 8. Financial Terms.

(a) Initial Payment Amount. The Permittee shall pay no more than [REDACTED] Dollars and [REDACTED] Cents (\$ [REDACTED]) for the initial payment ("Initial Payment Amount"), for the 2018-2019 fiscal year to the GWMA for managing the installation of the Monitoring Stations and the monitoring data collected at the Monitoring Stations for the 2018-2019 fiscal year. This Initial Payment Amount includes: (1) the Permittee's cost share amount ("Cost Share Amount") identified in Exhibit "A", attached hereto and incorporated herein; and (2) the Administrative Costs Payment Amount identified in subsection (c) of this Section 8.

(b) Annual Payment Amount. For each subsequent fiscal year, commencing with the 2019-2020 fiscal year, the Permittee shall pay no more than [REDACTED] Dollars and [REDACTED] Cents (\$ [REDACTED]) ("Annual Payment Amount") annually on a fiscal year (July 1st to June 30th) basis to the GWMA in exchange for the monitoring data collected from the Monitoring Stations. This Annual Payment Amount includes: (1) the Permittee's Cost Share Amount identified in Exhibit "A", attached hereto and incorporated herein; and (2) the Administrative Costs Payment Amount identified in subsection (c) of this Section 8.

(c) Administrative Costs. As part of the Initial Payment Amount and the Annual Payment Amount, the Permittee shall also pay its proportional share of the GWMA's staff time for hiring the consultants and invoicing the Permittee, legal fees incurred by the GWMA in the performance of its duties under this Agreement, and audit expenses and other overhead costs ("Administrative Costs Payment Amount"). The Administrative Costs Payment Amount will be added to the Permittee's annual invoice to cover the Permittee's share of the administrative costs.

i. GWMA Members. If the Permittee is a GWMA Member, then the Administrative Costs Payment Amount shall be three percent (3%) of the Permittee's Cost Share Amount identified in Exhibit "A." Beginning with the 2019-2020 fiscal year and for each fiscal year thereafter, the GWMA will evaluate this Administrative Costs Payment Amount to ensure it adequately recovers the GWMA's cost of performing its duties under this Agreement. Based on this review, the GWMA may increase or decrease the Administrative Costs Payment Amount for the next fiscal year. The GWMA will provide the Permittee thirty (30) days' written notice prior to July 1st of the fiscal year in which a new Administrative Costs Payment Amount will take effect.

ii. Non-GWMA Members. If the Permittee is not a GWMA

Member, then the GWMA shall charge eight and seventy-six hundredths percent (8.76%) of the Permittee's Cost Share Amount identified in Exhibit "A." Five percent (5%) of such amount represents the estimated direct, actual costs of the GWMA's Administrative Costs and three and seventy-six hundredths percent (3.76%) represents the estimated indirect, overhead costs of the GWMA's Administrative Costs. Beginning with the 2019-2020 fiscal year and for each fiscal year thereafter, the GWMA will evaluate this Administrative Costs Payment Amount to ensure it adequately recovers the GWMA's cost of performing its duties under this Agreement. Based on this review, the GWMA may increase or decrease the Administrative Costs Payment Amount for the next fiscal year. The GWMA will provide the Permittee thirty (30) days' written notice prior to July 1st of the fiscal year in which a new Administrative Costs Payment Amount will take effect.

(d) The Permittee's Initial Payment Amount shall cover the 2018-2019 fiscal year and is due upon execution of this Agreement, but in no event later than June 30, 2018. For each subsequent fiscal year, commencing with the 2019-2020 fiscal year, the GWMA shall submit annual invoices to the Permittee for the Annual Payment Amount and no later than the April 1st prior to the new fiscal year.

(e) Adjustment of Cost Share Based on Number of Participants. The Initial Payment Amount, the Annual Payment Amount, and the Administrative Costs Payment Amount identified in this Section 8 ("Financial Terms") represent the maximum dollar amounts that the Permittee is required to submit to the GWMA, but may be reduced based on the final number of MS4 Permittees that participate in the cost sharing for the Monitoring Costs.

(f) Reserve Credits. If the Permittee's actual cost share amount plus administrative costs are less than the Initial Payment Amount or the Annual Payment Amount, plus the Administrative Costs Payment Amount, paid by the Permittee in a particular year, then the GWMA will notify the Permittee in writing on the next available invoice and will presume that the Permittee desires any excess balance be credited toward the Permittee's Annual Payment Amount and/or Administrative Costs Payment Amount in subsequent years, less a reasonable contingency as determined by the GWMA not to exceed \$10,000. Such a credit will be applied to the Initial Payment Amount if an excess balance exists for funds paid by Permittee under a prior cost share agreement between the Parties. In lieu of a credit, the Permittee may elect to retain any excess balance as reserves for future Annual Payments Amounts and/or Administrative Costs Payment amounts, and pay the full invoiced amount to the GWMA. Notwithstanding the forgoing, the Administrative Costs Payment Amount charged to non-GWMA Members for indirect, overhead costs in the amount of three and seventy-six hundredths percent (3.76%) of the Permittee's Cost Share Amount will be retained by GWMA and is not subject to a credit.

(g) Upon receiving an invoice from the GWMA, the Permittee shall pay the invoiced amount to the GWMA within thirty (30) days of the invoice's date.

(h) The Permittee shall be delinquent if its invoiced payment is not

received by the GWMA within forty-five (45) days after the invoice's date. If the Permittee is delinquent, the GWMA will: 1) verbally contact the representative of the Permittee; and 2) submit a formal letter from the GWMA Executive Officer to the Permittee at the address listed in Section 12 of this Agreement. If payment is not received within sixty (60) days of the original invoice date, the GWMA may terminate this Agreement. However, no such termination may be ordered unless the GWMA first provides the Permittee with thirty (30) days written notice of its intent to terminate the Agreement. The terminated Permittee shall remain obligated to GWMA for its delinquent payments and any other obligations incurred prior to the date of termination. If the GWMA terminates this Agreement because the Permittee is delinquent in its payment, the Permittee shall no longer be entitled to the monitoring data collected from the Monitoring Stations.

(i) Any delinquent payments by the Permittee shall accrue compound interest at the average rate of interest paid by the Local Agency Investment Fund during the time that the payment is delinquent.

Section 9. Independent Contractor.

(a) The GWMA is, and shall at all times remain, a wholly independent contractor for performance of the obligations described in this Agreement. The GWMA's officers, officials, employees and agents shall at all times during the term of this Agreement be under the exclusive control of the GWMA. The Permittee cannot control the conduct of the GWMA or any of its officers, officials, employees or agents. The GWMA and its officers, officials, employees, and agents shall not be deemed to be employees of the Permittee.

(b) The GWMA is solely responsible for the payment of salaries, wages, other compensation, employment taxes, workers' compensation, or similar taxes for its employees and consultants performing services hereunder.

Section 10. Indemnification and Insurance.

(a) The Permittee shall defend, indemnify and hold harmless the GWMA and its officers, employees, and other representatives and agents from and against any and all liabilities, actions, suits proceedings, claims, demands, losses, costs, and expenses, including legal costs and attorney's fees, for injury to or death of person(s), for damage to property (including property owned by the GWMA) for negligent or intentional acts, errors and omissions committed by the Permittee or its officers, employees, and agents, arising out of or related to that Permittee's performance under this Agreement, except for such loss as may be caused by GWMA's negligence or that of its officers, employees, or other representatives and agents, excluding the consultant.

(b) GWMA makes no guarantee or warranty that any monitoring data prepared by the consultants shall be approved by the relevant governmental authorities. GWMA shall have no liability to the Permittee for the negligent or intentional acts or

omissions of GWMA's consultants.

Section 11. Termination.

(a) The Permittee may terminate this Agreement for any reason, or no reason, by giving the GWMA prior written notice thereof, but the Permittee shall remain responsible for its entire Annual Payment Amount through the end of the current fiscal year during which Permittee terminates the Agreement and shall not be entitled any refund of any portion of said Annual Payment Amount. Moreover, unless the Permittee provides written notice of termination to the GWMA by February 15th immediately prior to the new fiscal year, the Permittee shall also be responsible for its Annual Payment Amount through the end of the new fiscal year (e.g., If the Permittee terminates on March 1st, 2019, the Permittee is responsible for the Annual Payment Amounts for both FY 2018-2019 and FY 2019-2020. If the Permittee terminates on February 10, 2019, the Permittee is responsible for its Annual Payment Amount only for FY 2018-2019, not for FY 2019-2020). If the Permittee terminates the Agreement, the Permittee shall remain liable for any loss, debt, or liability otherwise incurred through the end of the new fiscal year.

(b) The GWMA may, with a vote of the GWMA Board, terminate this Agreement upon not less than thirty (30) days written notice to the Permittee. Any remaining funds not due and payable or otherwise legally committed to Consultant shall be returned to the Permittee.

Section 12. Miscellaneous.

(a) Other NPDES Permit Holders. Individual or general NPDES permit holders who are not MS4 Permittees that receive Harbor Toxic Pollutants TMDL monitoring requirements in their NPDES permits may wish to participate in this cost share for the Monitoring Costs in order to receive the monitoring data collected from the Monitoring Stations. Upon receipt of a written request from an NPDES permit holder to participate in this cost share, the GWMA will either reject or accept the NPDES permit holder's participation in the cost share arrangement. If accepted, the NPDES permit holder will enter into a separate cost share agreement with the GWMA that will require the NPDES permit holder to pay annually twelve thousand three hundred dollars (\$12,300) ("Private Monitoring Fee") for the Monitoring Costs. Failure to pay the Private Monitoring Fee by the date set forth in the cost share agreement will result in termination of the NPDES permit holder's participant status. An NPDES permit holder accepted as a participant will only be entitled to receive the monitoring data collected from the Monitoring Stations for any fiscal year in which the participant has paid its Private Monitoring Fee. The Private Monitoring Fee will be applied as a credit toward the Permittee's Annual Payment Amount in proportion to the Permittee's Cost Share Amount identified in Exhibit "A."

(b) Notices. All Notices which the Parties require or desire to give hereunder shall be in writing and shall be deemed given when delivered personally or three (3) days after mailing by registered or certified mail (return receipt requested) to

the following address or as such other addresses as the Parties may from time to time designate by written notice in the aforesaid manner:

To GWMA:

Ms. Grace Kast
Executive Officer
16401 Paramount Boulevard
Paramount, CA 90723

To the Permittee:

(c) Amendment. The terms and provisions of this Agreement may not be amended, modified or waived, except by a written instrument signed by all Parties.

(d) Waiver. Waiver by either the GWMA or the Permittee of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver, by the GWMA or the Permittee, to any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach of any provision of this Agreement.

(e) Law to Govern: Venue. This Agreement shall be interpreted, construed, and governed according to the laws of the State of California. In the event of litigation between the Parties, venue shall lie exclusively in the County of Los Angeles.

(f) No Presumption in Drafting. The Parties to this Agreement agree that the general rule that an agreement is to be interpreted against the Party drafting it, or causing it to be prepared, shall not apply.

(g) Severability. If any term, provision, condition or covenant of this Agreement is declared or determined by any court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions of this Agreement shall not be affected thereby and this Agreement shall be read and construed without the invalid, void, or unenforceable provisions(s).

(h) Entire Agreement. This Agreement constitutes the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior or contemporaneous agreements, whether written or oral, with respect thereto.

(i) Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original, but all of which taken together shall constitute but one and the same instrument, provided, however, that such counterparts shall have been delivered to all Parties to this Agreement.

(j) Legal Representation. All Parties have been represented by counsel in the preparation and negotiation of this Agreement. Accordingly, this Agreement shall be construed according to its fair language.

(k) Authority to Execute this Agreement. The person or persons executing this Agreement on behalf of Permittee warrants and represents that he or she has the authority to execute this Agreement on behalf of the Permittee and has the authority to bind Permittee.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed on their behalf, respectively, as follows:

DATE: _____

LOS ANGELES GATEWAY REGION
INTEGRATED REGIONAL WATER
MANAGEMENT JOINT POWERS
AUTHORITY

Christopher S. Cash
GWMA Chair

DATE: _____

PERMITTEE


Signature

Print Name

Print Title

EXHIBIT "A"
COST SHARE MATRIX
ATTACHED

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 13: Third Amendment to the Agreement between GWMA and John L. Hunter & Associates, Inc. for the Lower San Gabriel River Watershed Group

SUMMARY:

The Agreement between GWMA and John L. Hunter & Associates, Inc. is set to expire on June 30, 2018. The LSGR watershed group has requested that GWMA amend the Agreement to extend the agreement terms to June 30, 2020 with three 1-year extension options, and to set forth Scopes of Work under the Agreement for work related to the Harbor Toxics TMDL and all other programs. This Amendment would also increase the payment terms by an additional not to exceed amount of \$439,400 for work relating to the Harbor Toxics TMDL and \$4,112,459 for all other program tasks, for a total Agreement amount of \$6,978,603.

BACKGROUND:

John Hunter & Associates was retained by GWMA on behalf of the LSGR on October 10, 2013 through a standard PSA. Thereafter, the first amendment was approved by the Board on May 14, 2015 with an expiration of December 31, 2017. The second amendment was approved by the Board on January 11, 2018 with an expiration of June 30, 2018.

The LSGR Watershed group now wishes to further extend the Agreement terms to June 30, 2020 with the option of three 1-year extensions and increase the payment by an additional not to exceed amount of \$6,978,603. GWMA's legal counsel drafted and approved this Third Amendment to the Agreement between GWMA and John L. Hunter & Associates, Inc. as to form.

FISCAL IMPACT

Administrative and legal costs will be reimbursed through the 3% administrative fee agreed to in the MOU Amendment. The funds for this work will be collected as part of the annual budgets for the LSGR.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax

www.gatewaywater.org



*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

RECOMMENDATION

- a. Authorize staff to issue a Third Amendment to the Professional Services Agreement between GWMA and John L. Hunter & Associates, Inc. in an amount not to exceed \$6,978,603 for services through FY 2020 with 3 one-year extension options for LSGR.
- b. Authorize Chair to sign the Third Amendment to the Professional Services Agreement between the GWMA and John L. Hunter & Associates, Inc. for LSGR.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

**THIRD AMENDMENT TO AGREEMENT BETWEEN
GWMA AND JOHN L. HUNTER & ASSOCIATES, INC., FOR THE LOWER SAN
GABRIEL RIVER WATERSHED GROUP**

THIS THIRD AMENDMENT to that certain Professional Services Agreement by and between the Los Angeles Gateway Region Integrated Regional Water Management Authority also referred to as the Gateway Water Management Authority ("GWMA") and John L. Hunter & Associates, Inc., a CALIFORNIA CORPORATION ("Consultant"), is made and entered into as of May 14, 2018. In consideration of the mutual covenants and conditions set forth herein, the parties agree as follows:

1. Recitals. This Third Amendment is made with the respect to the following facts and purposes:

a. On October 10, 2013, GWMA and Consultant entered into that certain Professional Services Agreement ("Agreement") in the amount of Six Hundred Eighty-Five Thousand Dollars and Zero Cents (\$685,000.00).

b. On May 14, 2015, GWMA and Consultant approved the First Amendment to the Agreement, which: (1) extended the Agreement's term; (2) amended Exhibit A to the Agreement to add additional duties to the tasks to be performed under the Scope of Work; (3) increased the payment in the amount Nine Hundred Eighty Thousand Three Hundred Twenty-Four Dollars and Zero Cents (\$980,324.00); and (4) amended Exhibit B to the Agreement to add the payment rates for the additional scope of work.

c. On January 11, 2018, GWMA and Consultant approved the Second Amendment to the Agreement, which: (1) further extended the Agreement's term; and (2) increased the payment by an additional not to exceed amount of Seven Hundred Sixty-One Thousand Four Hundred Twenty Dollars and Zero Cents (\$761,420.00).

d. The parties now desire to: (1) further extend the Agreement's term to June 30, 2020; (2) set forth separate Scopes of Work in Exhibit A of the Agreement for work related to the Harbor Toxics TMDL and all other program tasks through June 2020 and, if authorized, June 2023; and (3) increase the payment by an additional not to exceed amount of Four Hundred Thirty-Nine Thousand Four Hundred Dollars and Zero Cents (\$439,400) for work related to the Harbor Toxics TMDL and Four Million One Hundred Twelve Thousand Four Hundred Fifty-Nine and Zero Cents (\$4,112,459.00) for all other program tasks, for a total agreement amount of Six Million Nine Hundred Seventy-Eight Six Hundred Three Dollars and Zero Cents Dollars and Zero Cents (\$6,978,603.00) (\$685,000.00 + \$980,324.00 + \$761,420.00 + \$439,400.00 + \$4,112,459.00).

2. The section of the Agreement entitled "**TIME FOR PERFORMANCE**" is hereby amended to read as follows:

"The term of this Agreement shall commence on the effective date of this Agreement and shall expire on June 30, 2020, unless terminated earlier in accordance with the terms of this Agreement. Upon approval by its Board of Directors, GWMA may extend the term of this Agreement for three additional one-year terms from the expiration date, pursuant to the same terms and conditions of this Agreement, provided that GWMA has entered into a cost-sharing agreement with members of the Lower SGR Watershed Committee that reimburses GWMA for Consultant's Services under this Agreement. The GWMA Board of Directors may extend the Agreement with respect to the Services described in Exhibit A-1 (Harbor Toxics TMDL), Exhibit A-2 (Other Tasks), or both."

3. The section of the Agreement entitled "**COMPENSATION AND METHOD OF PAYMENT**" is hereby amended to read as follows:

"A. GWMA shall pay Consultant, for the Services performed on a time and materials basis, based on the attached Exhibit B (Rate Sheet) to the Agreement. Furthermore The total initial amount shall not exceed Sixty Hundred Eighty-Five Thousand Dollars and Zero Cents (\$685,000.00), the First Amendment amount shall not exceed Nine Hundred Eighty Thousand Three Hundred Twenty-Four Dollars and Zero Cents (\$980,324.00), the Second Amendment amount shall not exceed Seven Hundred Sixty-One Thousand Four Hundred Twenty Dollars and Zero Cents (\$761,420.00), and the Third Amendment amount shall not exceed Four Hundred Thirty-Nine Thousand Four Hundred Dollars and Zero Cents (\$439,400) for work related to the Harbor Toxics TMDL under Exhibit A-1 and Four Million One Hundred Twelve Thousand Four Hundred Fifty-Nine and Zero Cents (\$4,112,459.00) for all other program tasks under Exhibit A-2 for a total agreement amount of Six Million Nine Hundred Seventy-Eight Six Hundred Three Dollars and Zero Cents Dollars and Zero Cents (\$6,978,603.00). The GWMA shall not pay to Consultant a total amount exceeding Six Million Nine Hundred Seventy-Eight Six Hundred Three Dollars and Zero Cents Dollars and Zero Cents (\$6,978,603.00) and a total amount in any given year exceeding the estimated amounts set forth on the attached Exhibit B for the particular year (Estimated Costs), unless additional payment is approved as provided in this Agreement.

B. Consultant shall perform the Services for the amount(s) listed above. GWMA shall not withhold federal payroll, state payroll and other taxes, or other similar deductions from each payment made to Consultant. Consultant shall pay all applicable federal, state, and local excise, sales, consumer use, and other similar taxes required by law. GWMA shall not allow any claims for additional services performed by Consultant, unless the Project Manager or GWMA Chair authorizes the additional services in writing prior to Consultant's performance of the additional services or the incurrence of additional expenses. Any additional services authorized by the Project Manager or GWMA Chair shall be compensated at the hourly rates set forth above, or, if not specified, at a rate mutually agreed to by the parties.

C. Consultant shall submit to GWMA a proposed annual budget for the Services to be performed during each calendar year of the term of this Agreement. The proposed annual budgets shall identify the proposed total annual budget amount and the proposed budget amounts for the periods of January 1st through June 30th and July 1st through December 31st. Consultant shall submit a proposed annual budget to GWMA on or before the 15th of April for the Services to be performed during the subsequent calendar year. GWMA will submit Consultant's annual budgets to the Lower SGR Watershed Committee no later than May 1st of each year for the Committee's approval and adoption.

D. Consultant shall submit invoices to GWMA on a monthly basis for actual work performed and actual expenses incurred during the preceding month. The invoices shall describe in detail the services performed by each person for each task, including the days and hours worked.

E. Prior to releasing payment to Consultant, GWMA shall submit Consultant's invoices to the Lower SGR Watershed Committee for final payment approval. The Lower SGR Watershed Committee will decide whether to pay an invoice submitted by Consultant and inform the GWMA of its decision. If the Lower SGR Watershed Committee approves GWMA payment of an invoice, GWMA shall make payment to Consultant payable to:

John L. Hunter & Associates, Inc.
6131 Orangethorpe, Suite 300
Buena Park California 90620

F. GWMA's payment obligations pursuant to this Agreement are payable solely from funds appropriated to GWMA by the Watershed Permittees to fulfill the purpose of this Agreement. GWMA and Consultant expressly agree that full funding for this Agreement over the term of this Agreement is contingent on GWMA's receipt of payment from each Watershed Permittee of its proportional costs of the Services. In the event of a Permittee's failure to pay its proportional costs of the Services to GWMA, GWMA may either reduce funding for this Agreement at a level that is proportionate to the reduction in GWMA's receipt of funds from the Watershed Permittees or suspend all or a portion of the Services being performed by Consultant."

4. Exhibit A (Scope of Work) to the Agreement is hereby amended by adding thereto the scope of work items set forth in **Attachment "A"** to this Third Amendment, which is attached hereto and incorporated herein as though set forth in full. **Attachment "A-1"** shall hereafter become Exhibit A-1 and describes the scope of work for the Harbor Toxics TMDL and **Attachment "A-2"** shall hereafter become Exhibit A-2 and describes all other program tasks.

5. Exhibit B (Rate Sheet) to the Agreement is hereby amended by adding thereto the items set forth on **Attachment "B"** to this Third Amendment, which is attached hereto and incorporated herein as though set forth in full.

6. Except for the changes specifically set forth herein, all other terms and conditions of the Agreement, the First Amendment, and the Second Amendment shall remain in full force and effect.

7. The Recitals are incorporated herein as though set forth in full.

IN WITNESS WHEREOF, the parties hereto have caused this Third Amendment to Agreement to be executed the day and year first above written.

GWMA

Consultant


Los Angeles Gateway Region Integrated
Regional Water Management Authority

John L Hunter & Associates

By: _____
Name: Christopher Cash
Title: Chair

By: _____
Name: _____
Title: _____

Approved as to Form:

By: 
Name: Nicholas R. Ghirelli
Title: General Counsel

By: _____
Name: _____
Title: _____

(Please note: Two signatures required for corporations pursuant to California Corporations Code Section 313.)

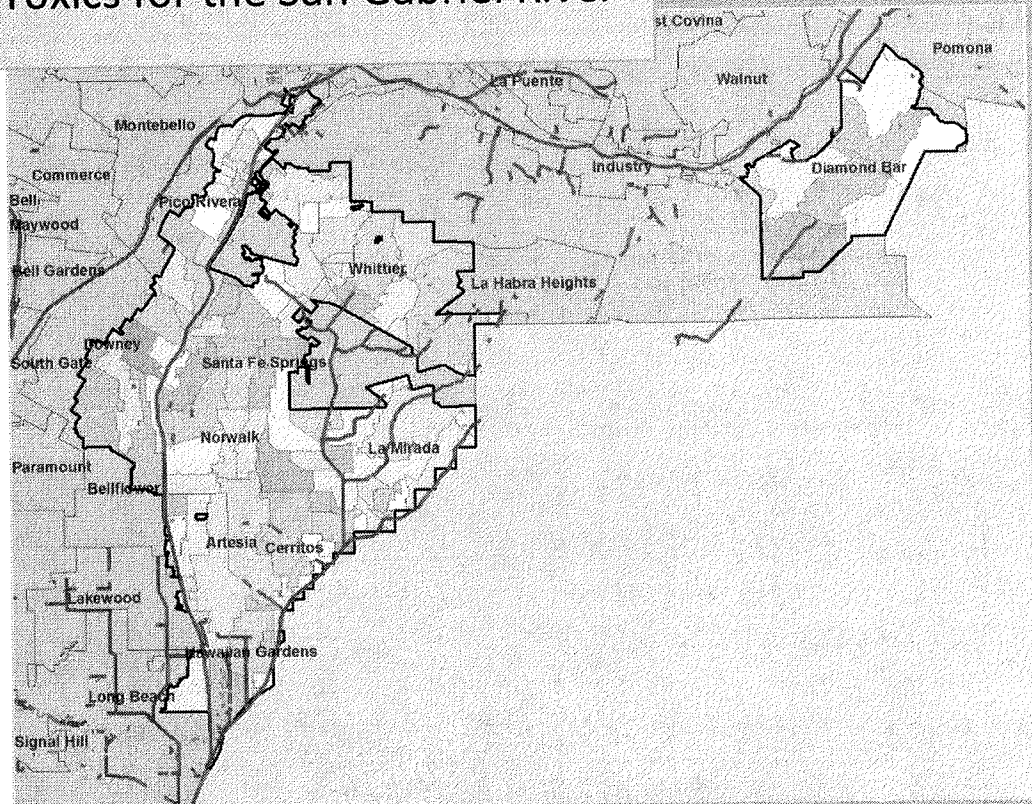
ATTACHMENT A-1 TO EXHIBIT A

**HARBOR TOXICS TMDL TASKS TO BE PERFORMED
FOR THE THIRD AMENDMENT**

Attached hereto and incorporated herein is the additional scope of work and associated cost as provided by the Consultant for this Third Amendment.

April 27, 2018

**Proposal to Assist the GMWA with Professional Services
Related to the Harbor Toxics for the San Gabriel River**



Prepared By:

John L. Hunter and Associates
6131 Orangethorpe Ave., Ste. 300
Buena Park, CA 90620
Proposal contact: John Hunter
jhunter@jlha.net | (562) 802-7880 ext. 225



Prepared For:

Grace Kast
Gateway Water Management Authority
16401 Paramount Blvd.
Paramount, CA 90723

And the Lower SG River Watershed
Management Group

Table of Contents

I.	Qualifications and Experience.....	1
A.	Relevant Firm Experience.....	1
1.	Municipal NPDES Permit Compliance.....	1
B.	Track Record	3
C.	Subcontractor Firm Experience	3
1.	Kinnetic Laboratories, Inc.	3
D.	Relevant Staff Credentials	4
E.	Proposed Team.....	5
F.	References	6
II.	Scope of Work and Approach	7
A.	Monitoring and Implementation Program.....	7
1.	Monitoring.....	7
2.	Reporting.....	8
3.	Equipment Lease, Reinstallation and Maintenance	8
B.	Program Management	9
III.	Rate Schedule and Estimated Costs.....	10
A.	Rate Schedule	10
B.	Estimated Not-to-Exceed Fee Proposal.....	11
IV.	Resumes.....	12

I. Qualifications and Experience

John L. Hunter and Associates, Inc. (JLHA) is an environmental consulting corporation established in 1985 that specializes in serving municipal clients. JLHA's mission is to provide its clients with the expertise necessary to comply with mandated environmental programs, such as NPDES, stormwater and watershed management, industrial waste (IW) and fats, oils and grease (FOG) control, water conservation, and recycling. Services provided under these programs include program management, engineering, inspections, monitoring, grant administration, and public education.

A. Relevant Firm Experience

Table 1 lists the municipal NPDES services currently or recently provided by JLHA to municipal clients. The following are summaries of JLHA's experience related to municipal NPDES Permit compliance.

1. Municipal NPDES Permit Compliance

JLHA has considerable experience in Municipal NPDES Permit compliance programs, beginning with the inception of the Phase I MS4 Permits in the 1990s. Currently JLHA implements elements of such programs for 45 cities in the Southland. Services include the following:

- 25 cities and 4 watershed groups: Program administration and/or technical support,
- 33 cities: Field services such as BMP compliance inspections,
- 23 cities: Plan review and approval (e.g., SUSMP/LID Plans, WQMPs, and SWPPPs),
- 32 cities and 3 watershed groups: Reporting (e.g., annual, TMDL, and/or watershed reports), and
- 32 cities and 3 watershed groups: Staff training.

Relevant and recent activities include:

- Representing cities in MS4 NPDES audits conducted by Regional Water Board staff,
- Obtaining and administering grants for stormwater capture and LID projects,
- Managing BMP inspection programs that cover in total approximately 10,000 sites,
- Developing watershed management programs under the area-wide LA MS4 NPDES Permit.

JLHA also served as the lead consultant for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River (LLAR), Lower San Gabriel River (LSGR), City of Long Beach, and Peninsula Cities Watershed Groups, and served as a sub-consultant for the development of the WMP for the Los Cerritos Channel (LCC) Watershed Group. As part of WMP development, JLHA also oversaw the development of Coordinated Integrated Monitoring Programs (CIMPs) for the LLAR, LSGR, and Peninsula Cities Watershed Groups. All plans were approved by the Regional Board in 2015 and 2016. Together the member agencies of these Watershed Groups represent 20 MS4 NPDES Permittees.

JLHA serves as the consultant team lead for the LLAR, LSGR, and Peninsula Cities Watershed Groups. Services include administering monitoring activities, watershed annual reporting, technical committee meetings, and select implementation efforts such as feasibility studies. In this capacity JLHA also regularly interfaces with city councils and Regional Board staff and members. JLHA also represents twelve municipal clients in watershed management groups for the Upper Los Angeles River, Upper San Gabriel River, Dominguez Channel and Los Cerritos Channel. In Orange County JLHA represents six municipal clients in watershed management group planning activities, covering the Coyote Creek/San Gabriel River, Anaheim Bay/Huntington Harbour, and the Santa Ana River watersheds.

Table 1: Summary of Municipal NPDES Services Recently or Currently Provided

Client	First year of service	Years of service	MS4 Permit Control Measures						Watershed				General Services			
			Development	Construction	Municipal Activities	Industrial/Commercial	Illicit Discharge Detection	Public Outreach	Watershed Plan Development	Watershed Plan Implementation	Monitoring	Studies	Reporting	Training	Grants	Program Mgmt. or Support
Arcadia	1995	23	·	×	×	×	×	×	·	·	·	×	×	×	·	·
Artesia	2014	4	·	×	×	×	×	×	·	×	·	·	×	×	·	×
Big Bear Lake	2004	14	·	·	·	×	×	·	·	·	·	·	×	·	·	·
Bellflower	2014	2	·	·	·	×	·	·	·	·	·	·	·	·	·	·
Cerritos	2015	3	·	×	·	·	·	·	·	·	·	·	·	·	·	·
Covina	2008	10	×	×	·	×	·	·	·	·	·	·	·	×	·	·
Diamond Bar	2007	11	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Downey	2011	7	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Fullerton	2017	1	·	·	·	·	·	·	·	·	·	·	×	×	·	×
Glendale	2013	5	·	·	×	·	·	·	·	·	·	×	×	×	·	×
Gateway Water Mgmt. Authority	2012	6	·	·	·	·	·	·	·	·	·	·	·	·	×	·
Hawaiian Gardens	2012	6	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Hawthorne	2000	18	·	×	×	×	×	×	·	·	·	·	×	×	·	×
Inglewood	2015	3	·	·	·	×	·	·	×	·	·	·	×	×	·	×
La Habra	2011	7	×	×	×	×	×	×	·	·	·	·	×	·	·	×
Lakewood	2014	4	·	·	·	×	·	·	·	·	·	·	·	·	·	·
Lomita	2015	3	·	×	×	×	×	×	·	×	·	·	×	×	·	×
Long Beach	2014	4	·	·	·	×	·	·	×	·	·	·	×	×	·	·
LCC Watershed Group	2013	5	·	·	·	·	·	·	×	×	×	·	·	×	·	×
LLAR Watershed Group	2013	5	·	·	·	·	·	·	×	×	×	·	×	×	·	×
LSGR Watershed Group	2013	5	·	·	·	·	·	·	×	×	×	·	×	×	·	×
Lynwood	2014	4	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Manhattan Beach	2010	8	·	·	×	×	·	·	·	·	·	·	·	·	·	·
Monterey Park	2005	13	×	×	×	×	×	×	·	×	·	×	×	×	×	×
Norwalk	2010	8	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Paramount	2014	4	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Pasadena	2015	3	×	·	·	×	·	·	·	×	·	·	×	×	·	×
Peninsula Watershed Group	2013	5	·	·	·	·	·	·	×	×	×	·	×	·	·	×
Placentia	2013	5	×	×	×	×	×	·	·	·	·	·	×	×	·	×
Rancho Palos Verdes	1994	24	×	×	×	×	×	×	·	×	·	·	×	×	·	×
Rolling Hills	2009	9	·	·	·	·	·	·	·	·	·	×	×	·	·	·
Santa Fe Springs	2016	2	×	×	·	·	·	·	·	·	·	·	·	·	·	·
San Gabriel	2017	1	·	·	×	·	·	×	·	·	·	·	×	×	·	×
Seal Beach	2005	13	×	×	×	×	×	×	·	·	·	·	×	×	×	×
Signal Hill	1985	33	×	×	×	×	×	×	·	×	·	×	×	×	·	×
South El Monte	2017	1	×	·	×	×	×	×	·	×	·	×	×	×	·	×
South Gate	1991	27	×	×	×	×	×	×	·	×	·	×	×	×	×	×
South Pasadena	2005	13	·	×	×	×	·	×	·	×	·	×	×	×	·	×
Stanton	2007	11	×	×	×	×	×	×	·	·	·	·	×	×	×	×
Temple City	2003	15	×	×	×	×	×	×	·	×	·	×	×	×	·	×
Villa Park	2013	5	×	×	×	×	×	×	·	·	·	·	×	×	·	×
West Covina	2015	3	×	×	×	×	×	×	·	×	·	·	×	×	·	×
West Hollywood	1995	23	×	×	×	×	×	·	·	·	·	×	·	×	·	·
Whittier	2014	4	·	×	×	×	×	×	·	×	·	·	×	×	·	×
TOTALS out of 44 agencies			22	27	28	33	25	25	5	22	4	10	35	35	5	32

B. Track Record

JLHA has aided municipalities comply with environmental regulations since its incorporation in 1985. Since that time JLHA has maintained a track record of meeting project schedules and providing project deliverables on-time, on-budget, and to client's satisfaction. This may be verified by contacting JLHA's existing and past clients, including those listed in the References Section of this proposal.

Another metric for JLHA's ability to meet project schedules is through its success in representing clients in Regional Water Board NPDES Program audits. These audits included detailed reviews of records for NPDES sub-programs managed and implemented by JLHA Project Teams. Of the many Regional Water Board NPDES Program audits that JLHA personnel participated in, none resulted in enforcement actions.

C. Subcontractor Firm Experience

Monitoring will be conducted by subcontractor Kinnetic Laboratories, Inc. (KLI). JLHA will serve as an administrative representative and point-of-contact for this program. The JLHA Project Team office is located at 6131 Orangethorpe Ave, Suite 300, in Buena Park, California. The Project Team listed in the following section will be available to provide any requested services throughout the term.

1. Kinnetic Laboratories, Inc.

Kinnetic Laboratories, Inc. is a small SBE, VSBE firm with 45 years of experience that specializes in field investigations in support of both water and sediment quality studies. Their core mission is to provide scientific, quantitative environmental data and evaluations focused on key issues for design, permitting, monitoring, and compliance. Kinnetic Laboratories has a local office and research vessels home ported in Long Beach, vibracores and other sediment sampling equipment, and extensive water quality instrumentation, including specialized stormwater stations capable of obtaining contaminant load determinations. They have worked extensively for many years with major local clients, including the City of Long Beach and the Port of Los Angeles. They have an extensive track record of water quality, stormwater, and sediment quality projects, including major sediment dredge studies for the Port of Los Angeles.

Water Quality and Storm Water. Kinnetic Laboratories has 25 years of stormwater and watershed experience, starting with the Santa Clara Valley program that won an USEPA Award of Excellence and later comprising over 20 such studies. A descriptive list of selected stormwater projects is provided in the Appendix. They have been the City of Long Beach's contractor for 15 years for the NPDES Stormwater Permit Monitoring Program, including extensive TMDL support. Their contaminant load data of both total and dissolved metals, backed by accompanying toxicity data allowed them to request that Waste Load Allocations (WLA's) be increased for copper, for lead, and for zinc. They have also performed special bacterial source studies for the City's beaches, and have also prepared seasonal and annual bacterial reports on the City's beach performance.

Kinnetic Laboratories are currently carrying out storm water monitoring and BMP research support for five large urban watersheds draining into San Pedro Bay. Recently, they have developed methodology to measure contaminant loads to San Pedro Bay of key organic pollutants to address the Harbor Toxics TMDL. Their work with the City of Long Beach BMP efforts has resulted in the recreational beaches reaching up to 98% compliance with respect to bacterial contamination. At Cabrillo Beach they researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their

vindicated hydrodynamics, field source studies, and molecular characterizations showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have a significant human contribution.

For the City of Long Beach, Kinnetic Laboratories have monitored storm water pump stations as part of the MS4 NPDES monitoring program. They also have monitored dry weather flow diversions from the Belmont and Appian Way storm water pump stations and prepared required reports for the County Sanitation District. Assistance with BMP designs has also included measuring flows in the stormwater system for design of low-flow, first flush diversions for four local watershed Water Management Plans.

Other representative stormwater, TMDL, and watershed projects are listed below which include extensive source study investigations, BMP evaluations, and mitigation measures. Recent studies carried out by Kinnetic Laboratories include preparing Comprehensive Integrated Monitoring Programs (CIMPs) for the Lower San Gabriel, Los Cerritos, and Lower Los Angeles River watersheds. A Proposition 84 funded study is underway for methods and monitoring of dry weather low-flow and water quality in Los Cerritos, Wardlow, Clark, Del Amo, and Palo Verde Channels. Work is also underway on Cerritos Creek TMDL studies.

D. Relevant Staff Credentials

JLHA staff credentials include certified professionals in engineering, stormwater quality, BMP (Best Management Practice) inspection, erosion control, SWPPP development and implementation, and environmental assessment. The experience, credentials and education of the key staff members are included in the Resumes Section of this proposal.

E. Proposed Team

Table 2 lists the roles of the Project Team. Detailed qualifications of the Project Team are included in the Resume section.

Table 2. Project Team Roles

Project Title		Team Member Information	
Core Team	Principal-in-Charge	Name	John Hunter, PE
		Roles	Point-of-contact, project oversight
	Project Manager	Name	Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR
		Roles	Point-of-contact, project development
	Project Manager	Name	Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR
		Roles	Point-of-contact, project development
	Assistant Project Manager	Name	Michelle Staffield, MSE, CPSWQ, QSD/P
		Roles	Point-of-contact and watershed management project delivery
	Monitoring Lead	Name	Pat Kinney, PhD (subcontractor KLI)
		Roles	Monitoring services point-of-contact and delivery
Extended Team	Project Analyst	Name	Hugo Garcia, CESSWI, QSP
		Roles	Project development, watershed planning
	Senior Engineer	Name	Michelle Kim, MSE, CPSWQ, QSD/P
		Roles	Project development, engineering
	Staff Engineer	Name	Rosalinda Tandoc, PE
		Roles	Project review, engineering
	Monitoring Principal	Name	Marty Stevenson (subcontractor KLI)
		Roles	Monitoring services oversight and delivery

F. References

Table 3 is a list of client references. JLHA provides NPDES MS4 services to each of the references listed. Additional references are available at the request of the GWMA.

Table 3: References

Agency Name	Data Field	Reference Information	JLHA Project Manager
Downey	Name/Title	Mohammad Mostahkami, Director of Public Works	John Hunter
	Address	11111 Brookshire Ave, Downey, CA 90241	
	Phone/email	(562) 904-7102, mmostahkami@downeyca.org	
Long Beach	Contact/Title	Melissa You, Stormwater Compliance Officer	Jillian Brickey
	Address	333 W Ocean Blvd, Long Beach, CA 90802	
	Phone/email	(562) 570-5524, Melissa.You@longbeach.gov	
Seal Beach	Contact/Title	Steve Myrter, Public Works Director	Jillian Brickey
	Address	211 8th Street, Seal Beach, CA, 90740	
	Phone/email	(562) 431-2527, smyrter@sealbeachca.gov	
Signal Hill	Contact/Title	Grissel Chavez, Deputy Director of Public Works	John Hunter/ Michelle Staffield
	Address	2175 Cherry Avenue, Signal Hill, CA 90775	
	Phone/email	(562) 989-7251, gchavez@cityofsignalhill.org	
South Gate	Contact/Title	Arturo Cervantes, Public Works Director	Michelle Staffield
	Address	8650 California Ave, South Gate, CA 90280	
	Phone/email	(323) 563-9512, acervantes@sogate.org	
Stanton	Contact/Title	Allan Rigg, Director of Public Works	Cameron McCullough
	Address	7800 Katella Ave, Stanton, CA 90680	
	Phone/email	(714) 890-4204, arigg@ci.stanton.ca.us	
Temple City	Contact/Title	Andrew Coyne, Management Analyst	Cameron McCullough
	Address	9701 Las Tunas Dr, Temple City, CA 91780	
	Phone/email	(626) 285-2171 ext. 4344	

II. Scope of Work and Approach

JLHA and KLI welcome the opportunity to provide professional monitoring and implementation services to the Gateway Watershed Management Authority (GWMA). This section details the approach to complete the Scope of Work (SOW). The timeframe of this proposal is for a period of two years from July 1, 2018, to June 30, 2020. The services provided may be extended for an additional three years upon written agreement by the GWMA and JLHA. The estimated costs are included in Table 6 to 8. This proposal is valid for 90 days.

The tasks listed in the following table includes "Task Detail" information that describe and approach and methods the Project Team will use to meet the contract requirements. The Project Team does not anticipate any significant concerns or problems during the term of this contract. The primary concern is budgeting, as annual variability in workload within the SOW is an unknown, within certain limits. However from past experience, the Project Team expects the not-to-exceed (NTE) annual estimate provided in the proposal to be sufficient for the services provided.

A. Monitoring and Implementation Program

Monitoring requirements for the Harbor Toxics TMDL is described in the Coordinated Integrated Monitoring Program (CIMP) documents for the LSGR watershed. This document specifies monitoring at two LSGR mass emission stations designated as S13 (Coyote Creek at Spring Street) and GR1 (San Gabriel River above Spring Street). KLI has previously installed automated monitoring equipment at these stations for the purpose of Harbor Toxics TMDL monitoring.

The Harbor Toxics TMDL specifies that suspended sediment concentrations of metals, PAHs, DDT and PCBs be determined during two wet events and one dry event at each of the three monitoring stations. The LA County Sanitation District is responsible for implementing the dry weather monitoring. KLI's approach to sampling and testing for the Harbor Toxics TMDL is the same as in previous years. This approach requires organic analyses to be conducted on the whole sample using High Resolution Mass Spectrometry (HRMS) methods. Sediment loads for both the metals and organics are determined using the suspended sediment concentration (SSC) of each sample. The HRMS organic analyses and SSC analyses will be conducted under this program, while the metals analyses will be conducted as part of the mass emission and long-term assessment site monitoring conducted under the CIMPs.

1. Monitoring

Monitoring requires the implementation of the following subtasks:

- Equipment Blanking
- Lab Interaction
- Preparation of Chain of Custody Documentation
- Sampling
- Subsampling
- Sample Delivery
- Chemical Analysis

Equipment blanking is conducted on the sample tubing and composite bottle in the field at one of the stations just prior to the first event of the year. A blank sample is also run on one subsampling hose set and two composite bottles. Special contaminant free deionized (DI) water is used to conduct the blanking and rinse the sample tubing prior to an event.

Laboratory interaction involves the ordering of laboratory containers and necessary DI water. Coordination is also conducted prior to and during a monitored event.

Chain of Custody documentation is prepared ahead of time for each monitored event.

To keep costs down, sampling is conducted at the same time that all other CIMP monitoring is conducted. Stations are programmed and initiated remotely by KLI's "storm control" personnel. Field crew visit the stations during an event as directed by "storm control" to troubleshoot any problems and to change composite bottles if needed. Once a storm has run its course, composite bottles are picked up and taken to KLI's facility at Los Alamitos for subsampling. Subsampling involves mixing the contents of the 20L bottle(s) for each station with a large magnetic stirrer and transferring the composited water into laboratory supplied sample containers. The sample containers are then packaged, iced and shipped to the laboratory.

Chemical analyses are conducted by Vista Laboratory. Analyses include two storm water samples per season at each station, one duplicate sample per storm event and four blank samples per season.

2. Reporting

Preparation of semi-annual data submittals and final watershed reports are conducted under the main CIMP budgets along with all other data. Additional reporting for the Harbor Toxics TMDL includes field status reports for each monitored event and an interpretive technical report of the prior year's data. Estimates developed for 2018-2019 include a technical report of the 2017- 2018 monitoring season.

3. Equipment Lease, Reinstallation and Maintenance

Lease fees for each fiscal year are based upon our standard lease fees for equipment for the three monitoring stations. Equipment includes auto-samplers, flow meters, communication modems, and a power source. After each monitoring season, sensitive equipment is removed from each station. This equipment along with freshly cleaned sample tubing is re-installed prior to the start of the monitoring season. This equipment is then maintained until storm monitoring is completed and the de-installed again.

One additional subtask conducted under this task is the cleaning of sampler tubing, subsampling tubing and 20L composite bottles. KLI has developed standard operating procedures for cleaning the equipment to meet the low level detection limits required under this program.

Table 4 lists the scope of work for the Monitoring and Reporting Program. This includes preparation of the Annual Report, record keeping, and database management.

Table 4. Scope of work for the Monitoring and Reporting Program

Permit §	Task #	Task
MRP	A.1	Monitoring
	A.1.a	Review water quality monitoring results Task detail: Water quality monitoring is led by the LSGR WMG, which is a service separate from this SOW. However the Project team will review monitoring results as they are provided by KLI and update the GWMA with an analysis of the results through correspondence and reports.
MRP	A.2	Reporting
	A.2.a	Assist in preparation of Watershed MS4 NPDES Annual Report Task detail: Preparation of the Watershed MS4 NPDES Annual Report is led by the LSGR WMG, which is a service separate from this SOW. The report does requires the submittal of some data from the Individual Annual Report. This task includes compiling and submitting this data, as well as reviewing and providing comments on draft versions of the Watershed MS4 NPDES Annual Report.

B. Program Management

Table 5 lists the SOW and approach for the management of all programs provided.

Table 5. Programs Management

Task #	Task
B.1.a	Provide program updates Task detail: This includes assessing and reporting on the status of program completion and compliance, holding update meetings, preparing program update and summary reports, and corresponding with the WMG on program updates.
B.1.b	Serve as program representative Task detail: This includes representing the WMG with respect to the services provided: 1) at relevant area-wide NPDES meetings, 2) in interactions with municipal, regulating, and non-governmental agencies, and the public, and 3) prepare summary reports.
B.1.e	Assure quality on services provided, including review of prepared documents Task detail: This includes review and revisions by the Project Manager of documents such as the Memorandum of Understanding (MOU) and deliverables prepared under the SOW for content and accuracy

III. Rate Schedule and Estimated Costs

A. Rate Schedule

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Industrial/commercial facility inspection	\$115/unit
Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

* JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

B. Estimated Not-to-Exceed Fee Proposal

The not-to-exceed cost for this project is included in the following tables. Information on the tasks listed are provided under the Scope of Work section of this proposal. Optional costs beyond the 2019-2020 season are also included and are based on a 3% escalation fee per year.

Table 6. Estimated Costs from July 1, 2018, to June 30, 2019

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$76,754
A.1 Monitoring	\$8,432	\$9,963	--	
A.2 Reporting	\$9,064	\$3,818	\$31,944	
Equipment Lease, Reinstall and Maintenance	\$13,533	--	--	
B. Program Management				\$11,514
B.1 Manage Program	Lump Sum Estimate			
Total				\$88,268

Table 7. Estimated Costs from July 1, 2019, to June 30, 2020

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$77,713
A.1 Monitoring	\$8,432	\$9,963	--	
A.2 Reporting	\$9,064	\$3,818	\$32,902	
Equipment Lease, Reinstall and Maintenance	\$13,533	--	--	
B. Program Management				\$6,218
B.1 Manage Program	Lump Sum Estimate			
Total				\$83,931

Table 8. Estimated Costs per Season Beyond the 2019-2020 Season (Optional)

Task name	2020-2021	2021-2022	2022-2023	Total
A. Monitoring and Reporting - KLI	\$80,044	\$82,445	\$84,919	\$247,408
B. Program Management - JLHA	\$6,404	\$6,596	\$6,794	\$19,793
Total	\$86,448	\$89,041	\$91,713	\$267,201

IV. Resumes

The following section includes the resumes of the Project Team.

John L. Hunter, PE

Principal

Education

B.S. Chemical Engineering, CSULB

B.S. Biological Sciences, UCI

Certifications and Licenses

CA Professional Chemical Engineer, 4724

CA Registered Environmental Assessor, 0900

CA Hazardous Substance Removal, A3382

CA General Engineering License, A-582340

Mr. Hunter serves as the Principal of JLHA. He has over 30 years of experience in municipal environmental programs and currently oversees: (1) elements of over 40 separate NPDES programs encompassing three counties that covers programs such as: watershed and stormwater management, TMDL implementation, plan reviews, industrial and construction inspections, public agency activities, public outreach, and monitoring/reporting; (2) eleven municipal FOG programs encompassing

permitting, inspections and enforcement; (3) seven municipal Used Oil Recycling programs; (4) three municipal Beverage Container Recycling programs; and (5) two water conservation programs. As of May 2016 Mr. Hunter serves as the chair for the LA Permit Group, which provides area-wide MS4 Permit updates to all affected parties under the LA Region MS4 Permit.

Related Experience

Watershed Management

Lead consultant for the Lower Los Angeles River Watershed Group, the Lower San Gabriel River Watershed Group, the Peninsula Cities Watershed Group, and the Long Beach Near-shore watersheds. Oversaw preparation and oversees continued development of the Watershed Management Programs for these groups. Also participates in the Upper Los Angeles River Watershed Group, the Dominguez Channel Watershed Group, and the Los Cerritos Channel Watershed Group.

Total Maximum Daily Loads

Los Angeles River Metals TMDL: Developed the Reach 1 Metals TMDL Implementation Plan on behalf of nine local agencies. The Plan was used as a source document for the Compliance Schedule in the Lower LA River WMP.

Los Angeles River Trash TMDL: Administered Trash DGR studies and associated compliance reports for multiple cities since 2004. Negotiated client interests with Regional Board staff. Obtained grant funding for and prepared the Hamilton Bowl BMP Study. The study evaluated different end-of-pipe trash capture systems for the Cities of Signal Hill and Long Beach.

MS4 Permit Minimum Control Measures (MCMs)

Oversees MCM elements of MS4 Permits for 37 cities. MCM programs include business and construction site inspections, LID Plan and SWPPP reviews, BMP implementation for public agency activities, illicit discharge investigations, and public outreach.

Representation and advocacy

Represents client interests in meetings with Regional Board staff/members regarding (E)WMPs, TMDLs, and other Permit mandates. Has chaired the Los Angeles River Watershed Management Committee, Santa Monica Bay Bacterial TMDL J7 Subcommittee, and the LA Permit Group. Currently serves as technical lead for the Lower San Gabriel, Lower Los Angeles, and Peninsula Cities Watershed Management Groups.

Education

M.S., Applied Mathematics, CSULB
B.S., Physics, CSULB

Certifications

CPSWQ, Envirocert (#0842)
QSD/QSP, CASQA (#22706)
IGP Trainer of Record, CASQA (#079)

Affiliations

Phi Beta Kappa Society
Society for Industrial & Applied Math

Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR*Director*

Cameron McCullough has fourteen years of experience in the environmental compliance field, specializing in surface water quality regulation. His experiences include managing the development and implementation of municipal NPDES, TMDL, and FOG Control programs, assisting and training municipal staff in their in-house NPDES programs, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Mr. McCullough serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. Permits managed include the NPDES stormwater permits—MS4, IGP, CGP—as well as non-stormwater permits and related orders such as those for drinking water system releases and sanitary sewer overflows. Permit programs address (1) stormwater quality for construction, industrial, and municipal activities and post-construction BMPs for development activities, (2) non-stormwater discharges to and from the MS4, (3) TMDLs for water bodies impaired by trash, metals, toxics, and bacteria, and (4) surface water quality monitoring. Through his program management activities, he has developed qualifications that meet those required to serve as the Project Manager for this project. Specific examples of these qualifications include:

- Serving as a Project Manager for contracted MS4 NPDES Program assistance for local cities. (Lomita, Glendale, Hawthorne, Monterey Park, Placentia, Stanton, Temple City, Villa Park, West Covina, and West Hollywood.) Responsibilities include serving as project point-of-contact, overseeing the Project Team, ensuring successful completion of the project, and representing the client in interactions with regulators and watershed groups.
 - Through these projects Mr. McCullough has served as Project Lead to all subordinate members of the team for this project. As such the team has developed a track record of working together effectively.
- Representing cities in MS4 NPDES Permit compliance audits from the Regional Water Quality Control Board. (Seal Beach 2006, 2010, Stanton 2010, 2014, Big Bear Lake 2007.)
- Developing 1) watershed-based compliance plans for wet and dry weather TMDLs for Metals, Toxics, Bacteria, and Trash (Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watersheds: 2013-2016), 2) municipal Stormwater Quality Management Programs (Stanton 2011, Villa Park 2015) and 3) SWPPPs (Downey, Norwalk, Lynwood, Pico Rivera, West Covina: 2011-2016).
- Leading hundreds of municipal training sessions in MS4, IGP, CGP, and Drinking Water System NPDES Permits, as well as SSO spill response and FOG control. (26 municipal clients from 2004-2016, covering 3 State Water Board Regions and 5 Phase I MS4 Permits.)

Watershed Management: Mr. McCullough served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included identifying water quality priorities, evaluating existing control measures, developing new control measures and compliance schedules, and providing quantitative reasonable assurance to attain water quality standards. He has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach.

Through representation of municipal clients' stakeholder interests, Mr. McCullough has also participated in the development of watershed management programs and monitoring programs for the Los Cerritos Channel, Dominguez Channel, Upper Los Angeles River, and Upper San Gabriel River (2013-present).

Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR*Director***11 Years of Experience in Water Quality****Education**

M.S., Environmental Science, CSUF

B.S., Zoology, Cal State Poly Pomona

Certifications

CPSWQ, Envirocert (#0845)

QSD/QSP, CASQA (#22731)

CGP Trainer of Record, CASQA

Jillian Brickey has eleven years of experience in environmental management, specializing in stormwater and watershed management and water conservation. Her relevant experiences include implementing and managing NPDES municipal Permit programs for Low Impact Development, Development Construction, and TMDL/watershed management. Tasks include includes plan review and approval, reporting, training municipal staff in program implementation, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Ms. Brickey serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. NPDES Permits managed include all elements of the MS4 and CGP Permits, including erosion/sediment control and Low Impact Development (LID) for construction projects, and TMDL implementation for water bodies impaired by trash, metals, toxics, and bacteria. Through these management activities, she has:

- Represented cities in MS4 NPDES Permit New Development compliance audits from the Regional Water Quality Control Board. (Seal Beach: 2010, 2015, Stanton: 2010).
- Developed TMDL compliance plans for Metals, Toxics, Bacteria, and Trash. (Lower Los Angeles River, Lower San Gabriel River, Long Beach Nearshore Watersheds: 2013-2016.)
- Served as primary contact with clients and represented their interests when interacting with regulators. (Covina, La Habra, Seal Beach, South Pasadena, Stanton, Pasadena, West Hollywood).
- Developed Stormwater Quality Management Programs (Seal Beach: 2011), LID compliance guideline documents (Gateway cities, 2014), and LID ordinances (2014).
- Held CGP QSD/QSP training as a CGP ToR (Pasadena, 2016) and led over one hundred municipal training sessions in MS4 and CGP Permits. (Over 20 municipal clients: 2008-2016).
- Reviewed on behalf of municipal clients hundreds of LID Plans, WQMPs, and SWPPPs and verified proper installation and maintenance of hundreds of LID BMPs.
- Supervised JLHA plan checking staff.

Watershed Management: Ms. Brickey served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River and Lower San Gabriel River Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included evaluating existing control measures and developing new control measures and compliance schedules to achieve water quality standards. She also oversaw the development and implementation of LID ordinances as required by the WMP development process. This included preparing a LID Ordinance Equivalency Demonstration for the City of Long Beach.

She has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach. Through representation of municipal clients' stakeholder interests, Ms. Brickey has also participated in the development of watershed management programs and monitoring programs for the Upper Los Angeles River, Upper San Gabriel River, and Peninsula Cities Watershed Groups (2013-present).

Michelle Stafffield, MSE, CPSWQ, QSD

Water Resources Engineer

11 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount

B.S., Ecology, Behavior, & Evolution, UCSD

Certifications

EIT #141553, NCEES

CPSWQ, Envirocert (#1136)

QSD, CASCA (#26529)

Michelle Stafffield has managed a variety of water quality improvement programs throughout Southern California. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, TMDL compliance, public information and participation, and representing clients at meetings. She is also involved in the development and review of Water Quality Management Plans (WQMPs), Standard Urban Stormwater Mitigation Plans

(SUSMPs), and Watershed Management Programs.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including the preparation of Trash TMDL studies and compliance reports.
- Assisting in MS4 Permit Project Management for the Cities of South Gate and Signal Hill. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Lower Los Angeles River and Lower San Gabriel River Watershed Management Groups.) Tasks include administering meetings, managing subcontractors, and preparing the watershed Annual Report.

Michelle Kim, MSE, CPSWQ, QSD, EIT

Project Manager/Project Engineer

11 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount

B.S., Environmental Science, UC Berkeley

B.A., Public Health, UC Berkeley

Certifications

EIT, NCEES (#141554)

CPSWQ, Envirocert (#1134)

QSD, CASQA (#26504)

Grade 3 Laboratory Analyst, CWEA (#130133001)

Michelle Kim has eleven years of experience in the water quality industry, which includes potable water, wastewater, and storm water. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, and TMDL compliance. She is involved in the development and review of Water Quality Management Plans (WQMPs), Low Impact Development (LID) Plans, and Standard Urban Stormwater Mitigation Plans (SUSMPs). Michelle's past experience includes work with the Orange

County Sanitation District involving treatment processes, laboratory analyses, and monitoring of wastewater and source control.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, and South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including review of Bacteria TMDL monitoring data for Jurisdiction 7 of the Santa Monica Bay, reconsideration of the Machado Lake nutrients TMDL, and preparation of the final compliance report for the Machado Lake Trash TMDL.
- Assisting in MS4 Permit Project Management for the Cities of Hawthorne, Lomita, and Rancho Palos Verdes. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Palos Verdes Peninsula Watershed Management Group.) Tasks include administering meetings, managing subcontractors, and preparing the Watershed Annual Report.

Hugo Garcia, CESSWI, QSP
Environmental Compliance Specialist II

Education

B.S., Environmental Science, UCR

Certifications and Training

CESSWI, Envirocert (#4769)

QSP, CASQA (#26091)

Professional Certificate in GIS

24 Hour HAZWOPER

Basic Inspector Academy, Cal EPA

Spanish fluency

Hugo Garcia has six years of experience with John L. Hunter & Associates, specializing in NPDES and Industrial Waste/FOG Control regulations. His experiences include MS4 compliance of the Public Information and Participation, Industrial/Commercial, Construction, Public Agency, and Illicit Connections & Illicit Discharge Elimination Programs. In addition, Hugo provides assistance with TMDL implementation and serves as the lead GIS Specialist providing spatial analysis to clients in the Los Angeles and Orange counties.

Recent Experience and Project Qualifications

Mr. Garcia currently serves as an Environmental Compliance Specialist II whose responsibilities include field compliance inspections for local cities (La Habra, South Gate, and Whittier), and providing assistance with the implementation of the several Watershed Management Programs in the Los Angeles County. Specific examples of these and past qualifications include:

- Conducting over 2,000 NPDES compliance inspections at Industrial/Commercial (i.e. auto, restaurant, nursery), and State-permitted construction sites
- Assisting with the implementation and reporting of the LA River's Trash TMDL DGR Study
- Assisting with the development of the Lower LA River Watershed Management Group Trash Monitoring Reporting Plan (TMRP).
- Assisting with the development of a Stormwater Pollution Prevention Plan (SWPPP) for both Signal Hill and West Covina facilities, as required by the State's Industrial General Permit (IGP) program.
- Developing and maintaining GIS databases of 1) MS4 outfall locations with and without Non-Stormwater Discharges, 2) retrofitted catch basin storm drain systems, and 3) potential sites for multi-agency, multi-watershed low impact development (LID) regional projects throughout the Los Angeles River and San Gabriel River watersheds
- Reviewing preliminary plumbing plans for new development and tenant improvement projects at Industrial Waste/FOG facilities in the cities of Arcadia, Signal Hill, South El Monte, South Gate, and Stanton
- Preparing a Spill, Prevention, Control, and Countermeasure (SPCC) Plan for the City of South Gate's Corporation Yard and providing training

Rosalinda Tandoc, PE
*Staff Civil Engineer***Overview**

Ms. Tandoc has over 30 years of experience reviewing and approving structural and architectural plans. Her specialty lies in reviewing and approving such plans for compliance with Permits (including MS4), City ordinances (including LID and Green Streets/Fats, Oils, and Grease/Industrial Waste/Erosion Control), Building Codes, and other State Laws. At JLHA, she has been instrumental in expediting plan review and approval for issuance of permits, interacting with clients to troubleshoot project development problems, and expediently facilitating completion of client projects. She has done this for all of JLHA's past and current clients, which now includes 23 cities.

Education

Master of Science in Civil Engineering
California State University, Long Beach

Certifications and Licenses

CA Registered Civil Engineer

Related Experience**With JLHA
(Starting 2006)**

- Reviews structural and architectural plans and residential and large and complicated buildings for compliance with the MS4 Permit, City Ordinances and State Law.
- Interacts with developers to facilitate completion of their projects
- Worked with the Principal in investigating problems presented to them.
- Code Consultant

Prior Experience:

- Los Angeles County Department of Public Works Building and Safety Division (1979 – 2006)
- Coordinated with local agencies in expediting the issuance of permits
- Assisted Permit Technician in solving problems that he or she may have incurred in the processing of permits and other related problems that need to be resolved at the counter.
- Assisted the City in developing ways and methods of expediting the processing of plans for issuance of permits.
- Assisted the City in developing plans and methods for effective office organization in the City Building Department in working with the City Planning Department.

Personal Advancement Courses

Engineering Management
Communication
Diversity Training
Business and English Writings
Supervisory Management

Achievements/Volunteer Works

Outstanding Woman of 1998, City of Cerritos
Greater Long Beach Girl Scout Council
Cerritos Senior Center, City of Cerritos
St. Linus Parish, Norwalk, CA
Cathedral of Our Lady of the Angels, Los Angeles

KINETIC LABORATORIES, INC.

SELECTED PAST PROJECTS, WATER QUALITY & STORMWATER

Watershed NPDES Stormwater Monitoring. Kinnetic Laboratories is presently carrying out NPDES stormwater monitoring projects for the Lower Los Angeles River, Los Cerritos Channel, Lower San Gabriel River, and the City of Long Beach Estuarine Watersheds along with assisting CH2MHill with field monitoring in the Upper San Gabriel River Watershed. This new work is designed to be in compliance with both the Los Angeles and the City of Long Beach's new Stormwater Permits and has been approved by the Regional Water Quality Control Board. The program is designed to obtain precision contaminant loading data by use of flow composited sampling of complete hydrographs along with chemical and toxicity analyses. An innovative approach is being implemented to obtain flow composited samples under ultraclean protocols for bioaccumulative organic compounds along with high-resolution Mass Spectral analyses in order to obtain loading of these contaminants to San Pedro Bay, thus addressing the Harbor Toxics TMDL requirements. Support for BMP designs for the associated Water Management Plan is also being furnished. Gateway Water Authority and City of Long Beach. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net ; Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com ; and Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov .

City of Long Beach NPDES Stormwater Monitoring Program. Dr. Kinney initially served as project manager for this program, then subsequently provided operational support to Mr. Stevenson as Manager. Kinnetic Laboratories has been the contractor for the City of Long Beach's NPDES storm water monitoring program since its inception fifteen years ago. This program involves instrumentation and monitoring of the City's storm water discharges, determinations of effects to harbor receiving waters, and extensive support for TMDL issues and permit renewal negotiations. In addition to providing guidance to BMP programs, a key contribution has been obtaining a fifteen year record of precision contaminant loading data critical to TMDL issues. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Los Cerritos Creek TMDL Studies, City of Long Beach. An example of the ability to obtain good load data as described above, for TMDL support, Mr. Stevenson was able to calculate site-specific metal translators based upon methods of the USEPA (1996) guidance document using the precision 12 year monitoring data for this watershed, backed by accompanying toxicity data. Instead of the simple regression calculation used in the original TMDL model, this more accurate method takes into account high suspended solids present in storm water runoff, resulting in the potential for metal Waste Load Allocations (WLAs) to be increased by a factor of 1.5 for copper, 12.5 for lead, and 2.4 for zinc. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Design Comprehensive Integrated Monitoring Program (CIMPs) for Lower San Gabriel, Los Cerritos Channel, and Lower LA River Watershed Technical Committees. Dr. Kinney assisted Mr. Stevenson in the preparation of Comprehensive Monitoring Programs for the Lower Los Angeles River, Lower San Gabriel River, and Los Cerritos Channel urban watersheds that include Cities from Downey, Lakewood, Compton, and Long Beach which drain into the San Pedro Bay harbor complex. This program is designed for implementation to fulfill requirements of the new stormwater permits and incorporate associated TMDL

requirements. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net and Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Dry Weather Flow & Water Quality LID Methods Study (Proposition 84), Gateway Water Authority. Dr. Kinney developed flow and water quality methods as part of implementing Los Cerritos Channel Watershed Segmentation and LID Planning to support TMDL actions. Special low-flow monitoring methods were designed and proven by a pilot study and reported to the State RWQCB for general use. Dry weather monitoring was carried out in the main Los Cerritos, Wardlow, Clark, Del Amo and Palo Verde Channels to provide key data for identification of primary sources of dry weather pollutant loads and for LID planning purposes. Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Cabrillo Beach Bacteria Studies. Kinnetic Laboratories researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their hydrodynamics, field source studies, and molecular markers showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have significant human contributions. Subsequent independent studies by the Port vindicated the local hydrodynamic results of the study and proved conclusively that enhanced circulation by small pumps was not a solution. Working with Jeff Soller of Soller Environmental, the recommended action by Kinnetic Laboratories was to consider a Natural Source Exclusion and a Quantitative Microbial Risk Assessment study to show that not only were human sources not present, but that other pathogens were not a problem. John Foxworthy (Deceased), Port of Los Angeles.

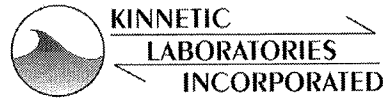
Central Coast Long Term Environmental Assessment Network (CCLEAN), Monterey Bay Regional Monitoring Program. (CCLEAN) is long-term a regional monitoring program in the Monterey Bay area focused on water quality issues, with an emphasis on measuring contaminant inputs from point and non-point sources and determining the effects of those contaminants, including exceedances of water quality and biological tissue criteria, effects on biological communities, and effects on the health and mortality of sea otters. Responsible for field studies in the project team, Kinnetic Laboratories uses state-of-the-art sampling and analytical methods, such as solid-phase extraction techniques, to measure flow-proportioned low concentrations of persistent organic pollutants from four rivers, four wastewater treatment plants, and from specially designed offshore moored samplers in Monterey Bay. Measurements of bioaccumulation in resident mussels at shoreline locations are also determined. City of Watsonville and Applied Marine Sciences. Barbara Pierson, 831-768-3179, bpiereson@ci.watsonville.ca.us, Dane Hardin AMS, 831-426-6326, hardin@amarine.com.

Calleguas Creek TMDL Watershed Monitoring Program. The Calleguas Creek Watershed Total Maximum Daily Load Monitoring Program addresses four TMDL actions at present and is designed to begin the required monitoring to obtain data to support development of Implementation Plans to achieve water quality objectives. Working with Larry Walker Associates, Dr. Kinney set up and implemented field sampling operations in the program, submission of laboratory samples, does tracking and managing analytical testing, and carries out data management and quality evaluations. Validated data is delivered in the form of a modified SWAMP database. Larry Walker Associates, Mack Walker, 530-753-6400, mackw@lwa.com.

CALTRANS Stormwater Studies. Kinnetic Laboratories has monitored over 79 stormwater stations each for multiple years for Caltrans, spread from Redding in the north to San Diego in the south utilizing full telemetry network control. This resulted in over 1000 storm events with over 95% success, over 90% storm capture, and high quality validated data including excellent mass balances across BMP pilots being evaluated. This work included 12 sites for Runoff Characterization, 31 Biofilter sites, 7 sites for erosion control BMPs, and 29 sites for structural BMP Operations & Evaluations. Major Southern California sites were for BMP evaluations done for RBF Consulting, Scott Taylor, RBF Consulting/Michael Baker International, 949-246-8276, staylor@mbakerintl.com

Port of Los Angeles – Stormwater Monitoring and StormCeptor Evaluation, Berth 100. Berth 100 developments at the Port of Los Angeles involved the construction of a major dock to accommodate large container ships and an adjacent, large paved terminal yard to handle the containers and trucks for shipment. Storm water drainage from the new container terminal was designed as slot drains which drop into an underground collector storm sewer system. A total of 10 StormCeptor 11000 units were incorporated into this collection system to treat the storm water from the terminal before discharge into the harbor. Kinnetic Laboratories performed storm water discharge monitoring at this Pier 100 facility before and after operations began, and also tested the effectiveness of StormCeptors installed in the drainage system by monitoring both upstream and downstream. Kathryn Curtis (310) 732-3571; kcurtis@portla.org .

PATRICK KINNEY, Ph.D.
Principal



RESPONSIBILITIES

Dr. Kinney serves as a Project Manager/Project Principal for numerous oceanographic and environmental applied projects as well as serving as CEO of Kinnetic Laboratories Inc.

EXPERIENCE

Dr. Kinney received his Ph.D. in Chemical Engineering from Iowa State University, had experience as a research engineer for Phillips Petroleum, and later worked on hydrodynamic design modeling of clustered engines for the moon rocket program. He did a Postdoctorate in Oceanography at Scripps Institution of Oceanography, University of California, San Diego working in the Food Chain Research Group. Dr. Kinney was a tenured faculty member in Marine Sciences at the University of Alaska, Institute of Marine Sciences.

Dr. Kinney founded Kinnetic Laboratories, Inc. 40 years ago as an environmental and oceanographic services firm with the express purpose of providing good, quantitative scientific data on key issues to support applied projects - data for design, monitoring, compliance, and permitting. Dr. Kinney has carried out thousands of projects and contributed environmental improvements and practices while supporting necessary infrastructure, facility, and resource utilization developments.

Dr. Kinney began managing stormwater monitoring projects in the late 80's with the urban watersheds of the Santa Clara Valley Water District. For this project, and for a following project for Alameda County, Dr. Kinney developed basic study designs and field study techniques that served as prototypes and influenced the original USEPA storm water regulation issued in 1991. Dr. Kinney, working with Marty Stevenson implemented these initial studies which won EPA Awards of Excellence. Early development of overall urban watershed approaches coupled with flow-composited sampling allowed contaminant load data to be obtained. The use of automated sampling equipment modified for clean sampling protocols, driven by flow sensors facilitated the collection of precision contaminant load determinations. Large composite samples obtained in clean borosilicate glass bottles allowed for subsequent chemical analyses and also toxicity testing. Early use of telemetered controlled urban stormwater stations advanced the success of good data collection, particularly allowing full storm capture necessary to load determinations. Early on, he could also network stormwater stations over large watersheds and geographical areas. For BMP effectiveness studies, multiple samplers measuring in and out of a structural BMP could be controlled, the data transmitted by one site master, and then be controlled and data transmitted to a central Storm Control center where the data collection would be managed and who also could dispatch field crews as necessary.

Dr. Kinney subsequently served as a project manager or Principal on over twenty different large urban stormwater monitoring studies, many of which were set up for Cities or Counties for their continuing operation. Some pertinent project examples that Dr. Kinney and Mr. Stevenson have carried out follow. For example, using the equipment and protocols developed above, Dr. Kinney managed the monitoring of over 79 stormwater stations each for multiple years for Caltrans, spread from Redding in the north to San Diego in the south utilizing full telemetry network control. This resulted in over 1000 storm events with over 95% success, over 90% storm capture, and high quality validated data including excellent mass balances across BMP pilots being evaluated. This work was done as a Prime Contractor for Caltrans (\$8 million contract) and as a subcontractor to other engineering firms (RBF Consulting, Geomatrix, Brown & Caldwell, URS, Law Crandall, etc.). Work included those for runoff characterization and load determinations (12), for biofilter BMP testing (31), for erosion control BMPs (), and for a whole array of differing structural BMPs (28).

Dr. Kinney initially served as project manager for the City of Long Beach's NPDES Monitoring Program, then subsequently provided operational support to Mr. Stevenson as Manager. Kinnetic Laboratories has been the contractor for the City of Long Beach's NPDES storm water monitoring program since its inception fourteen years ago. This program involves instrumentation and monitoring of the City's storm water discharges, determinations of effects to harbor receiving waters, and extensive support for TMDL issues and permit renewal negotiations. In addition to providing guidance to BMP programs, a key contribution has been obtaining a fourteen year record of precision contaminant loading data critical to TMDL issues.

Recently, Dr. Kinney also developed flow and water quality methods as part of implementing a special Proposition 84 funded study for the Los Cerritos Channel Watershed Segmentation and LID Planning work required by TMDL regulatory actions. Special low-flow monitoring methods were designed and proven by a pilot study and reported to the

State RWQCB for general use. Dr. Kinney is managing Dry weather monitoring studies now being carried out in the Los Cerritos, Wardlow, Clark, Del Amo and Palo Verde Channels to provide key data for watershed segmentation and LID planning purposes. Dr. Kinney also worked with Mr. Stevenson in the preparation of Comprehensive Integrated Monitoring Programs (CIMPs) for the Lower Los Angeles River, Lower San Gabriel River, and Los Cerritos urban watersheds. He supervised the field reconnaissance, including inspecting outfalls and developing a database for locations, sizes, and initial dry weather observations. This program is designed for implementation to fulfill requirements of the new stormwater permits and incorporate associated TMDL requirements.

Working with Larry Walker Associates, Dr. Kinney also set up the field monitoring logistics and implemented all field studies for the Calleguas Creek TMDL Watershed Monitoring Program and serves as Project Principal for these field and laboratory tasks. The Calleguas Creek Watershed Total Maximum Daily Load Monitoring Program addresses four TMDL actions at present and is designed to begin the required monitoring to obtain data to support development of Implementation Plans to achieve water quality objectives. The work includes all field sampling operations required in the watershed, submitting samples to designated laboratories, the tracking and managing analytical testing, and the carrying out data management and quality evaluations. Validated data is delivered in the form of a modified SWAMP database format.

Working with Applied Marine Sciences, Dr. Kinney is also Project Principal for field studies for the Central Coast Long Term Environmental Assessment Network (CCLEAN). This is a long-term regional monitoring program in the Monterey Bay area focused on water quality issues, with an emphasis on measuring contaminant inputs from point and non-point sources. Determining contaminants and exceedances of water quality and biological tissue criteria is a goal, along with effects on biological communities as well as effects on the health and mortality of sea otters. Responsible for field studies in the project team, Kinnetic Laboratories uses state-of-the-art sampling and analytical methods, such as solid-phase extraction techniques, to measure flow-proportioned low concentrations of persistent organic pollutants from four rivers, three wastewater treatment plants, and from specially designed offshore moored samplers in Monterey Bay. Measurements of bioaccumulation in resident mussels at shoreline locations are also determined.

Separately Dr. Kinney also has been Project Manager or Project Principal for hundreds of dredge material studies carried out since 1977 according to USEPA and USACE protocols. Projects have resulted in characterization and or remediation of over 150 million cubic yards of dredge sediments, with the majority beneficially reused for construction of new port facilities or if suitable, for beach replenishment or for wetland restorations. Projects included serving on the Project Design Teams for major Port of Los Angeles capital development projects including Pier 400, the channel deepening project, the Southwest Slip development, the recent Port-wide maintenance dredging project, and later for design of a remediation project at the Consolidated Slip superfund site. Dr. Kinney authored the overall Contaminated Sediment Management Plan for these and associated maintenance and harbor clean-up projects. These projects involved creation of a shallow water habitat of capped dredged material, confined disposal facilities developed into terminal facilities, an in-harbor underwater temporary sediment storage facility, and selective upland disposal.

He also served as Project Manager for sediment characterization studies for the proposed San Francisco International Airport expansion of runways into San Francisco Bay as well as Project Manager for sediment characterizations and ecological risk assessments for the large wetland restoration project at Bolsa Chica. Dredge projects this year have included all the sediment sampling, chemical and biological testing, data evaluation and reporting, including suitability determinations for reuse/disposal alternative for Oceanside, Dana Point, Port of Los Angeles federal channel maintenance, Los Angeles River estuary channels, Huntington Harbor, Port of Richmond, Coast Guard Station Alameda. He has managed multiple year contracts for the U.S. Army Corps of Engineers (Los Angeles, San Francisco, Sacramento Districts), including work in the Sacramento and Stockton Deep Water Ship Channels and the Federal channels in San Diego Bay.

Dr. Kinney has also designed, managed, and carried out hundreds of applied environmental projects in coastal, estuarine, rivers, lakes and ports and harbors. He developed extensive capabilities for contaminated sediment and dredge material studies. Dr. Kinney has also served as a principal investigator on more than 75 NPDES monitoring studies involving effects of point source discharges, such as the Municipality of Anchorage's (MOA) John M. Asplund Wastewater Treatment Facility, as well as other studies involving nonpoint discharges of spills and hazardous materials, such as the *T/V Exxon Valdez* oil spill (EVOS). Kinnetic Laboratories was asked to set up the EVOS monitoring program immediately after the spill including the complicated logistics for working in these coastal areas of Alaska. During the EVOS scientific response, he designed and/or provided doctorate-level support for a variety of programs involving water and sediment quality, fate and effects, and clean-up and treatment efficacy studies. NPDES projects have also been located in Alaska as well as the Lower 48 and have involved major wastewater outfalls for cities such as San Diego, San Francisco, Oakland, and San Jose. He now is working on several coastal desalination projects in California that involve seawater intakes and brine discharges associated with wastewater outfalls or power

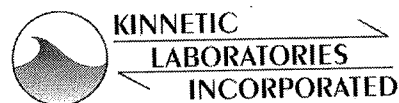
plant cooling water discharges. He also has worked on large power plant marine water intake hydrodynamics and plankton entrainment problems, including the large San Onofre nuclear plant in California. Dr. Kinney was also project manager for the all marine portions of the City of San Diego Clean Water Program. He was chief author of the marine sections of the EIR/EIS along with the oceanographic, water and sediment quality, geophysical, and marine biology studies to determine impacts of the three wastewater outfall alternatives.

EDUCATION

Post-Doctorate in Oceanography, Scripps Institution of Oceanography, University of California, San Diego; 1966
Ph.D., Chemical Engineering; Iowa State University; 1963
B.S., Chemical Engineering; South Dakota School of Mines; 1957

MARTY STEVENSON, B.S.

Principal, Senior Marine Ecologist and Water Quality Biologist



RESPONSIBILITIES

Mr. Stevenson has been a Principal and Senior Staff Biologist with Kinnetic Laboratories, Inc. (KLI) with 38 years of experience with the firm and now serves as a consultant for stormwater monitoring and regulatory issues, including those associated with new NPDES permits and TMDL actions. He specializes in water quality, nonpoint source pollution, and ecological studies in aquatic, estuarine and nearshore marine environments. He serves as project manager for urban stormwater, nonpoint source and NPDES interdisciplinary monitoring studies and as senior scientist in investigations involving general larval and adult fish ecology, population dynamics and toxicology.

EXPERIENCE

Mr. Stevenson has more than 38 years of experience conducting environmental investigations in coastal urban watersheds and in aquatic, estuarine and marine environments. This experience includes studies in throughout California, Hawaii, and Alaska. He has been KLI's lead biologist for fish and macroinvertebrate population and bioaccumulation studies for most of KLI's NPDES monitoring programs, including several in Alaska.

Mr. Stevenson has been Project Manager for the large City of Long Beach NPDES municipal storm water monitoring program that Kinnetic Laboratories has carried out for the past 13 years. He is highly recognized in California as a leading specialist in water quality and corresponding biological effects, particularly working in coastal watersheds and estuarine environments with storm water runoff and TMDL issues. He has pioneered numerous studies and methods relating to storm water monitoring, toxic linkages to biota, and impacts to receiving waters.

Mr. Stevenson pioneered large storm water monitoring programs when Kinnetic Laboratories developed and implemented the first modern municipal storm water program in California in 1988 for the Santa Clara Valley Urban Runoff Program, followed closely with a similar program for the Alameda County Storm Water Program. Both programs received EPA's Awards of Excellence and were models for the 1991 EPA storm water permit requirements. Innovations he implemented in these early programs included customized instrumentation to allow collection of flow-composited samples yielding pollutant load determinations from land-use areas, use of Teflon and glass to achieve clean sampling and low detection limits necessary to address water quality standards, and early integration of toxicity measurements to address biological effects. Another innovation involved telemetered remote control of stormwater monitoring stations to enable the collection of high quality pollutant load data needed by TMDL regulations by ensuring full storm capture of rain events, including successful use at tidal sites for the City of Long Beach.

A recent application of these approaches with even better equipment and techniques has generated a high quality, nine year time-series data set of particulate and dissolved metal data for the Long Beach Cerritos Channel that has allowed Mr. Stevenson to produce a critical evaluation of the particulate to dissolved metal translators of the EPA (Tetra Tech) models now being used to develop TMDL limits for the Ports of Los Angeles/Long Beach. This evaluation shows that the EPA default CTR translators are not applicable to local urban storm waters which are typified by moderate to high concentrations of suspended sediment (48-1700 mg/L). The default CTR translators are roughly 2.5 times greater for both copper and zinc while the default lead translator is 15 times greater. Even the modified lead translator based upon a hardness of 100 mg/L is over 12 times greater than values based upon the actual monitoring data. Similar assumptions are being applied to the Los Angeles River, the San Gabriel River, and Dominquez Channel TMDLs, though site specific water quality standard studies have been available for the Los Angeles River. Kinnetic Laboratories met with the Water Resources Control Board, USEPA, and their contractor TetraTech with regard to these metal issues. Kinnetic Laboratories is also playing a key part with RBF Consultants in a new National Academy sponsored study of metal storm water discharges into receiving waters and of methods for reduction or treatment appropriate to receiving waters.

Mr. Stevenson holds a B.S. in Zoology and a B.A. in Oceanography from California State University, Humboldt and conducted graduate studies at Moss Landing Marine Laboratories. He specializes in water quality and biological effects in receiving waters. Mr. Stevenson thus has years of experience as a water quality biologist and over 20 years experience as a project manager and senior scientist for stormwater municipal, industrial, and BMP evaluation studies.

He was recently selected to serve on an expert review panel to provide technical review for the Caltrans stormwater monitoring program. Like Dr. Kinney, Marty has managed numerous major storm water monitoring programs over the

last 20 years such as Santa Clara, San Mateo, and Ventura County monitoring equipment assistance and is currently managing the City of Long Beach's storm water monitoring program. He has carried out a WERF funded pilot study of bio-indicators in Coyote Creek for Santa Clara. He is currently managing a program designed to assess long-term loads of Persistent Organic Pollutants to Monterey Bay at very low concentrations using pumped absorbent columns at four wastewater dischargers and four rivers entering the Bay, including specially designed sampling buoys moored offshore in the Bay. He recently has finished a treatment train, porous pavement BMP evaluation project for the County of San Diego and worked with Dr. Kinney on quantifying pollutant loads and BMP effectiveness at Pier 100, a new terminal facility at the Port of Los Angeles.

He has performed or participated in a wide range of investigations to support development of sound TMDLs. He provided technical support for the development of data necessary for determination of four trace metal TMDLs in the Eagle River watershed for the Municipality of Anchorage (MOA), Alaska. He has also provided technical support for permit monitoring, BMP, and special studies conducted over the years for the MOA in conjunction with the John M. Asplund Wastewater Treatment Facility. He was also the program manager for a special source study to assist in the process of developing TMDLs for mercury and PCB for San Francisco Bay. This study included identification of sources of mercury, PCBs, and organochlorine pesticides in deposited sediments from urban storm water drainages and comparing them with sediments from rural, open land use areas. In Newport Bay, California, he was program manager in support of Orange County's efforts to develop a bacterial TMDL for Newport Bay; includes literature review, resource surveys, evaluation of current beneficial use of the shellfish resources, and assessment of enhancement methods. He is currently helping the County to develop a Use Attainability Assessment to determine if shellfishing in Upper Newport Bay is an attainable beneficial use. Earlier work involved a multiyear study of fish and shrimp populations and water quality for an impact study of wastewater discharges into South San Francisco Bay, followed by water quality investigations designed to assist in development of the first Water Effects Ratios (WERs) approach for Copper in an estuarine habitat that would allow use of site-specific water quality standards in this shallow estuarine area of the Bay.

Mr. Stevenson has been involved in extensive testing of stormwater BMPs as part of a large study for the California Department of Transportation in Southern California. He is also currently conducting the first study on the West Coast to examine performance of six different porous pavement configurations. This same study is performing parallel testing of four different filtration media in a Media Filtration System. Among the media being tested are media that are expected to improve removal of dissolved metals.

EDUCATION

B.A., Biological Oceanography; California State University, Humboldt; 1974

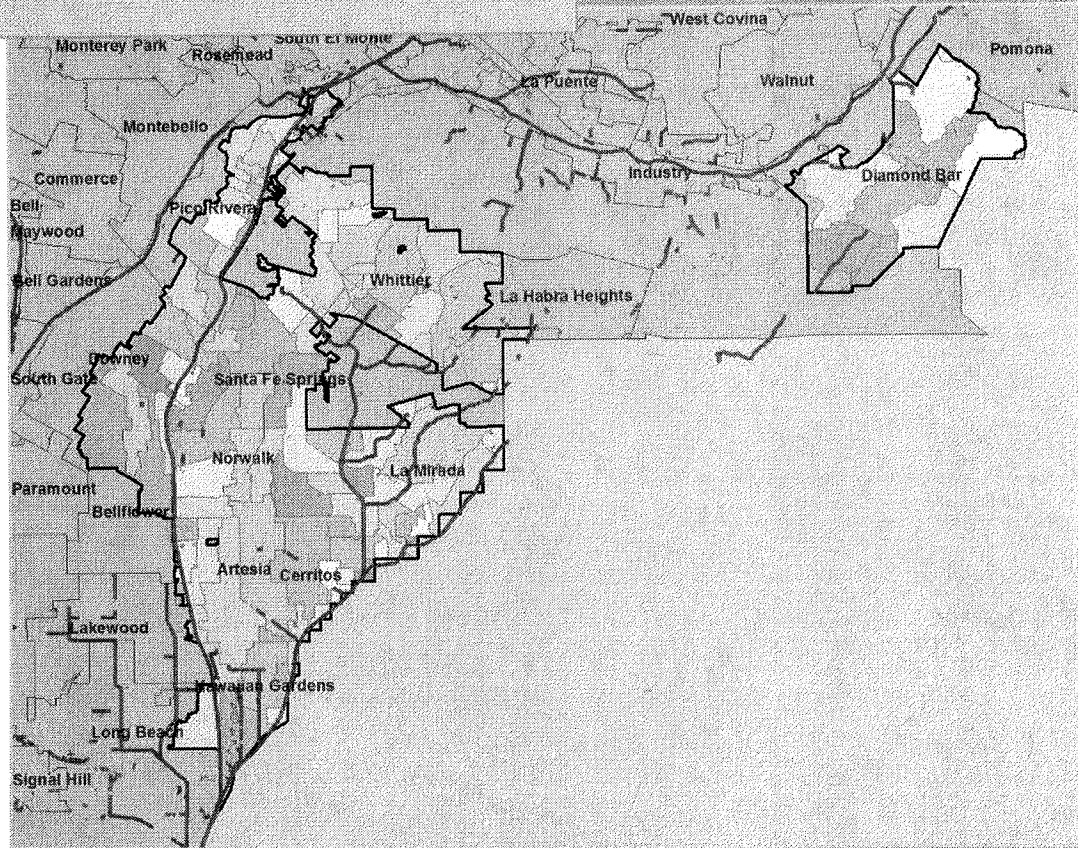
B.S., Zoology, California State University, Humboldt; 1974

ATTACHMENT A-2 TO EXHIBIT A
OTHER PROGRAM TASKS TO BE PERFORMED
FOR THE THIRD AMENDMENT

Attached hereto and incorporated herein is the additional scope of work and associated cost as provided by the Consultant for this Third Amendment.

April 27, 2018

Proposal to Provide CIMP Implementation and WMP/Watershed Management Assistance



Prepared By:

John L. Hunter and Associates
6131 Orangethorpe Ave., Ste. 300
Buena Park, CA 90620
Proposal contact: John Hunter
jhunter@jlha.net | (562) 802-7880 ext. 225

Prepared For:

Adriana Figueroa, Chair
Lower San Gabriel River Watershed
Management Group
City of Norwalk Administrative Dept.
12700 Norwalk Blvd
Norwalk, CA 90650



Table of Contents

I.	Qualifications and Experience.....	1
A.	Relevant Firm Experience	1
1.	Municipal NPDES Permit Compliance	1
B.	Track Record	3
C.	Staffing Capability and Current Work Load	3
D.	Relevant Staff Credentials.....	3
E.	Proposed Team	4
F.	References	5
II.	Scope of Work.....	6
A.	Watershed Management.....	6
1.	Watershed Management Group administration	6
2.	MS4 Permit negotiations	6
3.	Subcontracted watershed management support services.....	6
B.	Coordinated Integrated Monitoring Program Implementation and Reporting.....	7
1.	CIMP monitoring.....	7
2.	Fifth-term MS4 Permit Monitoring (if necessary).....	7
3.	Source investigations	7
4.	Annual Watershed Report and Semi-annual monitoring reports.....	7
5.	Biotic Ligand Model	7
C.	WMP/MS4 Permit Assistance	8
1.	Corridor Study.....	8
2.	Strategic Transportation Plan review and comments	8
3.	Adaptive Management	8
4.	MS4 Permit Assistance.....	8
5.	Workshops and Training	8
6.	Other WMP Assistance	8
III.	Fees	9
A.	Rate Schedule.....	9
B.	Estimated Not-to-Exceed Fee Proposal	10
	Appendix A: Resumes	A16

I. Qualifications and Experience

John L. Hunter and Associates, Inc. (JLHA) is an environmental consulting corporation established in 1985 that specializes in serving municipal clients. JLHA's mission is to provide its clients with the expertise necessary to comply with mandated environmental programs, such as NPDES, stormwater and watershed management, industrial waste and fats, oils and grease (FOG) control, water conservation, and recycling. Services provided under these programs include program management, engineering, inspections, monitoring, grant administration, and public education.

A. Relevant Firm Experience

Table 1 lists the municipal NPDES services currently or recently provided by JLHA to municipal clients. The following are summaries of JLHA's experience related to municipal NPDES Permit compliance.

1. Municipal NPDES Permit Compliance

JLHA has considerable experience in Municipal NPDES Permit compliance programs, beginning with the inception of the Phase I MS4 Permits in the 1990s. Currently JLHA implements elements of such programs for 45 cities in the Southland. Services include the following:

- 25 cities and 4 watershed groups: Program administration and/or technical support,
- 33 cities: Field services such as BMP compliance inspections,
- 23 cities: Plan review and approval (e.g., SUSMP/LID Plans, WQMPs, and SWPPPs),
- 32 cities and 3 watershed groups: Reporting (e.g., annual, TMDL, and/or watershed reports), and
- 32 cities and 3 watershed groups: Staff training.

Relevant and recent activities include:

- Representing cities in MS4 NPDES audits conducted by Regional Water Board staff,
- Obtaining and administering grants for stormwater capture and LID projects,
- Managing BMP inspection programs that cover in total approximately 10,000 sites,
- Developing watershed management programs under the area-wide LA MS4 NPDES Permit.

JLHA also served as the lead consultant for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River (LLAR), Lower San Gabriel River (LSGR), City of Long Beach, and Peninsula Cities Watershed Groups, and served as a sub-consultant for the development of the WMP for the Los Cerritos Channel (LCC) Watershed Group. As part of WMP development, JLHA also oversaw the development of Coordinated Integrated Monitoring Programs (CIMPs) for the LLAR, LSGR, and Peninsula Cities Watershed Groups. All plans were approved by the Regional Board in 2015 and 2016. Together the member agencies of these Watershed Groups represent 20 MS4 NPDES Permittees.

JLHA serves as the consultant team lead for the LLAR, LSGR, and Peninsula Cities Watershed Groups. Services include administering monitoring activities, watershed annual reporting, technical committee meetings, and select implementation efforts such as feasibility studies. In this capacity JLHA also regularly interfaces with city councils and Regional Board staff and members. JLHA also represents twelve municipal clients in watershed management groups for the Upper Los Angeles River, Upper San Gabriel River, Dominguez Channel and Los Cerritos Channel. In Orange County JLHA represents six municipal clients in watershed management group planning activities, covering the Coyote Creek/San Gabriel River, Anaheim Bay/Huntington Harbour, and the Santa Ana River watersheds.

Table 1: Summary of Municipal NPDES Services Recently or Currently Provided

Client	First year of service	Years of service	MS4 Permit Control Measures						Watershed				General Services			
			Development	Construction	Municipal Activities	Industrial/Commercial	Illicit Discharge Detection	Public Outreach	Watershed Plan Development	Watershed Plan Implementation	Monitoring	Studies	Reporting	Training	Grants	Program Mgmt. or Support
Arcadia	1995	23	--	x	x	x	x	x	--	--	--	x	x	x	--	--
Artesia	2014	4	--	x	x	x	x	x	--	x	--	--	x	x	--	x
Big Bear Lake	2004	14	--	--	--	x	x	--	--	--	--	--	x	--	--	--
Bellflower	2014	2	--	--	--	x	--	--	--	--	--	--	--	--	--	--
Cerritos	2015	3	--	x	--	--	--	--	--	--	--	--	--	--	--	--
Covina	2008	10	x	x	--	x	--	--	--	--	--	--	--	x	--	--
Diamond Bar	2007	11	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Downey	2011	7	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Fullerton	2017	1	--	--	--	--	--	--	--	--	--	--	x	x	--	x
Glendale	2013	5	--	--	x	--	--	--	--	--	--	x	x	x	--	x
Gateway Water Mgmt. Authority	2012	6	--	--	--	--	--	--	--	--	--	--	--	--	x	--
Hawaiian Gardens	2012	6	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Hawthorne	2000	18	--	x	x	x	x	x	--	--	--	--	x	x	--	x
Inglewood	2015	3	--	--	--	x	--	x	--	--	--	--	x	x	--	x
La Habra	2011	7	x	x	x	x	x	x	--	--	--	--	x	--	--	x
Lakewood	2014	4	--	--	--	x	--	--	--	--	--	--	--	--	--	--
Lomita	2015	3	--	x	x	x	x	x	--	x	--	--	x	x	--	x
Long Beach	2014	4	--	--	--	x	--	--	x	--	--	--	x	x	--	--
LCC Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	--	x	--	x
LLAR Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	x	--	x
LSGR Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	x	--	x
Lynwood	2014	4	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Manhattan Beach	2010	8	--	--	x	x	--	--	--	--	--	--	--	--	--	--
Monterey Park	2005	13	x	x	x	x	x	x	--	x	--	x	x	x	x	x
Norwalk	2010	8	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Paramount	2014	4	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Pasadena	2015	3	x	--	--	x	--	--	--	x	--	--	x	x	--	x
Peninsula Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	--	--	x
Placentia	2013	5	x	x	x	x	x	--	--	--	--	--	x	x	--	x
Rancho Palos Verdes	1994	24	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Rolling Hills	2009	9	--	--	--	--	--	--	--	--	--	x	x	--	--	--
Santa Fe Springs	2016	2	x	x	--	--	--	--	--	--	--	--	--	--	--	--
San Gabriel	2017	1	--	--	x	--	--	x	--	--	--	--	x	x	--	x
Seal Beach	2005	13	x	x	x	x	x	x	--	--	--	--	x	x	x	x
Signal Hill	1985	33	x	x	x	x	x	x	--	x	--	x	x	x	--	x
South El Monte	2017	1	x	--	x	x	x	x	--	x	--	x	x	x	--	x
South Gate	1991	27	x	x	x	x	x	x	--	x	--	x	x	x	x	x
South Pasadena	2005	13	--	x	x	x	--	x	--	x	--	x	x	x	--	x
Stanton	2007	11	x	x	x	x	x	x	--	--	--	--	x	x	x	x
Temple City	2003	15	x	x	x	x	x	x	--	x	--	x	x	x	--	x
Villa Park	2013	5	x	x	x	x	x	x	--	--	--	--	x	x	--	x
West Covina	2015	3	x	x	x	x	x	x	--	x	--	--	x	x	--	x
West Hollywood	1995	23	x	x	x	x	x	--	--	--	--	x	--	x	--	--
Whittier	2014	4	--	x	x	x	x	x	--	x	--	--	x	x	--	x
TOTALS out of 44 agencies			22	27	28	33	25	25	5	22	4	10	35	35	5	32

B. Track Record

JLHA has aided municipalities in compliance with NPDES MS4 Permit provisions since their first issuance in the 1990s. Since that time JLHA has maintained a track record of meeting project schedules and providing project deliverables on-time, on-budget, and to client's satisfaction. This may be verified by contacting JLHA's existing and past clients, including those listed in the References Section of this proposal. Another metric for JLHA's ability to meet project schedules is through its success in representing clients in Regional Water Board NPDES Program audits. These audits included detailed reviews of records for NPDES sub-programs managed and implemented by JLHA Project Teams. Of the many Regional Water Board NPDES Program audits that JLHA personnel participated in, none resulted in enforcement actions. JLHA's success in meeting project schedules is also evident in its existing clients' previous NPDES annual reports, which tabulate program deliverables such as inspections, plan checks, and TMDL reporting.

C. Staffing Capability and Current Work Load

JLHA staffing is at 25, consisting of 20 full-time staff and 5 part-time staff. This includes 1 principal, 2 directors, 5 project managers, 5 engineers, 7 field inspectors, 4 project analysts, and 3 administrative staff. All staff operate out of JLHA's office at 6131 Orangethorpe Ave, Suite 300, in Buena Park, California. JLHA subcontracts additional services as-needed such as water quality monitoring and laboratory analysis, outfall screening, construction management, and computational analysis. The Project Team listed in the following section will be available to provide any requested services throughout the term.

D. Relevant Staff Credentials

Staff credentials include certified professionals in engineering, stormwater quality, BMP (Best Management Practice) inspection, erosion control, SWPPP development and implementation, and environmental assessment. Table 2 lists specialized credentials that are held by JLHA staff. The experience, credentials and education of the key staff members are included in the Resumes Section of this proposal.

Table 2: Specialized Credentials held by JLHA Staff

Credential	Credential Description
CPSWQ	Certified Professional in Stormwater Quality
CESSWI	Certified Erosion, Sediment and Stormwater Inspector
QSD	Qualified SWPPP Developer (Construction)
QSP	Qualified SWPPP Practitioner (Construction)
QISP	Qualified Industrial Stormwater Practitioner
CGP ToR	Trainer of Record for the NPDES Construction General Permit
IGP ToR	Trainer of Record for the NPDES Industrial General Permit
ECI	Environmental Compliance Inspector

E. Proposed Team

Table 3 lists the roles of the Project Team. Qualifications of the Project Team are included under the Resume section.

Table 3. Project Team Roles

Project Title		Team Member Information	
Core Team	Principal-in-Charge	Name	John Hunter, PE
		Roles	Point-of-contact, project oversight
	Project Manager	Name	Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR
		Roles	Point-of-contact, project development
	Project Manager	Name	Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR
		Roles	Point-of-contact, project development
	Assistant Project Manager	Name	Michelle Staffield, MSE, CPSWQ, QSD/P
		Roles	Point-of-contact and watershed management project delivery
	Monitoring Lead	Name	Pat Kinney, PhD (subcontractor KLI)
		Roles	Point-of-contact and CIMP project delivery
Extended Team	Project Analyst	Name	Hugo Garcia, CESSWI, QSP
		Roles	Project development, watershed planning
	Field Operations Manager	Name	Jose Rodriguez, CESSWI, QSP, QISP
		Roles	Supervise outfall screening program and illicit discharge response
	Senior Engineer	Name	Michelle Kim, MSE, CPSWQ, QSD/P
		Roles	Project development, engineering
	Staff Engineer	Name	Rosalinda Tandoc, PE
		Roles	Project review, engineering
	Watershed Planning	Name	Richard Watson (Subcontractor RWE)
		Roles	As-needed watershed management planning

F. References

Table 4 is a list of JLHA clients that receive services similar to those listed in the Table 1. The table includes contact information and the relationship between key staff listed in this proposal and services provided to the referenced client. Additional references are available at the request of the City.

Table 4: References

Agency Name	Data Field	Reference Information	JLHA Project Manager
Downey	Name/Title	Mohammad Mostahkami, Director of Public Works	John Hunter
	Address	11111 Brookshire Ave, Downey, CA 90241	
	Phone/email	(562) 904-7102, mmostahkami@downeyca.org	
Long Beach	Contact/Title	Melissa You, Stormwater Compliance Officer	Jillian Brickey
	Address	333 W Ocean Blvd, Long Beach, CA 90802	
	Phone/email	(562) 570-5524, Melissa.You@longbeach.gov	
Seal Beach	Contact/Title	Steve Myrter, Public Works Director	Jillian Brickey
	Address	211 8th Street, Seal Beach, CA, 90740	
	Phone/email	(562) 431-2527, smyrter@sealbeachca.gov	
Signal Hill	Contact/Title	Grissel Chavez, Deputy Director of Public Works	John Hunter/ Michelle Staffield
	Address	2175 Cherry Avenue, Signal Hill, CA 90775	
	Phone/email	(562) 989-7251, gchavez@cityofsignalhill.org	
South Gate	Contact/Title	Arturo Cervantes, Public Works Director	Michelle Staffield
	Address	8650 California Ave, South Gate, CA 90280	
	Phone/email	(323) 563-9512, acervantes@sogate.org	
Stanton	Contact/Title	Allan Rigg, Director of Public Works	Cameron McCullough
	Address	7800 Katella Ave, Stanton, CA 90680	
	Phone/email	(714) 890-4204, arigg@ci.stanton.ca.us	
Temple City	Contact/Title	Andrew Coyne, Management Analyst	Cameron McCullough
	Address	9701 Las Tunas Dr, Temple City, CA 91780	
	Phone/email	(626) 285-2171 ext. 4344	

II. Scope of Work

JLHA welcomes the opportunity to provide professional watershed management and CIMP implementation services to the Lower San Gabriel River Watershed Management Group (WMG). This section details the work plan for completing the scope of work requested by the Group. The timeframe of this proposal is for a period of two years from July 1, 2018, to June 30, 2020. The services may be extended for additional three years upon written agreement by the WMG and JLHA. The estimated costs are included in Tables 5 to 9.

A. Watershed Management

This section describes tasks related to watershed management activities outside of CIMP implementation and WMP assistance, which are addressed in the subsequent sections of this Scope of Work.

1. Watershed Management Group administration

JLHA will facilitate regular meetings and communication between WMG members, Regional and State Water Boards, and other watershed groups and stakeholders, which are critical to the tasks outlined in this scope of work. This task will include holding bimonthly meetings of the watershed group's technical committee, as well as scheduling, coordination, and preparing agenda and meeting minutes. Also included in this task is the development of MOA/MOU cost-shares for WMP and CIMP implementation activities.

2. MS4 Permit negotiations

The LSGR ROWD was submitted in June 2017, and the current MS4 Permit expires December 28, 2017. Within the term of the scope of work, the Regional Board may provide comments on the ROWD that warrant a response from the watershed group. In addition, the WMG may wish to provide comments and/or negotiate with Regional Board staff on the next draft MS4 Permit, which could be released within the term of the scope of work. A budgetary allotment is included for these services.

3. Subcontracted watershed management support services

Additional support for the tasks listed in this section will be conducted by subcontractor Richard Watson & Associates, Inc. (RWA). RWA's relevant company information is included in the Resumes section of this proposal and their estimated cost is incorporated into the Cost Proposal. The WMG will be asked to approve any other subcontractors selected by JLHA prior to start of work.

B. Coordinated Integrated Monitoring Program Implementation and Reporting
The Coordinated Integrated Monitoring Program (CIMP) was approved by the Regional Board during the summer of 2015. The watershed is required to continue implementing the CIMP.

1. CIMP monitoring

CIMP monitoring will be conducted by subcontractor Kinnetic Laboratories, Inc. (KLI). KLI's relevant company information is included in the Resumes section of this proposal and their estimated cost to provide monitoring services is included in the Cost Proposal. Activities under this task include:

- Site evaluation (if necessary)
- Equipment procurement, station installation, and permitting at or near GR1
- Dry and wet weather sampling following LSGR CIMP protocol.
- Analysis and reporting, including the Watershed Annual Report
- Meetings with Regional Board or other applicable agencies and stakeholders
- Preparation of extension agreement for monitoring laboratory

2. Fifth-term MS4 Permit Monitoring (if necessary)

The fifth-term MS4 Permit may be adopted within the timeframe of this proposal. A budgetary allotment is included to account for additional monitoring that may be required beyond the current CIMP.

3. Source investigations

The first round of source investigations was completed in 2017. Additional outfall screening and source investigations may be required within the timeframe of the scope of work. A budgetary allotment is included for this service. Source investigations may be provided by JLHA or subcontractor. The WMG will be asked to approve the selected subcontractor prior to start of work.

4. Annual Watershed Report and Semi-annual monitoring reports

KLI will prepare and submit the semi-annual CIMP monitoring results required by the MS4 Permit Monitoring and Reporting Program. JLHA and KLI will prepare the Annual Watershed Report. This will include collecting and assembling data from participating agencies using the WRAMPS reporting system.

The Watershed Annual Report will include a first draft at least one month prior to final submittal to the Regional Board. The scope of work deadlines are dependent upon timely responses (less than one month) from individual entities. Although JLHA will endeavor to prepare an Annual Report that complies with the requirements of the Regional Water Quality Control Board, the Board's assessment of the Report in terms of MS4 NPDES Permit compliance depends on the information provided by the individual WMG members.

5. Biotic Ligand Model

A budgetary allotment is included to collect data to conduct a Biotic Ligand Model (BLM). The BLM provides a more accurate assessment of copper toxicity.

C. WMP/MS4 Permit Assistance

WMP/MS4 Permit assistance tasks are included in this section of the scope of work.

1. Corridor Study

This task is to support ongoing projects along the San Gabriel River as identified in the Corridor Study. This will include the preparation of concept design reports for three (3) high tier potential projects investigated through the Corridor Study. (Two in 2018-2019 and one in 2019-2020.) The design work will require subcontractor assistance. The WMG will be asked to approve any other subcontractors selected by JLHA prior to start of work.

2. Strategic Transportation Plan review and comments

JLHA will review the current Gateway Strategic Transportation Plan (STP) and its state of implementation for green street incorporation. JLHA will provide a report of the review to the WMG for potential inclusion in the Watershed Annual Report and provide recommended changes to the stormwater component of the STP if necessary. JLHA will also integrate potential water quality projects listed in the STP into the WMG's inventory of potential WMP projects.

3. Adaptive Management

JLHA will initiate the 2019 WMP Adaptive Management process as outlined in the MS4 Permit. JLHA will also provide changes to the WMP for consideration by the WMG and eventual approval by the Regional Board

4. MS4 Permit Assistance

Should the next MS4 Permit be approved within the time frame of the proposed work, JLHA is available to review, evaluate, and provide technical summaries on the approved Permit.

5. Workshops and Training

JLHA is available to provide MS4 NPDES training on relevant topics agreed upon by the WMG, such as LID, green streets, construction BMPs, source investigations, and annual reporting.

6. Other WMP Assistance

This scope of work includes CIMP implementation and activities and WMG administration, with WMP implementation the responsibility of the individual group members. However the watershed group may request assistance with some watershed-wide activities not already listed in this scope of work. A budgetary allotment is included for these additional support services. It is expected that as implementation progresses, tasks may be changed, shifted or additional tasks may be required. Tasks will be initiated as directed by the WMG. This may include assisting in the continued development of a prioritized watershed-wide inventory of potential WMP projects. The WMG will be asked to approve any other subcontractors selected by JLHA to provide WMP assistance prior to start of work.

III. Fees

A. Rate Schedule

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Environmental Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Environmental Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

*JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

B. Estimated Not-to-Exceed Fee Proposal

The not-to-exceed cost for this project is included in the following table. A detailed breakdown of this cost is included on the following page.

Table 5: Estimated Costs from July 1, 2018, to June 30, 2019

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$444,021
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$394,927	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		--	--	--	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	7	\$1,295	
	APM/PE	\$145	27	\$3,915	
	CS2/PA2	\$115	54	\$6,210	
	CS1/PA1	\$95	36	\$3,420	
SOW II.B.5 Biotic Ligand†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$254,565
SOW II.C.1 Corridor study: Two (2) concept design reports; Two (2) feasibility study reports†		LSE	LSE	\$182,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
		LSE		\$20,000	
Total Not to Exceed					\$823,666

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 6: Estimated Costs from July 1, 2019, to June 30, 2020

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$464,021
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$394,927	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	7	\$1,295	
	APM/PE	\$145	27	\$3,915	
	CS2/PA2	\$115	54	\$6,210	
	CS1/PA1	\$95	36	\$3,420	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$217,105
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	10	\$1,850	
	APM/PE	\$145	45	\$6,525	
	CS2/PA2	\$115	90	\$10,350	
	CS1/PA1	\$95	60	\$5,700	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
		LSE		\$20,000	
Total Not to Exceed					\$806,206

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 7: Estimated Costs from July 1, 2020, to June 30, 2021 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$113,820
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$150	270	\$40,500	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	---	---	---	---	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**	LSE	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$476,489
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$406,775	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	7	\$1,330	
	APM/PE	\$150	27	\$4,050	
	CS2/PA2	\$120	54	\$6,480	
	CS1/PA1	\$100	36	\$3,600	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$219,370
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$809,679

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 8: Estimated Costs from July 1, 2021, to June 30, 2022 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$113,820
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$150	270	\$40,500	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	--	--	--	--	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$488,694
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$418,980	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	7	\$1,330	
	APM/PE	\$150	27	\$4,050	
	CS2/PA2	\$120	54	\$6,480	
	CS1/PA1	\$100	36	\$3,600	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$219,370
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$821,884

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 9 Estimated Costs from July 1, 2022, to June 30, 2023 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$130,390
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$150	270	\$40,500	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	PRI	\$190	14	\$2,660	
	APM/PE	\$150	39	\$6,630	
	CS2/PA2	\$120	39	\$4,680	
	CS1/PA1	\$100	26	\$2,600	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$501,264
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$431,550	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	7	\$1,330	
	APM/PE	\$150	27	\$4,050	
	CS2/PA2	\$120	54	\$6,480	
	CS1/PA1	\$100	36	\$3,600	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$219,370
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
		LSE		\$20,000	
Total Not to Exceed					\$851,024

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Appendix A: Resumes

The following section includes the resumes and certifications of key personnel.

John L. Hunter, PE

Principal

Education

B.S. Chemical Engineering, CSULB
B.S. Biological Sciences, UCI

Certifications and Licenses

CA Professional Chemical Engineer, 4724
CA Registered Environmental Assessor, 0900
CA Hazardous Substance Removal, A3382
CA General Engineering License, A-582340

Mr. Hunter serves as the Principal of JLHA. He has over 30 years of experience in municipal environmental programs and currently oversees: (1) elements of over 40 separate NPDES programs encompassing three counties that covers programs such as: watershed and stormwater management, TMDL implementation, plan reviews, industrial and construction inspections, public agency activities, public outreach, and monitoring/reporting; (2) eleven municipal FOG programs encompassing permitting, inspections and enforcement; (3) seven

municipal Used Oil Recycling programs; (4) three municipal Beverage Container Recycling programs; and (5) two water conservation programs. As of May 2016 Mr. Hunter serves as the chair for the LA Permit Group, which provides area-wide MS4 Permit updates to all affected parties under the LA Region MS4 Permit.

Related Experience

Watershed Management

Lead consultant for the Lower Los Angeles River Watershed Group, the Lower San Gabriel River Watershed Group, the Peninsula Cities Watershed Group, and the Long Beach Near-shore watersheds. Oversaw preparation and oversees continued development of the Watershed Management Programs for these groups. Also participates in the Upper Los Angeles River Watershed Group, the Dominguez Channel Watershed Group, and the Los Cerritos Channel Watershed Group.

Total Maximum Daily Loads

Los Angeles River Metals TMDL: Developed the Reach 1 Metals TMDL Implementation Plan on behalf of nine local agencies. The Plan was used as a source document for the Compliance Schedule in the Lower LA River WMP.

Los Angeles River Trash TMDL: Administered Trash DGR studies and associated compliance reports for multiple cities since 2004. Negotiated client interests with Regional Board staff. Obtained grant funding for and prepared the Hamilton Bowl BMP Study. The study evaluated different end-of-pipe trash capture systems for the Cities of Signal Hill and Long Beach.

MS4 Permit Minimum Control Measures (MCMs)

Oversees MCM elements of MS4 Permits for 37 cities. MCM programs include business and construction site inspections, LID Plan and SWPPP reviews, BMP implementation for public agency activities, illicit discharge investigations, and public outreach.

Representation and advocacy

Represents client interests in meetings with Regional Board staff/members regarding (E)WMPs, TMDLs, and other Permit mandates. Has chaired the Los Angeles River Watershed Management Committee, Santa Monica Bay Bacterial TMDL J7 Subcommittee, and the LA Permit Group. Currently serves as technical lead for the Lower San Gabriel, Lower Los Angeles, and Peninsula Cities Watershed Management Groups.

Education

M.S., Applied Mathematics, CSULB
B.S., Physics, CSULB

Certifications

CPSWQ, Envirocert (#0842)
QSD/QSP, CASQA (#22706)
IGP Trainer of Record, CASQA (#079)

Affiliations

Phi Beta Kappa Society
Society for Industrial & Applied Math

Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR*Director*

Cameron McCullough has fourteen years of experience in the environmental compliance field, specializing in surface water quality regulation. His experiences include managing the development and implementation of municipal NPDES, TMDL, and FOG Control programs, assisting and training municipal staff in their in-house NPDES programs, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Mr. McCullough serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. Permits managed include the NPDES stormwater permits—MS4, IGP, CGP—as well as non-stormwater permits and related orders such as those for drinking water system releases and sanitary sewer overflows. Permit programs address (1) stormwater quality for construction, industrial, and municipal activities and post-construction BMPs for development activities, (2) non-stormwater discharges to and from the MS4, (3) TMDLs for water bodies impaired by trash, metals, toxics, and bacteria, and (4) surface water quality monitoring. Through his program management activities, he has developed qualifications that meet those required to serve as the Project Manager for this project. Specific examples of these qualifications include:

- Serving as a Project Manager for contracted MS4 NPDES Program assistance for local cities. (Lomita, Glendale, Hawthorne, Monterey Park, Placentia, Stanton, Temple City, Villa Park, West Covina, and West Hollywood.) Responsibilities include serving as project point-of-contact, overseeing the Project Team, ensuring successful completion of the project, and representing the client in interactions with regulators and watershed groups.
 - Through these projects Mr. McCullough has served as Project Lead to all subordinate members of the team for this project. As such the team has developed a track record of working together effectively.
- Representing cities in MS4 NPDES Permit compliance audits from the Regional Water Quality Control Board. (Seal Beach 2006, 2010, Stanton 2010, 2014, Big Bear Lake 2007.)
- Developing 1) watershed-based compliance plans for wet and dry weather TMDLs for Metals, Toxics, Bacteria, and Trash (Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watersheds: 2013-2016), 2) municipal Stormwater Quality Management Programs (Stanton 2011, Villa Park 2015) and 3) SWPPPs (Downey, Norwalk, Lynwood, Pico Rivera, West Covina: 2011-2016).
- Leading hundreds of municipal training sessions in MS4, IGP, CGP, and Drinking Water System NPDES Permits, as well as SSO spill response and FOG control. (26 municipal clients from 2004-2016, covering 3 State Water Board Regions and 5 Phase I MS4 Permits.)

Watershed Management: Mr. McCullough served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included identifying water quality priorities, evaluating existing control measures, developing new control measures and compliance schedules, and providing quantitative reasonable assurance to attain water quality standards. He has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach.

Through representation of municipal clients' stakeholder interests, Mr. McCullough has also participated in the development of watershed management programs and monitoring programs for the Los Cerritos Channel, Dominguez Channel, Upper Los Angeles River, and Upper San Gabriel River (2013-present).

Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR*Director***11 Years of Experience in Water Quality****Education**

M.S., Environmental Science, CSUF

B.S., Zoology, Cal State Poly Pomona

Certifications

CPSWQ, Envirocert (#0845)

QSD/QSP, CASQA (#22731)

CGP Trainer of Record, CASQA

Jillian Brickey has twelve years of experience in environmental management, specializing in stormwater and watershed management and water conservation. Her relevant experiences include implementing and managing NPDES municipal Permit programs for Low Impact Development, Development Construction, and TMDL/watershed management. Tasks include plan review and approval, reporting, training municipal staff in program implementation, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Ms. Brickey serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. NPDES Permits managed include all elements of the MS4 and CGP Permits, including erosion/sediment control and Low Impact Development (LID) for construction projects, and TMDL implementation for water bodies impaired by trash, metals, toxics, and bacteria. Through these management activities, she has:

- Represented cities in MS4 NPDES Permit New Development compliance audits from the Regional Water Quality Control Board. (Seal Beach: 2010, 2015, Stanton: 2010).
- Developed TMDL compliance plans for Metals, Toxics, Bacteria, and Trash. (Lower Los Angeles River, Lower San Gabriel River, Long Beach Nearshore Watersheds: 2013-2016.)
- Served as primary contact with clients and represented their interests when interacting with regulators. (Covina, La Habra, Seal Beach, South Pasadena, Stanton, Pasadena, West Hollywood).
- Developed Stormwater Quality Management Programs (Seal Beach: 2011), LID compliance guideline documents (Gateway cities, 2014), and LID ordinances (2014).
- Held CGP QSD/QSP training as a CGP ToR (Pasadena, 2016) and led over one hundred municipal training sessions in MS4 and CGP Permits. (Over 20 municipal clients: 2008-2016).
- Reviewed on behalf of municipal clients hundreds of LID Plans, WQMPs, and SWPPPs and verified proper installation and maintenance of hundreds of LID BMPs.
- Supervised JLHA plan checking staff.

Watershed Management: Ms. Brickey served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River and Lower San Gabriel River Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included evaluating existing control measures and developing new control measures and compliance schedules to achieve water quality standards. She also oversaw the development and implementation of LID ordinances as required by the WMP development process. This included preparing a LID Ordinance Equivalency Demonstration for the City of Long Beach.

She has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach. Through representation of municipal clients' stakeholder interests, Ms. Brickey has also participated in the development of watershed management programs and monitoring programs for the Upper Los Angeles River, Upper San Gabriel River, and Peninsula Cities Watershed Groups (2013-present).

Michelle Stafffield, MSE, EIT, CPSWQ
Water Resources Engineer

11 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount
B.S., Ecology, Behavior, & Evolution, UCSD

Certifications

EIT #141553, NCEES
CPSWQ, Envirocert (#1136)

Michelle Stafffield has managed a variety of water quality improvement programs throughout Southern California. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, TMDL compliance, public information and participation, and representing clients at meetings. She is also involved in the development and review of Water Quality Management Plans (WQMPs),

Standard Urban Stormwater Mitigation Plans (SUSMPs), and Watershed Management Programs.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including the preparation of Trash TMDL studies and compliance reports.
- Assisting in MS4 Permit Project Management for the Cities of South Gate and Signal Hill. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Lower Los Angeles River and Lower San Gabriel River Watershed Management Groups.) Tasks include administering meetings, managing subcontractors, and preparing the watershed Annual Report.

Michelle Kim, MSE, EIT, CPSWQ, QSD
Water Resources Engineer

12 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount

B.S., Environmental Science, UC Berkeley

B.A., Public Health, UC Berkeley

Certifications

EIT #141554, NCEES

CPSWQ, Envirocert (#1134)

QSD, CASQA (#26504)

Grade 3 Laboratory Analyst #130133001, CWEA

Michelle Kim has twelve years of experience in the water quality industry, which includes potable water, wastewater, and storm water. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, and TMDL compliance. She is involved in the development and review of Water Quality Management Plans (WQMPs), Low Impact Development (LID) Plans, and Standard Urban Stormwater Mitigation Plans (SUSMPs). Michelle's past experience includes work with the Orange

County Sanitation District involving treatment processes, laboratory analyses, and monitoring of wastewater and source control.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, and South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including review of Bacteria TMDL monitoring data for Jurisdiction 7 of the Santa Monica Bay, reconsideration of the Machado Lake nutrients TMDL, and preparation of the final compliance report for the Machado Lake Trash TMDL.
- Assisting in MS4 Permit Project Management for the Cities of Hawthorne, Lomita, and Rancho Palos Verdes. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Palos Verdes Peninsula Watershed Management Group.) Tasks include administering meetings, managing subcontractors, and preparing the watershed Annual Report.

Jose Rodriguez, CESSWI, QSP
Field Operations Manager

Education

B.S., Biology, UCI

Certifications and Training

CESSWI, Envirocert (#2830)

QSP, CASQA (#22917)

40 Hour HAZWOPER

Basic Inspector Academy, Cal EPA

Spanish fluency

Jose Rodriguez has worked with John L. Hunter & Associates in the environmental compliance fields of NPDES, FOG and Industrial Waste Control for eleven years. His relevant experiences and tasks include implementing NPDES municipal permit provisions such as industrial/commercial inspections, illicit discharge detection and elimination, construction inspections, public education, public agency inspections, TMDL compliance, municipal staff training and completing annual reports. He has experience in conducting outfall screening and monitoring for non-storm water discharges in both the Lower Los Angeles River and the Lower San Gabriel River. In total, Mr. Rodriguez has conducted several thousand inspections for

agencies such as Stanton, Seal Beach, South Gate, Hawthorne, South El Monte, Arcadia and the Orange County Sanitation District.

Related ExperienceInspection Services

Mr. Rodriguez supervises field activities at JLHA, including inspection work to verify compliance with state and local environmental regulations. This includes MS4 NPDES Permit compliance inspections at commercial facilities such as restaurants and nurseries, NPDES-permitted industrial and construction sites, municipal facilities, and new developments. (New developments are inspected to verify proper post-construction BMP installation and maintenance verification.) He also oversees Industrial Waste and Fats, Oils, and Grease (FOG) Control BMP/pretreatment device inspections, as well as Clean Bay Restaurant (CBR) inspections. The CBR program incorporates elements of NPDES, FOG, and waste management.

In addition to supervising field staff, Mr. Rodriguez has conducted thousands of inspections through his tenure with JLHA. Clients include South Gate, Signal Hill, Downey, Paramount, and Manhattan Beach. In 2014 he represented the City of Stanton in a State compliance audit of the City's Industrial/commercial facility inspection program. The State auditors did not find program deficiencies.

Monitoring Services

Mr. Rodriguez supervises source investigations for outfalls with dry weather flows in both Orange and LA Counties. (OC Clients: Stanton, Seal Beach, Placentia, La Habra, Villa Park.) Within LA County, this work included the initial source identification work for the Lower San Gabriel River, Lower Los Angeles River, and Peninsula Cities Watershed Groups. Together these Groups represent twenty cities. He has also conducted stormwater sampling following the requirements of the Industrial General Permit (South Gate) and supervised trash generation monitoring studies as required by the LA River Trash TMDL. (Monterey Park, Glendale, South Pasadena, Temple City.)

Planning and Reporting

Mr. Rodriguez prepares NPDES annual reports for Industrial General Permit (IGP) facilities (West Covina, South Gate, Norwalk) as well as MS4 Permittees throughout Orange and LA County. As part of the MS4 Annual Report, he has prepared outfall screening reports. He has also developed Industrial SWPPPs for the Cities of Norwalk and South Gate.

Hugo Garcia, CESSWI, QSP
Environmental Compliance Specialist II

Education

B.S., Environmental Science, UCR

Certifications and Training

CESSWI, Envirocert (#4769)

QSP, CASQA (#26091)

Professional Certificate in GIS

24 Hour HAZWOPER

Basic Inspector Academy, Cal EPA

Spanish fluency

Hugo Garcia has six years of experience with John L. Hunter & Associates, specializing in NPDES and Industrial Waste/FOG Control regulations. His experiences include MS4 compliance of the Public Information and Participation, Industrial/Commercial, Construction, Public Agency, Illicit Connections and Illicit Discharge Elimination Programs. In addition, he provides assistance with TMDL implementation and serves as the GIS Specialist providing spatial analysis to clients in the Los Angeles and Orange counties.

Recent Experience and Project Qualifications

Mr. Garcia currently serves as an Environmental Compliance Specialist II whose responsibilities include field compliance inspections for local cities (Inglewood, La Habra, Pasadena, South Gate, and Whittier), and assisting in the implementation of Watershed Management Programs. Specific examples of these and past qualifications include:

- Conducting over 1,000 Industrial, Commercial (i.e. auto, restaurant, nursery), and Construction NPDES compliance inspections
- Assisting with the implementation of the Trash TMDL DGR Study and reporting through the LA River Watershed
- Assisting with the development of a Stormwater Pollution Prevention Plan (SWPPP) for both Signal Hill and West Covina facilities, as required by the State's Industrial General Permit (IGP).
- Developing and maintaining GIS data for Los Angeles and San Gabriel watersheds and clients of 1) MS4 Outfalls with and without Non-Stormwater Discharges, 2) retrofitted catch basin storm drain systems, and 3) potential sites for multi-agency, multi-watershed low impact development (LID) regional projects
- Reviewing plumbing plans for new and existing Industrial Waste/FOG sites in Arcadia, Signal Hill, South El Monte, South Gate, and Stanton

Rosalinda Tandoc, PE
Staff Civil Engineer

Overview

Ms. Tandoc has over 30 years of experience reviewing and approving structural and architectural plans. Her specialty lies in reviewing and approving such plans for compliance with Permits (including MS4), City ordinances (including LID and Green Streets/Fats, Oils, and Grease/Industrial Waste/Erosion Control), Building Codes, and other State Laws. At JLHA, she has been instrumental in expediting plan review and approval for issuance of permits, interacting with clients to troubleshoot project development problems, and expediently facilitating completion of client projects. She has done this for all of JLHA's past and current clients, which now includes 23 cities.

Education

Master of Science in Civil Engineering
California State University, Long Beach

Certifications and Licenses

CA Registered Civil Engineer

Related Experience**With JLHA
(Starting 2006)**

- Reviews structural and architectural plans and residential and large and complicated buildings for compliance with the MS4 Permit, City Ordinances and State Law.
- Interacts with developers to facilitate completion of their projects
- Worked with the Principal in investigating problems presented to them.
- Code Consultant

Prior Experience:

- Los Angeles County Department of Public Works Building and Safety Division (1979 – 2006)
- Coordinated with local agencies in expediting the issuance of permits
- Assisted Permit Technician in solving problems that he or she may have incurred in the processing of permits and other related problems that need to be resolved at the counter.
- Assisted the City in developing ways and methods of expediting the processing of plans for issuance of permits.
- Assisted the City in developing plans and methods for effective office organization in the City Building Department in working with the City Planning Department.

Personal Advancement Courses

Engineering Management
Communication
Diversity Training
Business and English Writings
Supervisory Management

Achievements/Volunteer Works

Outstanding Woman of 1998, City of Cerritos
Greater Long Beach Girl Scout Council
Cerritos Senior Center, City of Cerritos
St. Linus Parish, Norwalk, CA
Cathedral of Our Lady of the Angels, Los Angeles

RICHARD WATSON & ASSOCIATES, INC.

Richard Watson & Associates, Inc. (RWA) was formed in July 1993 as an urban and regional planning firm with specialties in development services, stormwater quality, and strategic planning. RWA works independently and in collaboration with other firms and consulting associates to provide planning and problem-solving services for public and private sector clients. RWA excels in assembling experts from complementary disciplines to form unparalleled project teams. The firm has extensive experience with Southern California development and stormwater quality issues, including MS4 permits and Total Maximum Daily Loads (TMDLs.)

In recent years, RWA has emphasized stormwater quality services, especially for public sector clients. From 1997 to 2008, RWA was a member of the RBF Consulting on-call consulting team to Caltrans. In this capacity, the firm assisted in siting pilot retrofit best management practices (BMPs) at 33 locations in Caltrans District 7 (Los Angeles County) and District 11 (San Diego County) to determine the cost-effectiveness and water quality benefits of structural BMPs when retrofitted into existing facilities.

Richard Watson & Associates is incorporated in California as an S-corporation. FEIN: 33-0893230.

Its principal office is located at:

21922 Viso Lane
Mission Viejo, California 92691-1318

RWA includes four staff. In addition to Mission Viejo, RWA has employees operating out of Rancho Santa Margarita, California and Santa Monica, California who may be working on this project. The key staff member responsible for work on this contract and the primary contact for this contract will be:

Richard Watson
21922 Viso Lane
Mission Viejo, CA 92691-1318
Phone: 949-855-6272

Richard Watson & Associates is uniquely qualified to provide the services described in the RFP for this project because of its broad range of stormwater quality experience dating back to September 1990. Richard Watson has been an active participant in the California Stormwater Quality Association and its predecessor organization, the Stormwater Quality Task Force, since January 1991. He has been actively involved addressing stormwater quality issues in Los Angeles County since 2001 and testified extensively on many of the TMDLs that impact the City of Long Beach and on the development and adoption of the 2012 Los Angeles Area MS4 Permit upon which the 2014 Long Beach Permit was based. In Addition, RWA has worked closely John L. Hunter & Associates as well as with the City of Long Beach and other municipalities in the preparation of the three Watershed Management Programs (WMPs) that cover portions of the City of Long Beach. Familiarity with these WMPs will make it easier to prepare a Master Watershed Management Program that is similar in structure to the existing WMPs in order to reduce costs and maintain a consistent format.

Below are references from similar projects performed by RWA, including services consistent with the project described in the RFP. Following these references is the resume for Richard Watson.

LOS CERRITOS CHANNEL WMP: Richard Watson & Associates has served as the lead consultant for preparation of the Los Cerritos Channel Watershed Management Program since October 2013. RWA developed the WMP plan with the assistance Eckersall LLC, John L. Hunter & Associates, Inc., and Kinnetic Laboratories Incorporated. RWA also coordinated development of a Coordinated Integrated Monitoring Program by Kinnetic Laboratories, Inc. and development of a Reasonable Assurance Analysis by Tetra Tech, Inc. and Paradigm Environmental, Inc.

Anthony G. Arevalo, Stormwater/Environmental Compliance Officer
City of Long Beach
333 W. Ocean Blvd.
Long Beach, CA 90802
Phone: 562-570-6023
Anthony.Arevalo@longbeach.gov

LOWER LOS ANGELES RIVER WMP: Since November 2012, RWA has been part of the John L Hunter & Associates team that was assembled to prepare a Watershed Management Program for the Lower Los Angeles River. RWA assisted with source control and other implementation strategies.

John Hunter
John L. Hunter & Associates, Inc.
6131 Orangethorpe Avenue, Suite 350
Buena Park, CA 90620
Phone: 562-802-7880 ext. 225
jhunter@jlha.net

LOWER SAN GABRIEL RIVER WMP: Since July 2012, RWA has been part of the John L Hunter & Associates team that was assembled initially to assist the Coyote Creek and San Gabriel River Reach 1 Technical Committee in compliance with the requirements of the San Gabriel River Metals TMDLs. With the adoption of the new Los Angeles Area MS4 Permit, the team was directed to prepare a Watershed Management Program for the Lower San Gabriel River and Coyote Creek. RWA developed and negotiated the Implementation Schedule that was included in a Basin Plan Amendment to establish an overall Implementation Plan and Implementation Schedule for the EPA-established Metals TMDLs. RWA also assisted with source control and other implementation strategies.

John Hunter, President
John L. Hunter & Associates, Inc.

6131 Orangethorpe Avenue, Suite 350
Buena Park, CA 90620
Phone: 562-802-7880 ext. 225
jhunter@jlha.net

LOS ANGELES RIVER JURISDICTIONAL GROUP 1 METALS TMDL IMPLEMENTATION PLAN: From November 2009 through October 2012, RWA was part of the John L. Hunter & Associates team for the development and implementation of the Los Angeles River Jurisdictional Group 1 Metals TMDL Implementation Plan. RWA was responsible for the source control and implementation schedule portions of the implementation plan and provided editorial services.

John Hunter, President
John L. Hunter & Associates, Inc.
6131 Orangethorpe Avenue, Suite 350
Buena Park, CA 90620
Phone: 562-802-7880 ext. 25
jhunter@jlha.net

COALITION FOR PRACTICAL REGULATION: From 2001 to 2012, RWA served as Stormwater Quality Consultant to the Coalition for Practical Regulation (CPR), an ad-hoc group of approximately 40 small and medium-sized cities in Los Angeles County that came together to address stormwater quality issues. This project is relevant to development of a Master Watershed Management Program because RWA provided a broad range of analytical and advocacy services to CPR. Much of the work for CPR involved TMDLs, Basin Plan Amendments, the Triennial Review process, the State Water Board's Blue Ribbon Panel process, and re-issuance of area-wide municipal stormwater permits. RWA provided extensive analysis and evaluation of regulatory documents and preparation of formal written comments to the Los Angeles Regional Water Quality Control Board and the State Water Resources Control Board. CPR assignments also included negotiations with Water Board staffs and testimony before both the Regional Water Board and the State Water Board. RWA also evaluated BMPs for TMDL implementation, prepared reports, coordinated with member cities and their consultants, and coordinated with the City of Los Angeles and the County of Los Angeles.

Ken Farfsing, City Manager
City of Signal Hill
2175 Cherry Avenue
Signal Hill, CA 90775
Phone: 562-989-7302
kfarsing@signalhill.org

KINNETIC LABORATORIES, INC.

FIRM QUALIFICATIONS

Kinnetic Laboratories, Inc. is a small SBE, VSBE firm with 45 years of experience that specializes in field investigations in support of both water and sediment quality studies. Their core mission is to provide scientific, quantitative environmental data and evaluations focused on key issues for design, permitting, monitoring, and compliance. Kinnetic Laboratories has a local office and research vessels home ported in Long Beach, vibracores and other sediment sampling equipment, and extensive water quality instrumentation, including specialized stormwater stations capable of obtaining contaminant load determinations. They have worked extensively for many years with major local clients, including the City of Long Beach and the Port of Los Angeles. They have an extensive track record of water quality, stormwater, and sediment quality projects, including major sediment dredge studies for the Port of Los Angeles.

Water Quality and Storm Water. Kinnetic Laboratories has 25 years of stormwater and watershed experience, starting with the Santa Clara Valley program that won an USEPA Award of Excellence and later comprising over 20 such studies. A descriptive list of selected stormwater projects is provided in the Appendix. They have been the City of Long Beach's contractor for 15 years for the NPDES Stormwater Permit Monitoring Program, including extensive TMDL support. Their contaminant load data of both total and dissolved metals, backed by accompanying toxicity data allowed them to request that Waste Load Allocations (WLA's) be increased for copper, for lead, and for zinc. They have also performed special bacterial source studies for the City's beaches, and have also prepared seasonal and annual bacterial reports on the City's beach performance.

Kinnetic Laboratories are currently carrying out storm water monitoring and BMP research support for five large urban watersheds draining into San Pedro Bay. Recently, they have developed methodology to measure contaminant loads to San Pedro Bay of key organic pollutants to address the Harbor Toxics TMDL. Their work with the City of Long Beach BMP efforts has resulted in the recreational beaches reaching up to 98% compliance with respect to bacterial contamination. At Cabrillo Beach they researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their vindicated hydrodynamics, field source studies, and molecular characterizations showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have a significant human contribution.

For the City of Long Beach, Kinnetic Laboratories have monitored storm water pump stations as part of the MS4 NPDES monitoring program. They also have monitored dry weather flow diversions from the Belmont and Appian Way storm water pump stations and prepared required reports for the County Sanitation District. Assistance with BMP designs has also included measuring flows in the stormwater system for design of low-flow, first flush diversions for four local watershed Water Management Plans.

Other representative stormwater, TMDL, and watershed projects are listed below which include extensive source study investigations, BMP evaluations, and mitigation measures. Recent studies carried out by Kinnetic Laboratories include preparing Comprehensive Integrated Monitoring Programs (CIMPs) for the Lower San Gabriel, Los Cerritos, and Lower Los Angeles River watersheds. A Proposition 84 funded study is underway for methods and monitoring of dry weather low-flow and water quality in Los Cerritos, Wardlow, Clark, Del Amo, and Palo Verde Channels. Work is also underway on Cerritos Creek TMDL studies.

KINNETIC LABORATORIES, INC.

SELECTED PAST PROJECTS, WATER QUALITY & STORMWATER

Watershed NPDES Stormwater Monitoring. Kinnetic Laboratories is presently carrying out NPDES stormwater monitoring projects for the Lower Los Angeles River, Los Cerritos Channel, Lower San Gabriel River, and the City of Long Beach Estuarine Watersheds along with assisting CH2MHill with field monitoring in the Upper San Gabriel River Watershed. This new work is designed to be in compliance with both the Los Angeles and the City of Long Beach's new Stormwater Permits and has been approved by the Regional Water Quality Control Board. The program is designed to obtain precision contaminant loading data by use of flow composited sampling of complete hydrographs along with chemical and toxicity analyses. An innovative approach is being implemented to obtain flow composited samples under ultraclean protocols for bioaccumulative organic compounds along with high-resolution Mass Spectral analyses in order to obtain loading of these contaminants to San Pedro Bay, thus addressing the Harbor Toxics TMDL requirements. Support for BMP designs for the associated Water Management Plan is also being furnished. Gateway Water Authority and City of Long Beach. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net ; Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com ; and Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov .

City of Long Beach NPDES Stormwater Monitoring Program. Dr. Kinney initially served as project manager for this program, then subsequently provided operational support to Mr. Stevenson as Manager. Kinnetic Laboratories has been the contractor for the City of Long Beach's NPDES storm water monitoring program since its inception fifteen years ago. This program involves instrumentation and monitoring of the City's storm water discharges, determinations of effects to harbor receiving waters, and extensive support for TMDL issues and permit renewal negotiations. In addition to providing guidance to BMP programs, a key contribution has been obtaining a fifteen year record of precision contaminant loading data critical to TMDL issues. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Los Cerritos Creek TMDL Studies, City of Long Beach. An example of the ability to obtain good load data as described above, for TMDL support, Mr. Stevenson was able to calculate site-specific metal translators based upon methods of the USEPA (1996) guidance document using the precision 12 year monitoring data for this watershed, backed by accompanying toxicity data. Instead of the simple regression calculation used in the original TMDL model, this more accurate method takes into account high suspended solids present in storm water runoff, resulting in the potential for metal Waste Load Allocations (WLAs) to be increased by a factor of 1.5 for copper, 12.5 for lead, and 2.4 for zinc. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Design Comprehensive Integrated Monitoring Program (CIMPs) for Lower San Gabriel, Los Cerritos Channel, and Lower LA River Watershed Technical Committees. Dr. Kinney assisted Mr. Stevenson in the preparation of Comprehensive Monitoring Programs for the Lower Los Angeles River, Lower San Gabriel River, and Los Cerritos Channel urban watersheds that include Cities from Downey, Lakewood, Compton, and Long Beach which drain into the San Pedro Bay harbor complex. This program is designed for

implementation to fulfill requirements of the new stormwater permits and incorporate associated TMDL requirements. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net and Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Dry Weather Flow & Water Quality LID Methods Study (Proposition 84), Gateway Water Authority. Dr. Kinney developed flow and water quality methods as part of implementing Los Cerritos Channel Watershed Segmentation and LID Planning to support TMDL actions. Special low-flow monitoring methods were designed and proven by a pilot study and reported to the State RWQCB for general use. Dry weather monitoring was carried out in the main Los Cerritos, Wardlow, Clark, Del Amo and Palo Verde Channels to provide key data for identification of primary sources of dry weather pollutant loads and for LID planning purposes. Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Cabrillo Beach Bacteria Studies. Kinnetic Laboratories researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their hydrodynamics, field source studies, and molecular markers showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have significant human contributions. Subsequent independent studies by the Port vindicated the local hydrodynamic results of the study and proved conclusively that enhanced circulation by small pumps was not a solution. Working with Jeff Soller of Soller Environmental, the recommended action by Kinnetic Laboratories was to consider a Natural Source Exclusion and a Quantitative Microbial Risk Assessment study to show that not only were human sources not present, but that other pathogens were not a problem. John Foxworthy (Deceased), Port of Los Angeles.

Central Coast Long Term Environmental Assessment Network (CCLEAN), Monterey Bay Regional Monitoring Program. (CCLEAN) is long-term a regional monitoring program in the Monterey Bay area focused on water quality issues, with an emphasis on measuring contaminant inputs from point and non-point sources and determining the effects of those contaminants, including exceedances of water quality and biological tissue criteria, effects on biological communities, and effects on the health and mortality of sea otters. Responsible for field studies in the project team, Kinnetic Laboratories uses state-of-the-art sampling and analytical methods, such as solid-phase extraction techniques, to measure flow-proportioned low concentrations of persistent organic pollutants from four rivers, four wastewater treatment plants, and from specially designed offshore moored samplers in Monterey Bay. Measurements of bioaccumulation in resident mussels at shoreline locations are also determined. City of Watsonville and Applied Marine Sciences. Barbara Pierson, 831-768-3179, bpiereson@ci.watsonville.ca.us, Dane Hardin AMS, 831-426-6326, hardin@amarine.com.

Calleguas Creek TMDL Watershed Monitoring Program. The Calleguas Creek Watershed Total Maximum Daily Load Monitoring Program addresses four TMDL actions at present and is designed to begin the required monitoring to obtain data to support development of Implementation Plans to achieve water quality objectives. Working with Larry Walker Associates, Dr. Kinney set up and implemented field sampling operations in the program, submission of laboratory samples, does tracking and managing analytical testing, and carries out data management and quality evaluations. Validated data is delivered in the form of a modified SWAMP database. Larry Walker Associates, Mack Walker, 530-753-6400, mackw@lwa.com.

CALTRANS Stormwater Studies. Kinnetic Laboratories has monitored over 79 stormwater stations each for multiple years for Caltrans, spread from Redding in the north to San Diego in the south utilizing full telemetry network control. This resulted in over 1000 storm events with over 95% success, over 90% storm capture, and high quality validated data including excellent mass balances across BMP pilots being evaluated. This work included 12 sites for Runoff Characterization, 31 Biofilter sites, 7 sites for erosion control BMPs, and 29 sites for structural BMP Operations & Evaluations. Major Southern California sites were for BMP evaluations done for RBF Consulting, Scott Taylor, RBF Consulting/Michael Baker International, 949-246-8276, staylor@mbakerintl.com

Port of Los Angeles – Stormwater Monitoring and StormCeptor Evaluation, Berth 100. Berth 100 developments at the Port of Los Angeles involved the construction of a major dock to accommodate large container ships and an adjacent, large paved terminal yard to handle the containers and trucks for shipment. Storm water drainage from the new container terminal was designed as slot drains which drop into an underground collector storm sewer system. A total of 10 StormCeptor 11000 units were incorporated into this collection system to treat the storm water from the terminal before discharge into the harbor. Kinnetic Laboratories performed storm water discharge monitoring at this Pier 100 facility before and after operations began, and also tested the effectiveness of StormCeptors installed in the drainage system by monitoring both upstream and downstream. Kathryn Curtis (310) 732-3571; kcurtis@portla.org .

ATTACHMENT B TO EXHIBIT B

**RATE SHEET
FOR THE THIRD AMENDMENT**

Attached hereto and incorporated herein is the rate sheet for the additional scope of work and associated cost as provided by the Consultant for this Third Amendment.

The Third Amendment Payment amount shall not exceed **Four Hundred Thirty-Nine Thousand Four Hundred Dollars and Zero Cents (\$439,400)** for work related to the Harbor Toxics TMDL under Exhibit A-1 and **Four Million One Hundred Twelve Thousand Four Hundred Fifty-Nine and Zero Cents (\$4,112,459.00)**.

III. Fees

A. Rate Schedule

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Environmental Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Environmental Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

*JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

Table 5: Estimated Costs from July 1, 2018, to June 30, 2019

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$444,021
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$394,927	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		--	--	--	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	7	\$1,295	
	APM/PE	\$145	27	\$3,915	
	CS2/PA2	\$115	54	\$6,210	
	CS1/PA1	\$95	36	\$3,420	
SOW II.B.5 Biotic Ligand†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$254,565
SOW II.C.1 Corridor study: Two (2) concept design reports; Two (2) feasibility study reports†		LSE	LSE	\$182,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
		LSE		\$20,000	
Total Not to Exceed					\$823,666

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 6: Estimated Costs from July 1, 2019, to June 30, 2020

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$464,021
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$394,927	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	7	\$1,295	
	APM/PE	\$145	27	\$3,915	
	CS2/PA2	\$115	54	\$6,210	
	CS1/PA1	\$95	36	\$3,420	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$217,105
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	10	\$1,850	
	APM/PE	\$145	45	\$6,525	
	CS2/PA2	\$115	90	\$10,350	
	CS1/PA1	\$95	60	\$5,700	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
		LSE		\$20,000	
Total Not to Exceed					\$806,206

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 7: Estimated Costs from July 1, 2020, to June 30, 2021 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$113,820
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$150	270	\$40,500	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	--	--	--	--	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**		LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$476,489
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$406,775	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	7	\$1,330	
	APM/PE	\$150	27	\$4,050	
	CS2/PA2	\$120	54	\$6,480	
	CS1/PA1	\$100	36	\$3,600	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$219,370
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$809,679

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 8: Estimated Costs from July 1, 2021, to June 30, 2022 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$113,820
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$150	270	\$40,500	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	---	---	---	---	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**		LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$488,694
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$418,980	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	7	\$1,330	
	APM/PE	\$150	27	\$4,050	
	CS2/PA2	\$120	54	\$6,480	
	CS1/PA1	\$100	36	\$3,600	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$219,370
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$821,884

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 9 Estimated Costs from July 1, 2022, to June 30, 2023 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$130,390
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$150	270	\$40,500	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	PRI	\$190	14	\$2,660	
	APM/PE	\$150	39	\$6,630	
	CS2/PA2	\$120	39	\$4,680	
	CS1/PA1	\$100	26	\$2,600	
SOW II.A.3 Subcontracted watershed management support services (RWA)		LSE**	LSE	\$10,000	
SOW II.B CIMP Implementation and Reporting					\$501,264
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$431,550	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	7	\$1,330	
	APM/PE	\$150	27	\$4,050	
	CS2/PA2	\$120	54	\$6,480	
	CS1/PA1	\$100	36	\$3,600	
SOW II.B.5 Biotic Ligand Model†		LSE	LSE	\$24,254	
WMP/MS4 Permit Assistance					\$219,370
SOW II.C.1 Corridor study: One (1) concept design report; Two (2) feasibility study reports†		LSE	LSE	\$125,000	
				\$18,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
		LSE		\$20,000	
Total Not to Exceed					\$851,024

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

III. Rate Schedule and Estimated Costs

A. Rate Schedule

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Industrial/commercial facility inspection	\$115/unit
Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

* JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

B. Estimated Not-to-Exceed Fee Proposal

The not-to-exceed cost for this project is included in the following tables. Information on the tasks listed are provided under the Scope of Work section of this proposal. Optional costs beyond the 2019-2020 season are also included and are based on a 3% escalation fee per year.

Table 6. Estimated Costs from July 1, 2018, to June 30, 2019

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$76,754
A.1 Monitoring	\$8,432	\$9,963	--	
A.2 Reporting	\$9,064	\$3,818	\$31,944	
Equipment Lease, Reinstall and Maintenance	\$13,533	--	--	
B. Program Management				\$11,514
B.1 Manage Program	Lump Sum Estimate			
Total				\$88,268

Table 7. Estimated Costs from July 1, 2019, to June 30, 2020

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$77,713
A.1 Monitoring	\$8,432	\$9,963	--	
A.2 Reporting	\$9,064	\$3,818	\$32,902	
Equipment Lease, Reinstall and Maintenance	\$13,533	--	--	
B. Program Management				\$6,218
B.1 Manage Program	Lump Sum Estimate			
Total				\$83,931

Table 8. Estimated Costs per Season Beyond the 2019-2020 Season (Optional)

Task name	2020-2021	2021-2022	2022-2023	Total
A. Monitoring and Reporting - KLI	\$80,044	\$82,445	\$84,919	\$247,408
B. Program Management - JLHA	\$6,404	\$6,596	\$6,794	\$19,793
Total	\$86,448	\$89,041	\$91,713	\$267,201

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

May 14, 2018

SECTION NO. 14: Third Amendment to the Agreement between GWMA and John L. Hunter & Associates, Inc. for the Lower Los Angeles River Watershed Group

SUMMARY:

The Agreement between GWMA and John L. Hunter & Associates, Inc. is set to expire on June 30, 2018. The LLAR watershed group has requested that GWMA amend the Agreement to extend the agreement terms to June 30, 2020 with three 1-year extension options, and set forth Scopes of Work of the Agreement for work related to the Harbor Toxics TMDL and all other program. This Amendment would also increase the payment terms by an additional not to exceed amount of \$219,700 for work relating to the Harbor Toxics TMDL and \$3,045,105 for all other program tasks, for a total Agreement amount of \$5,602,679.

BACKGROUND:

John Hunter & Associates was retained by GWMA on behalf of the LLAR on October 10, 2013 through a standard PSA. Thereafter, the first amendment was approved by the Board on May 14, 2015 with an expiration of December 31, 2017. The second amendment was approved by the Board on January 11, 2018 with an expiration of June 30, 2018.

The LLAR Watershed group now wishes to further extend the Agreement terms to June 30, 2020 with the option of three 1-year extensions and increase the payment by an additional not to exceed amount of \$6,978,603. GWMA's legal counsel drafted and approved this Third Amendment to the Agreement between GWMA and John L. Hunter & Associates, Inc. as to form.

FISCAL IMPACT

Administrative and legal costs will be reimbursed through the 3% administrative fee agreed to in the MOU Amendment. The funds for this work will be collected as part of the annual budgets for the LLAR.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

16401 Paramount Boulevard
Paramount, CA 90723
562.663.6850 phone
562-634-8216 fax

www.gatewaywater.org



*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

RECOMMENDATION

- a. Authorize staff to issue a Third Amendment to the Professional Services Agreement between GWMA and John L. Hunter & Associates, Inc. in an amount not to exceed \$5,602,679 for services through FY 2020 with 3 one-year extension options for LLAR.
- b. Authorize the Chair to sign the Third Amendment to the Professional Services Agreement between the GWMA and John L. Hunter & Associates, Inc. for LLAR.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County

**THIRD AMENDMENT TO AGREEMENT BETWEEN
GWMA AND JOHN L. HUNTER & ASSOCIATES, INC., FOR THE LOWER LOS
ANGELES RIVER WATERSHED GROUP**

THIS THIRD AMENDMENT to that certain Professional Services Agreement by and between the Los Angeles Gateway Region Integrated Regional Water Management Authority also referred to as the Gateway Water Management Authority ("GWMA") and John L. Hunter & Associates, Inc., a CALIFORNIA CORPORATION ("Consultant") is made and entered into as of May 14, 2018. In consideration of the mutual covenants and conditions set forth herein, the parties agree as follows:

1. Recitals. This Third Amendment is made with the respect to the following facts and purposes:

a. On October 10, 2013, GWMA and Consultant entered into that certain Professional Services Agreement ("Agreement") in the amount of Six Hundred Fifty-Seven Thousand Four Hundred Dollars and Zero Cents (\$657,400.00).

b. On May 14, 2015, GWMA and Consultant approved the First Amendment to the Agreement, which: (1) extended the Agreement's term; (2) amended Exhibit A to the Agreement to add additional duties to the tasks to be performed under the Scope of Work; (3) increased the payment in the amount of One Million Eighty-Nine Thousand Five Hundred Forty-Nine Dollars and Zero Cents (\$1,089,549.00); and (4) amended Exhibit B to the Agreement to add the payment rates for the additional scope of work.

c. On January 11, 2018, GWMA and Consultant approved the Second Amendment to the Agreement, which: (1) further extend the Agreement's term; and (2) increased the payment by an additional not to exceed amount of Five Hundred Ninety Thousand Nine Hundred Twenty-Five Dollars and Zero Cents (\$590,925.00).

d. The parties now desire to: (1) further extend the Agreement's term to June 30, 2020; (2) set forth separate Scopes of Work in Exhibit A of the Agreement for work related to the Harbor Toxics TMDL and all other program tasks through June 2020 and, if authorized, June 2023; and (3) increase the payment by an additional not to exceed amount of Two Hundred Nineteen Thousand Seven Hundred Dollars and Zero Cents (\$219,700.00) for work related to the Harbor Toxics TMDL and Three Million Forty-Five Thousand One Hundred Five Dollars and Zero Cents (\$3,045,105.00) for all other program tasks, for a total agreement amount of Five Million Six Hundred Two Thousand Six Hundred Seventy-Nine Dollars and Zero Cents (\$5,602,679.00) (\$657,400.00 + \$1,089,549.00 + \$590,925.00 + \$219,700.00 + \$3,045,105.00).

2. The section of the Agreement entitled "**TIME FOR PERFORMANCE**" is hereby amended to read as follows:

"The term of this Agreement shall commence on the effective date of this Agreement and shall expire on June 30, 2020, unless terminated earlier in accordance with the terms of this Agreement. Upon approval by its Board of Directors, GWMA may extend the term of this Agreement for three additional one-year terms from the expiration date, pursuant to the same terms and conditions of this Agreement, provided that GWMA has entered into a cost-sharing agreement with members of the Lower LAR Watershed Committee that reimburses GWMA for Consultant's Services under this Agreement."

3. The section of the Agreement entitled "**COMPENSATION AND METHOD OF PAYMENT**" is hereby amended to read as follows:

"A. GWMA shall pay Consultant, for the Services performed on a time and materials basis, based on the attached Exhibit B (Rate Sheet) to the Agreement. The initial amount shall not exceed Sixty Hundred Fifty-Seven Thousand Four Hundred Dollars and Zero Cents (\$657,400.00), the First Amendment amount shall not exceed One Million Eighty-Nine Thousand Five Hundred Forty-Nine Dollars and Zero Cents (\$1,089,549.00), the Second Amendment amount shall not exceed Five Hundred Ninety Thousand Nine Hundred Twenty-Five Dollars and Zero Cents (\$590,925.00), and the Third Amendment amount shall not exceed Two Hundred Nineteen Thousand Seven Hundred Dollars and Zero Cents (\$219,700.00) for work related to the Harbor Toxics TMDL and Three Million Forty-Five Thousand One Hundred Five Dollars and Zero Cents (\$3,045,105.00) for a total agreement amount of Five Million Six Hundred Two Thousand Six Hundred Seventy-Nine Dollars and Zero Cents (\$5,602,679.00). The GWMA shall not pay to Consultant a total amount exceeding Five Million Six Hundred Two Thousand Six Hundred Seventy-Nine Dollars and Zero Cents (\$5,602,679.00) and a total amount in any given year exceeding the estimated amounts set forth on the attached Exhibit B for the particular year (Estimated Costs), unless additional payment is approved as provided in this Agreement.

B. Consultant shall perform the Services for the amount(s) listed above. GWMA shall not withhold federal payroll, state payroll and other taxes, or other similar deductions from each payment made to Consultant. Consultant shall pay all applicable federal, state, and local excise, sales, consumer use, and other similar taxes required by law. GWMA shall not allow any claims for additional services performed by Consultant, unless the Project Manager or GWMA Chair authorizes the additional services in writing prior to Consultant's performance of the additional services or the incurrence of additional expenses. Any additional services authorized by the Project Manager or GWMA Chair shall be compensated at the hourly rates set forth above, or, if not specified, at a rate mutually agreed to by the parties.

C. Consultant shall submit to GWMA a proposed annual budget for the Services to be performed during each calendar year of the term of this Agreement. The proposed annual budgets shall identify the proposed total annual budget amount and

the proposed budget amounts for the periods of January 1st through June 30th and July 1st through December 31st. Consultant shall submit a proposed annual budget to GWMA on or before the 15th of April for the Services to be performed during the subsequent calendar year. GWMA will submit Consultant's annual budgets to the Lower LAR Watershed Committee no later than May 1st of each year for the Committee's approval and adoption.

D. Consultant shall submit invoices to GWMA on a monthly basis for actual work performed and actual expenses incurred during the preceding month. The invoices shall describe in detail the services performed by each person for each task, including the days and hours worked.

E. Prior to releasing payment to Consultant, GWMA shall submit Consultant's invoices to the Lower LAR Watershed Committee for final payment approval. The Lower LAR Watershed Committee will decide whether to pay an invoice submitted by Consultant and inform the GWMA of its decision. If the Lower LAR Watershed Committee approves GWMA payment of an invoice, GWMA shall make payment to Consultant payable to:

John L. Hunter & Associates, Inc.
6131 Orangethorpe, Suite 300
Buena Park California 90620

F. GWMA's payment obligations pursuant to this Agreement are payable solely from funds appropriated to GWMA by the Watershed Permittees to fulfill the purpose of this Agreement. GWMA and Consultant expressly agree that full funding for this Agreement over the term of this Agreement is contingent on GWMA's receipt of payment from each Watershed Permittee of its proportional costs of the Services. In the event of a Permittee's failure to pay its proportional costs of the Services to GWMA, GWMA may either reduce funding for this Agreement at a level that is proportionate to the reduction in GWMA's receipt of funds from the Watershed Permittees or suspend all or a portion of the Services being performed by Consultant."

4. Exhibit A (Scope of Work) to the Agreement is hereby amended by adding thereto the scope of work items set forth in **Attachment "A"** to this Third Amendment, which is attached hereto and incorporated herein as though set forth in full. **Attachment "A-1"** shall hereafter become Exhibit A-1 and describes the scope of work for the Harbor Toxics TMDL and **Attachment "A-2"** shall hereafter become Exhibit A-2 and describes all other program tasks.

5. Exhibit B (Rate Sheet) to the Agreement is hereby amended by adding thereto the items set forth on **Attachment "B"** to this Third Amendment, which is attached hereto and incorporated herein as though set forth in full.

6. Except for the changes specifically set forth herein, all other terms and conditions of the Agreement, the First Amendment, and the Second Amendment shall remain in full force and effect.

7. The Recitals are incorporated herein as though set forth in full.

IN WITNESS WHEREOF, the parties hereto have caused this Third Amendment to Agreement to be executed the day and year first above written.

GWMA

Consultant

Los Angeles Gateway Region Integrated
Regional Water Management Authority

John L Hunter & Associates

By: _____

Name: Christopher Cash

Title: Chair

By: _____

Name: _____

Title: _____

Approved as to Form:

By: _____



Name: Nicholas R. Ghirelli

Title: General Counsel

By: _____

Name: _____

Title: _____

(Please note: Two signatures required for corporations pursuant to California Corporations Code Section 313.)

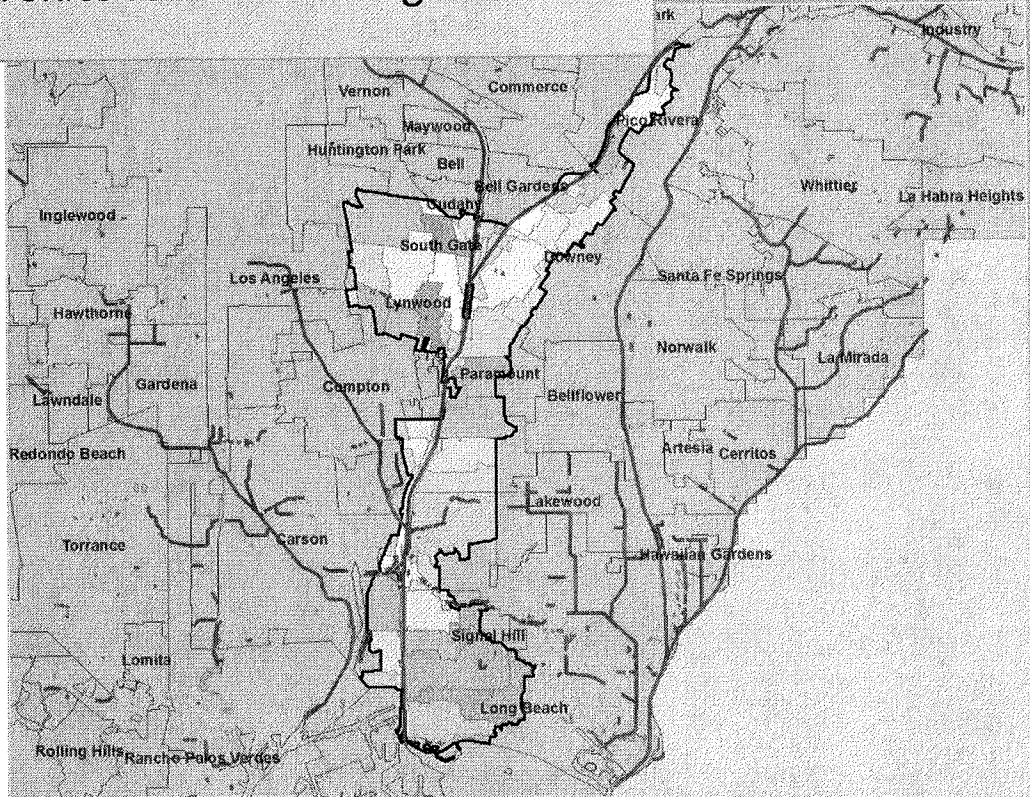
ATTACHMENT A-1 TO EXHIBIT A

**HARBOR TOXICS TMDL TASKS TO BE PERFORMED
FOR THE THIRD AMENDMENT**

Attached hereto and incorporated herein is the additional scope of work and associated cost as provided by the Consultant for this Third Amendment.

April 27, 2018

Proposal to Assist the GMWA with Professional Services Related to the Harbor Toxics for the Los Angeles River



Prepared By:

John L. Hunter and Associates
6131 Orangethorpe Ave., Ste. 300
Buena Park, CA 90620
Proposal contact: John Hunter
jhunter@jlha.net | (562) 802-7880 ext. 225

Prepared For:

Grace Kast
Gateway Water Management Authority
16401 Paramount Blvd.
Paramount, CA 90723

And the Lower LA River Watershed
Management Group



Table of Contents

I.	Qualifications and Experience.....	1
A.	Relevant Firm Experience	1
1.	Municipal NPDES Permit Compliance.....	1
B.	Track Record	3
C.	Subcontractor Firm Experience	3
1.	Kinnetic Laboratories, Inc.	3
D.	Relevant Staff Credentials	4
E.	Proposed Team.....	5
F.	References	6
II.	Scope of Work and Approach	7
A.	Monitoring and Implementation Program	7
1.	Monitoring.....	7
2.	Reporting	8
3.	Equipment Lease, Reinstallation and Maintenance	8
B.	Program Management	9
III.	Rate Schedule and Estimated Costs.....	10
A.	Rate Schedule	10
B.	Estimated Not-to-Exceed Fee Proposal.....	11
IV.	Resumes	12

I. Qualifications and Experience

John L. Hunter and Associates, Inc. (JLHA) is an environmental consulting corporation established in 1985 that specializes in serving municipal clients. JLHA's mission is to provide its clients with the expertise necessary to comply with mandated environmental programs, such as NPDES, stormwater and watershed management, industrial waste (IW) and fats, oils and grease (FOG) control, water conservation, and recycling. Services provided under these programs include program management, engineering, inspections, monitoring, grant administration, and public education.

A. Relevant Firm Experience

Table 1 lists the municipal NPDES services currently or recently provided by JLHA to municipal clients. The following are summaries of JLHA's experience related to municipal NPDES Permit compliance.

1. Municipal NPDES Permit Compliance

JLHA has considerable experience in Municipal NPDES Permit compliance programs, beginning with the inception of the Phase I MS4 Permits in the 1990s. Currently JLHA implements elements of such programs for 45 cities in the Southland. Services include the following:

- 25 cities and 4 watershed groups: Program administration and/or technical support,
- 33 cities: Field services such as BMP compliance inspections,
- 23 cities: Plan review and approval (e.g., SUSMP/LID Plans, WQMPs, and SWPPPs),
- 32 cities and 3 watershed groups: Reporting (e.g., annual, TMDL, and/or watershed reports), and
- 32 cities and 3 watershed groups: Staff training.

Relevant and recent activities include:

- Representing cities in MS4 NPDES audits conducted by Regional Water Board staff,
- Obtaining and administering grants for stormwater capture and LID projects,
- Managing BMP inspection programs that cover in total approximately 10,000 sites,
- Developing watershed management programs under the area-wide LA MS4 NPDES Permit.

JLHA also served as the lead consultant for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River (LLAR), Lower San Gabriel River (LSGR), City of Long Beach, and Peninsula Cities Watershed Groups, and served as a sub-consultant for the development of the WMP for the Los Cerritos Channel (LCC) Watershed Group. As part of WMP development, JLHA also oversaw the development of Coordinated Integrated Monitoring Programs (CIMPs) for the LLAR, LSGR, and Peninsula Cities Watershed Groups. All plans were approved by the Regional Board in 2015 and 2016. Together the member agencies of these Watershed Groups represent 20 MS4 NPDES Permittees.

JLHA serves as the consultant team lead for the LLAR, LSGR, and Peninsula Cities Watershed Groups. Services include administering monitoring activities, watershed annual reporting, technical committee meetings, and select implementation efforts such as feasibility studies. In this capacity JLHA also regularly interfaces with city councils and Regional Board staff and members. JLHA also represents twelve municipal clients in watershed management groups for the Upper Los Angeles River, Upper San Gabriel River, Dominguez Channel and Los Cerritos Channel. In Orange County JLHA represents six municipal clients in watershed management group planning activities, covering the Coyote Creek/San Gabriel River, Anaheim Bay/Huntington Harbour, and the Santa Ana River watersheds.

Table 1: Summary of Municipal NPDES Services Recently or Currently Provided

Client	First year of service	Years of service	MS4 Permit Control Measures						Watershed				General Services			
			Development	Construction	Municipal Activities	Industrial/Commercial	Illicit Discharge Detection	Public Outreach	Watershed Plan Development	Watershed Plan Implementation	Monitoring	Studies	Reporting	Training	Grants	Program Mgmt. or Support
Arcadia	1995	23	--	x	x	x	x	x	--	--	--	x	x	x	--	--
Artesia	2014	4	--	x	x	x	x	x	--	x	--	--	x	x	--	x
Big Bear Lake	2004	14	--	--	--	x	x	--	--	--	--	--	x	--	--	--
Bellflower	2014	2	--	--	--	x	--	--	--	--	--	--	--	--	--	--
Cerritos	2015	3	--	x	--	--	--	--	--	--	--	--	--	--	--	--
Covina	2008	10	x	x	--	x	--	--	--	--	--	--	--	x	--	--
Diamond Bar	2007	11	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Downey	2011	7	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Fullerton	2017	1	--	--	--	--	--	--	--	--	--	--	x	x	--	x
Glendale	2013	5	--	--	x	--	--	--	--	--	--	--	--	--	x	--
Gateway Water Mgmt. Authority	2012	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hawaiian Gardens	2012	6	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Hawthorne	2000	18	--	x	x	x	x	x	--	--	--	--	x	x	--	x
Inglewood	2015	3	--	--	--	x	--	x	--	--	--	--	x	--	--	x
La Habra	2011	7	x	x	x	x	x	x	--	--	--	--	--	--	--	--
Lakewood	2014	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lomita	2015	3	--	x	x	x	x	x	--	x	--	--	x	x	--	x
Long Beach	2014	4	--	--	--	x	--	--	x	--	--	--	x	x	--	--
LCC Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	--	x	--	x
LLAR Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	x	--	x
LSGR Watershed Group	2013	5	--	--	--	--	--	--	x	x	--	--	x	x	--	x
Lynwood	2014	4	x	x	x	x	x	x	--	x	--	--	--	--	--	--
Manhattan Beach	2010	8	--	--	x	x	--	--	--	--	--	--	--	--	--	--
Monterey Park	2005	13	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Norwalk	2010	8	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Paramount	2014	4	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Pasadena	2015	3	x	--	--	x	--	--	--	x	--	--	x	x	--	x
Peninsula Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	--	--	x
Placentia	2013	5	x	x	x	x	x	--	--	--	--	--	x	x	--	x
Rancho Palos Verdes	1994	24	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Rolling Hills	2009	9	--	--	--	--	--	--	--	--	--	x	x	--	--	--
Santa Fe Springs	2016	2	x	x	--	--	--	--	--	--	--	--	--	--	--	--
San Gabriel	2017	1	--	--	x	--	--	x	--	--	--	--	x	x	--	x
Seal Beach	2005	13	x	x	x	x	x	x	--	--	--	--	x	x	--	x
Signal Hill	1985	33	x	x	x	x	x	x	--	x	--	--	x	x	--	x
South El Monte	2017	1	x	--	x	x	x	x	--	x	--	--	x	x	--	x
South Gate	1991	27	x	x	x	x	x	x	--	x	--	--	x	x	--	x
South Pasadena	2005	13	--	x	x	x	--	x	--	x	--	--	x	x	--	x
Stanton	2007	11	x	x	x	x	x	x	--	--	--	--	x	x	--	x
Temple City	2003	15	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Villa Park	2013	5	x	x	x	x	x	x	--	--	--	--	x	x	--	x
West Covina	2015	3	x	x	x	x	x	x	--	x	--	--	x	x	--	x
West Hollywood	1995	23	x	x	x	x	x	--	--	--	--	x	--	x	--	--
Whittier	2014	4	--	x	x	x	x	x	--	x	--	--	x	x	--	x
TOTALS out of 44 agencies			22	27	28	33	25	25	5	22	4	10	35	35	5	32

B. Track Record

JLHA has aided municipalities comply with environmental regulations since its incorporation in 1985. Since that time JLHA has maintained a track record of meeting project schedules and providing project deliverables on-time, on-budget, and to client's satisfaction. This may be verified by contacting JLHA's existing and past clients, including those listed in the References Section of this proposal.

Another metric for JLHA's ability to meet project schedules is through its success in representing clients in Regional Water Board NPDES Program audits. These audits included detailed reviews of records for NPDES sub-programs managed and implemented by JLHA Project Teams. Of the many Regional Water Board NPDES Program audits that JLHA personnel participated in, none resulted in enforcement actions.

C. Subcontractor Firm Experience

Monitoring will be conducted by subcontractor Kinnetic Laboratories, Inc. (KLI). JLHA will serve as an administrative representative and point-of-contact for this program. The JLHA Project Team office is located at 6131 Orangethorpe Ave, Suite 300, in Buena Park, California. The Project Team listed in the following section will be available to provide any requested services throughout the term.

1. Kinnetic Laboratories, Inc.

Kinnetic Laboratories, Inc. is a small SBE, VSBE firm with 45 years of experience that specializes in field investigations in support of both water and sediment quality studies. Their core mission is to provide scientific, quantitative environmental data and evaluations focused on key issues for design, permitting, monitoring, and compliance. Kinnetic Laboratories has a local office and research vessels home ported in Long Beach, vibracores and other sediment sampling equipment, and extensive water quality instrumentation, including specialized stormwater stations capable of obtaining contaminant load determinations. They have worked extensively for many years with major local clients, including the City of Long Beach and the Port of Los Angeles. They have an extensive track record of water quality, stormwater, and sediment quality projects, including major sediment dredge studies for the Port of Los Angeles.

Water Quality and Storm Water. Kinnetic Laboratories has 25 years of stormwater and watershed experience, starting with the Santa Clara Valley program that won an USEPA Award of Excellence and later comprising over 20 such studies. A descriptive list of selected of stormwater projects is provided in the Appendix. They have been the City of Long Beach's contractor for 15 years for the NPDES Stormwater Permit Monitoring Program, including extensive TMDL support. Their contaminant load data of both total and dissolved metals, backed by accompanying toxicity data allowed them to request that Waste Load Allocations (WLA's) be increased for copper, for lead, and for zinc. They have also performed special bacterial source studies for the City's beaches, and have also prepared seasonal and annual bacterial reports on the City's beach performance.

Kinnetic Laboratories are currently carrying out storm water monitoring and BMP research support for five large urban watersheds draining into San Pedro Bay. Recently, they have developed methodology to measure contaminant loads to San Pedro Bay of key organic pollutants to address the Harbor Toxics TMDL. Their work with the City of Long Beach BMP efforts has resulted in the recreational beaches reaching up to 98% compliance with respect to bacterial contamination. At Cabrillo Beach they researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their

vindicated hydrodynamics, field source studies, and molecular characterizations showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have a significant human contribution.

For the City of Long Beach, Kinnetic Laboratories have monitored storm water pump stations as part of the MS4 NPDES monitoring program. They also have monitored dry weather flow diversions from the Belmont and Appian Way storm water pump stations and prepared required reports for the County Sanitation District. Assistance with BMP designs has also included measuring flows in the stormwater system for design of low-flow, first flush diversions for four local watershed Water Management Plans.

Other representative stormwater, TMDL, and watershed projects are listed below which include extensive source study investigations, BMP evaluations, and mitigation measures. Recent studies carried out by Kinnetic Laboratories include preparing Comprehensive Integrated Monitoring Programs (CIMPs) for the Lower San Gabriel, Los Cerritos, and Lower Los Angeles River watersheds. A Proposition 84 funded study is underway for methods and monitoring of dry weather low-flow and water quality in Los Cerritos, Wardlow, Clark, Del Amo, and Palo Verde Channels. Work is also underway on Cerritos Creek TMDL studies.

D. Relevant Staff Credentials

JLHA staff credentials include certified professionals in engineering, stormwater quality, BMP (Best Management Practice) inspection, erosion control, SWPPP development and implementation, and environmental assessment. The experience, credentials and education of the key staff members are included in the Resumes Section of this proposal.

E. Proposed Team

Table 2 lists the roles of the Project Team. Detailed qualifications of the Project Team are included in the Resume section.

Table 2. Project Team Roles

Project Title		Team Member Information	
Core Team	Principal-in-Charge	Name	John Hunter, PE
		Roles	Point-of-contact, project oversight
	Project Manager	Name	Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR
		Roles	Point-of-contact, project development
	Project Manager	Name	Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR
		Roles	Point-of-contact, project development
	Assistant Project Manager	Name	Michelle Staffield, MSE, CPSWQ, QSD/P
		Roles	Point-of-contact and watershed management project delivery
	Monitoring Lead	Name	Pat Kinney, PhD (subcontractor KLI)
		Roles	Monitoring services point-of-contact and delivery
	Project Analyst	Name	Hugo Garcia, CESSWI, QSP
		Roles	Project development, watershed planning
Extended Team	Senior Engineer	Name	Michelle Kim, MSE, CPSWQ, QSD/P
		Roles	Project development, engineering
	Staff Engineer	Name	Rosalinda Tandoc, PE
		Roles	Project review, engineering
	Monitoring Principal	Name	Marty Stevenson (subcontractor KLI)
		Roles	Monitoring services oversight and delivery

F. References

Table 3 is a list of client references. JLHA provides NPDES MS4 services to each of the references listed. Additional references are available at the request of the GWMA.

Table 3: References

Agency Name	Data Field	Reference Information	JLHA Project Manager
Downey	Name/Title	Mohammad Mostahkami, Director of Public Works	John Hunter
	Address	11111 Brookshire Ave, Downey, CA 90241	
	Phone/email	(562) 904-7102, mmostahkami@downeyca.org	
Long Beach	Contact/Title	Melissa You, Stormwater Compliance Officer	Jillian Brickey
	Address	333 W Ocean Blvd, Long Beach, CA 90802	
	Phone/email	(562) 570-5524, Melissa.You@longbeach.gov	
Seal Beach	Contact/Title	Steve Myrter, Public Works Director	Jillian Brickey
	Address	211 8th Street, Seal Beach, CA, 90740	
	Phone/email	(562) 431-2527, smyrter@sealbeachca.gov	
Signal Hill	Contact/Title	Grissel Chavez, Deputy Director of Public Works	John Hunter/ Michelle Staffield
	Address	2175 Cherry Avenue, Signal Hill, CA 90775	
	Phone/email	(562) 989-7251, gchavez@cityofsignalhill.org	
South Gate	Contact/Title	Arturo Cervantes, Public Works Director	Michelle Staffield
	Address	8650 California Ave, South Gate, CA 90280	
	Phone/email	(323) 563-9512, acervantes@sogate.org	
Stanton	Contact/Title	Allan Rigg, Director of Public Works	Cameron McCullough
	Address	7800 Katella Ave, Stanton, CA 90680	
	Phone/email	(714) 890-4204, arigg@ci.stanton.ca.us	
Temple City	Contact/Title	Andrew Coyne, Management Analyst	Cameron McCullough
	Address	9701 Las Tunas Dr, Temple City, CA 91780	
	Phone/email	(626) 285-2171 ext. 4344	

II. Scope of Work and Approach

JLHA and KLI welcome the opportunity to provide professional monitoring and implementation services to the Gateway Watershed Management Authority (GWMA). This section details the approach to complete the Scope of Work (SOW). The timeframe of this proposal is for a period of two years from July 1, 2018, to June 30, 2020. The services provided may be extended for an additional three years upon written agreement by the GWMA and JLHA. The estimated costs are included in Table 6 to 8. This proposal is valid for 90 days.

The tasks listed in the following table includes “Task Detail” information that describe and approach and methods the Project Team will use to meet the contract requirements. The Project Team does not anticipate any significant concerns or problems during the term of this contract. The primary concern is budgeting, as annual variability in workload within the SOW is an unknown, within certain limits. However from past experience, the Project Team expects the not-to-exceed (NTE) annual estimate provided in the proposal to be sufficient for the services provided.

A. Monitoring and Implementation Program

Monitoring requirements for the Harbor Toxics TMDL is described in the Coordinated Integrated Monitoring Program (CIMP) documents for the LLAR watershed. This document specifies monitoring at one LLAR mass emission station designated as S10 (LA River at Wardlow). KLI has previously installed automated monitoring equipment at these stations for the purpose of Harbor Toxics TMDL monitoring.

The Harbor Toxics TMDL specifies that suspended sediment concentrations of metals, PAHs, DDT and PCBs be determined during two wet events and one dry event at each of the three monitoring stations. The LA County Sanitation District is responsible for implementing the dry weather monitoring. KLI’s approach to sampling and testing for the Harbor Toxics TMDL is the same as in previous years. This approach requires organic analyses to be conducted on the whole sample using High Resolution Mass Spectrometry (HRMS) methods. Sediment loads for both the metals and organics are determined using the suspended sediment concentration (SSC) of each sample. The HRMS organic analyses and SSC analyses will be conducted under this program, while the metals analyses will be conducted as part of the mass emission and long-term assessment site monitoring conducted under the CIMPs.

1. Monitoring

Monitoring requires the implementation of the following subtasks:

- Equipment Blanking
- Lab Interaction
- Preparation of Chain of Custody Documentation
- Sampling
- Subsampling
- Sample Delivery
- Chemical Analysis

Equipment blanking is conducted on the sample tubing and composite bottle in the field at one of the stations just prior to the first event of the year. A blank sample is also run on one subsampling hose set

and two composite bottles. Special contaminant free deionized (DI) water is used to conduct the blanking and rinse the sample tubing prior to an event.

Laboratory interaction involves the ordering of laboratory containers and necessary DI water. Coordination is also conducted prior to and during a monitored event.

Chain of Custody documentation is prepared ahead of time for each monitored event.

To keep costs down, sampling is conducted at the same time that all other CIMP monitoring is conducted. Stations are programmed and initiated remotely by KLI's "storm control" personnel. Field crew visit the stations during an event as directed by "storm control" to troubleshoot any problems and to change composite bottles if needed. Once a storm has run its course, composite bottles are picked up and taken to KLI's facility at Los Alamitos for subsampling. Subsampling involves mixing the contents of the 20L bottle(s) for each station with a large magnetic stirrer and transferring the composited water into laboratory supplied sample containers. The sample containers are then packaged, iced and shipped to the laboratory.

Chemical analyses are conducted by Vista Laboratory. Analyses include two storm water samples per season at each station, one duplicate sample per storm event and four blank samples per season.

2. Reporting

Preparation of semi-annual data submittals and final watershed reports are conducted under the main CIMP budgets along with all other data. Additional reporting for the Harbor Toxics TMDL includes field status reports for each monitored event and an interpretive technical report of the prior year's data. Estimates developed for 2018-2019 include a technical report of the 2017- 2018 monitoring season.

3. Equipment Lease, Reinstallation and Maintenance

Lease fees for each fiscal year are based upon our standard lease fees for equipment for the three monitoring stations. Equipment includes auto-samplers, flow meters, communication modems, and a power source. After each monitoring season, sensitive equipment is removed from each station. This equipment along with freshly cleaned sample tubing is re-installed prior to the start of the monitoring season. This equipment is then maintained until storm monitoring is completed and the de-installed again.

One additional subtask conducted under this task is the cleaning of sampler tubing, subsampling tubing and 20L composite bottles. KLI has developed standard operating procedures for cleaning the equipment to meet the low level detection limits required under this program.

Table 4 lists the scope of work for the Monitoring and Reporting Program. This includes preparation of the Annual Report, record keeping, and database management.

Table 4. Scope of work for the Monitoring and Reporting Program

Permit §	Task #	Task
MRP	A.1	Monitoring
	A.1.a	Review water quality monitoring results Task detail: Water quality monitoring is led by the LLAR WMG, which is a service separate from this SOW. However the Project team will review monitoring results as they are provided by KLI and update the GWMA with an analysis of the results through correspondence and reports.
MRP	A.2	Reporting
	A.2.a	Assist in preparation of Watershed MS4 NPDES Annual Report Task detail: Preparation of the Watershed MS4 NPDES Annual Report is led by the LLAR WMG, which is a service separate from this SOW. The report does requires the submittal of some data from the Individual Annual Report. This task includes compiling and submitting this data, as well as reviewing and providing comments on draft versions of the Watershed MS4 NPDES Annual Report.

B. Program Management

Table 5 lists the SOW and approach for the management of all programs provided.

Table 5. Programs Management

Task #	Task
B.1.a	Provide program updates Task detail: This includes assessing and reporting on the status of program completion and compliance, holding update meetings, preparing program update and summary reports, and corresponding with the WMG on program updates.
B.1.b	Serve as program representative Task detail: This includes representing the WMG with respect to the services provided: 1) at relevant area-wide NPDES meetings, 2) in interactions with municipal, regulating, and non-governmental agencies, and the public, and 3) prepare summary reports.
B.1.e	Assure quality on services provided, including review of prepared documents Task detail: This includes review and revisions by the Project Manager of documents such as the Memorandum of Understanding (MOU) and deliverables prepared under the SOW for content and accuracy

III. Rate Schedule and Estimated Costs

A. Rate Schedule

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Industrial/commercial facility inspection	\$115/unit
Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

* JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

B. Estimated Not-to-Exceed Fee Proposal

The not-to-exceed cost for this project is included in the following tables. Information on the tasks listed are provided under the Scope of Work section of this proposal. Optional costs beyond the 2019-2020 season are also included and are based on a 3% escalation fee per year.

Table 6. Estimated Costs from July 1, 2018, to June 30, 2019

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$38,377
A.1 Monitoring	\$4,216	\$4,982	--	
A.2 Reporting	\$4,532	\$1,909	\$15,972	
Equipment Lease, Reinstall and Maintenance	\$6,767	--	--	
B. Program Management				\$5,757
B.1 Manage Program	Lump Sum Estimate			
Total				\$44,134

Table 7. Estimated Costs from July 1, 2019, to June 30, 2020

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$38,856
A.1 Monitoring	\$4,216	\$4,982	--	
A.2 Reporting	\$4,532	\$1,909	\$16,451	
Equipment Lease, Reinstall and Maintenance	\$6,767	--	--	
B. Program Management				\$3,109
B.1 Manage Program	Lump Sum Estimate			
Total				\$41,965

Table 8. Estimated Costs per Season Beyond the 2019-2020 Season (Optional)

Task name	2020-2021	2021-2022	2022-2023	Total
A. Monitoring and Reporting - KLI	\$40,022	\$41,223	\$42,459	\$123,704
B. Program Management - JLHA	\$3,202	\$3,298	\$3,397	\$9,897
Total	\$43,224	\$44,521	\$45,856	\$133,601

IV. Resumes

The following section includes the resumes of the Project Team.

John L. Hunter, PE

Principal

Education

B.S. Chemical Engineering, CSULB
B.S. Biological Sciences, UCI

Certifications and Licenses

CA Professional Chemical Engineer, 4724
CA Registered Environmental Assessor, 0900
CA Hazardous Substance Removal, A3382
CA General Engineering License, A-582340

Mr. Hunter serves as the Principal of JLHA. He has over 30 years of experience in municipal environmental programs and currently oversees: (1) elements of over 40 separate NPDES programs encompassing three counties that covers programs such as: watershed and stormwater management, TMDL implementation, plan reviews, industrial and construction inspections, public agency activities, public outreach, and monitoring/reporting; (2) eleven municipal FOG programs encompassing

permitting, inspections and enforcement; (3) seven municipal Used Oil Recycling programs; (4) three municipal Beverage Container Recycling programs; and (5) two water conservation programs. As of May 2016 Mr. Hunter serves as the chair for the LA Permit Group, which provides area-wide MS4 Permit updates to all affected parties under the LA Region MS4 Permit.

Related Experience

Watershed Management

Lead consultant for the Lower Los Angeles River Watershed Group, the Lower San Gabriel River Watershed Group, the Peninsula Cities Watershed Group, and the Long Beach Near-shore watersheds. Oversaw preparation and oversees continued development of the Watershed Management Programs for these groups. Also participates in the Upper Los Angeles River Watershed Group, the Dominguez Channel Watershed Group, and the Los Cerritos Channel Watershed Group.

Total Maximum Daily Loads

Los Angeles River Metals TMDL: Developed the Reach 1 Metals TMDL Implementation Plan on behalf of nine local agencies. The Plan was used as a source document for the Compliance Schedule in the Lower LA River WMP.

Los Angeles River Trash TMDL: Administered Trash DGR studies and associated compliance reports for multiple cities since 2004. Negotiated client interests with Regional Board staff. Obtained grant funding for and prepared the Hamilton Bowl BMP Study. The study evaluated different end-of-pipe trash capture systems for the Cities of Signal Hill and Long Beach.

MS4 Permit Minimum Control Measures (MCMs)

Oversees MCM elements of MS4 Permits for 37 cities. MCM programs include business and construction site inspections, LID Plan and SWPPP reviews, BMP implementation for public agency activities, illicit discharge investigations, and public outreach.

Representation and advocacy

Represents client interests in meetings with Regional Board staff/members regarding (E)WMPs, TMDLs, and other Permit mandates. Has chaired the Los Angeles River Watershed Management Committee, Santa Monica Bay Bacterial TMDL J7 Subcommittee, and the LA Permit Group. Currently serves as technical lead for the Lower San Gabriel, Lower Los Angeles, and Peninsula Cities Watershed Management Groups.

Education

M.S., Applied Mathematics, CSULB
B.S., Physics, CSULB

Certifications

CPSWQ, Envirocert (#0842)
QSD/QSP, CASQA (#22706)
IGP Trainer of Record, CASQA (#079)

Affiliations

Phi Beta Kappa Society
Society for Industrial & Applied Math

Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR

Director

Cameron McCullough has fourteen years of experience in the environmental compliance field, specializing in surface water quality regulation. His experiences include managing the development and implementation of municipal NPDES, TMDL, and FOG Control programs, assisting and training municipal staff in their in-house NPDES programs, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Mr. McCullough serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. Permits managed include the NPDES stormwater permits—MS4, IGP, CGP—as well as non-stormwater permits and related orders such as those for drinking water system releases and sanitary sewer overflows. Permit programs address (1) stormwater quality for construction, industrial, and municipal activities and post-construction BMPs for development activities, (2) non-stormwater discharges to and from the MS4, (3) TMDLs for water bodies impaired by trash, metals, toxics, and bacteria, and (4) surface water quality monitoring. Through his program management activities, he has developed qualifications that meet those required to serve as the Project Manager for this project. Specific examples of these qualifications include:

- Serving as a Project Manager for contracted MS4 NPDES Program assistance for local cities. (Lomita, Glendale, Hawthorne, Monterey Park, Placentia, Stanton, Temple City, Villa Park, West Covina, and West Hollywood.) Responsibilities include serving as project point-of-contact, overseeing the Project Team, ensuring successful completion of the project, and representing the client in interactions with regulators and watershed groups.
 - Through these projects Mr. McCullough has served as Project Lead to all subordinate members of the team for this project. As such the team has developed a track record of working together effectively.
- Representing cities in MS4 NPDES Permit compliance audits from the Regional Water Quality Control Board. (Seal Beach 2006, 2010, Stanton 2010, 2014, Big Bear Lake 2007.)
- Developing 1) watershed-based compliance plans for wet and dry weather TMDLs for Metals, Toxics, Bacteria, and Trash (Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watersheds: 2013-2016), 2) municipal Stormwater Quality Management Programs (Stanton 2011, Villa Park 2015) and 3) SWPPPs (Downey, Norwalk, Lynwood, Pico Rivera, West Covina: 2011-2016).
- Leading hundreds of municipal training sessions in MS4, IGP, CGP, and Drinking Water System NPDES Permits, as well as SSO spill response and FOG control. (26 municipal clients from 2004-2016, covering 3 State Water Board Regions and 5 Phase I MS4 Permits.)

Watershed Management: Mr. McCullough served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included identifying water quality priorities, evaluating existing control measures, developing new control measures and compliance schedules, and providing quantitative reasonable assurance to attain water quality standards. He has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach.

Through representation of municipal clients' stakeholder interests, Mr. McCullough has also participated in the development of watershed management programs and monitoring programs for the Los Cerritos Channel, Dominguez Channel, Upper Los Angeles River, and Upper San Gabriel River (2013-present).

Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR

Director

11 Years of Experience in Water Quality

Education

M.S., Environmental Science, CSUF

B.S., Zoology, Cal State Poly Pomona

Certifications

CPSWQ, Envirocert (#0845)

QSD/QSP, CASQA (#22731)

CGP Trainer of Record, CASQA

Jillian Brickey has eleven years of experience in environmental management, specializing in stormwater and watershed management and water conservation. Her relevant experiences include implementing and managing NPDES municipal Permit programs for Low Impact Development, Development Construction, and TMDL/watershed management. Tasks include includes plan review and approval, reporting, training municipal staff in program implementation, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Ms. Brickey serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. NPDES Permits managed include all elements of the MS4 and CGP Permits, including erosion/sediment control and Low Impact Development (LID) for construction projects, and TMDL implementation for water bodies impaired by trash, metals, toxics, and bacteria. Through these management activities, she has:

- Represented cities in MS4 NPDES Permit New Development compliance audits from the Regional Water Quality Control Board. (Seal Beach: 2010, 2015, Stanton: 2010).
- Developed TMDL compliance plans for Metals, Toxics, Bacteria, and Trash. (Lower Los Angeles River, Lower San Gabriel River, Long Beach Nearshore Watersheds: 2013-2016.)
- Served as primary contact with clients and represented their interests when interacting with regulators. (Covina, La Habra, Seal Beach, South Pasadena, Stanton, Pasadena, West Hollywood).
- Developed Stormwater Quality Management Programs (Seal Beach: 2011), LID compliance guideline documents (Gateway cities, 2014), and LID ordinances (2014).
- Held CGP QSD/QSP training as a CGP ToR (Pasadena, 2016) and led over one hundred municipal training sessions in MS4 and CGP Permits. (Over 20 municipal clients: 2008-2016).
- Reviewed on behalf of municipal clients hundreds of LID Plans, WQMPs, and SWPPPs and verified proper installation and maintenance of hundreds of LID BMPs.
- Supervised JLHA plan checking staff.

Watershed Management: Ms. Brickey served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River and Lower San Gabriel River Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included evaluating existing control measures and developing new control measures and compliance schedules to achieve water quality standards. She also oversaw the development and implementation of LID ordinances as required by the WMP development process. This included preparing a LID Ordinance Equivalency Demonstration for the City of Long Beach.

She has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach. Through representation of municipal clients' stakeholder interests, Ms. Brickey has also participated in the development of watershed management programs and monitoring programs for the Upper Los Angeles River, Upper San Gabriel River, and Peninsula Cities Watershed Groups (2013-present).

Michelle Stafffield, MSE, CPSWQ, QSD

Water Resources Engineer

11 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount
B.S., Ecology, Behavior, & Evolution, UCSD

Certifications

EIT #141553, NCEES
CPSWQ, Envirocert (#1136)
QSD, CASCA (#26529)

Michelle Stafffield has managed a variety of water quality improvement programs throughout Southern California. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, TMDL compliance, public information and participation, and representing clients at meetings. She is also involved in the development and review of Water Quality Management Plans (WQMPs), Standard Urban Stormwater Mitigation Plans

(SUSMPs), and Watershed Management Programs.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including the preparation of Trash TMDL studies and compliance reports.
- Assisting in MS4 Permit Project Management for the Cities of South Gate and Signal Hill. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Lower Los Angeles River and Lower San Gabriel River Watershed Management Groups.) Tasks include administering meetings, managing subcontractors, and preparing the watershed Annual Report.

Michelle Kim, MSE, CPSWQ, QSD, EIT

Project Manager/Project Engineer

11 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount

B.S., Environmental Science, UC Berkeley

B.A., Public Health, UC Berkeley

Certifications

EIT, NCEES (#141554)

CPSWQ, Envirocert (#1134)

QSD, CASQA (#26504)

Grade 3 Laboratory Analyst, CWEA (#130133001)

Michelle Kim has eleven years of experience in the water quality industry, which includes potable water, wastewater, and storm water. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, and TMDL compliance. She is involved in the development and review of Water Quality Management Plans (WQMPs), Low Impact Development (LID) Plans, and Standard Urban Stormwater Mitigation Plans (SUSMPs). Michelle's past experience includes work with the Orange

County Sanitation District involving treatment processes, laboratory analyses, and monitoring of wastewater and source control.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, and South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including review of Bacteria TMDL monitoring data for Jurisdiction 7 of the Santa Monica Bay, reconsideration of the Machado Lake nutrients TMDL, and preparation of the final compliance report for the Machado Lake Trash TMDL.
- Assisting in MS4 Permit Project Management for the Cities of Hawthorne, Lomita, and Rancho Palos Verdes. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Palos Verdes Peninsula Watershed Management Group.) Tasks include administering meetings, managing subcontractors, and preparing the Watershed Annual Report.

Hugo Garcia, CESSWI, QSP
Environmental Compliance Specialist II

Education

B.S., Environmental Science, UCR

Certifications and Training

CESSWI, Envirocert (#4769)

QSP, CASQA (#26091)

Professional Certificate in GIS

24 Hour HAZWOPER

Basic Inspector Academy, Cal EPA

Spanish fluency

Hugo Garcia has six years of experience with John L. Hunter & Associates, specializing in NPDES and Industrial Waste/FOG Control regulations. His experiences include MS4 compliance of the Public Information and Participation, Industrial/Commercial, Construction, Public Agency, and Illicit Connections & Illicit Discharge Elimination Programs. In addition, Hugo provides assistance with TMDL implementation and serves as the lead GIS Specialist providing spatial analysis to clients in the Los Angeles and Orange counties.

Recent Experience and Project Qualifications

Mr. Garcia currently serves as an Environmental Compliance Specialist II whose responsibilities include field compliance inspections for local cities (La Habra, South Gate, and Whittier), and providing assistance with the implementation of the several Watershed Management Programs in the Los Angeles County. Specific examples of these and past qualifications include:

- Conducting over 2,000 NPDES compliance inspections at Industrial/Commercial (i.e. auto, restaurant, nursery), and State-permitted construction sites
- Assisting with the implementation and reporting of the LA River's Trash TMDL DGR Study
- Assisting with the development of the Lower LA River Watershed Management Group Trash Monitoring Reporting Plan (TMRP).
- Assisting with the development of a Stormwater Pollution Prevention Plan (SWPPP) for both Signal Hill and West Covina facilities, as required by the State's Industrial General Permit (IGP) program.
- Developing and maintaining GIS databases of 1) MS4 outfall locations with and without Non-Stormwater Discharges, 2) retrofitted catch basin storm drain systems, and 3) potential sites for multi-agency, multi-watershed low impact development (LID) regional projects throughout the Los Angeles River and San Gabriel River watersheds
- Reviewing preliminary plumbing plans for new development and tenant improvement projects at Industrial Waste/FOG facilities in the cities of Arcadia, Signal Hill, South El Monte, South Gate, and Stanton
- Preparing a Spill, Prevention, Control, and Countermeasure (SPCC) Plan for the City of South Gate's Corporation Yard and providing training

Rosalinda Tandoc, PE
Staff Civil Engineer

Overview

Ms. Tandoc has over 30 years of experience reviewing and approving structural and architectural plans. Her specialty lies in reviewing and approving such plans for compliance with Permits (including MS4), City ordinances (including LID and Green Streets/Fats, Oils, and Grease/Industrial Waste/Erosion Control), Building Codes, and other State Laws. At JLHA, she has been instrumental in expediting plan review and approval for issuance of permits, interacting with clients to troubleshoot project development problems, and expediently facilitating completion of client projects. She has done this for all of JLHA's past and current clients, which now includes 23 cities.

Education

Master of Science in Civil Engineering
California State University, Long Beach

Certifications and Licenses

CA Registered Civil Engineer

Related Experience**With JLHA
(Starting 2006)**

- Reviews structural and architectural plans and residential and large and complicated buildings for compliance with the MS4 Permit, City Ordinances and State Law.
- Interacts with developers to facilitate completion of their projects
- Worked with the Principal in investigating problems presented to them.
- Code Consultant

Prior Experience:

- Los Angeles County Department of Public Works Building and Safety Division (1979 – 2006)
- Coordinated with local agencies in expediting the issuance of permits
- Assisted Permit Technician in solving problems that he or she may have incurred in the processing of permits and other related problems that need to be resolved at the counter.
- Assisted the City in developing ways and methods of expediting the processing of plans for issuance of permits.
- Assisted the City in developing plans and methods for effective office organization in the City Building Department in working with the City Planning Department.

Personal Advancement Courses

Engineering Management
Communication
Diversity Training
Business and English Writings
Supervisory Management

Achievements/Volunteer Works

Outstanding Woman of 1998, City of Cerritos
Greater Long Beach Girl Scout Council
Cerritos Senior Center, City of Cerritos
St. Linus Parish, Norwalk, CA
Cathedral of Our Lady of the Angels, Los Angeles

KINNETIC LABORATORIES, INC.

SELECTED PAST PROJECTS, WATER QUALITY & STORMWATER

Watershed NPDES Stormwater Monitoring. Kinnetic Laboratories is presently carrying out NPDES stormwater monitoring projects for the Lower Los Angeles River, Los Cerritos Channel, Lower San Gabriel River, and the City of Long Beach Estuarine Watersheds along with assisting CH2MHill with field monitoring in the Upper San Gabriel River Watershed. This new work is designed to be in compliance with both the Los Angeles and the City of Long Beach's new Stormwater Permits and has been approved by the Regional Water Quality Control Board. The program is designed to obtain precision contaminant loading data by use of flow composited sampling of complete hydrographs along with chemical and toxicity analyses. An innovative approach is being implemented to obtain flow composited samples under ultraclean protocols for bioaccumulative organic compounds along with high-resolution Mass Spectral analyses in order to obtain loading of these contaminants to San Pedro Bay, thus addressing the Harbor Toxics TMDL requirements. Support for BMP designs for the associated Water Management Plan is also being furnished. Gateway Water Authority and City of Long Beach. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net ; Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com ; and Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov .

City of Long Beach NPDES Stormwater Monitoring Program. Dr. Kinney initially served as project manager for this program, then subsequently provided operational support to Mr. Stevenson as Manager. Kinnetic Laboratories has been the contractor for the City of Long Beach's NPDES storm water monitoring program since its inception fifteen years ago. This program involves instrumentation and monitoring of the City's storm water discharges, determinations of effects to harbor receiving waters, and extensive support for TMDL issues and permit renewal negotiations. In addition to providing guidance to BMP programs, a key contribution has been obtaining a fifteen year record of precision contaminant loading data critical to TMDL issues. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Los Cerritos Creek TMDL Studies, City of Long Beach. An example of the ability to obtain good load data as described above, for TMDL support, Mr. Stevenson was able to calculate site-specific metal translators based upon methods of the USEPA (1996) guidance document using the precision 12 year monitoring data for this watershed, backed by accompanying toxicity data. Instead of the simple regression calculation used in the original TMDL model, this more accurate method takes into account high suspended solids present in storm water runoff, resulting in the potential for metal Waste Load Allocations (WLAs) to be increased by a factor of 1.5 for copper, 12.5 for lead, and 2.4 for zinc. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Design Comprehensive Integrated Monitoring Program (CIMPs) for Lower San Gabriel, Los Cerritos Channel, and Lower LA River Watershed Technical Committees. Dr. Kinney assisted Mr. Stevenson in the preparation of Comprehensive Monitoring Programs for the Lower Los Angeles River, Lower San Gabriel River, and Los Cerritos Channel urban watersheds that include Cities from Downey, Lakewood, Compton, and Long Beach which drain into the San Pedro Bay harbor complex. This program is designed for implementation to fulfill requirements of the new stormwater permits and incorporate associated TMDL

requirements. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net and Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Dry Weather Flow & Water Quality LID Methods Study (Proposition 84), Gateway Water Authority. Dr. Kinney developed flow and water quality methods as part of implementing Los Cerritos Channel Watershed Segmentation and LID Planning to support TMDL actions. Special low-flow monitoring methods were designed and proven by a pilot study and reported to the State RWQCB for general use. Dry weather monitoring was carried out in the main Los Cerritos, Wardlow, Clark, Del Amo and Palo Verde Channels to provide key data for identification of primary sources of dry weather pollutant loads and for LID planning purposes. Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Cabrillo Beach Bacteria Studies. Kinnetic Laboratories researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their hydrodynamics, field source studies, and molecular markers showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have significant human contributions. Subsequent independent studies by the Port vindicated the local hydrodynamic results of the study and proved conclusively that enhanced circulation by small pumps was not a solution. Working with Jeff Soller of Soller Environmental, the recommended action by Kinnetic Laboratories was to consider a Natural Source Exclusion and a Quantitative Microbial Risk Assessment study to show that not only were human sources not present, but that other pathogens were not a problem. John Foxworthy (Deceased), Port of Los Angeles.

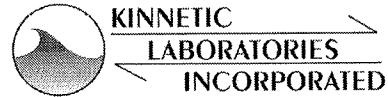
Central Coast Long Term Environmental Assessment Network (CCLEAN), Monterey Bay Regional Monitoring Program. (CCLEAN) is long-term a regional monitoring program in the Monterey Bay area focused on water quality issues, with an emphasis on measuring contaminant inputs from point and non-point sources and determining the effects of those contaminants, including exceedances of water quality and biological tissue criteria, effects on biological communities, and effects on the health and mortality of sea otters. Responsible for field studies in the project team, Kinnetic Laboratories uses state-of-the-art sampling and analytical methods, such as solid-phase extraction techniques, to measure flow-proportioned low concentrations of persistent organic pollutants from four rivers, four wastewater treatment plants, and from specially designed offshore moored samplers in Monterey Bay. Measurements of bioaccumulation in resident mussels at shoreline locations are also determined. City of Watsonville and Applied Marine Sciences. Barbara Pierson, 831-768-3179, bpierion@ci.watsonville.ca.us, Dane Hardin AMS, 831-426-6326, hardin@amarine.com.

Calleguas Creek TMDL Watershed Monitoring Program. The Calleguas Creek Watershed Total Maximum Daily Load Monitoring Program addresses four TMDL actions at present and is designed to begin the required monitoring to obtain data to support development of Implementation Plans to achieve water quality objectives. Working with Larry Walker Associates, Dr. Kinney set up and implemented field sampling operations in the program, submission of laboratory samples, does tracking and managing analytical testing, and carries out data management and quality evaluations. Validated data is delivered in the form of a modified SWAMP database. Larry Walker Associates, Mack Walker, 530-753-6400, mackw@lwa.com.

CALTRANS Stormwater Studies. Kinnetic Laboratories has monitored over 79 stormwater stations each for multiple years for Caltrans, spread from Redding in the north to San Diego in the south utilizing full telemetry network control. This resulted in over 1000 storm events with over 95% success, over 90% storm capture, and high quality validated data including excellent mass balances across BMP pilots being evaluated. This work included 12 sites for Runoff Characterization, 31 Biofilter sites, 7 sites for erosion control BMPs, and 29 sites for structural BMP Operations & Evaluations. Major Southern California sites were for BMP evaluations done for RBF Consulting, Scott Taylor, RBF Consulting/Michael Baker International, 949-246-8276, staylor@mbakerintl.com

Port of Los Angeles – Stormwater Monitoring and StormCeptor Evaluation, Berth 100. Berth 100 developments at the Port of Los Angeles involved the construction of a major dock to accommodate large container ships and an adjacent, large paved terminal yard to handle the containers and trucks for shipment. Storm water drainage from the new container terminal was designed as slot drains which drop into an underground collector storm sewer system. A total of 10 StormCeptor 11000 units were incorporated into this collection system to treat the storm water from the terminal before discharge into the harbor. Kinnetic Laboratories performed storm water discharge monitoring at this Pier 100 facility before and after operations began, and also tested the effectiveness of StormCeptors installed in the drainage system by monitoring both upstream and downstream. Kathryn Curtis (310) 732-3571; kcurtis@portla.org .

PATRICK KINNEY, Ph.D.
Principal



RESPONSIBILITIES

Dr. Kinney serves as a Project Manager/Project Principal for numerous oceanographic and environmental applied projects as well as serving as CEO of Kinnetic Laboratories Inc.

EXPERIENCE

Dr. Kinney received his Ph.D. in Chemical Engineering from Iowa State University, had experience as a research engineer for Phillips Petroleum, and later worked on hydrodynamic design modeling of clustered engines for the moon rocket program. He did a Postdoctorate in Oceanography at Scripps Institution of Oceanography, University of California, San Diego working in the Food Chain Research Group. Dr. Kinney was a tenured faculty member in Marine Sciences at the University of Alaska, Institute of Marine Sciences.

Dr. Kinney founded Kinnetic Laboratories, Inc. 40 years ago as an environmental and oceanographic services firm with the express purpose of providing good, quantitative scientific data on key issues to support applied projects - data for design, monitoring, compliance, and permitting. Dr. Kinney has carried out thousands of projects and contributed environmental improvements and practices while supporting necessary infrastructure, facility, and resource utilization developments.

Dr. Kinney began managing stormwater monitoring projects in the late 80's with the urban watersheds of the Santa Clara Valley Water District. For this project, and for a following project for Alameda County, Dr. Kinney developed basic study designs and field study techniques that served as prototypes and influenced the original USEPA storm water regulation issued in 1991. Dr. Kinney, working with Marty Stevenson implemented these initial studies which won EPA Awards of Excellence. Early development of overall urban watershed approaches coupled with flow-composited sampling allowed contaminant load data to be obtained. The use of automated sampling equipment modified for clean sampling protocols, driven by flow sensors facilitated the collection of precision contaminant load determinations. Large composite samples obtained in clean borosilicate glass bottles allowed for subsequent chemical analyses and also toxicity testing. Early use of telemetered controlled urban stormwater stations advanced the success of good data collection, particularly allowing full storm capture necessary to load determinations. Early on, he could also network stormwater stations over large watersheds and geographical areas. For BMP effectiveness studies, multiple samplers measuring in and out of a structural BMP could be controlled, the data transmitted by one site master, and then be controlled and data transmitted to a central Storm Control center where the data collection would be managed and who also could dispatch field crews as necessary.

Dr. Kinney subsequently served as a project manager or Principal on over twenty different large urban stormwater monitoring studies, many of which were set up for Cities or Counties for their continuing operation. Some pertinent project examples that Dr. Kinney and Mr. Stevenson have carried out follow. For example, using the equipment and protocols developed above, Dr. Kinney managed the monitoring of over 79 stormwater stations each for multiple years for Caltrans, spread from Redding in the north to San Diego in the south utilizing full telemetry network control. This resulted in over 1000 storm events with over 95% success, over 90% storm capture, and high quality validated data including excellent mass balances across BMP pilots being evaluated. This work was done as a Prime Contractor for Caltrans (\$8 million contract) and as a subcontractor to other engineering firms (RBF Consulting, Geomatrix, Brown & Caldwell, URS, Law Crandall, etc.). Work included those for runoff characterization and load determinations (12), for biofilter BMP testing (31), for erosion control BMPs (1), and for a whole array of differing structural BMPs (28).

Dr. Kinney initially served as project manager for the City of Long Beach's NPDES Monitoring Program, then subsequently provided operational support to Mr. Stevenson as Manager. Kinnetic Laboratories has been the contractor for the City of Long Beach's NPDES storm water monitoring program since its inception fourteen years ago. This program involves instrumentation and monitoring of the City's storm water discharges, determinations of effects to harbor receiving waters, and extensive support for TMDL issues and permit renewal negotiations. In addition to providing guidance to BMP programs, a key contribution has been obtaining a fourteen year record of precision contaminant loading data critical to TMDL issues.

Recently, Dr. Kinney also developed flow and water quality methods as part of implementing a special Proposition 84 funded study for the Los Cerritos Channel Watershed Segmentation and LID Planning work required by TMDL regulatory actions. Special low-flow monitoring methods were designed and proven by a pilot study and reported to the

State RWQCB for general use. Dr. Kinney is managing Dry weather monitoring studies now being carried out in the Los Cerritos, Wardlow, Clark, Del Amo and Palo Verde Channels to provide key data for watershed segmentation and LID planning purposes. Dr. Kinney also worked with Mr. Stevenson in the preparation of Comprehensive Integrated Monitoring Programs (CIMPs) for the Lower Los Angeles River, Lower San Gabriel River, and Los Cerritos urban watersheds. He supervised the field reconnaissance, including inspecting outfalls and developing a database for locations, sizes, and initial dry weather observations. This program is designed for implementation to fulfill requirements of the new stormwater permits and incorporate associated TMDL requirements.

Working with Larry Walker Associates, Dr. Kinney also set up the field monitoring logistics and implemented all field studies for the Calleguas Creek TMDL Watershed Monitoring Program and serves as Project Principal for these field and laboratory tasks. The Calleguas Creek Watershed Total Maximum Daily Load Monitoring Program addresses four TMDL actions at present and is designed to begin the required monitoring to obtain data to support development of Implementation Plans to achieve water quality objectives. The work includes all field sampling operations required in the watershed, submitting samples to designated laboratories, the tracking and managing analytical testing, and the carrying out data management and quality evaluations. Validated data is delivered in the form of a modified SWAMP database format

Working with Applied Marine Sciences, Dr. Kinney is also Project Principal for field studies for the Central Coast Long Term Environmental Assessment Network (CCLEAN). This is a long-term regional monitoring program in the Monterey Bay area focused on water quality issues, with an emphasis on measuring contaminant inputs from point and non-point sources. Determining contaminants and exceedances of water quality and biological tissue criteria is a goal, along with effects on biological communities as well as effects on the health and mortality of sea otters. Responsible for field studies in the project team, Kinnetic Laboratories uses state-of-the-art sampling and analytical methods, such as solid-phase extraction techniques, to measure flow-proportioned low concentrations of persistent organic pollutants from four rivers, three wastewater treatment plants, and from specially designed offshore moored samplers in Monterey Bay. Measurements of bioaccumulation in resident mussels at shoreline locations are also determined.

Separately Dr. Kinney also has been Project Manager or Project Principal for hundreds of dredge material studies carried out since 1977 according to USEPA and USACE protocols. Projects have resulted in characterization and or remediation of over 150 million cubic yards of dredge sediments, with the majority beneficially reused for construction of new port facilities or if suitable, for beach replenishment or for wetland restorations. Projects included serving on the Project Design Teams for major Port of Los Angeles capital development projects including Pier 400, the channel deepening project, the Southwest Slip development, the recent Port-wide maintenance dredging project, and later for design of a remediation project at the Consolidated Slip superfund site. Dr. Kinney authored the overall Contaminated Sediment Management Plan for these and associated maintenance and harbor clean-up projects. These projects involved creation of a shallow water habitat of capped dredged material, confined disposal facilities developed into terminal facilities, an in-harbor underwater temporary sediment storage facility, and selective upland disposal.

He also served as Project Manager for sediment characterization studies for the proposed San Francisco International Airport expansion of runways into San Francisco Bay as well as Project Manager for sediment characterizations and ecological risk assessments for the large wetland restoration project at Bolsa Chica. Dredge projects this year have included all the sediment sampling, chemical and biological testing, data evaluation and reporting, including suitability determinations for reuse/disposal alternative for Oceanside, Dana Point, Port of Los Angeles federal channel maintenance, Los Angeles River estuary channels, Huntington Harbor, Port of Richmond, Coast Guard Station Alameda. He has managed multiple year contracts for the U.S. Army Corps of Engineers (Los Angeles, San Francisco, Sacramento Districts), including work in the Sacramento and Stockton Deep Water Ship Channels and the Federal channels in San Diego Bay.

Dr. Kinney has also designed, managed, and carried out hundreds of applied environmental projects in coastal, estuarine, rivers, lakes and ports and harbors. He developed extensive capabilities for contaminated sediment and dredge material studies. Dr. Kinney has also served as a principal investigator on more than 75 NPDES monitoring studies involving effects of point source discharges, such as the Municipality of Anchorage's (MOA) John M. Asplund Wastewater Treatment Facility, as well as other studies involving nonpoint discharges of spills and hazardous materials, such as the T/V *Exxon Valdez* oil spill (EVOS). Kinnetic Laboratories was asked to set up the EVOS monitoring program immediately after the spill including the complicated logistics for working in these coastal areas of Alaska. During the EVOS scientific response, he designed and/or provided doctorate-level support for a variety of programs involving water and sediment quality, fate and effects, and clean-up and treatment efficacy studies. NPDES projects have also been located in Alaska as well as the Lower 48 and have involved major wastewater outfalls for cities such as San Diego, San Francisco, Oakland, and San Jose. He now is working on several coastal desalination projects in California that involve seawater intakes and brine discharges associated with wastewater outfalls or power

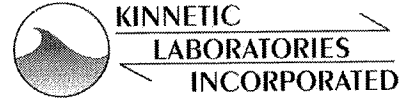
plant cooling water discharges. He also has worked on large power plant marine water intake hydrodynamics and plankton entrainment problems, including the large San Onofre nuclear plant in California. Dr. Kinney was also project manager for the all marine portions of the City of San Diego Clean Water Program. He was chief author of the marine sections of the EIR/EIS along with the oceanographic, water and sediment quality, geophysical, and marine biology studies to determine impacts of the three wastewater outfall alternatives.

EDUCATION

Post-Doctorate in Oceanography, Scripps Institution of Oceanography, University of California, San Diego; 1966
Ph.D., Chemical Engineering; Iowa State University; 1963
B.S., Chemical Engineering; South Dakota School of Mines; 1957

MARTY STEVENSON, B.S.

Principal, Senior Marine Ecologist and Water Quality Biologist



RESPONSIBILITIES

Mr. Stevenson has been a Principal and Senior Staff Biologist with Kinnetic Laboratories, Inc. (KLI) with 38 years of experience with the firm and now serves as a consultant for stormwater monitoring and regulatory issues, including those associated with new NPDES permits and TMDL actions. He specializes in water quality, nonpoint source pollution, and ecological studies in aquatic, estuarine and nearshore marine environments. He serves as project manager for urban stormwater, nonpoint source and NPDES interdisciplinary monitoring studies and as senior scientist in investigations involving general larval and adult fish ecology, population dynamics and toxicology.

EXPERIENCE

Mr. Stevenson has more than 38 years of experience conducting environmental investigations in coastal urban watersheds and in aquatic, estuarine and marine environments. This experience includes studies in throughout California, Hawaii, and Alaska. He has been KLI's lead biologist for fish and macroinvertebrate population and bioaccumulation studies for most of KLI's NPDES monitoring programs, including several in Alaska.

Mr. Stevenson has been Project Manager for the large City of Long Beach NPDES municipal storm water monitoring program that Kinnetic Laboratories has carried out for the past 13 years. He is highly recognized in California as a leading specialist in water quality and corresponding biological effects, particularly working in coastal watersheds and estuarine environments with storm water runoff and TMDL issues. He has pioneered numerous studies and methods relating to storm water monitoring, toxic linkages to biota, and impacts to receiving waters.

Mr. Stevenson pioneered large storm water monitoring programs when Kinnetic Laboratories developed and implemented the first modern municipal storm water program in California in 1988 for the Santa Clara Valley Urban Runoff Program, followed closely with a similar program for the Alameda County Storm Water Program. Both programs received EPA's Awards of Excellence and were models for the 1991 EPA storm water permit requirements. Innovations he implemented in these early programs included customized instrumentation to allow collection of flow-composited samples yielding pollutant load determinations from land-use areas, use of Teflon and glass to achieve clean sampling and low detection limits necessary to address water quality standards, and early integration of toxicity measurements to address biological effects. Another innovation involved telemetered remote control of stormwater monitoring stations to enable the collection of high quality pollutant load data needed by TMDL regulations by ensuring full storm capture of rain events, including successful use at tidal sites for the City of Long Beach.

A recent application of these approaches with even better equipment and techniques has generated a high quality, nine year time-series data set of particulate and dissolved metal data for the Long Beach Cerritos Channel that has allowed Mr. Stevenson to produce a critical evaluation of the particulate to dissolved metal translators of the EPA (Tetra Tech) models now being used to develop TMDL limits for the Ports of Los Angeles/Long Beach. This evaluation shows that the EPA default CTR translators are not applicable to local urban storm waters which are typified by moderate to high concentrations of suspended sediment (48-1700 mg/L). The default CTR translators are roughly 2.5 times greater for both copper and zinc while the default lead translator is 15 times greater. Even the modified lead translator based upon a hardness of 100 mg/L is over 12 times greater than values based upon the actual monitoring data. Similar assumptions are being applied to the Los Angeles River, the San Gabriel River, and Dominguez Channel TMDLs, though site specific water quality standard studies have been available for the Los Angeles River. Kinnetic Laboratories met with the Water Resources Control Board, USEPA, and their contractor TetraTech with regard to these metal issues. Kinnetic Laboratories is also playing a key part with RBF Consultants in a new National Academy sponsored study of metal storm water discharges into receiving waters and of methods for reduction or treatment appropriate to receiving waters.

Mr. Stevenson holds a B.S. in Zoology and a B.A. in Oceanography from California State University, Humboldt and conducted graduate studies at Moss Landing Marine Laboratories. He specializes in water quality and biological effects in receiving waters. Mr. Stevenson thus has years of experience as a water quality biologist and over 20 years experience as a project manager and senior scientist for stormwater municipal, industrial, and BMP evaluation studies. He was recently selected to serve on an expert review panel to provide technical review for the Caltrans stormwater monitoring program. Like Dr. Kinney, Marty has managed numerous major storm water monitoring programs over the

last 20 years such as Santa Clara, San Mateo, and Ventura County monitoring equipment assistance and is currently managing the City of Long Beach's storm water monitoring program. He has carried out a WERF funded pilot study of bio-indicators in Coyote Creek for Santa Clara. He is currently managing a program designed to assess long-term loads of Persistent Organic Pollutants to Monterey Bay at very low concentrations using pumped absorbent columns at four wastewater dischargers and four rivers entering the Bay, including specially designed sampling buoys moored offshore in the Bay. He recently has finished a treatment train, porous pavement BMP evaluation project for the County of San Diego and worked with Dr. Kinney on quantifying pollutant loads and BMP effectiveness at Pier 100, a new terminal facility at the Port of Los Angeles.

He has performed or participated in a wide range of investigations to support development of sound TMDLs. He provided technical support for the development of data necessary for determination of four trace metal TMDLs in the Eagle River watershed for the Municipality of Anchorage (MOA), Alaska. He has also provided technical support for permit monitoring, BMP, and special studies conducted over the years for the MOA in conjunction with the John M. Asplund Wastewater Treatment Facility. He was also the program manager for a special source study to assist in the process of developing TMDLs for mercury and PCB for San Francisco Bay. This study included identification of sources of mercury, PCBs, and organochlorine pesticides in deposited sediments from urban storm water drainages and comparing them with sediments from rural, open land use areas. In Newport Bay, California, he was program manager in support of Orange County's efforts to develop a bacterial TMDL for Newport Bay; includes literature review, resource surveys, evaluation of current beneficial use of the shellfish resources, and assessment of enhancement methods. He is currently helping the County to develop a Use Attainability Assessment to determine if shellfishing in Upper Newport Bay is an attainable beneficial use. Earlier work involved a multiyear study of fish and shrimp populations and water quality for an impact study of wastewater discharges into South San Francisco Bay, followed by water quality investigations designed to assist in development of the first Water Effects Ratios (WERs) approach for Copper in an estuarine habitat that would allow use of site-specific water quality standards in this shallow estuarine area of the Bay.

Mr. Stevenson has been involved in extensive testing of stormwater BMPs as part of a large study for the California Department of Transportation in Southern California. He is also currently conducting the first study on the West Coast to examine performance of six different porous pavement configurations. This same study is performing parallel testing of four different filtration media in a Media Filtration System. Among the media being tested are media that are expected to improve removal of dissolved metals.

EDUCATION

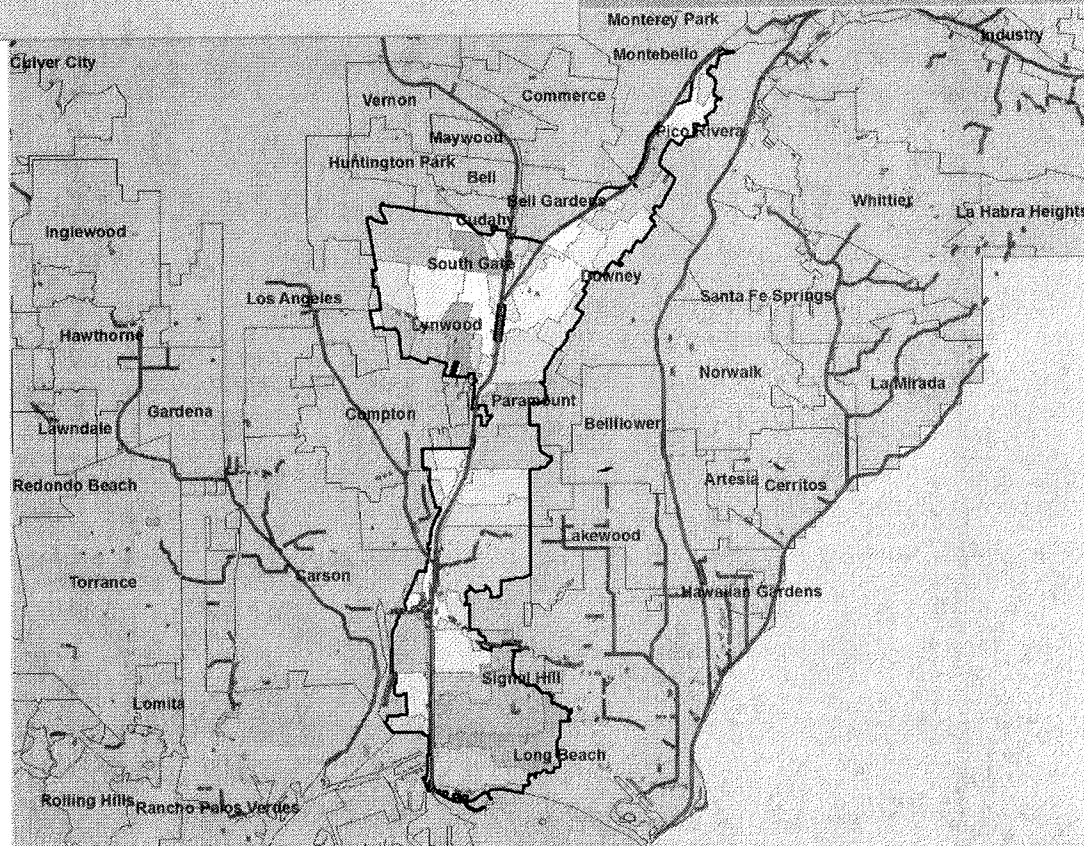
B.A., Biological Oceanography, California State University, Humboldt; 1974
B.S., Zoology, California State University, Humboldt; 1974

ATTACHMENT A-2 TO EXHIBIT A
OTHER PROGRAM TASKS TO BE PERFORMED
FOR THE THIRD AMENDMENT

Attached hereto and incorporated herein is the additional scope of work and associated cost as provided by the Consultant for this Third Amendment.

April 27, 2018

Proposal to Provide CIMP Implementation and WMP/Watershed Management Assistance



Prepared By:

John L. Hunter and Associates
6131 Orangethorpe Ave., Ste. 300
Buena Park, CA 90620
Proposal contact: John Hunter
jhunter@jlha.net | (562) 802-7880 ext. 225



Prepared For:

Gladis Deras, Chair
Lower Los Angeles River Watershed
Management Group
City of South Gate
8650 California Ave
South Gate, CA 90280

Table of Contents

I.	Qualifications and Experience.....	1
A.	Relevant Firm Experience	1
1.	Municipal NPDES Permit Compliance	1
B.	Track Record	3
C.	Staffing Capability and Current Work Load	3
D.	Relevant Staff Credentials.....	3
E.	Proposed Team	4
F.	References	5
II.	Scope of Work.....	6
A.	Watershed Management.....	6
1.	Watershed Management Group administration	6
2.	MS4 Permit negotiations	6
3.	Subcontracted watershed management support services.....	6
B.	Coordinated Integrated Monitoring Program Implementation and Reporting.....	7
1.	CIMP monitoring.....	7
2.	Fifth-term MS4 Permit Monitoring (if necessary).....	7
3.	Source investigations	7
4.	Annual Watershed Report and Semi-annual monitoring reports.....	7
5.	Trash Monitoring and Reporting Plan (TMRP).....	7
6.	Biotic Ligand Model	7
C.	WMP/MS4 Permit Assistance	8
1.	LA River Corridor Study.....	8
2.	Strategic Transportation Plan review and comments	8
3.	Adaptive Management	8
4.	MS4 Permit Assistance.....	8
5.	Workshops and Training	8
6.	Other WMP Assistance	8
III.	Fees	9
A.	Rate Schedule.....	9
B.	Estimated Not-to-Exceed Fee Proposal	10
	Appendix A: Resumes	16

I. Qualifications and Experience

John L. Hunter and Associates, Inc. (JLHA) is an environmental consulting corporation established in 1985 that specializes in serving municipal clients. JLHA's mission is to provide its clients with the expertise necessary to comply with mandated environmental programs, such as NPDES, stormwater and watershed management, industrial waste and fats, oils and grease (FOG) control, water conservation, and recycling. Services provided under these programs include program management, engineering, inspections, monitoring, grant administration, and public education.

A. Relevant Firm Experience

Table 1 lists the municipal NPDES services currently or recently provided by JLHA to municipal clients. The following are summaries of JLHA's experience related to municipal NPDES Permit compliance.

1. Municipal NPDES Permit Compliance

JLHA has considerable experience in Municipal NPDES Permit compliance programs, beginning with the inception of the Phase I MS4 Permits in the 1990s. Currently JLHA implements elements of such programs for 45 cities in the Southland. Services include the following:

- 25 cities and 4 watershed groups: Program administration and/or technical support,
- 33 cities: Field services such as BMP compliance inspections,
- 23 cities: Plan review and approval (e.g., SUSMP/LID Plans, WQMPs, and SWPPPs),
- 32 cities and 3 watershed groups: Reporting (e.g., annual, TMDL, and/or watershed reports), and
- 32 cities and 3 watershed groups: Staff training.

Relevant and recent activities include:

- Representing cities in MS4 NPDES audits conducted by Regional Water Board staff,
- Obtaining and administering grants for stormwater capture and LID projects,
- Managing BMP inspection programs that cover in total approximately 10,000 sites,
- Developing watershed management programs under the area-wide LA MS4 NPDES Permit.

JLHA also served as the lead consultant for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River (LLAR), Lower San Gabriel River (LSGR), City of Long Beach, and Peninsula Cities Watershed Groups, and served as a sub-consultant for the development of the WMP for the Los Cerritos Channel (LCC) Watershed Group. As part of WMP development, JLHA also oversaw the development of Coordinated Integrated Monitoring Programs (CIMPs) for the LLAR, LSGR, and Peninsula Cities Watershed Groups. All plans were approved by the Regional Board in 2015 and 2016. Together the member agencies of these Watershed Groups represent 20 MS4 NPDES Permittees.

JLHA serves as the consultant team lead for the LLAR, LSGR, and Peninsula Cities Watershed Groups. Services include administering monitoring activities, watershed annual reporting, technical committee meetings, and select implementation efforts such as feasibility studies. In this capacity JLHA also regularly interfaces with city councils and Regional Board staff and members. JLHA also represents twelve municipal clients in watershed management groups for the Upper Los Angeles River, Upper San Gabriel River, Dominguez Channel and Los Cerritos Channel. In Orange County JLHA represents six municipal clients in watershed management group planning activities, covering the Coyote Creek/San Gabriel River, Anaheim Bay/Huntington Harbor, and the Santa Ana River watersheds.

Table 1: Summary of Municipal NPDES Services Recently or Currently Provided

Client	First year of service	Years of service	MS4 Permit Control Measures						Watershed				General Services			
			Development	Construction	Municipal Activities	Industrial/Commercial	Illicit Discharge Detection	Public Outreach	Watershed Plan Development	Watershed Plan Implementation	Monitoring	Studies	Reporting	Training	Grants	Program Mgmt. or Support
Arcadia	1995	23	--	x	x	x	x	x	--	--	--	x	x	x	--	--
Artesia	2014	4	--	x	x	x	x	x	--	x	--	--	x	x	--	x
Big Bear Lake	2004	14	--	--	--	x	x	--	--	--	--	--	x	--	--	--
Bellflower	2014	2	--	--	--	x	--	--	--	--	--	--	--	--	--	--
Cerritos	2015	3	--	x	--	--	--	--	--	--	--	--	--	--	--	--
Covina	2008	10	x	x	--	x	--	--	--	--	--	--	--	x	--	--
Diamond Bar	2007	11	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Downey	2011	7	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Fullerton	2017	1	--	--	--	--	--	--	--	--	--	--	x	x	--	x
Glendale	2013	5	--	--	x	--	--	--	--	--	--	x	x	x	--	x
Gateway Water Mgmt. Authority	2012	6	--	--	--	--	--	--	--	--	--	--	--	--	x	--
Hawaiian Gardens	2012	6	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Hawthorne	2000	18	--	x	x	x	x	x	--	--	--	--	x	x	--	x
Inglewood	2015	3	--	--	--	x	--	x	--	--	--	--	x	x	--	x
La Habra	2011	7	x	x	x	x	x	x	--	--	--	--	x	--	--	x
Lakewood	2014	4	--	--	--	x	--	--	--	--	--	--	--	--	--	--
Lomita	2015	3	--	x	x	x	x	x	--	x	--	--	x	x	--	x
Long Beach	2014	4	--	--	--	x	--	--	x	--	--	--	x	x	--	--
LCC Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	--	x	--	x
LLAR Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	x	--	x
LSGR Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	x	--	x
Lynwood	2014	4	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Manhattan Beach	2010	8	--	--	x	x	--	--	--	--	--	--	--	--	--	--
Monterey Park	2005	13	x	x	x	x	x	x	--	x	--	x	x	x	x	x
Norwalk	2010	8	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Paramount	2014	4	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Pasadena	2015	3	x	--	--	x	--	--	--	x	--	--	x	x	--	x
Peninsula Watershed Group	2013	5	--	--	--	--	--	--	x	x	x	--	x	--	--	x
Placentia	2013	5	x	x	x	x	x	--	--	--	--	--	x	x	--	x
Rancho Palos Verdes	1994	24	x	x	x	x	x	x	--	x	--	--	x	x	--	x
Rolling Hills	2009	9	--	--	--	--	--	--	--	--	--	x	x	--	--	--
Santa Fe Springs	2016	2	x	x	--	--	--	--	--	--	--	--	--	--	--	--
San Gabriel	2017	1	--	--	x	--	--	x	--	--	--	--	x	x	--	x
Seal Beach	2005	13	x	x	x	x	x	x	--	--	--	--	x	x	x	x
Signal Hill	1985	33	x	x	x	x	x	x	--	x	--	x	x	x	--	x
South El Monte	2017	1	x	--	x	x	x	x	--	x	--	x	x	x	--	x
South Gate	1991	27	x	x	x	x	x	x	--	x	--	x	x	x	x	x
South Pasadena	2005	13	--	x	x	x	--	x	--	x	--	x	x	x	--	x
Stanton	2007	11	x	x	x	x	x	x	--	--	--	--	x	x	x	x
Temple City	2003	15	x	x	x	x	x	x	--	x	--	x	x	x	--	x
Villa Park	2013	5	x	x	x	x	x	x	--	--	--	--	x	x	--	x
West Covina	2015	3	x	x	x	x	x	x	--	x	--	--	x	x	--	x
West Hollywood	1995	23	x	x	x	x	x	--	--	--	--	x	--	x	--	--
Whittier	2014	4	--	x	x	x	x	x	--	x	--	--	x	x	--	x
TOTALS out of 44 agencies			22	27	28	33	25	25	5	22	4	10	35	35	5	32

B. Track Record

JLHA has aided municipalities in compliance with NPDES MS4 Permit provisions since their first issuance in the 1990s. Since that time JLHA has maintained a track record of meeting project schedules and providing project deliverables on-time, on-budget, and to client's satisfaction. This may be verified by contacting JLHA's existing and past clients, including those listed in the References Section of this proposal. Another metric for JLHA's ability to meet project schedules is through its success in representing clients in Regional Water Board NPDES Program audits. These audits included detailed reviews of records for NPDES sub-programs managed and implemented by JLHA Project Teams. Of the many Regional Water Board NPDES Program audits that JLHA personnel participated in, none resulted in enforcement actions. JLHA's success in meeting project schedules is also evident in its existing clients' previous NPDES annual reports, which tabulate program deliverables such as inspections, plan checks, and TMDL reporting.

C. Staffing Capability and Current Work Load

JLHA staffing is at 25, consisting of 20 full-time staff and 5 part-time staff. This includes 1 principal, 2 directors, 5 project managers, 5 engineers, 7 field inspectors, 4 project analysts, and 3 administrative staff. All staff operate out of JLHA's office at 6131 Orangethorpe Ave, Suite 300, in Buena Park, California. JLHA subcontracts additional services as-needed such as water quality monitoring and laboratory analysis, outfall screening, construction management, and computational analysis. The Project Team listed in the following section will be available to provide any requested services throughout the term.

D. Relevant Staff Credentials

Staff credentials include certified professionals in engineering, stormwater quality, BMP (Best Management Practice) inspection, erosion control, SWPPP development and implementation, and environmental assessment. Table 2 lists specialized credentials that are held by JLHA staff. The experience, credentials and education of the key staff members are included in the Resumes Section of this proposal.

Table 2: Specialized Credentials held by JLHA Staff

Credential	Credential Description
CPSWQ	Certified Professional in Stormwater Quality
CESSWI	Certified Erosion, Sediment and Stormwater Inspector
QSD	Qualified SWPPP Developer (Construction)
QSP	Qualified SWPPP Practitioner (Construction)
QISP	Qualified Industrial Stormwater Practitioner
CGP ToR	Trainer of Record for the NPDES Construction General Permit
IGP ToR	Trainer of Record for the NPDES Industrial General Permit
ECI	Environmental Compliance Inspector

E. Proposed Team

Table 3 lists the roles of the Project Team. Qualifications of the Project Team are included under the Resume section.

Table 3. Project Team Roles

Project Title		Team Member Information	
Core Team	Principal-in-Charge	Name	John Hunter, PE
		Roles	Point-of-contact, project oversight
	Project Manager	Name	Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR
		Roles	Point-of-contact, project development
	Project Manager	Name	Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR
		Roles	Point-of-contact, project development
	Assistant Project Manager	Name	Michelle Staffield, MSE, CPSWQ, QSD/P
		Roles	Point-of-contact and watershed management project delivery
	Monitoring Lead	Name	Pat Kinney, PhD (subcontractor KLI)
		Roles	Point-of-contact and CIMP project delivery
Extended Team	Project Analyst	Name	Hugo Garcia, CESSWI, QSP
		Roles	Project development, watershed planning
	Field Operations Manager	Name	Jose Rodriguez, CESSWI, QSP, QISP
		Roles	Supervise outfall screening program and illicit discharge response
	Senior Engineer	Name	Michelle Kim, MSE, CPSWQ, QSD/P
		Roles	Project development, engineering
	Staff Engineer	Name	Rosalinda Tandoc, PE
		Roles	Project review, engineering
	Watershed Planning	Name	Richard Watson (Subcontractor RWE)
		Roles	As-needed watershed management planning

F. References

Table 4 is a list of JLHA clients that receive services similar to those listed in the Table 1. The table includes contact information and the relationship between key staff listed in this proposal and services provided to the referenced client. Additional references are available at the request of the City.

Table 4: References

Agency Name	Data Field	Reference Information	JLHA Project Manager
Downey	Name/Title	Mohammad Mostahkami, Director of Public Works	John Hunter
	Address	11111 Brookshire Ave, Downey, CA 90241	
	Phone/email	(562) 904-7102, mmostahkami@downeyca.org	
Long Beach	Contact/Title	Melissa You, Stormwater Compliance Officer	Jillian Brickey
	Address	333 W Ocean Blvd, Long Beach, CA 90802	
	Phone/email	(562) 570-5524, Melissa.You@longbeach.gov	
Seal Beach	Contact/Title	Steve Myrter, Public Works Director	Jillian Brickey
	Address	211 8th Street, Seal Beach, CA, 90740	
	Phone/email	(562) 431-2527, smyrter@sealbeachca.gov	
Signal Hill	Contact/Title	Grissel Chavez, Deputy Director of Public Works	John Hunter/ Michelle Stafffield
	Address	2175 Cherry Avenue, Signal Hill, CA 90775	
	Phone/email	(562) 989-7251, gchavez@cityofsignalhill.org	
South Gate	Contact/Title	Arturo Cervantes, Public Works Director	Michelle Stafffield
	Address	8650 California Ave, South Gate, CA 90280	
	Phone/email	(323) 563-9512, acervantes@sogate.org	
Stanton	Contact/Title	Allan Rigg, Director of Public Works	Cameron McCullough
	Address	7800 Katella Ave, Stanton, CA 90680	
	Phone/email	(714) 890-4204, arigg@ci.stanton.ca.us	
Temple City	Contact/Title	Andrew Coyne, Management Analyst	Cameron McCullough
	Address	9701 Las Tunas Dr, Temple City, CA 91780	
	Phone/email	(626) 285-2171 ext. 4344	

II. Scope of Work

JLHA welcomes the opportunity to provide professional watershed management and CIMP implementation services to the Lower Los Angeles River Watershed Management Group (WMG). This section details the work plan for completing the scope of work requested by the Group. The timeframe of this proposal is for a period of two years from July 1, 2018, to June 30, 2020. The services may be extended for additional three years upon written agreement by the WMG and JLHA. The estimated costs are included in Tables 5 to 9.

A. Watershed Management

This section describes tasks related to watershed management activities outside of CIMP implementation and WMP assistance, which are addressed in the subsequent sections of this Scope of Work.

1. Watershed Management Group administration

JLHA will facilitate regular meetings and communication between WMG members, Regional and State Water Boards, and other watershed groups and stakeholders, which are critical to the tasks outlined in this scope of work. This task will include holding bimonthly meetings of the watershed group's technical committee, as well as scheduling, coordination, and preparing agenda and meeting minutes. Also included in this task is the development of MOA/MOU cost-shares for WMP and CIMP implementation activities.

2. MS4 Permit negotiations

The LLAR ROWD was submitted in June 2017, and the current MS4 Permit expired December 28, 2017. Within the term of the scope of work, the Regional Board may provide comments on the ROWD that warrant a response from the watershed group. In addition, the WMG may wish to provide comments and/or negotiate with Regional Board staff on the next draft MS4 Permit, which could be released within the term of the scope of work. A budgetary allotment is included for these services.

3. Subcontracted watershed management support services

Additional support for the tasks listed in this section will be conducted by subcontractor Richard Watson & Associates, Inc. (RWA). RWA's relevant company information is included in the Resumes section of this proposal and their estimated cost is incorporated into the Cost Proposal. The WMG will be asked to approve any other subcontractors selected by JLHA prior to start of work.

B. Coordinated Integrated Monitoring Program Implementation and Reporting

The Coordinated Integrated Monitoring Program (CIMP) was approved by the Regional Board during the summer of 2015. The watershed is required to continue implementing the CIMP.

1. CIMP monitoring

CIMP monitoring will be conducted by subcontractor Kinnetic Laboratories, Inc. (KLI). KLI's relevant company information is included in the Resumes section of this proposal and their estimated cost to provide monitoring services is included in the Cost Proposal. Activities under this task include:

- Site evaluation (if necessary)
- Dry and wet weather sampling following LLAR CIMP protocol.
- Analysis and reporting, including the Watershed Annual Report
- Meetings with Regional Board or other applicable agencies and stakeholders
- Preparation of extension agreement for monitoring laboratory

2. Fifth-term MS4 Permit Monitoring (if necessary)

The fifth-term MS4 Permit may be adopted within the timeframe of this proposal. A budgetary allotment is included to account for additional monitoring that may be required beyond the current CIMP.

3. Source investigations

The first round of source investigations was completed in 2017. Additional outfall screening and source investigations may be required within the timeframe of the scope of work. A budgetary allotment is included for this service. Source investigations may be provided by JLHA or subcontractor. The WMG will be asked to approve the selected subcontractor prior to start of work.

4. Annual Watershed Report and Semi-annual monitoring reports

KLI will prepare and submit the semi-annual CIMP monitoring results required by the MS4 Permit Monitoring and Reporting Program. JLHA and KLI will prepare the Annual Watershed Report. This will include collecting and assembling data from participating agencies using the WRAMPS reporting system.

The Watershed Annual Report will include a first draft at least one month prior to final submittal to the Regional Board. The scope of work deadlines are dependent upon timely responses (less than one month) from individual entities. Although JLHA will endeavor to prepare an Annual Report that complies with the requirements of the Regional Water Quality Control Board, the Board's assessment of the Report in terms of MS4 NPDES Permit compliance depends on the information provided by the individual WMG members.

5. Trash Monitoring and Reporting Plan (TMRP)

JLHA will incorporate the December 2017 comments provided by the Regional Board on the Draft TMRP and will resubmit the TMRP to the Regional Board for final approval. A budgetary allotment for TMRP monitoring has also been included, as the Regional Board may require the WMG begin this monitoring within this term of services. TMRP monitoring will be provided by a qualified subcontractor. The WMG will be asked to approve the selected subcontractor prior to start of work.

6. Biotic Ligand Model

A budgetary allotment is included to collect data to conduct a Biotic Ligand Model (BLM). The BLM provides a more accurate assessment of copper toxicity.

C. WMP/MS4 Permit Assistance

WMP/MS4 Permit assistance tasks are included in this section of the scope of work.

1. LA River Corridor Study

This task is to support ongoing projects along LA River as identified in the Corridor Study.

2. Strategic Transportation Plan review and comments

JLHA will review the current Gateway Strategic Transportation Plan (STP) and its state of implementation for green street incorporation. JLHA will provide a report of the review to the WMG for potential inclusion in the Watershed Annual Report and provide recommended changes to the stormwater component of the STP if necessary. JLHA will also integrate potential water quality projects listed in the STP into the WMG's inventory of potential WMP projects.

3. Adaptive Management

JLHA will initiate the 2019 WMP Adaptive Management process as outlined in the MS4 Permit. JLHA will also provide changes to the WMP for consideration by the WMG and eventual approval by the Regional Board

4. MS4 Permit Assistance

Should the next MS4 Permit be approved within the time frame of the proposed work, JLHA is available to review, evaluate, and provide technical summaries on the approved Permit.

5. Workshops and Training

JLHA is available to provide MS4 NPDES training on relevant topics agreed upon by the WMG, such as LID, green streets, construction BMPs, source investigations, and annual reporting.

6. Other WMP Assistance

This scope of work includes CIMP implementation and activities and WMG administration, with WMP implementation the responsibility of the individual group members. However the watershed group may request assistance with some watershed-wide activities not already listed in this scope of work. A budgetary allotment is included for these additional support services. It is expected that as implementation progresses, tasks may be changed, shifted or additional tasks may be required. Tasks will be initiated as directed by the WMG. This may include assisting in the continued development of a prioritized watershed-wide inventory of potential WMP projects. The WMG will be asked to approve any other subcontractors selected by JLHA to provide WMP assistance prior to start of work.

III. Fees

A. Rate Schedule*

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Environmental Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Environmental Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

*JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

B. Estimated Not-to-Exceed Fee Proposal

The not-to-exceed cost for this project is included in the following table. A detailed breakdown of this cost is included on the following page.

Table 5: Estimated Costs from July 1, 2018, to June 30, 2019

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$267,945	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		--	--	--	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	10	\$1,850	
	APM/PE	\$145	40	\$5,800	
	CS2/PA2	\$115	81	\$9,315	
	CS1/PA1	\$95	54	\$5,130	
SOW II.B.5 TMRP Monitoring and Reporting	LSE			\$80,000	
SOW II.B.6 Biotic Ligand Model†	LSE			\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$84,565
SOW II.C.1 LA River Corridor Study	LSE			\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
	LSE			\$20,000	
Total Not to Exceed					\$597,835

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 6: Estimated Costs from July 1, 2019, to June 30, 2020

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$368,190
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$267,945	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	10	\$1,850	
	APM/PE	\$145	40	\$5,800	
	CS2/PA2	\$115	81	\$9,315	
	CS1/PA1	\$95	54	\$5,130	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C WMP/MS4 Permit Assistance					\$104,105
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	10	\$1,850	
	APM/PE	\$145	45	\$6,525	
	CS2/PA2	\$115	90	\$10,350	
	CS1/PA1	\$95	60	\$5,700	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
	LSE			\$20,000	
Total Not to Exceed					\$597,375

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 7: Estimated Costs from July 1, 2020, to June 30, 2021 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$119,220
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$170	270	\$45,900	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	--	--	--	--	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$377,155
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$275,985	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	10	\$1,900	
	APM/PE	\$150	40	\$6,000	
	CS2/PA2	\$120	81	\$9,720	
	CS1/PA1	\$100	54	\$5,400	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$106,370
SOW II.C.1 LA River Corridor Study	LSE			\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	SOW II.C.3 Adaptive Management†	PRI	\$190	5	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
	SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
	SOW II.C.5 Workshops and training†	PRI	\$190	5	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
	SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$602,745

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 8: Estimated Costs from July 1, 2021, to June 30, 2022 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$119,220
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$170	270	\$45,900	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	--	--	--	--	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$385,435
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$284,265	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	10	\$1,900	
	APM/PE	\$150	40	\$6,000	
	CS2/PA2	\$120	81	\$9,720	
	CS1/PA1	\$100	54	\$5,400	
SOW II.B.5 TMRP Monitoring and Reporting	LSE			\$40,000	
SOW II.B.6 Biotic Ligand Model†	LSE			\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$106,370
SOW II.C.1 LA River Corridor Study	LSE			\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$611,025

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 9: Estimated Costs from July 1, 2022, to June 30, 2023 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$135,790
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$170	270	\$45,900	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	PRI	\$190	14	\$2,660	
	APM/PE	\$170	39	\$6,630	
	CS2/PA2	\$120	39	\$4,680	
	CS1/PA1	\$100	26	\$2,600	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$393,965
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$292,795	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	10	\$1,900	
	APM/PE	\$150	40	\$6,000	
	CS2/PA2	\$120	81	\$9,720	
	CS1/PA1	\$100	54	\$5,400	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$106,370
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$636,125

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Appendix A: Resumes

The following section includes the resumes and certifications of key personnel.

John L. Hunter, PE*Principal***Education**

B.S. Chemical Engineering, CSULB

B.S. Biological Sciences, UCI

Certifications and Licenses

CA Professional Chemical Engineer, 4724

CA Registered Environmental Assessor, 0900

CA Hazardous Substance Removal, A3382

CA General Engineering License, A-582340

Mr. Hunter serves as the Principal of JLHA. He has over 30 years of experience in municipal environmental programs and currently oversees: (1) elements of over 40 separate NPDES programs encompassing three counties that covers programs such as: watershed and stormwater management, TMDL implementation, plan reviews, industrial and construction inspections, public agency activities, public outreach, and monitoring/reporting; (2) eleven municipal FOG programs encompassing permitting, inspections and enforcement; (3) seven

municipal Used Oil Recycling programs; (4) three municipal Beverage Container Recycling programs; and (5) two water conservation programs. As of May 2016 Mr. Hunter serves as the chair for the LA Permit Group, which provides area-wide MS4 Permit updates to all affected parties under the LA Region MS4 Permit.

Related Experience**Watershed Management**

Lead consultant for the Lower Los Angeles River Watershed Group, the Lower San Gabriel River Watershed Group, the Peninsula Cities Watershed Group, and the Long Beach Near-shore watersheds. Oversaw preparation and oversees continued development of the Watershed Management Programs for these groups. Also participates in the Upper Los Angeles River Watershed Group, the Dominguez Channel Watershed Group, and the Los Cerritos Channel Watershed Group.

Total Maximum Daily Loads

Los Angeles River Metals TMDL: Developed the Reach 1 Metals TMDL Implementation Plan on behalf of nine local agencies. The Plan was used as a source document for the Compliance Schedule in the Lower LA River WMP.

Los Angeles River Trash TMDL: Administered Trash DGR studies and associated compliance reports for multiple cities since 2004. Negotiated client interests with Regional Board staff. Obtained grant funding for and prepared the Hamilton Bowl BMP Study. The study evaluated different end-of-pipe trash capture systems for the Cities of Signal Hill and Long Beach.

MS4 Permit Minimum Control Measures (MCMs)

Oversees MCM elements of MS4 Permits for 37 cities. MCM programs include business and construction site inspections, LID Plan and SWPPP reviews, BMP implementation for public agency activities, illicit discharge investigations, and public outreach.

Representation and advocacy

Represents client interests in meetings with Regional Board staff/members regarding (E)WMPs, TMDLs, and other Permit mandates. Has chaired the Los Angeles River Watershed Management Committee, Santa Monica Bay Bacterial TMDL J7 Subcommittee, and the LA Permit Group. Currently serves as technical lead for the Lower San Gabriel, Lower Los Angeles, and Peninsula Cities Watershed Management Groups.

Education

M.S., Applied Mathematics, CSULB
B.S., Physics, CSULB

Certifications

CPSWQ, Envirocert (#0842)
QSD/QSP, CASQA (#22706)
IGP Trainer of Record, CASQA (#079)

Affiliations

Phi Beta Kappa Society
Society for Industrial & Applied Math

Cameron McCullough, MS, CPSWQ, QSD/P, IGP ToR*Director*

Cameron McCullough has fourteen years of experience in the environmental compliance field, specializing in surface water quality regulation. His experiences include managing the development and implementation of municipal NPDES, TMDL, and FOG Control programs, assisting and training municipal staff in their in-house NPDES programs, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Mr. McCullough serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. Permits managed include the NPDES stormwater permits—MS4, IGP, CGP—as well as non-stormwater permits and related orders such as those for drinking water system releases and sanitary sewer overflows. Permit programs address (1) stormwater quality for construction, industrial, and municipal activities and post-construction BMPs for development activities, (2) non-stormwater discharges to and from the MS4, (3) TMDLs for water bodies impaired by trash, metals, toxics, and bacteria, and (4) surface water quality monitoring. Through his program management activities, he has developed qualifications that meet those required to serve as the Project Manager for this project. Specific examples of these qualifications include:

- Serving as a Project Manager for contracted MS4 NPDES Program assistance for local cities. (Lomita, Glendale, Hawthorne, Monterey Park, Placentia, Stanton, Temple City, Villa Park, West Covina, and West Hollywood.) Responsibilities include serving as project point-of-contact, overseeing the Project Team, ensuring successful completion of the project, and representing the client in interactions with regulators and watershed groups.
 - Through these projects Mr. McCullough has served as Project Lead to all subordinate members of the team for this project. As such the team has developed a track record of working together effectively.
- Representing cities in MS4 NPDES Permit compliance audits from the Regional Water Quality Control Board. (Seal Beach 2006, 2010, Stanton 2010, 2014, Big Bear Lake 2007.)
- Developing 1) watershed-based compliance plans for wet and dry weather TMDLs for Metals, Toxics, Bacteria, and Trash (Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watersheds: 2013-2016), 2) municipal Stormwater Quality Management Programs (Stanton 2011, Villa Park 2015) and 3) SWPPPs (Downey, Norwalk, Lynwood, Pico Rivera, West Covina: 2011-2016).
- Leading hundreds of municipal training sessions in MS4, IGP, CGP, and Drinking Water System NPDES Permits, as well as SSO spill response and FOG control. (26 municipal clients from 2004-2016, covering 3 State Water Board Regions and 5 Phase I MS4 Permits.)

Watershed Management: Mr. McCullough served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River, Lower San Gabriel River, and Long Beach Nearshore Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included identifying water quality priorities, evaluating existing control measures, developing new control measures and compliance schedules, and providing quantitative reasonable assurance to attain water quality standards. He has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach.

Through representation of municipal clients' stakeholder interests, Mr. McCullough has also participated in the development of watershed management programs and monitoring programs for the Los Cerritos Channel, Dominguez Channel, Upper Los Angeles River, and Upper San Gabriel River (2013-present).

Jillian Brickey, MS, CPSWQ, QSD/P, CGP ToR
Director

11 Years of Experience in Water Quality

Education

M.S., Environmental Science, CSUF

B.S., Zoology, Cal State Poly Pomona

Certifications

CPSWQ, Envirocert (#0845)

QSD/QSP, CASQA (#22731)

CGP Trainer of Record, CASQA

Jillian Brickey has twelve years of experience in environmental management, specializing in stormwater and watershed management and water conservation. Her relevant experiences include implementing and managing NPDES municipal Permit programs for Low Impact Development, Development Construction, and TMDL/watershed management. Tasks include plan review and approval, reporting, training municipal staff in program implementation, and representing client interests in interactions with regulators and other stakeholders.

Recent Experience and Project Qualifications

Municipal NPDES Permit Management: Ms. Brickey serves as a Programs Manager of municipal NPDES Permit programs for multiple cities throughout the Southland. NPDES Permits managed include all elements of the MS4 and CGP Permits, including erosion/sediment control and Low Impact Development (LID) for construction projects, and TMDL implementation for water bodies impaired by trash, metals, toxics, and bacteria. Through these management activities, she has:

- Represented cities in MS4 NPDES Permit New Development compliance audits from the Regional Water Quality Control Board. (Seal Beach: 2010, 2015, Stanton: 2010).
- Developed TMDL compliance plans for Metals, Toxics, Bacteria, and Trash. (Lower Los Angeles River, Lower San Gabriel River, Long Beach Nearshore Watersheds: 2013-2016.)
- Served as primary contact with clients and represented their interests when interacting with regulators. (Covina, La Habra, Seal Beach, South Pasadena, Stanton, Pasadena, West Hollywood).
- Developed Stormwater Quality Management Programs (Seal Beach: 2011), LID compliance guideline documents (Gateway cities, 2014), and LID ordinances (2014).
- Held CGP QSD/QSP training as a CGP ToR (Pasadena, 2016) and led over one hundred municipal training sessions in MS4 and CGP Permits. (Over 20 municipal clients: 2008-2016).
- Reviewed on behalf of municipal clients hundreds of LID Plans, WQMPs, and SWPPPs and verified proper installation and maintenance of hundreds of LID BMPs.
- Supervised JLHA plan checking staff.

Watershed Management: Ms. Brickey served as a Project Manager for the development of the Watershed Management Programs (WMPs) for the Lower Los Angeles River and Lower San Gabriel River Watershed Groups (2013-2016). The WMPs were developed by MS4 Permittees with shared watershed boundaries, with the objective of achieving surface water quality standards. Tasks included evaluating existing control measures and developing new control measures and compliance schedules to achieve water quality standards. She also oversaw the development and implementation of LID ordinances as required by the WMP development process. This included preparing a LID Ordinance Equivalency Demonstration for the City of Long Beach.

She has also lead multi-jurisdictional workshops and technical committees on watershed management program implementation, and engaged with Regional Water Quality Control Board members, staff and non-governmental organizations in support of contested issues regarding the watershed management compliance approach. Through representation of municipal clients' stakeholder interests, Ms. Brickey has also participated in the development of watershed management programs and monitoring programs for the Upper Los Angeles River, Upper San Gabriel River, and Peninsula Cities Watershed Groups (2013-present).

Michelle Staffield, MSE, EIT, CPSWQ
Water Resources Engineer

11 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount
 B.S., Ecology, Behavior, & Evolution, UCSD

Certifications

EIT #141553, NCEES
 CPSWQ, Envirocert (#1136)

Michelle Staffield has managed a variety of water quality improvement programs throughout Southern California. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, TMDL compliance, public information and participation, and representing clients at meetings. She is also involved in the development and review of Water Quality Management Plans (WQMPs),

Standard Urban Stormwater Mitigation Plans (SUSMPs), and Watershed Management Programs.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including the preparation of Trash TMDL studies and compliance reports.
- Assisting in MS4 Permit Project Management for the Cities of South Gate and Signal Hill. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Lower Los Angeles River and Lower San Gabriel River Watershed Management Groups.) Tasks include administering meetings, managing subcontractors, and preparing the watershed Annual Report.

Michelle Kim, MSE, EIT, CPSWQ, QSD
Water Resources Engineer

12 Years of Experience in Water Quality

Education

M.S., Civil Engineering, Loyola Marymount

B.S., Environmental Science, UC Berkeley

B.A., Public Health, UC Berkeley

Certifications

EIT #141554, NCEES

CPSWQ, Envirocert (#1134)

QSD, CASQA (#26504)

Grade 3 Laboratory Analyst #130133001, CWEA

Michelle Kim has twelve years of experience in the water quality industry, which includes potable water, wastewater, and storm water. Her relevant experiences and tasks include implementing and managing NPDES municipal permit provisions such as watershed management, planning and land development, and TMDL compliance. She is involved in the development and review of Water Quality Management Plans (WQMPs), Low Impact Development (LID) Plans, and Standard Urban Stormwater Mitigation Plans (SUSMPs). Michelle's past experience includes work with the Orange

County Sanitation District involving treatment processes, laboratory analyses, and monitoring of wastewater and source control.

Her current responsibilities include providing municipal NPDES plan checking services, conducting BMP verification and maintenance inspections, representing clients in meetings, and assisting in the implementation of Watershed Management Programs.

Michelle's client-specific responsibilities at JLHA include:

- Reviewing LID Plans following the standards of the Los Angeles County area-wide MS4 Permit for the cities of Diamond Bar, Downey, Monterey Park, Norwalk, Pasadena, Santa Fe Springs, Signal Hill, and South Gate, and West Hollywood.
- Reviewing WQMPs following the standards of the North Orange County area-wide MS4 Permit for the cities of Buena Park, La Habra, Seal Beach, and Stanton. (WQMPs are the Orange County-equivalent of Los Angeles County's LID Plans.)
- Serving as point-of-contact with project engineers for the LID Plan and WQMP review process.
- Conducting post-construction BMP inspections for the City of West Hollywood.
- Assisting in municipal TMDL compliance activities, including review of Bacteria TMDL monitoring data for Jurisdiction 7 of the Santa Monica Bay, reconsideration of the Machado Lake nutrients TMDL, and preparation of the final compliance report for the Machado Lake Trash TMDL.
- Assisting in MS4 Permit Project Management for the Cities of Hawthorne, Lomita, and Rancho Palos Verdes. Tasks include serving as a point-of-contact with City staff, representing city interests at watershed meetings and other NPDES-related meetings and hearings, and preparing the Individual Annual Report.

Assisting in Project Management of Watershed Management efforts under the LA County area-wide MS4 Permit. (Palos Verdes Peninsula Watershed Management Group.) Tasks include administering meetings, managing subcontractors, and preparing the watershed Annual Report.

Jose Rodriguez, CESSWI, QSP
*Field Operations Manager***Education**

B.S., Biology, UCI

Certifications and Training

CESSWI, Envirocert (#2830)

QSP, CASQA (#22917)

40 Hour HAZWOPER

Basic Inspector Academy, Cal EPA

Spanish fluency

Jose Rodriguez has worked with John L. Hunter & Associates in the environmental compliance fields of NPDES, FOG and Industrial Waste Control for eleven years. His relevant experiences and tasks include implementing NPDES municipal permit provisions such as industrial/commercial inspections, illicit discharge detection and elimination, construction inspections, public education, public agency inspections, TMDL compliance, municipal staff training and completing annual reports. He has experience in conducting outfall screening and monitoring for non-storm water discharges in both the Lower Los Angeles River and the Lower San Gabriel River. In total, Mr. Rodriguez has conducted several thousand inspections for

agencies such as Stanton, Seal Beach, South Gate, Hawthorne, South El Monte, Arcadia and the Orange County Sanitation District.

Related ExperienceInspection Services

Mr. Rodriguez supervises field activities at JLHA, including inspection work to verify compliance with state and local environmental regulations. This includes MS4 NPDES Permit compliance inspections at commercial facilities such as restaurants and nurseries, NPDES-permitted industrial and construction sites, municipal facilities, and new developments. (New developments are inspected to verify proper post-construction BMP installation and maintenance verification.) He also oversees Industrial Waste and Fats, Oils, and Grease (FOG) Control BMP/pretreatment device inspections, as well as Clean Bay Restaurant (CBR) inspections. The CBR program incorporates elements of NPDES, FOG, and waste management.

In addition to supervising field staff, Mr. Rodriguez has conducted thousands of inspections through his tenure with JLHA. Clients include South Gate, Signal Hill, Downey, Paramount, and Manhattan Beach. In 2014 he represented the City of Stanton in a State compliance audit of the City's Industrial/commercial facility inspection program. The State auditors did not find program deficiencies.

Monitoring Services

Mr. Rodriguez supervises source investigations for outfalls with dry weather flows in both Orange and LA Counties. (OC Clients: Stanton, Seal Beach, Placentia, La Habra, Villa Park.) Within LA County, this work included the initial source identification work for the Lower San Gabriel River, Lower Los Angeles River, and Peninsula Cities Watershed Groups. Together these Groups represent twenty cities. He has also conducted stormwater sampling following the requirements of the Industrial General Permit (South Gate) and supervised trash generation monitoring studies as required by the LA River Trash TMDL. (Monterey Park, Glendale, South Pasadena, Temple City.)

Planning and Reporting

Mr. Rodriguez prepares NPDES annual reports for Industrial General Permit (IGP) facilities (West Covina, South Gate, Norwalk) as well as MS4 Permittees throughout Orange and LA County. As part of the MS4 Annual Report, he has prepared outfall screening reports. He has also developed Industrial SWPPPs for the Cities of Norwalk and South Gate.

Hugo Garcia, CESSWI, QSP
Environmental Compliance Specialist II

Education

B.S., Environmental Science, UCR

Certifications and Training

CESSWI, Envirocert (#4769)

QSP, CASQA (#26091)

Professional Certificate in GIS

24 Hour HAZWOPER

Basic Inspector Academy, Cal EPA

Spanish fluency

Hugo Garcia has six years of experience with John L. Hunter & Associates, specializing in NPDES and Industrial Waste/FOG Control regulations. His experiences include MS4 compliance of the Public Information and Participation, Industrial/Commercial, Construction, Public Agency, Illicit Connections and Illicit Discharge Elimination Programs. In addition, he provides assistance with TMDL implementation and serves as the GIS Specialist providing spatial analysis to clients in the Los Angeles and Orange counties.

Recent Experience and Project Qualifications

Mr. Garcia currently serves as an Environmental Compliance Specialist II whose responsibilities include field compliance inspections for local cities (Inglewood, La Habra, Pasadena, South Gate, and Whittier), and assisting in the implementation of Watershed Management Programs. Specific examples of these and past qualifications include:

- Conducting over 1,000 Industrial, Commercial (i.e. auto, restaurant, nursery), and Construction NPDES compliance inspections
- Assisting with the implementation of the Trash TMDL DGR Study and reporting through the LA River Watershed
- Assisting with the development of a Stormwater Pollution Prevention Plan (SWPPP) for both Signal Hill and West Covina facilities, as required by the State's Industrial General Permit (IGP).
- Developing and maintaining GIS data for Los Angeles and San Gabriel watersheds and clients of 1) MS4 Outfalls with and without Non-Stormwater Discharges, 2) retrofitted catch basin storm drain systems, and 3) potential sites for multi-agency, multi-watershed low impact development (LID) regional projects
- Reviewing plumbing plans for new and existing Industrial Waste/FOG sites in Arcadia, Signal Hill, South El Monte, South Gate, and Stanton

Rosalinda Tandoc, PE
*Staff Civil Engineer***Overview**

Ms. Tandoc has over 30 years of experience reviewing and approving structural and architectural plans. Her specialty lies in reviewing and approving such plans for compliance with Permits (including MS4), City ordinances (including LID and Green Streets/Fats, Oils, and Grease/Industrial Waste/Erosion Control), Building Codes, and other State Laws. At JLHA, she has been instrumental in expediting plan review and approval for issuance of permits, interacting with clients to troubleshoot project development problems, and expediently facilitating completion of client projects. She has done this for all of JLHA's past and current clients, which now includes 23 cities.

Education

Master of Science in Civil Engineering
California State University, Long Beach

Certifications and Licenses

CA Registered Civil Engineer

Related Experience**With JLHA
(Starting 2006)**

- Reviews structural and architectural plans and residential and large and complicated buildings for compliance with the MS4 Permit, City Ordinances and State Law.
- Interacts with developers to facilitate completion of their projects
- Worked with the Principal in investigating problems presented to them.
- Code Consultant

Prior Experience:

- Los Angeles County Department of Public Works Building and Safety Division (1979 – 2006)
- Coordinated with local agencies in expediting the issuance of permits
- Assisted Permit Technician in solving problems that he or she may have incurred in the processing of permits and other related problems that need to be resolved at the counter.
- Assisted the City in developing ways and methods of expediting the processing of plans for issuance of permits.
- Assisted the City in developing plans and methods for effective office organization in the City Building Department in working with the City Planning Department.

Personal Advancement Courses

Engineering Management
Communication
Diversity Training
Business and English Writings
Supervisory Management

Achievements/Volunteer Works

Outstanding Woman of 1998, City of Cerritos
Greater Long Beach Girl Scout Council
Cerritos Senior Center, City of Cerritos
St. Linus Parish, Norwalk, CA
Cathedral of Our Lady of the Angels, Los Angeles

RICHARD WATSON & ASSOCIATES, INC.

Richard Watson & Associates, Inc. (RWA) was formed in July 1993 as an urban and regional planning firm with specialties in development services, stormwater quality, and strategic planning. RWA works independently and in collaboration with other firms and consulting associates to provide planning and problem-solving services for public and private sector clients. RWA excels in assembling experts from complementary disciplines to form unparalleled project teams. The firm has extensive experience with Southern California development and stormwater quality issues, including MS4 permits and Total Maximum Daily Loads (TMDLs.)

In recent years, RWA has emphasized stormwater quality services, especially for public sector clients. From 1997 to 2008, RWA was a member of the RBF Consulting on-call consulting team to Caltrans. In this capacity, the firm assisted in siting pilot retrofit best management practices (BMPs) at 33 locations in Caltrans District 7 (Los Angeles County) and District 11 (San Diego County) to determine the cost-effectiveness and water quality benefits of structural BMPs when retrofitted into existing facilities.

Richard Watson & Associates is incorporated in California as an S-corporation. FEIN: 33-0893230.

Its principal office is located at:

21922 Viso Lane
Mission Viejo, California 92691-1318

RWA includes four staff. In addition to Mission Viejo, RWA has employees operating out of Rancho Santa Margarita, California and Santa Monica, California who may be working on this project. The key staff member responsible for work on this contract and the primary contact for this contract will be:

Richard Watson
21922 Viso Lane
Mission Viejo, CA 92691-1318
Phone: 949-855-6272

Richard Watson & Associates is uniquely qualified to provide the services described in the RFP for this project because of its broad range of stormwater quality experience dating back to September 1990. Richard Watson has been an active participant in the California Stormwater Quality Association and its predecessor organization, the Stormwater Quality Task Force, since January 1991. He has been actively involved addressing stormwater quality issues in Los Angeles County since 2001 and testified extensively on many of the TMDLs that impact the City of Long Beach and on the development and adoption of the 2012 Los Angeles Area MS4 Permit upon which the 2014 Long Beach Permit was based. In Addition, RWA has worked closely John L. Hunter & Associates as well as with the City of Long Beach and other municipalities in the preparation of the three Watershed Management Programs (WMPs) that cover portions of the City of Long Beach. Familiarity with these WMPs will make it easier to prepare a Master Watershed Management Program that is similar in structure to the existing WMPs in order to reduce costs and maintain a consistent format.

Below are references from similar projects performed by RWA, including services consistent with the project described in the RFP. Following these references is the resume for Richard Watson.

LOS CERRITOS CHANNEL WMP: Richard Watson & Associates has served as the lead consultant for preparation of the Los Cerritos Channel Watershed Management Program since October 2013. RWA developed the WMP plan with the assistance Eckersall LLC, John L. Hunter & Associates, Inc., and Kinnetic Laboratories Incorporated. RWA also coordinated development of a Coordinated Integrated Monitoring Program by Kinnetic Laboratories, Inc. and development of a Reasonable Assurance Analysis by Tetra Tech, Inc. and Paradigm Environmental, Inc.

Anthony G. Arevalo, Stormwater/Environmental Compliance Officer
City of Long Beach
333 W. Ocean Blvd.
Long Beach, CA 90802
Phone: 562-570-6023
Anthony.Arevalo@longbeach.gov

LOWER LOS ANGELES RIVER WMP: Since November 2012, RWA has been part of the John L Hunter & Associates team that was assembled to prepare a Watershed Management Program for the Lower Los Angeles River. RWA assisted with source control and other implementation strategies.

John Hunter
John L. Hunter & Associates, Inc.
6131 Orangethorpe Avenue, Suite 350
Buena Park, CA 90620
Phone: 562-802-7880 ext. 225
jhunter@jlha.net

LOWER SAN GABRIEL RIVER WMP: Since July 2012, RWA has been part of the John L Hunter & Associates team that was assembled initially to assist the Coyote Creek and San Gabriel River Reach 1 Technical Committee in compliance with the requirements of the San Gabriel River Metals TMDLs. With the adoption of the new Los Angeles Area MS4 Permit, the team was directed to prepare a Watershed Management Program for the Lower San Gabriel River and Coyote Creek. RWA developed and negotiated the Implementation Schedule that was included in a Basin Plan Amendment to establish an overall Implementation Plan and Implementation Schedule for the EPA-established Metals TMDLs. RWA also assisted with source control and other implementation strategies.

John Hunter, President
John L. Hunter & Associates, Inc.

6131 Orangethorpe Avenue, Suite 350
Buena Park, CA 90620
Phone: 562-802-7880 ext. 225
jhunter@jlha.net

LOS ANGELES RIVER JURISDICTIONAL GROUP 1 METALS TMDL IMPLEMENTATION PLAN: From November 2009 through October 2012, RWA was part of the John L. Hunter & Associates team for the development and implementation of the Los Angeles River Jurisdictional Group 1 Metals TMDL Implementation Plan. RWA was responsible for the source control and implementation schedule portions of the implementation plan and provided editorial services.

John Hunter, President
John L. Hunter & Associates, Inc.
6131 Orangethorpe Avenue, Suite 350
Buena Park, CA 90620
Phone: 562-802-7880 ext. 25
jhunter@jlha.net

COALITION FOR PRACTICAL REGULATION: From 2001 to 2012, RWA served as Stormwater Quality Consultant to the Coalition for Practical Regulation (CPR), an ad-hoc group of approximately 40 small and medium-sized cities in Los Angeles County that came together to address stormwater quality issues. This project is relevant to development of a Master Watershed Management Program because RWA provided a broad range of analytical and advocacy services to CPR. Much of the work for CPR involved TMDLs, Basin Plan Amendments, the Triennial Review process, the State Water Board's Blue Ribbon Panel process, and re-issuance of area-wide municipal stormwater permits. RWA provided extensive analysis and evaluation of regulatory documents and preparation of formal written comments to the Los Angeles Regional Water Quality Control Board and the State Water Resources Control Board. CPR assignments also included negotiations with Water Board staffs and testimony before both the Regional Water Board and the State Water Board. RWA also evaluated BMPs for TMDL implementation, prepared reports, coordinated with member cities and their consultants, and coordinated with the City of Los Angeles and the County of Los Angeles.

Ken Farfsing, City Manager
City of Signal Hill
2175 Cherry Avenue
Signal Hill, CA 90775
Phone: 562-989-7302
kfarsing@signalhill.org

KINNETIC LABORATORIES, INC.

FIRM QUALIFICATIONS

Kinnetic Laboratories, Inc. is a small SBE, VSBE firm with 45 years of experience that specializes in field investigations in support of both water and sediment quality studies. Their core mission is to provide scientific, quantitative environmental data and evaluations focused on key issues for design, permitting, monitoring, and compliance. Kinnetic Laboratories has a local office and research vessels home ported in Long Beach, vibracores and other sediment sampling equipment, and extensive water quality instrumentation, including specialized stormwater stations capable of obtaining contaminant load determinations. They have worked extensively for many years with major local clients, including the City of Long Beach and the Port of Los Angeles. They have an extensive track record of water quality, stormwater, and sediment quality projects, including major sediment dredge studies for the Port of Los Angeles.

Water Quality and Storm Water. Kinnetic Laboratories has 25 years of stormwater and watershed experience, starting with the Santa Clara Valley program that won an USEPA Award of Excellence and later comprising over 20 such studies. A descriptive list of selected of stormwater projects is provided in the Appendix. They have been the City of Long Beach's contractor for 15 years for the NPDES Stormwater Permit Monitoring Program, including extensive TMDL support. Their contaminant load data of both total and dissolved metals, backed by accompanying toxicity data allowed them to request that Waste Load Allocations (WLA's) be increased for copper, for lead, and for zinc. They have also performed special bacterial source studies for the City's beaches, and have also prepared seasonal and annual bacterial reports on the City's beach performance.

Kinnetic Laboratories are currently carrying out storm water monitoring and BMP research support for five large urban watersheds draining into San Pedro Bay. Recently, they have developed methodology to measure contaminant loads to San Pedro Bay of key organic pollutants to address the Harbor Toxics TMDL. Their work with the City of Long Beach BMP efforts has resulted in the recreational beaches reaching up to 98% compliance with respect to bacterial contamination. At Cabrillo Beach they researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their vindicated hydrodynamics, field source studies, and molecular characterizations showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have a significant human contribution.

For the City of Long Beach, Kinnetic Laboratories have monitored storm water pump stations as part of the MS4 NPDES monitoring program. They also have monitored dry weather flow diversions from the Belmont and Appian Way storm water pump stations and prepared required reports for the County Sanitation District. Assistance with BMP designs has also included measuring flows in the stormwater system for design of low-flow, first flush diversions for four local watershed Water Management Plans.

Other representative stormwater, TMDL, and watershed projects are listed below which include extensive source study investigations, BMP evaluations, and mitigation measures. Recent studies carried out by Kinnetic Laboratories include preparing Comprehensive Integrated Monitoring Programs (CIMPs) for the Lower San Gabriel, Los Cerritos, and Lower Los Angeles River watersheds. A Proposition 84 funded study is underway for methods and monitoring of dry weather low-flow and water quality in Los Cerritos, Wardlow, Clark, Del Amo, and Palo Verde Channels. Work is also underway on Cerritos Creek TMDL studies.

KINNETIC LABORATORIES, INC.

SELECTED PAST PROJECTS, WATER QUALITY & STORMWATER

Watershed NPDES Stormwater Monitoring. Kinnetic Laboratories is presently carrying out NPDES stormwater monitoring projects for the Lower Los Angeles River, Los Cerritos Channel, Lower San Gabriel River, and the City of Long Beach Estuarine Watersheds along with assisting CH2MHill with field monitoring in the Upper San Gabriel River Watershed. This new work is designed to be in compliance with both the Los Angeles and the City of Long Beach's new Stormwater Permits and has been approved by the Regional Water Quality Control Board. The program is designed to obtain precision contaminant loading data by use of flow composited sampling of complete hydrographs along with chemical and toxicity analyses. An innovative approach is being implemented to obtain flow composited samples under ultraclean protocols for bioaccumulative organic compounds along with high-resolution Mass Spectral analyses in order to obtain loading of these contaminants to San Pedro Bay, thus addressing the Harbor Toxics TMDL requirements. Support for BMP designs for the associated Water Management Plan is also being furnished. Gateway Water Authority and City of Long Beach. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net ; Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com ; and Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov .

City of Long Beach NPDES Stormwater Monitoring Program. Dr. Kinney initially served as project manager for this program, then subsequently provided operational support to Mr. Stevenson as Manager. Kinnetic Laboratories has been the contractor for the City of Long Beach's NPDES storm water monitoring program since its inception fifteen years ago. This program involves instrumentation and monitoring of the City's storm water discharges, determinations of effects to harbor receiving waters, and extensive support for TMDL issues and permit renewal negotiations. In addition to providing guidance to BMP programs, a key contribution has been obtaining a fifteen year record of precision contaminant loading data critical to TMDL issues. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Los Cerritos Creek TMDL Studies, City of Long Beach. An example of the ability to obtain good load data as described above, for TMDL support, Mr. Stevenson was able to calculate site-specific metal translators based upon methods of the USEPA (1996) guidance document using the precision 12 year monitoring data for this watershed, backed by accompanying toxicity data. Instead of the simple regression calculation used in the original TMDL model, this more accurate method takes into account high suspended solids present in storm water runoff, resulting in the potential for metal Waste Load Allocations (WLAs) to be increased by a factor of 1.5 for copper, 12.5 for lead, and 2.4 for zinc. Anthony Arevalo, 562-570-6023, Anthony.Arevalo@longbeach.gov

Design Comprehensive Integrated Monitoring Program (CIMPs) for Lower San Gabriel, Los Cerritos Channel, and Lower LA River Watershed Technical Committees. Dr. Kinney assisted Mr. Stevenson in the preparation of Comprehensive Monitoring Programs for the Lower Los Angeles River, Lower San Gabriel River, and Los Cerritos Channel urban watersheds that include Cities from Downey, Lakewood, Compton, and Long Beach which drain into the San Pedro Bay harbor complex. This program is designed for implementation to fulfill requirements of the new stormwater permits and incorporate associated TMDL

requirements. John L. Hunter & Associates, John Hunter, 562-802-2880, jhunter@jlha.net and Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Dry Weather Flow & Water Quality LID Methods Study (Proposition 84), Gateway Water Authority. Dr. Kinney developed flow and water quality methods as part of implementing Los Cerritos Channel Watershed Segmentation and LID Planning to support TMDL actions. Special low-flow monitoring methods were designed and proven by a pilot study and reported to the State RWQCB for general use. Dry weather monitoring was carried out in the main Los Cerritos, Wardlow, Clark, Del Amo and Palo Verde Channels to provide key data for identification of primary sources of dry weather pollutant loads and for LID planning purposes. Richard Watson & Associates, 949-855-6272, rwatson@rwaplanning.com.

Cabrillo Beach Bacteria Studies. Kinnetic Laboratories researched and helped to implement local drainage modifications and BMPs to eliminate human bacterial sources. Their hydrodynamics, field source studies, and molecular markers showed that the continuing violations were not from local drainages or harbor waters but were associated with particulates in the eelgrass bed, and did not have significant human contributions. Subsequent independent studies by the Port vindicated the local hydrodynamic results of the study and proved conclusively that enhanced circulation by small pumps was not a solution. Working with Jeff Soller of Soller Environmental, the recommended action by Kinnetic Laboratories was to consider a Natural Source Exclusion and a Quantitative Microbial Risk Assessment study to show that not only were human sources not present, but that other pathogens were not a problem. John Foxworthy (Deceased), Port of Los Angeles.

Central Coast Long Term Environmental Assessment Network (CCLEAN), Monterey Bay Regional Monitoring Program. (CCLEAN) is long-term a regional monitoring program in the Monterey Bay area focused on water quality issues, with an emphasis on measuring contaminant inputs from point and non-point sources and determining the effects of those contaminants, including exceedances of water quality and biological tissue criteria, effects on biological communities, and effects on the health and mortality of sea otters. Responsible for field studies in the project team, Kinnetic Laboratories uses state-of-the-art sampling and analytical methods, such as solid-phase extraction techniques, to measure flow-proportioned low concentrations of persistent organic pollutants from four rivers, four wastewater treatment plants, and from specially designed offshore moored samplers in Monterey Bay. Measurements of bioaccumulation in resident mussels at shoreline locations are also determined. City of Watsonville and Applied Marine Sciences. Barbara Pierson, 831-768-3179, bpierson@ci.watsonville.ca.us, Dane Hardin AMS, 831-426-6326, hardin@amarine.com.

Calleguas Creek TMDL Watershed Monitoring Program. The Calleguas Creek Watershed Total Maximum Daily Load Monitoring Program addresses four TMDL actions at present and is designed to begin the required monitoring to obtain data to support development of Implementation Plans to achieve water quality objectives. Working with Larry Walker Associates, Dr. Kinney set up and implemented field sampling operations in the program, submission of laboratory samples, does tracking and managing analytical testing, and carries out data management and quality evaluations. Validated data is delivered in the form of a modified SWAMP database. Larry Walker Associates, Mack Walker, 530-753-6400, mackw@lwa.com.

CALTRANS Stormwater Studies. Kinnetic Laboratories has monitored over 79 stormwater stations each for multiple years for Caltrans, spread from Redding in the north to San Diego in the south utilizing full telemetry network control. This resulted in over 1000 storm events with over 95% success, over 90% storm capture, and high quality validated data including excellent mass balances across BMP pilots being evaluated. This work included 12 sites for Runoff Characterization, 31 Biofilter sites, 7 sites for erosion control BMPs, and 29 sites for structural BMP Operations & Evaluations. Major Southern California sites were for BMP evaluations done for RBF Consulting, Scott Taylor, RBF Consulting/Michael Baker International, 949-246-8276, staylor@mbakerintl.com

Port of Los Angeles – Stormwater Monitoring and StormCeptor Evaluation, Berth 100. Berth 100 developments at the Port of Los Angeles involved the construction of a major dock to accommodate large container ships and an adjacent, large paved terminal yard to handle the containers and trucks for shipment. Storm water drainage from the new container terminal was designed as slot drains which drop into an underground collector storm sewer system. A total of 10 StormCeptor 11000 units were incorporated into this collection system to treat the storm water from the terminal before discharge into the harbor. Kinnetic Laboratories performed storm water discharge monitoring at this Pier 100 facility before and after operations began, and also tested the effectiveness of StormCeptors installed in the drainage system by monitoring both upstream and downstream. Kathryn Curtis (310) 732-3571; kcurtis@portla.org .

ATTACHMENT B TO EXHIBIT B

**RATE SHEET
FOR THE THIRD AMENDMENT**

Attached hereto and incorporated herein is the rate sheet for the additional scope of work and associated cost as provided by the Consultant for this Third Amendment.

The Third Amendment Payment amount shall not exceed **Two Hundred Nineteen Thousand Seven Hundred Dollars and Zero Cents (\$219,700.00)** for work related to the Harbor Toxics TMDL and **Three Million Forty-Five Thousand One Hundred Five Dollars and Zero Cents (\$3,045,105.00)**.

III. Fees

A. Rate Schedule*

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Environmental Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Environmental Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

*JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

Table 5: Estimated Costs from July 1, 2018, to June 30, 2019

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$388,190
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$267,945	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		--	--	--	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	10	\$1,850	
	APM/PE	\$145	40	\$5,800	
	CS2/PA2	\$115	81	\$9,315	
	CS1/PA1	\$95	54	\$5,130	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$80,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$84,565
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
	LSE			\$20,000	
Total Not to Exceed					\$597,835

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 6: Estimated Costs from July 1, 2019, to June 30, 2020

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$125,080
SOW II.A.1 Watershed Management Group administration	PRI*	\$185	68	\$12,580	
	APM/PE	\$145	270	\$39,150	
	CS2/PA2	\$115	270	\$31,050	
	CS1/PA1	\$95	180	\$17,100	
SOW II.A.2 MS4 Permit negotiations	PRI	\$185	14	\$2,590	
	APM/PE	\$145	39	\$5,655	
	CS2/PA2	\$115	39	\$4,485	
	CS1/PA1	\$95	26	\$2,470	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$368,190
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$267,945	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$185	10	\$1,850	
	APM/PE	\$145	40	\$5,800	
	CS2/PA2	\$115	81	\$9,315	
	CS1/PA1	\$95	54	\$5,130	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$104,105
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
SOW II.C.3 Adaptive Management†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.4 MS4 Permit assistance†	PRI	\$185	10	\$1,850	
	APM/PE	\$145	45	\$6,525	
	CS2/PA2	\$115	90	\$10,350	
	CS1/PA1	\$95	60	\$5,700	
SOW II.C.5 Workshops and training†	PRI	\$185	5	\$925	
	APM/PE	\$145	18	\$2,610	
	CS2/PA2	\$115	36	\$4,140	
	CS1/PA1	\$95	24	\$2,280	
SOW II.C.6 Other WMP assistance activities†	PRI	\$185	2	\$370	
	APM/PE	\$145	9	\$1,305	
	CS2/PA2	\$115	18	\$2,070	
	CS1/PA1	\$95	12	\$1,140	
	LSE			\$20,000	
Total Not to Exceed					\$597,375

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 7: Estimated Costs from July 1, 2020, to June 30, 2021 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$119,220
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$170	270	\$45,900	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	---	---	---	---	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$377,155
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$275,985	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	10	\$1,900	
	APM/PE	\$150	40	\$6,000	
	CS2/PA2	\$120	81	\$9,720	
	CS1/PA1	\$100	54	\$5,400	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$106,370
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$602,745

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 8: Estimated Costs from July 1, 2021, to June 30, 2022 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$119,220
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$170	270	\$45,900	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	--	--	--	--	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$385,435
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$284,265	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	10	\$1,900	
	APM/PE	\$150	40	\$6,000	
	CS2/PA2	\$120	81	\$9,720	
	CS1/PA1	\$100	54	\$5,400	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$106,370
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	SOW II.C.3 Adaptive Management†	PRI	\$190	5	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
	SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
	SOW II.C.5 Workshops and training†	PRI	\$190	5	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
	SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$611,025

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

Table 9: Estimated Costs from July 1, 2022, to June 30, 2023 (if extension approved)

Task	Staff	Rate	Hours	Cost	Subtotal
SOW II.A Watershed Management					\$135,790
SOW II.A.1 Watershed Management Group administration	PRI*	\$190	68	\$12,920	
	APM/PE	\$170	270	\$45,900	
	CS2/PA2	\$120	270	\$32,400	
	CS1/PA1	\$100	180	\$18,000	
SOW II.A.2 MS4 Permit negotiations	PRI	\$190	14	\$2,660	
	APM/PE	\$170	39	\$6,630	
	CS2/PA2	\$120	39	\$4,680	
	CS1/PA1	\$100	26	\$2,600	
SOW II.A.3 Subcontracted watershed management support services (RWA)	LSE**			\$10,000	
SOW II.B CIMP Implementation and Reporting					\$393,965
SOW II.B.1 KLI subcontractor costs: CIMP monitoring and reporting		LSE	LSE	\$292,795	
SOW II.B.2 Fifth-term MS4 Permit Monitoring (if necessary)		LSE	LSE	\$20,000	
SOW II.B.3 Source investigations (budgetary allotment if work is necessary)		LSE	LSE	\$10,000	
SOW II.B.4 Annual Watershed Report/semi-annual monitoring reports (JLHA)	PRI	\$190	10	\$1,900	
	APM/PE	\$150	40	\$6,000	
	CS2/PA2	\$120	81	\$9,720	
	CS1/PA1	\$100	54	\$5,400	
SOW II.B.5 TMRP Monitoring and Reporting		LSE		\$40,000	
SOW II.B.6 Biotic Ligand Model†		LSE		\$8,150	
SOW II.C. WMP/MS4 Permit Assistance					\$106,370
SOW II.C.1 LA River Corridor Study		LSE		\$30,000	
SOW II.C.2 Strategic Transportation Plan review and comments	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
SOW II.C.3 Adaptive Management†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.4 MS4 Permit assistance†	PRI	\$190	10	\$1,900	
	APM/PE	\$150	45	\$6,750	
	CS2/PA2	\$120	90	\$10,800	
	CS1/PA1	\$100	60	\$6,000	
SOW II.C.5 Workshops and training†	PRI	\$190	5	\$950	
	APM/PE	\$150	18	\$2,700	
	CS2/PA2	\$120	36	\$4,320	
	CS1/PA1	\$100	24	\$2,400	
SOW II.C.6 Other WMP assistance activities†	PRI	\$190	2	\$380	
	APM/PE	\$150	9	\$1,350	
	CS2/PA2	\$120	18	\$2,160	
	CS1/PA1	\$100	12	\$1,200	
	LSE			\$20,000	
Total Not to Exceed					\$636,125

* PRI: Principal; APM: Assistant Project Manager; PE: Project Engineer; CS2: Environmental Compliance Specialist II; PA2: Project Analyst II; CS1: Environmental Compliance Specialist I; PA1: Project Analyst I

** LSE: Lump sum estimate

† This is an optional task that the WMG will consider in April 2018. A budgetary allotment is included in this not-to-exceed estimate. Should the task be approved by the group, prior to approval JLHA will provide an itemized cost breakdown.

Costs provided are estimates. Costs are likely to be reallocated from one task to another as necessitated by the implementation of the WMP and at the direction of the Technical Committee. Some variation will occur depending on specific staff assigned to each task.

III. Rate Schedule and Estimated Costs

A. Rate Schedule

Principal	\$185/hr
Director	\$165/hr
Staff Engineer	\$165/hr
Project Manager	\$155/hr
Assistant Project Manager	\$145/hr
Project Engineer	\$145/hr
Compliance Specialist II	\$115/hr
Project Analyst II	\$115/hr
Industrial/commercial facility inspection	\$115/unit
Compliance Specialist I	\$95/hr
Project Analyst I	\$95/hr
Administrative Assistant, Laborer (OSHA 40hr certified)	\$65/hr
State Certified Laboratory Analysis	Cost + 5%
Legal Consultation, Court Appearances/Document review, etc.	\$250/hr
Subcontracted equipment	Cost + 5%

* JLHA rates beyond the 2019-2020 season will increase by 3% per year. This increase is incorporated into the cost estimate tables.

B. Estimated Not-to-Exceed Fee Proposal

The not-to-exceed cost for this project is included in the following tables. Information on the tasks listed are provided under the Scope of Work section of this proposal. Optional costs beyond the 2019-2020 season are also included and are based on a 3% escalation fee per year.

Table 6. Estimated Costs from July 1, 2018, to June 30, 2019

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$38,377
A.1 Monitoring	\$4,216	\$4,982	--	
A.2 Reporting	\$4,532	\$1,909	\$15,972	
Equipment Lease, Reinstall and Maintenance	\$6,767	--	--	
B. Program Management				\$5,757
B.1 Manage Program	Lump Sum Estimate			
Total				\$44,134

Table 7. Estimated Costs from July 1, 2019, to June 30, 2020

Task name	Labor	Direct	Chem	Totals
A. Monitoring and Reporting				\$38,856
A.1 Monitoring	\$4,216	\$4,982	--	
A.2 Reporting	\$4,532	\$1,909	\$16,451	
Equipment Lease, Reinstall and Maintenance	\$6,767	--	--	
B. Program Management				\$3,109
B.1 Manage Program	Lump Sum Estimate			
Total				\$41,965

Table 8. Estimated Costs per Season Beyond the 2019-2020 Season (Optional)

Task name	2020-2021	2021-2022	2022-2023	Total
A. Monitoring and Reporting - KLI	\$40,022	\$41,223	\$42,459	\$123,704
B. Program Management - JLHA	\$3,202	\$3,298	\$3,397	\$9,897
Total	\$43,224	\$44,521	\$45,856	\$133,601

16401 Paramount Boulevard
 Paramount, CA 90723
 562.663.6850 phone
 562-634-8216 fax



www.gatewaywater.org

*Los Angeles Gateway Region
 Integrated Regional Water Management
 Joint Powers Authority*

May 14, 2018

SECTION NO. 15: Appointments to Executive Management Contract Ad Hoc Committee

SUMMARY:

Based upon discussions over the past several months with the Executive Officer and the Executive Committee, they are now seeking volunteers to serve on an Ad Hoc Committee with them. The goal is to work with the Executive Officer in identifying administrative, accounting and technical needs of the organization and review/negotiate a proposal to support the agency for the next several years. The result would be a proposed contract with GK Consulting for Board consideration and approval.

BACKGROUND:

The current contract for executive management and support services with GK Consulting will expire on February 28, 2018. Since 2015, when the current contract was negotiated, GWMA's responsibilities and activities have grown in volume and complexity and will continue to grow as more grant activities, stormwater-related activities, COG/GWMA activities and IRWM-related activities are required. To this end, the Chair and the Executive Committee met with the Executive Officer to discuss some of the future needs in support of GWMA. The next step is for the Executive Officer to develop a proposal based upon further input and guidance from an Ad Hoc Committee.

FISCAL IMPACT

None.

RECOMMENDATION

Establish a 5 to 7-member Ad Hoc Committee that includes members of the Executive Committee to meet with the Executive Officer over the next several months.

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
 Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Avalon • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Cudahy • Downey • Hawaiian Gardens • Huntington Park • La Mirada • Maywood • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Montebello • Norwalk • Paramount • Pico Rivera • Pico Water District • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County