



AGENDA

***Regular Meeting of the Board of Directors
Thursday, November 14, 2019 at 12:00 p.m.
Progress Park Plaza, 15500 Downey Avenue, 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. Presentation by Matthew Hacker– MWD Stormwater Program**
- 6. Presentation by Richard Watson & Associates - Update on Bacteria Scientific Study and Zinc Petition**
- 7. Consent Calendar: (Acted as one item unless withdrawn by request)**
 - a. Minutes of the Board Meeting of September 12, 2019 (Enclosure).
 - b. Minutes of the Special Board Meeting of September 12, 2019 (Enclosure).
 - c. Ratify the Warrant Register for October 2019 and Approve the Warrant Register for November 2019 (Enclosure).
 - d. Receive and File the Updated Expenditures for Legal Counsel Services. (Enclosure).
- 8. Discussion/Action Regarding the Third Amendment to Professional Services Agreement with CWE Corporation Relating to Implementation of the Los Angeles River Upper Reach 2 Coordinated Integrated Monitoring Program**
 - a. Approve the Third Amendment to the PSA between GWMA and CWE Corporation for the LAR UR2 Watershed Group.
 - b. Authorize the Chair to execute the Third Amendment to the PSA with CWE Corporation.

Lisa Rapp (Lakewood), Board Chair • Adriana Figueroa (Paramount), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
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- 9. Status Report Update on GWMA Funding Strategy & Grants Program – Oral Report**
- 10. Gateway Region Watershed Management Groups Oral Reports**
 - 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
- 11. Executive Officer’s Oral Report**
- 12. Directors’ Oral Comments/Reports**
- 13. Adjournment to Regular Board Meeting on December 12, 2019 at Progress Park Plaza, 15500 Downey Avenue, Paramount, CA**

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**MINUTES OF THE GATEWAY WATER MANAGEMENT AUTHORITY
LOS ANGELES GATEWAY REGION
INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
BOARD
AT PARAMOUNT, CALIFORNIA
THURSDAY, SEPTEMBER 12, 2019**

A regular meeting of the Board of Directors of the Gateway Water Management Authority was held on Thursday, September 12, 2019 at 12:00 p.m. at the at the Progress Park Plaza, 15500 Downey Avenue, Paramount, CA.

Chair Lisa Rapp called the meeting to order at 12:07 p.m. Roll was called by Ms. Grace Kast and a quorum of the Board was declared.

BOARD MEMBERS PRESENT:

Okina Dor	Artesia
Jordan Monroe	Avalon
Robert Linton (alternate)	Bell
Chau Vu	Bell Gardens
Bernardo Iniguez (alternate)	Bellflower
Mike O'Grady (alternate)	Cerritos
Gina Nila	Commerce
Dan Mueller (alternate)	Downey
Mark Stowell	La Mirada
Lisa Rapp	Lakewood
Melissa You	Long Beach
Christopher Garner	Long Beach Water District
James Vernon	Port of Long Beach
Cecilia Amaya	Montebello
Adriana Figueroa	Paramount
Kenner Guerrero (alternate)	Pico Rivera
Sarina Morales-Choate (alternate)	Santa Fe Springs
Kelli Tunnicliff	Signal Hill
Claudia Arellano (alternate)	Vernon
Kyle Cason	Whittier
Esther Rojas (alternate)	WRD

STAFF AND GUESTS ON SIGN-IN SHEET:

Grace Kast	Executive Officer
Traci Gleason	Program Administrative Manager
Nicholas Ghirelli	Legal Counsel
Glen Kau	Compton
Jillian Croci	Long Beach Water District
John Hunter	John L. Hunter & Associates
Dan Villines	BKF Engineers

STAFF AND GUESTS (continued):

Sully Saro
Bill Minasian

Rivers and Mountains Conservancy
Downey Resident

ITEM 3 - ADDITIONS TO THE AGENDA

None.

ITEM 4 - ORAL COMMUNICATIONS TO THE BOARD

None.

ITEM 5 - CONSENT CALENDAR

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

AYES: Dor, Monroe, Iniguez, Nila, Stowell, Rapp, Vernon, Amaya, Figueroa, Morales-Choate, Tunnickliff, Arellano, Rojas

NOES: None.

ABSTAIN: (Minutes only) O'Grady, Mueller, Guerrero, Garner, Cason

Director Linton entered at 12:10 p.m.

ITEM 6 - DISCUSSION/ACTION REGARDING AMENDING THE GWMA BYLAWS TO ACCEPT THE AUTOMATIC RE-APPOINTMENT OF BOARD MEMBERS AND ALTERNATES FOR THE FOLLOWING TWO-YEAR TERMS WITHOUT FURTHER ACTION OF MEMBER AGENCY'S LEGISLATIVE BODY.

GWMA bylaws addresses the appointment of members of the board of governors. Section 1 states that all board member terms will be 2 years, starting on October 1st of each odd-numbered years and terminating on September 30th, two years later. Section 3 states that a member agency may appoint a member of its legislative body to the GWMA Board by minute action or appoint other persons to the GWMA Board by adoption of a resolution.

The bylaws impose a mandatory duty on member agencies' legislative bodies to re-appoint their designated board members and alternates every two years, before the new term begins on October 1st. The bylaws also do not address the unique situation where a member agency who has very recently appointed its board member and alternates for the current term, is asked to quickly re-appoint a new board member and alternates, who are likely the same persons, for the next term.

While deliberating this bylaw amendment at the July Board Meeting, the Board expressed interest in amending the Bylaws to authorize all current board members and alternates, regardless of when they were appointed, to be automatically re-appointed for successive terms.

Per the direction of the Board, staff proposed language to the Bylaws for the Board to take action. Additionally, staff also revised and distributed via email GWMA's template resolution for each Member Agency's Council/Board to clearly designate that their board member and alternate(s) for the forthcoming term beginning October 1st will continue to serve successive terms.

Director Okina motioned for the amendment of the Bylaws to accept the automatic re-appointment of current board members and alternates appointed in office as of September 30th of an odd numbered year for the following full two-year term without further action of the Member agency's legislative body, unless the Member agency provides written notice of an alternate Board appointee prior to October 1st of that year. The motion was seconded by Director Garner and was approved by the following voice vote:

AYES: Dor, Monroe, Linton, Iniguez, O'Grady, Nila, Mueller, Stowell, Rapp, Garner, Vernon, Amaya, Figueroa, Guerrero Morales-Choate, Tunnicliff, Arellano, Cason, Rojas

NOES: None.

ABSTAIN: None.

**ITEM 7 – DISCUSSION/ACTION REGARDING SECOND AMENDMENT TO THE
MEMORANDUM OF UNDERSTANDING FOR LOWER LOS ANGELES
RIVER UPPER REACH 2 “LAR UR2”**

The existing MOU between GWMA and LAR UR2 Watershed Group expires December 31, 2019. Both parties wish to extend the MOU's term through December 31, 2024, so that the Watershed Group can continue to implement the Group's watershed management program (WMP) and coordinated integrated monitoring program (CIMP) to comply with MS4 Permit requirements with the support of GWMA's consultant, including the process of updating the WMP and CIMP through adaptive management.

GWMA's direct and indirect administrative costs will be accounted for and paid from the GWMA administrative fee collected annually.

Director Nila motioned to approve the second amendment to the MOU and authorize the Chair to execute the MOU Amendment. The motion was seconded by Director Figueroa and was approved by the following voice vote:

AYES: Dor, Monroe, Linton, Iniguez, O'Grady, Nila, Mueller, Stowell, Rapp, Garner, Vernon, Amaya, Figueroa, Guerrero Morales-Choate, Tunnicliff, Arellano, Cason, Rojas

NOES: None.

ABSTAIN: None.

ITEM 8 – DISCUSSION/ACTION REGARDING THE FIRST AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT WITH RICHARD WATSON & ASSOCIATES, INC. FOR THE LOS CERRITOS CHANNEL

The Los Cerritos Channel (LCC) Watershed group is requesting GWMA to amend the Professional Services Agreement with Richard Watson & Associates (RWA) to: (1) amend the scope of work to include feasibility studies for projects that may be included in the LCC Group's Watershed Area Storm Water Investment Plan and update the scope of services to reflect current consultant projects; (2) update RWA's rate sheet; (3) Increase the payment by an additional one-time, not to exceed amount of \$225,000 for work related to the feasibility study; and, (4) clarify that the current not to exceed amount of \$650,000 is an annual amount based on the Group's approved annual budget. The term of the Professional Services Agreement will expire on September 30, 2026.

Director Figueroa motioned to approve the first amendment to the Professional Services Agreement between GWMA and RWA for the LCC Watershed Group. The motion was seconded by Director Iniguez and was approved by the following voice vote:

AYES: Dor, Monroe, Linton, Iniguez, O'Grady, Nila, Mueller, Stowell, Rapp, Garner, Vernon, Amaya, Figueroa, Guerrero Morales-Choate, Tunnicliff, Arellano, Cason, Rojas

NOES: None.

ABSTAIN: None.

ITEM 9 – DISCUSSION/ACTION REGARDING ADOPTION OF THE 2017 UPDATED GREATER LA IRWM PLAN

In 2015, the GWMA Board of Directors approved joining the Greater LA IRWM and subsequently also approved the 2014 Greater LA IRWM Plan Update for purposes of the 2015 Proposition 84 Final Round IRWM Grant process. The resolution adopted by GWMA was specific for Proposition 84 funding.

Currently, the Proposition 1 Round 1 Greater LA IRWM grant process is underway, and GWMA is applying on behalf of two GWMA-member projects as the project proponent. As part of the Greater LA IRWM grant process, the Department of Water Resources requires that project proponents must adopt the 2017 Updated Greater LA IRWM Plan for the current round.

Director Rojas motioned to approve Resolution No. 19-2, adopting the 2017 Updated Greater LA IRWM Plan. The motion was seconded by Director Garner and was approved by the following voice vote:

AYES: Dor, Monroe, Linton, Iniguez, O'Grady, Nila, Mueller, Stowell, Rapp, Garner, Vernon, Amaya, Figueroa, Guerrero Morales-Choate, Tunnicliff, Arellano, Cason, Rojas

NOES: None.

ABSTAIN: None.

Director You entered at 12:15 p.m.

ITEM 10 – STATUS REPORT UPDATE ON GWMA FUNDING STRATEGY & GRANTS PROGRAM

Agenda Item was removed.

ITEM 11 – UPDATE ON BACTERIA SCIENTIFIC STUDY AND ZINC PETITION

Agenda Item was removed.

ITEM 12 – UPDATE ON MS4 PERMIT LITIGATION AND IMPACT ON GWMA

The cities of Gardena and Duarte have filed a lawsuit challenging the 2012 MS4 Permit and seeking to void the Permit, including Enhanced Watershed Management Plans (EWMPs). Legal counsel Mr. Nick Ghirelli reported that Judge Sanders has not issued a judgment yet and that he will continue to provide a status update on the MS4 Permit Litigation as information becomes available.

ITEM 13 - GATEWAY REGION WATERSHED MANAGEMENT GROUPS ORAL REPORT

Lower Los Angeles River Upper Reach 2 Watershed Group

The final design for the John Anson Ford Infiltration Cistern Project is complete and the construction documents are out to bid.

Lower Los Angeles River Watershed Group

The next LSGR meeting will be held September 23rd. The watershed group authorized the development of 10% plans for two regional projects - Spane Park (in Paramount) and for Furman Park (in Downey).

Los Cerritos Channel Watershed Group

Construction is underway for Caruthers Park Stormwater and Urban Runoff Capture Project.

Lower San Gabriel River Watershed Group

The next LSGR meeting will be held September 19th.

ITEM 14 – EXECUTIVE OFFICER’S ORAL REPORT

Executive Officer Grace Kast announced Southern California Water Coalition is having a stormwater workshop “Innovative Solutions for Stormwater Capture” on September 27th at Los Angeles County Public Works in Alhambra. Copies of the program agenda were made available to the Directors.

Ms. Kast noted that recently Pico Rivera has been in the news regarding the condition of their groundwater supply. The concern is becoming a growing issue statewide and nationwide. The Board requested for Executive Officer Grace Kast to coordinate with Gateway Cities Council of

Government Executive Director Nancy Pfeffer to host a Gateway-wide workshop for the region's elected officials and managers regarding the issue.

Director Chau entered at 12:25 p.m.

ITEM 15 – DIRECTORS' ORAL COMMENTS/REPORT

None.

The next regular Board Meeting of the Directors of the Gateway Water Management Authority will be on Thursday, October 10, 2019 at 12:00 p.m. at the Progress Park Plaza, 15500 Downey Avenue, Paramount, CA.

The meeting was adjourned at 12:30 p.m., to the special board meeting scheduled for 12:40 p.m. on September 12, 2019.

Lisa Rapp, Chair

Date

**MINUTES OF THE GATEWAY WATER MANAGEMENT AUTHORITY
LOS ANGELES GATEWAY REGION
INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
BOARD
AT PARAMOUNT, CALIFORNIA
THURSDAY, SEPTEMBER 12, 2019**

A special meeting of the Board of Directors of the Gateway Water Management Authority was held on Thursday, September 12, 2019 at 12:40 p.m. at the Progress Park Plaza, 15500 Downey Avenue, Paramount, CA.

Chair Lisa Rapp called the meeting to order at 12:40 p.m. Roll was called by Ms. Grace Kast.

BOARD MEMBERS PRESENT:

Okina Dor	Artesia
Jordan Monroe	Avalon
Robert Linton (alternate)	Bell
Chau Vu	Bell Gardens
Bernardo Iniguez (alternate)	Bellflower
Mike O'Grady (alternate)	Cerritos
Gina Nila	Commerce
Dan Mueller (alternate)	Downey
Mark Stowell	La Mirada
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Kelli Tunnicliff	Signal Hill
Claudia Arellano (alternate)	Vernon
Kyle Cason	Whittier
Esther Rojas (alternate)	WRD

STAFF AND GUESTS ON SIGN-IN SHEET:

Grace Kast	Executive Officer
Traci Gleason	Program Administrative Manager
Nicholas Ghirelli	Legal Counsel
John Hunter	John L. Hunter & Assoc.

ITEM 3- ADDITIONS TO THE AGENDA

None.

ITEM 4 - ORAL COMMUNICATIONS TO THE BOARD

None.

**ITEM 5 – CLOSED SESSION - CONFERENCE WITH LEGAL COUNSEL –
ANTICIPATED LITIGATION**

No reportable action.

The meeting was adjourned at 1:18 p.m., to the next regular board meeting scheduled at 12:00 p.m., on October 10, 2019 at the Progress Park Plaza, 15500 Downey Avenue, Paramount, CA.

Lisa Ann Rapp, Board Chair

Date



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

November 14, 2019

AGENDA ITEM 7b – Ratify the Warrant Register for October 2019, and Approve the Warrant Register for November 2019

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 Traci Gleason, serving as the Administrative/Accounting Manager of the Gateway Water Management Authority, upon Board Approval.

DISCUSSION:

The Warrant Register for expenditures dated October 2019 in the amount of \$335,220.89 is submitted for ratification by the Board, and the Warrant Register for expenditures dated November 2019 in the amount of \$213,677.97 is submitted for approval. Invoices and supporting documentation are available for review at the office of the GWMA.

FISCAL IMPACT:

The Warrant Registers total \$548,898.86. Funds to cover payment are available in the GWMA budget.

RECOMMENDATION:

Ratify the Warrant Register for October 2019, and Approve the Warrant Register for November 2019.

Lisa Rapp (Lakewood), Board Chair • Adriana Figueroa (Paramount), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
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WARRANT REGISTER
DISBURSEMENT JOURNAL
OCTOBER 2019

AGENDA ITEM: 7b

Invoice Date	Vendor	Invoice Number	Description	Amount
9/15/2019	Alliant Insurance Services	5317	Special Liability Insurance Program	\$ 11,294.70
1/18/2019	Central Basin MWD	2018-7	Prop 84 Grant - Project #2 Claim #6 Category A Reimbursement Only	\$ 735.42
1/18/2019	Central Basin MWD	2018-8	Prop 84 Grant - Project #2 Claim #7 Category A Reimbursement Only	\$ 551.56
1/18/2019	Central Basin MWD	2019-2	Prop 84 Grant - Project #2 Claim #8 Category A Reimbursement Only	\$ 4,015.52
10/1/2019	Central Basin MWD	2018-00000005	Prop 84 Grant - Project #3 Claim #6	\$ 37,088.19
10/1/2019	City of Paramount	4183	Office Rent for September 2019	\$ 360.32
10/1/2019	City of Paramount	4185	GWMA September 12th Board Meeting Expense Reimb.	\$ 25.10
9/4/2019	Clifton Larson Allen	2241844	Accounting Services Aug 1 through Aug 31, 2019	\$ 1,500.00
9/30/2019	Gateway Cities Council of Governments	9/30/2019	Office Supplies, Computer Software Update, FedEx	\$ 143.16
9/13/2019	John L. Hunter and Associates	GANPLA0819	LLAR WMP Implementation (services 8/1/19 - 8/31/19)	\$ 16,746.17
9/16/2019	John L. Hunter and Associates	GANPSG0819	LSGR Implementation (services 7/1/19 - 8/31/19)	\$ 170,704.11
10/1/2019	Koa Consulting	K114-01-20	COG Water-Related Coordination Activities and Executive Officer Services, DAC Chair and DACIP Co-Chair	\$ 33,908.00
9/17/2019	Richard Watson & Associates	19-192-003-009	Development and Implementation of WMP & Implementation of CIMP for Los Cerritos Channel (Services for Aug 2019)	\$ 56,607.64
9/12/2019	Richards Watson Gershon	223440	General Legal Services through August 31, 2019	\$ 989.30
9/12/2019	Richards Watson Gershon	223441	MS4 Permit MOU (LARUR2)	\$ 157.50
9/9/2019	Roger's Catering	42434	Catering for September 2019 Board Meeting	\$ 394.20
Total				\$ 335,220.89

Reviewed and Approved by:


Kelli Tunnicliff, GWMA Secretary and Treasurer



WARRANT REGISTER
DISBURSEMENT JOURNAL
NOVEMBER 2019

AGENDA ITEM: 7b

Invoice Date	Vendor	Invoice Number	Description	Amount
10/4/2019	Anchor QEA	63717	RMC Compliance Monitoring FY 18/19 (Services 7/1/19-8/31/19)	\$ 31,132.30
10/4/2019	Anchor QEA	64440	RMC Compliance Monitoring FY 19/20 (Services 7/1/19-8/31/19)	\$ 4,114.61
11/1/2019	City of Paramount	4199	Office Rent for November 2019	\$ 360.32
10/31/2019	Clifton Larson Allen	2299450	Accounting Services October 1 through October 31, 2019	\$ 1,500.00
11/5/2019	Clifton Larson Allen	2302245	Accounting Services September 1 through September 30, 2019	\$ 1,500.00
10/14/2019	CWE	19730	LAR UR2 WMA CIMP Plan Implementation (Services 7/1/19-9/30/19)	\$ 37,789.01
10/31/2019	Gateway Cities Council of Governments	10-31-19	Office Supplies, FedEx	\$ 186.58
10/21/2019	John L. Hunter and Associates	GANPLA0919	LLAR WMP Implementation (services 9/1/19 - 9/30/19)	\$ 54,576.49
11/4/2019	Koa Consulting	K114-01-21	COG Water-Related Coordination Activities and Executive Officer Services, DAC Chair and DACIP Co-Chair	\$ 33,908.00
10/15/2019	Richard Watson & Associates	19-192-003-010	Develop and Implement WMP & Implement CIMP for Los Cerritos Channel (Services for Sept 2019)	\$ 45,573.16
10/10/2019	Richards Watson Gershon	223841	General Legal Services through Sept 30, 2019	\$ 3,037.50
Total				\$ 213,677.97

Reviewed and Approved by:


Kelli Tunnicliff, GWMA Secretary and Treasurer



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

November 14, 2019

AGENDA ITEM 7c – Status of Total Legal Expenditures for General Legal Counsel Services for Fiscal Year 2019/2020

SUMMARY:

At the Board meeting in June 2019, the Board approved the budget for legal counsel services of \$50,000 for Fiscal Year (FY) 2019/2020 to address legal issues. The Board has previously directed staff to provide monthly updates on total expenditures for legal counsel services.

Legal Counsel Services Update:

\$ 50,000.00	FY 2019/2020 Budget amount for Legal Counsel services
<u>\$ 5,623.60</u>	Expenditures for Legal Counsel services through September 30, 2019
\$ 44,676.40	Remaining budget amount available through June 30, 2020

FISCAL IMPACT:

The total expenditures for Legal Counsel services for FY 2019/2020 through September 30, 2019 total \$5,623.60. Sufficient funds to cover payment for legal counsel services is remaining in the GWMA FY 2019/2020 budget.

RECOMMENDATION:

Receive and file the status the updated expenditures for Legal Counsel Services.

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

November 14, 2019

AGENDA ITEM 8 – Discussion/Action Regarding the Third Amendment to the Professional Services Agreement with CWE Corporation Relating to Implementation of the Los Angeles Upper Reach 2 Coordinated Integrated Monitoring Program.

SUMMARY:

The Los Angeles River Upper Reach 2 (LAR UR2) Watershed group is requesting GWMA to amend the Professional Services Agreement (PSA) with CWE Corporation to include LAR UR2 Watershed Management Area (WMA) Coordinated Integrated Monitoring Program (CIMP) implementation services from July 1, 2019 through June 30, 2022 with the results of the efforts to be annually reported to the Los Angeles Regional Water Quality Control Board (LARWQCB) by December 15, and to increase compensation for the additional services.

BACKGROUND:

In February 2015, GWMA entered into a PSA with CWE Corporation as recommended by the LAR UR2 Watershed Group for the implementation of the LAR UR2 WMA CIMP for work to be completed during Fiscal Year (FY) 2014/2015 and FY 2015/2016.

The first amendment to the PSA was executed in February 2016 to extend the PSA terms through February 19, 2018.

The second amendment to the PSA was executed in April 2018 to extend the PSA term through December 31, 2019, amend the scope of services to include LAR UR2 WMA CIMP implementation services from January 1, 2018 through June 30, 2019, with the results of those efforts reported to LARWQCB by December 2019, and to increase compensation for the additional services.

The LAR UR2 Watershed group now wishes to amend the Professional Services Agreement to:

- 1) Amend the Scope of Work in Exhibit A of the Agreement to include LAR UR2 WMA CIMP implementation services from July 1, 2019 through June 30, 2022, with the results of those efforts to be annually reported to the LARWQCB by December 15.

Lisa Rapp (Lakewood), Board Chair • Adriana Figueroa (Paramount), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
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- 2) Increase the consideration paid to CWE Corporation by a total not to exceed amount of One Million One Hundred Forty-Two Thousand Six Hundred Eleven Dollars and Zero Cents (\$1,142,611.00).

FISCAL IMPACT:

Legal and Staff Time to prepare amendment for Board approval which is paid from fees collected for GWMA Administrative Costs.

RECOMMENDATION:

- a. Approve the Third Amendment to the PSA between GWMA and CWE Corporation for the LAR UR2 Watershed Group.
- b. Authorize the Chair to execute the Third Amendment to the PSA with CWE Corporation.

Lisa Rapp (Lakewood), Board Chair • Adriana Figueroa (Paramount), Vice-Chair • Kelli Tunnicliff (Signal Hill), Secretary/Treasurer
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**THIRD AMENDMENT TO THE AGREEMENT BETWEEN THE GATEWAY WATER
MANAGEMENT AUTHORITY AND CWE CORPORATION FOR THE LOS ANGELES
RIVER UPPER REACH 2 WATERSHED GROUP**

THIS THIRD AMENDMENT to that certain Professional Services Agreement for Implementation of the Los Angeles River Upper Reach 2 Coordinated Integrated Monitoring Program (PSA) by and between the Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority, also referred to as the Gateway Water Management Authority (GWMA), and CWE Corporation, a CALIFORNIA CORPORATION ("Consultant"), is made and entered into as of November 14, 2019. In consideration of the mutual covenants and conditions set forth herein, the Parties agree as follows:

1. Recitals. This Third Amendment is made with respect to the following facts and purposes:
 - a. On February 19, 2015, the GWMA and Consultant entered into the PSA for implementation of the Los Angeles River Upper Reach 2 Watershed Management Area (LAR UR2 WMA) Coordinated Integrated Monitoring Program (CIMP) in the amount of Two Hundred Forty Thousand Dollars (\$240,000.00) for work to be completed during Fiscal Year 2014/15 and Two Hundred Ninety-Seven Thousand Two Hundred Five Dollars (\$297,205.00) for work to be completed during Fiscal Year 2015/16.
 - b. Pending Los Angeles Regional Water Quality Control Board (LARWQCB) Executive Officer approval of the LAR UR2 WMA CIMP Plan, the GWMA approved a First Amendment to the PSA on February 11, 2016. This First Amendment extended the PSA's term through February 19, 2018.
 - c. On February 19, 2016, the LARWQCB Executive Officer approved the LAR UR2 WMA CIMP Plan, allowing water quality monitoring work originally planned to begin during Fiscal Year 2014/15 to start in Fiscal Year 2016-17.
 - d. On April 12, 2018, the GWMA approved a Second Amendment to the PSA to extend the PSA's term through December 31, 2019, increase the consideration paid to Consultant to a total not to exceed amount of One Million Nine Hundred Fourteen Thousand Nine Hundred Ninety-Six Dollars and Ten Cents (\$1,914,996.10), and amend the scope of services to include LAR UR2 WMA CIMP implementation services from January 1, 2018 through June 30, 2019, with the results of those efforts reported to the LARWQCB by December 2019.

- e. The LAR UR2 WMA Permittees continue to be satisfied with CIMP Implementation progress and have directed the Consultant to continue work.
 - f. The purpose of this Third Amendment is to extend the PSA's term through December 15, 2022, increase the consideration paid to Consultant by a total not to exceed amount of One Million One Hundred Forty-Two Thousand Six Hundred Eleven Dollars and Zero Cents (\$1,142,611.00), and amend the scope of services to include LAR UR2 WMA CIMP implementation services from July 1, 2019 through June 30, 2022, with the results of those efforts to be annually reported to the LARWQCB by December 15.
 - g. Upon execution of this Third Amendment, the PSA's total not to exceed amount for all services performed under the PSA will be Three Million Fifty-Seven Thousand Six Hundred Seven Dollars and Ten Cents (\$3,057,607.10).
2. Section 3 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 December 15, 2022, unless terminated earlier in accordance with the terms of this Agreement or extended by the GWMA Governing Board."
3. The first paragraph of Section 6 of the PSA entitled "COMPENSATION AND METHOD OF PAYMENT" is hereby amended to read as follows:
- "GWMA shall pay Consultant, for the Services performed:
- A not to exceed amount of Three Million Fifty-Seven Thousand Six Hundred Seven Dollars and Ten Cents (\$3,057,607.10) for all Services performed under this Agreement and identified in Exhibit A, unless authorized by the GWMA and approved as an amendment to this Agreement. Of this amount, One Million One Hundred Forty-Two Thousand Six Hundred Eleven Dollars and Zero Cents (\$1,142,611.00) is authorized for the Services specifically identified in Exhibit A of the Third Amendment to this Agreement, in accordance with the fee schedule included therein."
4. Exhibit A to the PSA is hereby amended to include Attachment "A" to this Third Amendment, which is attached hereto and incorporated herein as though set forth in full.
5. Except for the changes specifically set forth herein, all other terms and conditions of the PSA shall remain in full force and effect.

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

GWMA

Consultant

Gateway Water Management Authority

CWE Corporation

By: _____
Lisa Ann Rapp, GWMA Chair

By: _____
Jason Pereira, Principal

APPROVED AS TO FORM:

By: _____
Vik Bapna, Principal

By: _____
Nicholas Ghirelli
General Counsel

(Note that two signatures are required for corporations pursuant to California Corporations Code Section 313.)

Gateway Water Management Authority (GWMA)**Los Angeles River Upper Reach 2 Watershed Management Area
Coordinated Integrated Monitoring Program Plan Implementation
Revised Proposal Scope of Work for March 1, 2015 to December 15, 2016****Project Approach**

The CWE Team understands and appreciates that the Los Angeles River Upper Reach 2 Watershed Management Area (LAR UR2 WMA) has unique geographic, social, and cultural characteristics that must be considered, while protecting existing receiving water beneficial uses and alleviating observed, or perceived, water quality impairments that impede the current enjoyment of historic beneficial uses. While local water quality objectives may require decades to achieve, preparation of the initial Watershed Management Program (WMP) and Coordinated Integrated Monitoring Program (CIMP) Plans, which will likely be approved by the Regional Water Quality Control Board, Los Angeles Region (LARWQCB) Executive Officer during the Spring of 2015, represents the attainment of a significant milestone. Through implementation of the approved CIMP, the LAR UR2 WMA will develop locally-relevant water quality monitoring data, demonstrate compliance with portions of the 2012 Municipal Separate Storm Sewer System (MS4) Permit, and guide the revision of future RAAs and WMPs so that compliance water quality objectives may be achieved as quickly and cost-effectively as possible.

While the October 9, 2014 Gateway Water Management Authority (GWMA) Request for Proposals (RFP) Purpose section states that the contract term of service is anticipated to be for three years from July 1, 2015 until November 30, 2018, CWE was requested to submit a contract Scope of Work for the period from about March 1, 2015 to December 15, 2016. This Scope of Work addresses CIMP Implementation, the First Annual Monitoring Year, and MS4 Permit Annual Reports due in December 2015 and 2016.

1.0 LAR UR2 WMA CIMP Implementation Scope of Work

CIMP implementation tasks are anticipated to begin following receipt of a Notice to Proceed (NTP) from the GWMA or LAR UR2 WMA Chair on March 2, 2015 and continue through at least June 30, 2015, so that monitoring tasks may begin as soon as possible after July 1, 2015. However, delays associated with WMA reviews, Board approval of the revised LAR UR2 WMA CIMP, and Encroachment Permit Issuance, may extend the completion of these tasks into the summer of 2015. These tasks include: kick-off, equipment selection, and field site confirmation meetings; monitoring equipment and appurtenances permitting; field data collection and inspection form development and approval; installation of monitoring equipment; along with the development of lines of communication. These implementation tasks and deliverables in this section would be completed once during the contract term of service.

Task 1.1 – Project Management, Coordination and Meetings

Project management and administration will be led by CWE and include sub consultant and analytical laboratory guidance, staff chartering, interagency coordination, scheduling, budget tracking, and invoicing, so that project deliverables arrive on-schedule and within budget. The CWE Project Manager will proactively communicate with the LAR UR2 Group Project Chair, to define meeting objectives; select conveniently-located and accessible venues; prepare concise agendas; identify, invite, and engage participants; and summarize meeting minutes with action items. Meeting agendas will be submitted electronically five (5) business days prior to the meeting date and minutes submitted electronically within five (5) business days following the meeting date. CWE will participate in coordination meetings with other Permittees, Permittee Groups, Regional Board staff, and consultants as necessary to result in the implementation of a monitoring effort that achieves the Permit objectives of being a CIMP. Using timely, concise communications; focused, results-oriented meetings; and efficient staff management, CWE will facilitate and document the LAR UR2 Group's decision making and CIMP implementation process.

Deliverables 1.1.1 – Develop a Project Schedule and Update Quarterly

A Six Year CIMP Implementation Project Schedule, accounting for all RFP identified project tasks, has been provided to the LAR UR2 WMA Permittees. This Scope of Work is limited to implementation and monitoring tasks scheduled for completion by June 30, 2016, and MS4 Permit Annual Reporting Tasks due to the Board by December 15, 2016. This schedule is subject to revision based on Permittee recommendations, LARWQCB Draft CIMP comments, and the inclusion or deletion of proposed and optional tasks at the direction of the LAR UR2 Group Chair and will be updated approximately quarterly for distribution during other Permittee meetings. One critical storm, one critical dry-weather, two qualifying storm, and one qualifying dry-weather monitoring events will be scheduled annually.

Deliverables 1.1.2 – Kick-Off Meeting

Within two (2) days of Notice to Proceed (NTP) receipt, the CWE Project Manager will prepare and electronically submit to the LAR UR2 Group Chair, a CIMP Implementation Project Kick-off Meeting agenda, identifying a morning date within seven (7) working days of NTP receipt. Agenda items will, at a minimum, include LARWQCB CIMP approval status, Scope of Work confirmation, the draft field log form identified in RFP Task 2.3.1, a discussion of any Optional Tasks or Suggested Task Modifications, Monitoring Equipment Procurement Options, and any other pertinent project and administrative details.

Deliverables 1.1.3 – Field Sampling Site Location Kick-Off Meeting

Within two (2) days of NTP receipt, the CWE Project Manager will prepare and electronically submit to the LAR UR2 Group Chair, a CIMP Field Sampling Site Location Kick-off Meeting agenda, identifying an afternoon date within seven (7) working days of NTP receipt. The agenda will identify the eight (8) proposed CIMP monitoring locations and a visitation schedule.

Deliverables 1.1.4 – Prepare One Quarterly Project Budget Status Summary

In advance of the first task 2.1.1 group meeting, CWE will prepare a quarterly memoranda, summarizing expended and remaining task budgets, estimated percent work completed, work not completed, and a justification as to why it was not completed, had become unnecessary, or budget diverted to other tasks.

Task 1.2 – CIMP Implementation Tasks

Assuming issuance of a prior NTP, CWE will begin implementation within ninety (90) days of being advised of LARWQCB Executive Officer Approval of the Draft LAR UR2 WMA CIMP. Initial implementation activities include kick-off meetings, equipment procurement, encroachment permit application, development of a Health and Safety Plan (HASP), and finalization of the Quality Assurance Project Plan (QAPP) based on client contacts, consultant, and laboratory selection data. Monitoring will be initiated as soon as practical; however, if permitting or other delays are encountered, the LAR UR2 Group Chair may authorize that only a portion of the planned monitoring is completed, or that the schedule for the rotating sites be modified to reflect the permitting or operational status of the individual monitoring locations. Monitoring equipment procured under this contract will remain the property of the LAR UR2 Group Permittees, along with the responsibility for theft, loss, damage, vandalism, and maintenance.

Deliverable 1.2.1 – Monitoring Equipment Selection Memorandum

Following the Kick-Off meetings, the CWE Team will prepare a Technical Memorandum (TM#1) summarizing monitoring equipment options, their pros and cons, costs, procurement timeframes; permitting requirements, application review time, costs; recommended installation concept approaches, operation and maintenance, for the receiving water, fixed, and outfall monitoring sites. The LAR UR2 Group Chair will have two weeks to review the contents of TM#1, prior to its revision and finalization.

The Group Chair will be advised of anticipated equipment delivery dates, prior to ordering, for potential coordination with Permitting review. Unforeseen delays in TM#1 review, equipment delivery, permitting, or installation coordination may result in an extension of the 90 day deadline for installation of monitoring equipment and appurtenances.

Deliverables 1.2.2 – Field Sampling Site Permitting

Most of the monitoring sites will require Los Angeles County Department of Public Works (or Flood Control District) Encroachment Permits and the LAR UR2-RW site, will likely additionally require a United States Army Corps of Engineers Permit, and/or Union Pacific Railroad Approval. While the County has planned for the consideration of these CIMP-related Permit Applications, the LAR UR2 WMA is likely to be among the first applicants, which may result in an extended initial review processes. Significant pre- and post-application communications, with the Permitting agencies, will be shared with the LAR UR2 Group Chair and electronic copies of the applications provided to the Group.

Deliverable 1.2.3 – Monitoring Event Mobilization Standard Operating Procedures (SOPs)

A Technical Memorandum (TM#2) detailing sampling team activation procedures as identified in the RFP and annual monitoring section, decision criteria, website (and rain gauge) information, draft field reports forms, identified staff supporting sampling, and key monitoring personnel contact information, will be provided to the LAR UR2 Group Chair for review. The TM will reflect the following RFP identified criteria, pending any revisions necessitated during Regional Board review of the Draft CIMP.

CWE will be responsible for Monitoring Event Mobilization (MEM) and shall notify the LAR UR2 Group Chair, and Permittees, at the email addresses identified in the QAPP, 56 to 40 hours prior the start of dry-weather or forecasted qualifying storm event start. This will be repeated at 32 to 16 hours prior to the forecasted start of the qualifying event, and once monitoring equipment has been installed and is ready for storm flow initiated activation in the field. For emails not initiated from the field, the following supporting information will be provided based on National Weather Service (NWS) forecasts:

- a) Forecast date and starting period for the storm event
- b) Forecast highest 24-hour rainfall depth during the storm event
- c) Forecast precipitation probability during the storm event starting period
- d) Source(s) of the items (a) through (c)
- e) Tests to be run on samples taken at each site (may be an attachment)
- f) Confirmation that the laboratory has been notified to expect samples
- g) Name and cell phone number(s) of CWE's storm event coordinator

In the event that a predicted storm event does not produce runoff-generating flows, an applicable dry-weather sample may be collected. CWE will make reasonable effort to advise the Permittees in advance of MEM, however we cannot be responsible for failed communications, changed addresses, changing Permittee staff assignments, communication systems without voice mail, and auto reply delivery failure messages. Additional notifications to the LAR UR2 Group Chair, can be accommodated; however, we suggest that they be limited to equipment readiness and event demobilization. Typically the latter occurs shortly after sample delivery to the laboratory and is significantly redundant.

Deliverable 1.2.4 – Revise and Finalize the CIMP Quality Assurance Project Program (QAPP)

Appendix E of the Draft LAR UR2 CIMP, is a generic QAPP that must be finalized to identify client contacts, implementing consultant, staffing assignments, analysis protocols for the selected laboratory, and other project specific information protocols and procedures. In addition, the regulatory authority often reviews and sometimes must approve the project QAPP prior to monitoring, although this is typically more true of grant supported research studies rather than for MS4 Permit compliance

monitoring. Sample collection and field measurements will be performed in accordance with the process and procedures set forth in the final project QAPP. The CWE Team will revise the generic QAPP in the CIMP and submit a final QAPP identifying contact and individual staffing assignments prior to the start of any field work in connection with this project.

Deliverables 1.2.5 – Develop Health And Safety Plan (HASP)

Following receipt of the NTP, but prior to beginning monitoring or intensive site investigations, a project specific HASP will be developed by CWE and submitted for review by Brian Bensen of Weston Solutions, a Certified Industrial Hygienist. The project specific HASP includes emergency contact information, site access, site safety, and directions for attaining urgent, or emergency, health care and other emergency services. It is intended to be an integral part of the project field monitoring and safety equipment. CWE will develop and submit an electronic Portable Document File (PDF) version of the HASP prior to the start of any field work in connection with this project.

Task 1.3 –Non-Stormwater Outfall Screening and Monitoring

Within seven (7) calendar days following Regional Board CIMP approval, HASP approval, and field log form approval, the CWE Team will be prepared to commence the multi-step Non-Stormwater (NSW) Outfall Screening and Monitoring Program to identify and address NSW discharges, as described in the CIMP. While planned for the Spring of 2015, the task may be deferred due to late season rainfall and groundwater derived, false NSW, discharge observations. The CWE Team will refer to Section 5 of the Board Approved LAR UR2 WMA CIMP for program specifics. The CWE Team will prioritize NSW sources for assessment and investigation, in an effort to identify potential sources of significant discharge based on flow or water quality characteristics. The CWE Team will notify the relevant Permittees immediately, if a potential illicit discharge as defined in the MS4 Permit is observed during field screening activities.

Deliverable 1.3.1 – Develop and Submit Outfall Field Log Form

Within two (2) days of NTP receipt, the CWE Project Manager will prepare and electronically submit to the LAR UR2 Group Chair, a draft field log form upon which to collect outfall information as identified in RFP Task 2.3.1. At a minimum, the form will cause data to be acquired about outfall dimensions, water quality characteristics, and receiving water conditions. The form shall be approved by the LAR UR2 Group Chair prior to initiating the multi-step NSW Outfall Screening and the Monitoring field program.

Deliverable 1.3.2 – NSW Outfall Monitoring Data Collection and Analysis

Using the approved field log form (deliverable 1.3.1), conduct NSW Outfall Screening and Monitoring as characterized by Table 5-3 of the draft CIMP and following the protocols identified in the Approved CIMP. Summarize and analyze the collected outfall characteristics and monitoring data for flowing outfall sites observed during the screening event. CWE will submit a post-event Technical Memorandum (TM#3) within 30 calendar days after conclusion of the NSW Outfall Screening event.

Deliverable 1.3.3 – Photo-Document NSW Outfall Screening Conditions

Scanned copies of field logs and photo-documentation of discharged conditions will be archived in accordance with the CIMP to meet Monitoring and Reporting Program requirements. The photos will be in an electronic format and show, but not be limited to, outfall condition, non-stormwater discharge, and upstream and downstream receiving water conditions.

Deliverable 1.3.4 – Prioritize NSW Outfalls for Discharge Source Assessment

Develop a Technical Memorandum (TM#4) that identifies and prioritizes outfalls with significant NSW discharges based on the criteria in the CIMP (Final Draft CIMP – Table 5-1). This TM will include a prioritization of outfalls for NSW Discharge Source Assessment based on CWE's Best Professional Judgment and following the MS4 Permit and CIMP procedures and investigation schedule.

Deliverable 1.3.5 – Maintain Database of MS4 Outfalls in the LAR UR2 WMA

CWE has previously developed and populated a Microsoft Excel® workbook of worksheets for interim use by the LAR UR2 Group in complying with the 2012 MS4 Permit outfall database requirements. The relevant inspection and monitoring worksheet fields, as described in Section 5.3 of the Draft CIMP, within that database shall be updated with the outfall inspection and monitoring data gathered under deliverable 1.3.2. The workbook database inventory shall identify and prioritize the outfalls with known significant stormwater discharges and those outfalls which appear to require no further assessment at this time.

Task 1.4 –Monitoring Site Installations

Following NTP receipt, Regional Board Executive Officer LAR UR2 WMA CIMP Approval, and issuance of required access or installation (encroachment) permits, CWE will, within ninety (90) days, install the procured monitoring equipment appurtenances and be ready to conduct monitoring at the CIMP receiving water monitoring location LARUR2-RW, located near the rail bridge over the Los Angeles River at the eastward extension of Tweedy Lane in the City of South Gate. Furthermore, CWE will, within the same time schedule, install the procured monitoring equipment appurtenances and be ready to conduct monitoring at the CIMP Fixed Stormwater Outfall Monitoring Site LARUR2-RHO, located in the John Anson Ford North Parking Lot in the City of Bell Gardens. If issuance of the monitoring equipment installation permits is delayed, dry-weather receiving water grab samples may be collected by US Army Corps of Engineers (USACE) direct access permit, or under supervision of LACDPW staff, from the Rio Hondo and Los Angeles River channels. If flows are absent from LARUR2-RHO, conditions would be photographed and recorded. Receiving Water and Outfall water quality monitoring will be coordinated, to the degree possible, so that discharges from LAR UR2 WMA Outfalls maybe correlated with receiving water quality.

Following NTP receipt, Regional Board Executive Officer LAR UR2 WMA CIMP Approval, and issuance of required access or installation (encroachment) permits, CWE will, within ninety (90) days, install appurtenances (boxes, brackets and conduits), necessary for the procured monitoring equipment and be ready to conduct monitoring at the six (6) rotating Stormwater Outfall Monitoring Sites: Group 1, LARUR2-DRO and -EO; Group 2, LARUR2-NO and -WO; and Group 3, LARUR2-NVO and -FWO. Since these sites are intended for MS4 Permit Stormwater Outfall Monitoring elements, it is anticipated that all permitting should be complete before the start of the typical storm season in October 2015.

2.0 Annual Monitoring Tasks and Deliverables

Tasks and deliverables identified in this section are to primarily be undertaken during the period from July 1, 2015 through June 30, 2016, which is MS4 Permit identified Annual Monitoring and Reporting period, which will be characterized in the Annual Report to be submitted by December 15, 2016, as will be further discussed in the next major section. Tasks in this section would be assumed to be repeated annually, under future agreements or contracts. They include Project Management, Receiving Water and Stormwater Outfall monitoring, Laboratory Analysis, Analytical Data Management and Submission, NSW Source Assessment, and potentially, in the future, NSW Outfall monitoring, if the NSW discharge source assessments are unsuccessful in identifying and eliminating significant NSW discharge and non-, or problematic conditionally, exempt dry-weather urban runoff flows.

Task 2.1 – Project Management, Coordination and Meetings

Project management and administration will be led by CWE and include sub consultant and analytical laboratory guidance, staff chartering, interagency coordination, scheduling, budget tracking, and invoicing, so that project deliverables arrive on schedule and within budget. The CWE Project Manager will proactively communicate with the LAR UR2 WMA Project Chair, to define meeting objectives, select conveniently located and accessible venues, prepare concise agendas, identify, invite and engage participants, and summarize meeting minutes with action items. Draft meeting agendas will be submitted electronically five (5) business days prior to the meeting date and minutes submitted electronically within five (5) business days following the meeting date. CWE will participate in coordination meetings with other Permittees, Permittee Groups, Regional Board staff, and consultants as necessary to result in the implementation of a monitoring effort that achieves the Permit objectives of being a CIMP. Using timely, concise communications, focused, results-oriented meetings, and efficient staff management, CWE will facilitate and document the LAR UR2 Group's decision making and CIMP implementation process.

Deliverables 2.1.1 – Conduct Six (6) Group Meetings during the Monitoring Year

CWE will schedule, prepare agenda, presentations, and summary notes for up to six (6) LAR UR2 Group meetings between July 1, 2015 and December 15, 2016. Agenda items for discussion during these meetings include CIMP implementation status, monitoring results for the prior sampling event, equipment status and needs, changes to the analyte lists, upcoming events, reporting tasks, and discussion items.

Deliverables 2.1.2 – Attend Four (4) Intergroup Meetings

During the July 1, 2015, to June 30, 2016 monitoring year period, CWE will attend, participate in, and professionally support the LAR UR2 WMA Permittees, as they direct, in up to four (4) meetings with other Los Angeles River Watershed WMP or EWMP Groups, Regional Board staff, watershed stakeholders, or consultants, to coordinate and integrate the implementation of the several Board approved CIMPs.

Deliverables 2.1.3 – Prepare Four Quarterly Project Budget Status Summaries

In advance of the deliverable 2.1.1 group meetings, CWE will prepare quarterly memoranda, summarizing expended and remaining task budgets, estimated percent work completed, work not completed, and a justification as to why it was not completed, had become unnecessary, or budget diverted to other tasks.

Task 2.2 – Receiving Water CIMP

Assuming issuance of a prior NTP, CWE will be prepared to begin CIMP implementation within ninety (90) days of advisement of Regional Board Executive Officer approval of the LAR UR2 WMA CIMP. Monitoring will be initiated as soon as practical; however, if permitting or other delays are encountered, the LAR UR2 WMA Chair may authorize that a portion of the monitoring be completed, or the schedule for the rotating sites modified to reflect the permitting or operational status of the individual monitoring locations. Mobilization and notification procedures will follow the SOPs developed as TM #2 or deliverable 1.2.3.

Based on the 2012 MS4 Permit and CIMP criteria for critical (first storm and low flow month) and qualifying dry- and wet-weather sampling, one critical storm, one critical dry-weather, two qualifying storm, and one qualifying dry-weather Receiving Water monitoring events, at LARUR2-RW and -RHO will be scheduled prior to June 30, 2016 and annually in any future contract years. The initial list of constituents, and their frequency of analysis, are identified in the Permit and CIMP, but are subject to change based on monitoring results from completed events. Proposed analytical testing lists, for each planned event, will be provided in advance to the LAR UR2 Group Chair and Permittees, following presentation of the results from the most recently completed monitoring event.

Deliverables 2.2.1 – Conduct Receiving Water Monitoring Events

For the LARUR2-RW and LARUR2-RHO monitoring locations and each of the two (2) dry-weather and three (3) wet-weather receiving monitoring events, CWE will track weather forecasts, prepare sampling equipment, collect water quality samples, make laboratory deliveries, and have the water quality samples analyzed by standard or EPA approved methods for common parameters and pollutants. Raw electronic laboratory reports are typically certified within 21 days of collection and will be forwarded, without summary or thoughtful analysis, to the LAR UR2 WMA Group Chair.

Deliverables 2.2.2 – Prepare Post-Event Receiving Water Monitoring Memoranda

For the LARUR2-RW and LARUR2-RHO monitoring locations and each of the two (2) dry- and three (3) wet-weather receiving monitoring events, CWE prepare a brief post-event water quality summary memorandum within thirty (30) calendar days after each receiving water monitoring event. The format of these summaries should assist the LAR UR2 WMA Permittees in better understanding whether 2012 MS4 Permit Objectives and Annual Reporting requirements, such as demonstrating Permit compliance and achieving Basin Plan and Receiving Water Limitations and beneficial uses, are being addressed and provide guidance to the Permittees regarding the implementation of watershed control measures.

Task 2.3 – Stormwater Outfall CIMP

Assuming issuance of a prior NTP, CWE will be prepared to begin CIMP implementation within ninety (90) days of advisement of Regional Board Executive Officer approval of the LAR UR2 WMA CIMP. Monitoring will be initiated as soon as practical; however, if permitting or other delays are encountered, the LAR UR2 WMA Chair may authorize that a portion of the monitoring be completed, or the schedule for the rotating sites modified to reflect the permitting or operational status of the individual monitoring locations. Mobilization and notification procedures will follow the SOPs developed as TM #2 or deliverable 1.2.3.

Based on the 2012 MS4 Permit and draft CIMP, one critical (first storm) and two qualifying Stormwater Outfall monitoring events would be undertaken prior to June 30, 2016, and annually in any future contract years. The six (6) rotating Stormwater Outfall Monitoring sites are paired, with Pair 1 consisting of monitoring sites LARUR2-DRO and -EO; Pair 2 consisting of sites LARUR2-NO and -WO; and Pair 3 consisting of sites LARUR2-NVO and -FWO. During each of the three (3) storm events, one pair of rotating Stormwater Outfall Monitoring Sites would be monitored, so that each of the six rotating sites will be monitored once during the monitoring contract period. The initial list of constituents, and their frequency of analysis, are identified in the Permit and CIMP, but are subject to change based on monitoring results from completed events. Proposed analytical testing lists, for each planned event, will be provided in advance to the LAR UR2 Group Chair and Permittees, following presentation of the results from the most recently completed monitoring event.

Deliverables 2.3.1 – Conduct Stormwater Outfall Monitoring Events

For the active pair, among the six (6) rotating Stormwater Outfall Locations, during each of the three (3) Stormwater Outfall monitoring events, CWE will track weather forecasts, prepare sampling equipment, collect water quality samples, make laboratory deliveries, and have the water quality samples analyzed by standard or EPA approved methods for common parameters and pollutants. Raw electronic laboratory reports are typically certified within 21 days of collection and will be forwarded, without summary or thoughtful analysis, to the LAR UR2 WMA Group Chair.

Deliverables 2.3.2 – Prepare Post-Event Stormwater Outfall Memoranda

For the active pair, among the six (6) rotating Stormwater Outfall Locations, during each of the three (3) Stormwater Outfall monitoring events, CWE prepare a brief post-event water quality summary

memorandum within thirty (30) calendar days after each receiving water monitoring event. The format of these summaries should assist the LAR UR2 WMA Permittees in better understanding whether 2012 MS4 Permit Objectives and Annual Reporting requirements, such as demonstrating Permit compliance and achieving Basin Plan and Receiving Water Limitations and beneficial uses, are being addressed and provide guidance to the Permittees regarding the implementation of watershed control measures.

Task 2.4 – NSW Discharge Source Assessment Investigation

Following the NSW discharging Outfall prioritization approved by LAR UR2 Group Chair in TM#4 (deliverable 1.3.4), conduct NSW discharges source assessment investigations for the first third of the prioritized outfalls between July 1, 2015 and March 30, 2016. This task will be completed on a time and materials basis, as the size and complexity of the various subwatersheds vary and TM#4 has not been completed so that the clients' intent have not been fully identified.

Deliverables 2.4.1 – Conduct Monitoring and Prepare Summary Memoranda

Based on the source assessment findings, for the first third of the prioritized NSW discharging Outfalls identified in TM#4, prepare a Technical Memorandum (TM#5) identifying likely or potential NSW or exempt discharge source(s), with control recommendations, by May 31, 2016; this would be submitted to the LAR UR2 WMA Group Chair for two weeks of review and then finalized by June 30, 2016.

Task 2.5 – Data Management

The RFP accurately references 2012 MS4 Permit, Attachment E, Part XIV.L, which directs that laboratory result data submissions be submitted in Southern California Municipal Stormwater Monitoring Coalition's (SMC) Standardized Data Transfer Format (SDTFs). However, CWE has been advised by Southern California Coastal Water Research Project (SCCWRP) and Regional Board staff to anticipate that the California Environmental Data Exchange Network (CEDEN) format will be followed instead. Monitoring locations and analytical data worksheets, in the Outfall Database Excel® Workbook previously provided to the LAR UR2 WMA, were pre-configured to conform to CEDEN format so that the data would be similarly archived by the LAR UR2 Group and State Water Resources Control Board. The CWE team strategically pairs CWE and Weston Solutions staff for this task, so that critical QA/QC steps would be shared, while allowing alternative data manipulation, analysis, summary, archiving, presentation, and reporting perspectives to be compared and contrasted, leaving the LAR UR2 WMA with the best work product.

Deliverables 2.5.1 – Monitoring Event Specific Electronic Data Submission

Following the completion of each monitoring event, or major monitoring activity, the CWE Team will submit electronic data files in an appropriate electronic format, such as CEDEN or the Permit identified SMC SDTF, for review by the LAR UR2 Group Chair. The Permittee Chair will review the file and provide comments within 15 calendar days of receipt, so the CWE Team can revise and re-submit the data files within 15 calendar days from the receipt of Chair comments.

Task 2.6 – Laboratory Analysis Capabilities

The RFP indicates that the selected laboratory must have the ability to perform the water quality analyses meeting the approved/modified detection and reporting limits identified in the CIMP and MS4 Permit. In an analysis prepared in 2013, none of the 6 laboratories contacted met all of the 2012 MS4 Permit Table E-2 Minimum Level values for all parameters, although Calscience in Garden Grove, a member of the international Eurofins laboratory family, was among the better performers. Since laboratory pricing and quality controls may change over the duration of a project, CWE would propose to not contractually constrain ourselves to one environmental monitoring analytical laboratory; however, for the LAR UR2

WMA CIMP implementation project, we anticipate the vast majority of chemical water quality analytical samples will be sent to Calscience. If required, Gas Chromatography High Resolution Mass Spectrometry samples would be forwarded to the Pennsylvania Eurofins Laboratory. Toxicity or bioassays samples, including any Toxicity Identification Evaluations (TIE) or Toxicity Reduction Evaluations (TRE) would most likely be subcontracted to Aquatic Bioassay and Consulting Laboratories in Ventura. Since stormwater monitoring is inherently unpredictable and bacteria samples have a very short 8 hour hold time between sample collection and analysis, CWE is currently negotiating with Silliker Laboratories of Cypress to accept stormwater samples 24/7/365, although other laboratories, such as Test America in Irvine or Weck Laboratories in Industry may ultimately be selected for these analyses. CWE will continue to do our best to protect your budget by collecting and delivering samples during normal business hours, whenever possible. Our budget estimate and laboratory costs are based on the draft CIMP and negotiated agreement with Calscience; however, the required list of analytes is expected to expand over the period and may be subject to budget adjustments, resulting from additional analyses or more costly methods.

Deliverables 2.6.1 – Summarize Laboratory Monitoring Capabilities and ELAP Certification

The CWE Team will submit a comparison demonstrating that the environmental water quality analytical laboratory is Environmental Laboratory Accreditation Program (ELAP) certified and capable of performing the water quality analysis meeting the approved/modified laboratory detection and reporting limits described in the CIMP, and requirements of the MS4 Permit, prior to the first monitoring event.

3.0 2016 Annual Reporting Tasks and Deliverables

In addition to 2012 MS4 Permit identified mandatory semi-annual monitoring data submissions and Municipal Action Level (MAL) related reports, on January 26, 2015, at the MS4 Permit Technical Advisory Committee (TAC) meeting, LARWQCB staff proposed that Permittee Annual Reports no longer be accepted and that WMP Group Annual Reports be required beginning with the December 2106 submittal. Since the report format has not been finalized, it is unclear how the individual LAR UR2 WMA Permittees would anticipate a seamless integration of their divergent reports together, especially if common date collection formats are rejected or unused by individual members of the group.

Deliverables 3.1 – Prepare Two Quarterly Project Budget Status Summaries

Prior to and immediately following, submittal of the 2016 Annual MS4 Permit Report, CWE will prepare two quarterly memoranda, summarizing expended and remaining task budgets, estimated percent work completed, work not completed, and a justification as to why it was not completed, had become unnecessary, or budget diverted to other tasks.

Deliverables 3.2 – Submit Draft 2015 MS4 Permit Annual Report

Based on the 2001 MS4 Permit Annual Report format, using Permittee provided data applicable to that Permit Annual Report format, adding CIMP Section 10.2, and the Annual Assessment and Reporting requirements identified in MS4 Permit Attachment E, Part XVIII, the CWE Team will submit an electronic draft Annual Report to the LAR UR2 WMA Chair, no later than October 15, 2015.

Deliverables 3.3 – Submit Final 2015 MS4 Permit Annual Report

Based on comments received by November 1st, the CWE Team will revise and finalize deliverable 3.2, and submit the draft to the LAR UR2 WMA Chair, no later than November 30, 2015.

Deliverables 3.4 – July 1, 2015 to December 31, 2015 Semi-Annual Data Submission

Following approval of the electronic data, as indicated by deliverable 2.5.1, the CWE Team will prepare the first semi-annual data submission report for the period from July 1, 2015 to December 31, 2015, in accordance with MS4 Permit and/or Regional Board guidance, as characterized in CIMP Section 10.1.2. The data report will be submitted to the LAR UR2 Group Chair no later than April 15, 2016 and, once the Chair has determined the data to be responsive to the Permit MRP, either the Group Chair or CWE will submit the electronic report to the Regional Board, and obtain a confirmation of their receipt.

Deliverables 3.5 – January 1, 2016 to June 30, 2016 Semi-Annual Data Submission

Following approval of the electronic data, as indicated by deliverable 2.5.1, the CWE Team will prepare the first semi-annual data submission report for the period from January 1, 2016 to June 30, 2016, in accordance with MS4 Permit and/or Regional Board guidance, as characterized in CIMP Section 10.1.2. The data report will be submitted to the LAR UR2 Group Chair no later than October 15, 2016 and, once the Chair has determined the data to be responsive to the Permit MRP, either the Group Chair or CWE will submit the electronic report to the Regional Board, and obtain a confirmation of their receipt.

Deliverables 3.6 – Prepare Municipal Action Level (MAL) Assessment Report

The CWE Team will prepare a Municipal Action Level (MAL) Assessment Report, to be included as a Appendix to the 2016 Annual Report, in accordance with Attachment G of the MS4 Permit. The draft will be submitted to the LAR UR2 Group Chair by November 1, 2016.

Deliverables 3.7 – Prepare MAL Action Plan for MS4 Permit Annual Report

If stormwater monitoring data exceeds the MALs specified in Attachment G of the MS4 Permit, the CWE Team will prepare a MAL Action Plan, to be included as a Appendix to the 2016 Annual Report, in accordance with Attachment G of the MS4 Permit. The draft will be submitted to the LAR UR2 Group Chair by November 1, 2016.

Deliverables 3.8 – Submit Draft 2016 MS4 Permit Annual Report

Based on the format being developed by the LARWQCB, CIMP Section 10.2, and the Annual Assessment and Reporting requirements identified in MS4 Permit Attachment E, Part XVIII, the CWE Team will submit an electronic draft Annual Report to the LAR UR2 WMA Chair, no later than October 15, 2016.

Deliverables 3.9 – Submit Final 2016 MS4 Permit Annual Report

Based on comments received by November 1st, the CWE Team will revise and finalize deliverable 3.8, and submit the draft to the LAR UR2 WMA Chair, no later than November 30, 2016.



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April 3, 2018

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

Subject: January 1, 2018 to June 30, 2019 LAR UR2 WMA CIMP Implementation, including MS4 Permit Individual and Watershed Annual Reporting through December 31, 2019

Dear Ms. Kast,

CWE is pleased to submit this proposal to extend our 2015 Professional Services Agreement (PSA) with the Gateway Water Management Authority (GWMA) to provide LAR UR2 WMA CIMP Implementation services from January 1, 2018 through June 30, 2019; with the results of those efforts reported to the Los Angeles Region Water Quality Control Board (LARWQCB) by December 31, 2019. The 2015 PSA was initially intended to be annually renewed for five years; however LARWQCB Executive Officer (EO) approval of the LAR UR2 WMA Coordinated Integrated Monitoring Program (CIMP) was formally received in March 2016 and CIMP implementation initiated a year later than contractually anticipated.

LAR UR2 WMA CIMP Implementation Scope of Work

In order to avoid disruptions in ongoing CIMP implementation tasks, CWE offers this proposal to provide various water quality monitoring services to be undertaken from January 1, 2018, through June 30, 2019 and reporting services through December 31, 2019, which includes a several week overlap with the 2015 PSA. Since CWE invoiced the GWMA for services provided through December 31, 2017, a 2018 PSA stating date of January 1, 2018, provides a bright demarcation line for the initiation of new work, while June 30, 2019 is anticipated to be the last effective day for activities required by the 2012 Municipally Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit.

1. Project Management and Coordination

CWE will lead project management and administrative tasks in coordinating sub-consultant and analytical laboratory guidance, staff chartering, interagency coordination, scheduling, budget tracking, and invoicing, to ensure that project deliverables are submitted in a timely matter and within outlined due dates and budgets. The CWE Project Manager will communicate with the LAR UR2 WMA Project Chair, to define meeting objectives; select and schedule appropriate venues; prepare concise agendas; identify, invite, and engage participants/Permittees; and summarize meeting minutes with action items. Meeting agendas will be submitted electronically five (5) business days prior to the anticipated meeting date and electronic summaries provided within five (5) days following the meeting. CWE will participate in coordination meetings with other Permittees, Permittee Groups, Regional Board Staff, and consultants as necessary to result in the effective implementation of monitoring and reporting activities that achieves Permit CIMP objectives. Using timely, concise communication; focused, results-oriented meetings; and efficient staff management, CWE will assist LAR UR2 WMA decision making and CIMP implementation.

1.1 Prepare Six (6) Quarterly Budget and Schedule Updates

Beginning on August 2018, CWE will prepare six quarterly schedule and budget updates. One critical storm, one critical dry-weather, two qualifying storm, one qualifying dry-weather monitoring event, two data submissions, along with draft and final annual report submission dates will be tentatively scheduled for each MS4 Permit annual reporting period of July 1 to June 30. The budget summary will identify amounts expended, remaining task budgets, estimated percent work completed, work not yet completed, justification for incomplete tasks, and whether any task dependent budgetary diversions appear necessary. These will be distributed for consideration by Permittees during scheduled meetings, are subject to revision based on Permittee recommendations regarding the inclusion, or deletion, of proposed and optional tasks, and following the concluding direction of the LAR UR2 WMA Group Chair.

1.2 Conduct Twelve (12) LAR UR2 WMA Meetings

CWE will schedule, draft agenda, and prepare summary notes for up to twelve (12) LAR UR2 WMA meetings between January 1, 2018 and December 31, 2019. Agenda items for discussion during these meetings include WMP and CIMP task implementation status, monitoring event summaries, equipment installation status, maintenance needs, analysis changes, reporting tasks, and pertinent permit topics.

1.3 Attend and Participate in Twelve (12) Designated Meetings

From January 1, 2018 to December 31, 2019, CWE will attend and support the LAR UR2 WMA Permittees in up to twelve (12) designated meetings, including intragroup, Los Angeles River Watershed WMP or EWMP Group, Regional Board staff, watershed stakeholder, GWMA Board, or other consultants, to coordinate and integrate the implementation of MS4 Permit, WMP, and CIMP coordination tasks.

2. Monitoring Tasks and Deliverables

CWE proposes to complete required LAR UR2 WMA CIMP elements for the 2017-18 and 2018-19, July 1 to June 30 reporting periods; followed by preparation of LAR UR2 WMA MS4 Permit Individual and Watershed Annual Reports due for submission to the LARWQCB on December 15 of 2018 and 2019. Unless altered through a subsequent agreement, monitoring equipment and capital equipment supplies, procured solely using funds derived from this contract, will remain the property of the LAR UR2 WMA Group Permittees, along with the responsibility for theft, loss, damage, vandalism, and maintenance.

2.1 Receiving Water CIMP Implementation

Following the 2012 MS4 Permit and February 19, 2016 LARWQCB EO approved LAR UR2 WMA CIMP Plan, receiving water quality monitoring will occur for two storm and one dry-weather qualifying events, before April 1, 2018, and the events summarized and distributed to the WMA Permittees approximately one month later. During the 2018-19 reporting period, qualifying monitoring events will be conducted for one critical storm, one critical dry-weather, two qualifying storm, and one qualifying dry-weather receiving water monitoring events, at LARUR2-RW and LARUR2-RHO fixed monitoring sites. Toxicity samples will not be collected at the -RHO outfall sites, nor will water quality monitoring occur when hydraulic continuity is absent between the -RHO outfall and Los Angeles River proper, since the outfall flows are then a portion of the MS4. The planned list of constituents and quality assurance quality control (QA/QC) analyses are provided as an attachment to the prior event summary, although subject to change based on monitoring results from completed events and other groups.

2.2 Stormwater Outfall CIMP Implementation

Following the 2012 MS4 Permit and January 2016 LARWQCB EO approved LAR UR2 WMA CIMP Plan, stormwater outfall water quality monitoring will occur for two qualifying storm events, by April 1, 2018, then be reported upon, approximately one month later, in event summaries distributed to the WMA Permittees. During the 2018-19 reporting period, qualifying monitoring events will be conducted for one critical, and two qualifying, storm events. During these storm events, two (2) of the six (6) rotating Stormwater Outfall Monitoring sites; LARUR2-DRO, LARUR2-EO, LARUR2-NO, LARUR2-WO, LARUR2-NVO, and LARUR2-FWO will be selected for monitoring and all six stormwater outfall sites would be monitored once during a normal reporting period. The planned list of constituents and quality assurance quality control (QA/QC) analyses are provided as an attachment to the prior event summary, although subject to change based on monitoring results from completed events and other groups.

2.3 Laboratory Analysis

While the selection of analytical laboratories will continue to be shared by CWE and the LAR UR2 WMA, flexibility will continue to be a necessity for the foreseeable future. Laboratories change location, are subject to changes in State Water Resources Control Board (SWRCB) Environmental Laboratory Program (ELAP) Certification, and staffing changes that result in varied data production quality. CWE currently recommends the continued use of Eurofins (Calscience) in Garden Grove, a member of the international Eurofins laboratory family, for wet chemistry and trace analytical analyses. If required in the future, High Resolution Gas Chromatography with Mass Spectrometry (HR GC/MSD) analysis could be undertaken at the Eurofins (Lancaster Analytical) laboratory in Pennsylvania. Toxicity bioassays, including any Toxicity Identification Evaluation (TIE) or Toxicity Reduction Evaluation (TRE) tests, are currently undertaken by Aquatic Bioassay and Consulting Laboratories in Ventura. Since the collection of stormwater quality samples is inherently unpredictable and bacteria samples have a short 8 hour collection to analysis hold time, microbial samples are currently being analyzed by Enthalpy Analytical in the City of Orange, a member of the Montrose Environmental family. Recognizing the importance of your business, the lab is currently providing off hours bacteria sample collection for minimum order sizes that CWE has been able to provide. Laboratory costs budgets are based on the CIMP and negotiated agreement with Eurofins Calscience; however, the required list of analytes may expand in the future and necessitate the need for budget adjustments, resulting from additional analyses or more costly methods.

2.4 Trash Monitoring and Reporting Program (TMRP)

On December 31, 2016, CWE, on behalf of the LAR UR2 WMA, submitted a draft Trash Monitoring and Reporting Program (TMRP) Plan to the LARWQCB, which was revised and resubmitted to the Board on February 27, 2018. Assuming no additional significant revisions are required, TMRP implementation would commence within 90 days of LARWQCB Executive Officer approval receipt. Draft TMRP annual monitoring is expected to follow the proposed schedule and occur during the LAR UR2 WMA CIMP critical low flow receiving water quality monitoring month which, although scheduled in coordination with adjacent Groups, is normally scheduled to occur in July. The draft LAR UR2 WMA TMRP Plan identifies three monitoring locations; LARUR2-ELAR, LARUR2-WLAR, and the LARUR2-RHO along the Rio Hondo and Los Angeles River centerline. By July 2018, CWE will be prepared to track weather forecasts, procure and deploy trash monitoring and collection equipment and teams to assess and quantify trash at the three identified locations. Assuming LARWQCB EO TMRP Plan approval prior to the July 2018 critical event monitoring, the first annual TMRP Report will be prepared and distributed for review by the LAR UR2 WMA Permittees by November 15, 2019, then submitted to the LARWQCB as an attachment to the 2019 MS4 Permit final LAR UR2 WMA Annual Watershed Report due no later than December 16, 2019.

2.5 Plastic Pellet Monitoring and Reporting Program (PMRP) Plan

On December 31, 2017, CWE, on behalf of the LAR UR2 WMA, submitted a draft Pre-Production Plastic Pellet Monitoring and Reporting Program Plan (P4MRP2) to the LARWQCB. Assuming that no significant revisions are requested, P4MRP2 implementation would commence within 90 days of LARWQCB Executive Officer approval receipt, during the next storm or dry-weather monitoring event. The draft LAR UR2 WMA PMRP Plan receiving water and outfall assessment sections identify and utilize the eight current LAR UR2 WMA CIMP water quality monitoring locations and would be followed as long three hour ten aliquot sampling is followed. By July 2018, CWE will be prepared to track weather forecasts, procure and deploy the proposed plastic pellet monitoring and collection equipment and teams readied to assess and quantify nurdles at the identified locations. Assuming that scheduling allows, the first annual P4MRP2 Report will be prepared for review by the LAR UR2 WMA Permittees on November 15 2019, then submitted to the LARWQCB as an attachment to the 2019 MS4 Permit final LAR UR2 WMA Annual Watershed Report due no later than December 16, 2019.

3. Reporting

The 2012 MS4 Permit and February 19, 2016, LARWQCB EO approved LAR UR2 WMA CIMP requires each Permittee to annually submit an Individual Annual Report, while the WMA must prepare two electronic data submissions and a Watershed Annual Report. Unification of WMA Individual and Watershed Annual Reports into a single document is encouraged for continuity and efficient submission. CWE understands the Permittees to prefer that a unified LAR UR2 WMA Annual Reports be prepared, reviewed, and timely submitted to the LARWQCB, no later than December 17, 2018 and December 16, 2019.

3.1 Data Management and Semi-Annual Electronic Submission

CWE will continue to collect, convert, and distribute water quality monitoring data to the LAR UR2 WMA Permittees in California Environmental Data Exchange Network (CEDEN) Excel® Workbook format for submission to the LARWQCB. Water quality monitoring data collected from January 1 to June 30 will be distributed for Permittee review by the following October 15, and submitted, with a receipt confirmation and legibility request, by the following December 15; while data collected from July 1 to December 31, will be distributed for Permittee review by April 15 of the following year, and submitted to the LARWQCB by June 15 of the following year, along with a confirmation of receipt and legibility request. Four electronic data submissions are anticipated, the first using data collected during the second half of 2017.

3.2 2018 and 2019 LAR UR2 WMA Annual Report Submission

Since the 2012 MS4 Permit became effective, and encompassing two format revisions by the LARWQCB, CWE has unified the Individual Permittee MS4 Annual Reports into an LAR UR2 WMA Annual Report consisting of those Individual Reports, Individual Los Angeles River Trash TMDL Reports, and the WMA Watershed Annual Report. CWE will submit to the LAR UR2 WMA Permittees, for review and comment, draft Individual Annual Reports in Word® edit format, by October 19, 2018 and October 18, 2019. Based on comments and data received by November 4, CWE will draft the Watershed Annual Report, in Word® edit format, for distribution by November 15; with Permittee comments anticipated by November 29. The revised draft Individual Annual Reports will be distributed by November 29, so that final Permittee comments, along with certification signatures, can be returned by December 7. The Draft Final Portable Document Format (PDF) Unified LAR UR2 WMA Annual Report would then be distributed to the Permittees by December 12, 2018, for final review, and submitted to the LARWQCB no later than December 17, 2018 or December 16, 2019, along with a receipt and confirmation of legibility request.

4. Monitoring Site Installations

The installation of monitoring site equipment and appurtenances (boxes, brackets and conduits) has been problematic for many groups, including the LAR UR2 WMA, and is significantly dependent on the issuance of encroachment and construction permit by United State Army Corps of Engineers (USACE) and Los Angeles County Department of Public Works. Not surprisingly, past expenditures on this effort have been minimal and the majority of the prior contract budget amount remains with the GWMA, on behalf of the LAR UR2 WMA Permittees. Following NTP receipt CWE will restart the design and permit application process based on recommendations recently provided by the County to the Permittees. Since the LARUR2-RW, located near the rail bridge over the Los Angeles River at the eastward extension of Tweedy Lane in the City of South Gate, could be utilized three to five times per year, our initial efforts will focus on this site, then turn to the Fixed Stormwater Outfall Monitoring Site, LARUR2-RHO, located in the John Anson Ford North Parking Lot in the City of Bell Gardens. The six rotating Stormwater Outfall locations are each monitored once per year and therefore have the lowest permitting and installation priority. Until such time as the permits and installations sites are completed, CWE will continue to utilize the long term access permit issued by USACE and twice annually apply for access permits from the County to collect dry-weather grab samples and ten aliquot, flow-weighted, three hour composite storm samples as occurred during the prior two years. Results from these past monitoring efforts have been generally reproducible and comparable with the results from other regional monitoring efforts.

5. Non-Stormwater Outfall Source Assessment

CWE initiated a multi-step Non-Stormwater (NSW) Outfall Screening and Monitoring Program to identify and address NSW discharges, as described in the CIMP and reported to the Permittees in December of 2015. CWE developed and populated a Microsoft Excel® Workbook for use by the LAR UR2 WMA in complying with the 2012 MS4 Permit outfall database requirements. This Database inventory is periodically updated as new outfall and NSW discharge data is identified and clarified. This ongoing task has resulted in the prioritization of several outfalls for source assessment and subsequent referral of several Industrial General Permit Non-filers to the LARWQCB, the determination of several Caltrans I-710 pump station and drainage outfalls, and irregularities in MS4 system mapping elements near the north and west borders the City of Bell. During NSW screening and monitoring, CWE observed and promptly notified relevant Permittees of the observation and supported field screening activities. Our next step is to sample along the LAR-033 relief line, which assuming that no connections exist with the rail yard, is understood to flow directly from the East Los Angeles area to the Los Angeles River without additional LAR UR2 WMA derived inputs. Similar tasks will be proposed to the LAR UR2 WMA Permittees each year so that a consensus on annual priorities can be developed.

Attachment “A”

Scope of Services and Fee Schedule
Third Amendment to PSA for LA River Upper Reach 2 CIMP

**CWE**

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September 30, 2019

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

Subject: LAR UR2 WMA MS4 NPDES Permit CIMP, Water Quality Monitoring PSA Extension

Dear Ms. Kast,

CWE is pleased to submit, to the Gateway Water Management Authority (GWMA), this proposal to continue providing Los Angeles River Upper Reach 2 Watershed Management Area (LAR UR2 WMA), Municipal Separate Storm Sewer System (MS4), National Pollutant Discharge Elimination System (NPDES) Permit, Coordinated Integrated Monitoring Program (CIMP) Plan, Continuing Water Quality Monitoring Professional Services Agreement (PSA) from July 1, 2019 through June 30, 2022; with the results of those efforts to be annually reported to the Los Angeles Region Water Quality Control Board (LARWQCB) each December 15th, through 2022. CWE developed the LAR UR2 WMA Watershed Management Program (WMP) and CIMP Plans with effective cost saving measures, such as excluding pollutant loads from land use areas regulated by other NPDES Permits or precluded from state oversight, rotating stormwater outfall monitoring, and performing Rio Hondo receiving water monitoring at the soon to be diverted RHO outfall under John Anson Ford Park. We are honored to have been requested to propose on continuing to provide these, and other, services for the identified forty-two month period during which the LAR UR2 WMA is expected to plan and transition into implementation of the soon to be distributed draft fifth term Integrated Los Angeles Regional Water Quality Control Board (LARWQCB) MS4 Permit.

1. Project Management and Coordination

CWE will lead project management and administrative tasks in coordinating sub-consultant and analytical laboratory guidance, staff task chartering, interagency coordination, scheduling, budget tracking, and invoicing, to ensure that project deliverables are submitted in a timely matter, and within budget. The CWE Project Manager will regularly communicate with the LAR UR2 WMA Project Chair, to define meeting objectives; schedule venues; prepare agendas; identify, invite, and engage participants/Permittees; and summarize meeting minutes with action items. Draft meeting agendas will be prepared at least five (5) days in advance of the anticipated meeting date and electronic summaries provided within five (5) days following the meeting. CWE will participate in coordination meetings with other Permittees, Permittee Groups, Regional Board Staff, and consultants as necessary to result in the effective implementation of monitoring and reporting activities that achieve Permit CIMP objectives. Using timely, concise communication; focused, results-oriented meetings; and efficient staff management, CWE will assist the LAR UR2 WMA with decision making, compliance demonstration, and CIMP implementation. This includes reviewing and providing comments on the draft fifth term integrated LARWQCB MS4 permit then, following its adoption, providing guidance on its cost-effective implementation and annual reporting.

1.1 Annually Prepare Four (4) Quarterly Budget/Schedule Updates

Beginning in January 2020, CWE will annually prepare four quarterly schedule and budget updates. One critical storm, one critical dry-weather, two qualifying storm, one qualifying dry-weather monitoring event, two data submissions, along with draft and final annual report submission dates will be tentatively scheduled for each MS4 Permit annual reporting period of July 1 to June 30. The budget summary will identify amounts expended, remaining task budgets, estimated percent work completed, work not yet completed, justification for incomplete tasks, and whether any task dependent budgetary diversions appear necessary. These will be distributed for consideration by Permittees during scheduled meetings, are subject to revision based on Permittee recommendations regarding the inclusion, or deletion, of proposed and optional tasks, and following the concluding direction of the LAR UR2 WMA Group Chair.

1.2 Annually Conduct Six (6) LAR UR2 WMA CIMP Meetings

CWE will schedule, draft agenda, and prepare summary notes for up to eighteen (18) LAR UR2 WMA meetings between January 1, 2020 and December 31, 2022. Agenda items for discussion during these meetings include WMP and CIMP task implementation status, monitoring event summaries, equipment installation status, maintenance needs, analysis changes, reporting tasks, and pertinent permit topics.

1.3 Attend and Participate in Twelve (12) Designated Meetings

From January 1, 2020 to December 31, 2022, CWE will attend and support the LAR UR2 WMA Permittees in up to twelve (12) additional designated meetings. These may include intragroup, Los Angeles River Watershed WMP and/or EWMP Group, California Environmental Data Exchange Network (CEDEN) support, Regional Board staff, LARWQCB Monthly, watershed stakeholder, GWMA Board, Permit implementation technical, or other consultants, to coordinate and integrate the implementation and update of MS4 Permit, WMP, and CIMP coordination and reporting tasks.

2. Monitoring Tasks and Deliverables

CWE proposes to complete required LAR UR2 WMA CIMP implementation and reporting elements for the 2019-20, 2020-21, and 2021-22, July 1 to June 30 reporting periods; followed by preparation of LAR UR2 WMA MS4 Permit Individual and Watershed Annual Reports due for submission to the LARWQCB on December 15 of 2020 through 2022. Unless altered through a subsequent agreement, monitoring equipment and capital supplies, procured using PSA funds, will remain the property of the LAR UR2 WMA Group Permittees, along with the responsibility for theft, loss, damage, vandalism, and maintenance.

2.1 Receiving Water CIMP Implementation

Following the 2012 MS4 Permit and February 19, 2016 LARWQCB EO approved LAR UR2 WMA CIMP Plan, CWE will undertake receiving water quality monitoring for one critical qualifying storm, two qualifying storm, one critical dry-weather, and one dry-weather receiving water events, at the LARUR2-RW and LARUR2-RHO fixed monitoring sites. Toxicity samples will normally be collected only at the LARUR2-RW site and water quality monitoring will only occur at LARUR2-RHO site if hydraulic continuity exists between there and the LAR confluence. The planned list of constituents and quality assurance quality control (QA/QC) analyses are provided as an attachment to the prior event summary, although subject to change based on monitoring results from completed events and other groups. Increased water quality monitoring costs, resulting from LARWQCB adoption of the fifth term integrated MS4 Permit or modification of the approved CIMP, would be identified to the LAR UR2 WMA for approval in advance.

2.2 Stormwater Outfall CIMP Implementation

Following the 2012 MS4 Permit and January 2016 LARWQCB EO approved LAR UR2 WMA CIMP Plan, stormwater outfall water quality monitoring will annually occur during three (3) qualifying events, at two (2) of the six (6) rotating Stormwater Outfall Monitoring sites; LARUR2-DRO, LARUR2-EO, LARUR2-NO, LARUR2-WO, LARUR2-NVO, and LARUR2-FWO. This would result in all six stormwater outfall sites be monitored once during a normal annual reporting period, then the results reported upon, approximately one month later, in event summaries distributed to the WMA Permittees. The planned list of constituents and quality assurance quality control (QA/QC) analyses are provided as an attachment to the prior event summary, although subject to change based on results from completed events and other groups.

2.3 Laboratory Analysis

The choice of analytical laboratories will continue to be shared by CWE and the LAR UR2 WMA, as a result of State Water Resources Control Board (SWRCB) Environmental Laboratory Accreditation Program (ELAP) maturation, changing certification requirements, and laboratory staffing and procedural changes that result in varied data quality. CWE recommends continued use of Eurofins (Calscience) in Garden Grove, a member of the international Eurofins laboratory family, for wet chemistry and trace analytical analyses. If required in the future, High Resolution Gas Chromatography with Mass Spectrometry (HR GC/MSD) analysis could be undertaken at the Eurofins (Lancaster Analytical) laboratory in Pennsylvania. Since stormwater sample collection is inherently unpredictable and microbial samples have an eight hour, collection to analysis, hold time, they are currently being analyzed by Enthalpy Analytical in the City of Orange, a member of the Montrose Environmental family. Recognizing the importance of your business, the lab is currently providing off hours bacteria sample collection for minimum order sizes that CWE has been able to provide them with. These laboratories have implemented the 2017 Clean Water Act 40 CFR 136 Methods Update Rule (MUR) and Eurofins recently released its Total Access Laboratory Information Management System (LIMS). Toxicity bioassays, including any Toxicity Identification Evaluation (TIE) or Toxicity Reduction Evaluation (TRE) tests, are currently undertaken by Aquatic Bioassay and Consulting (ABC) Laboratories in Ventura. Laboratory costs budgets are based on the CIMP and negotiated agreement with Eurofins Calscience; however, the required list of analytes may expand in the future and necessitate the need for budget adjustments, resulting from additional analyses or more costly methods.

2.4 Trash Monitoring and Reporting Program (TMRP)

On December 31, 2016, CWE, on behalf of the LAR UR2 WMA, submitted a draft Trash Monitoring and Reporting Program (TMRP) Plan to the LARWQCB, which was revised and resubmitted to the Board on February 27, 2018. Assuming no additional significant revisions are required, TMRP implementation would commence within 90 days of LARWQCB Executive Officer approval receipt. Draft TMRP annual monitoring is expected to follow the proposed schedule and occur during the LAR UR2 WMA CIMP critical low flow receiving water quality monitoring month which, although scheduled in coordination with adjacent Groups, is normally scheduled to occur in July. The draft LAR UR2 WMA TMRP Plan identifies three monitoring locations; LARUR2-ELAR, LARUR2-WLAR, and the LARUR2-RHO along the Rio Hondo and Los Angeles River centerline. CWE is prepared to track weather forecasts, procure and deploy trash monitoring and collection equipment and teams to assess and quantify trash at the three identified locations. Assuming LARWQCB EO TMRP Plan approval prior to the July 2020 critical event monitoring, the first annual TMRP Report will be prepared and distributed for review by the LAR UR2 WMA Permittees by November 15, 2020, then submitted to the LARWQCB as an attachment to the 2020 MS4 Permit final LAR UR2 WMA Annual Watershed Report due December 15, 2020.

2.5 Plastic Pellet Monitoring and Reporting Program (PMRP) Plan

On December 31, 2017, CWE, on behalf of the LAR UR2 WMA, submitted a draft Pre-Production Plastic Pellet Monitoring and Reporting Program Plan (P4MRP2) to the LARWQCB. Assuming that no significant revisions are requested, formal P4MRP2 implementation would commence immediately following LARWQCB Executive Officer approval receipt, during the next storm or dry-weather monitoring event. The draft LAR UR2 WMA PMRP Plan receiving water and outfall assessment sections identify and utilize the eight current LAR UR2 WMA CIMP water quality monitoring locations and would be followed as long three-hour, ten-aliquot, sample collection is followed. CWE is immediately prepared to track weather forecasts, procure and deploy the proposed plastic pellet monitoring and collection equipment and teams readied to assess and quantify nurdles at the identified locations. Assuming that scheduling allows, the first annual P4MRP2 Report will be prepared for review by the LAR UR2 WMA Permittees on November 15 2020, then submitted to the LARWQCB as an attachment to the 2020 MS4 Permit final LAR UR2 WMA Annual Watershed Report due December 15, 2020.

3. Reporting

The 2012 MS4 Permit and February 19, 2016, LARWQCB EO approved LAR UR2 WMA CIMP requires each Permittee to annually submit an Individual Annual Report, while the WMA must prepare two electronic data submissions and a Watershed Annual Report, to the LARWQCB. CWE recommends unification of the WMA Individual and Watershed Annual Reports into a single document to encourage reporting continuity, conformity of implementation reporting, and efficient submission. While use of the Los Angeles County Watershed Reporting Adaptive Management & Planning System (WRAMPS) could be undertaken, similar work efforts would be required and reporting flexibility would likely be reduced, based on our experience in using this software to provide annual reports for other Permittees. CWE understands the LAR UR2 WMA Permittees to prefer that a unified LAR UR2 WMA Annual Reports be prepared, reviewed, and timely submitted to the LARWQCB or the state Stormwater Multiple Application and Report Tracking System (SMARTS), no later than December 15th of each reporting year.

3.1 Data Management and Semi-Annual Electronic Submission

CWE will continue to collect, convert, and distribute water quality monitoring data to the LAR UR2 WMA Permittees in California Environmental Data Exchange Network (CEDEN) Excel® Workbook format for submission to the LARWQCB, as is current practice, or to CEDEN as has been suggested may occur in the future. We have recommended to LARWQCB staff that several technical meetings precede this transition, as there are several significant differences and discrepancies among the CIMP reporting agencies, Analytical Laboratory Electronic Data Deliverable (EDD) formats, Quality Assurance/ Quality Control (QA/QC) procedures, and the automated CEDEN error checking is often extensive and time consuming. Furthermore, on August 28, 2019, the Moss Landing Marine Laboratory (MLML) and San Francisco Estuary Institute (SEFI) CEDEN Regional Data Centers (RDCs) reported that their contract to provide technical expertise and support to CEDEN will end on March 31, 2020, which may further handicap the data submission and receipt process. In any case, water quality monitoring data collected from January 1 to June 30 will be distributed for Permittee review by the following October 15, and submitted, with a receipt confirmation and legibility request, by the following December 15; while data collected from July 1 to December 31, will be distributed for Permittee review by April 15 of the following year, and submitted to the LARWQCB by June 15 of the following year, along with a confirmation of receipt and legibility request. Six electronic data submissions are anticipated, the first occurring by June 15, 2020, for samples collected during the second half of 2019.

3.2 Individual and Watershed (I&WAR) Annual Report Submission

Since the 2012 MS4 Permit became effective, and encompassing two format revisions by the LARWQCB, CWE has unified the Individual Permittee MS4 Annual Reports into an LAR UR2 WMA Annual Report consisting of the Permittee Individual Annual Reports (IAR), their Individual Los Angeles River Trash Total Maximum Daily Load (LAR TTMDL) Compliance Reports, and the WMA Watershed Annual Report (WAR). CWE will annually submit to the Permittees, for review and comment, their draft IAR, in Word® edit format, by October fifteenth, with draft WAR submission to the Permittees two weeks later. Based on IAR comments received by November first and WAR comments received by November tenth, CWE will revise the IAR and WAR, in Word® edit format, for final review beginning on November fifteenth, with final revisions due back to CWE by December first. The Final Portable Document Format (PDF) Unified LAR UR2 WMA Annual Report would be distributed to the Permittees by December tenth and submitted to the LARWQCB by December 15, along with delivery receipt and confirmation of legibility requests.

4. Monitoring Site Installations

The design, permitting and installation of monitoring site equipment and appurtenances (boxes, brackets and conduits) has been problematic for many groups, including the LAR UR2 WMA, and is significantly dependent on the issuance of permits by United State Army Corps of Engineers (USACE) and Los Angeles County Department of Public Works. Recently, it was determined by the County that an "Access Permit" Agreement, delegating short and long term liabilities would be required prior to construction. Not surprisingly, past expenditures on this effort have been minimal and the majority of the prior PSA budget amount remains with the GWMA, awaiting expenditure on behalf of the LAR UR2 WMA Permittees. Following NTP receipt CWE will restart the design and permit application process based on recommendations recently provided by the County to the Permittees. Since the LARUR2-RW, located near the rail bridge over the Los Angeles River at the eastward extension of Tweedy Lane in the City of South Gate, could be utilized three to five times per year, our initial efforts will focus on this site. The six rotating Stormwater Outfall locations are each monitored once per year and therefore have a lower permitting and installation priority. Finally, with construction of the John Anson Ford Cistern Project, due to begin in December 2019, installation of an autosampler facility for the LARUR2-RHO Fixed Monitoring site will be delayed until completed of that project. Until such time as these permits and installations sites are completed, CWE will utilize the access permit issued by USACE and annually apply for County Access permits to collect dry-weather grab samples and ten aliquot, flow-weighted, three hour composite storm samples as occurred during the prior monitoring years. Results from these past monitoring efforts have been reproducible and comparable with the results from other regional monitoring efforts.

5. Non-Stormwater Outfall Source Assessment

CWE initiated a multi-step Non-Stormwater (NSW) Outfall Screening and Monitoring Program to identify and address NSW discharges, as described in the CIMP and reported to the Permittees in December of 2015. CWE developed and populated a Microsoft Excel® Workbook for use by the LAR UR2 WMA in complying with the 2012 MS4 Permit outfall database requirements. This Database inventory is periodically updated as new outfall and NSW discharge data is identified and clarified. This ongoing task has resulted in the prioritization of several outfalls for source assessment and subsequent referral of several Industrial General Permit Non-filers to the LARWQCB, the determination of several Caltrans I-710 pump station and drainage outfalls, and irregularities in MS4 system mapping elements near the north and west borders the City of Bell. During prior NSW screening and monitoring, CWE observed and promptly notified relevant Permittees of the observation and supported field screening activities. Other MS4 Permittee Groups have found little or only intermittent evidence of the sources of these flows, or eventually attributed the flows to Major, Individual, or General NPDES Permits on file with the LARWQCB.

Without knowledge of changes that might be mandated in the fifth term permit, we recommend annually identifying one outfall, previously reported to be conveying significant non-stormwater flows, for survey. Although the method utilized for these surveys is highly variable, CWE generally initiates a desktop effort to identify the tributary catchment, reviews the LARWQCB website for Permittee discharges within the catchment, then schedules a field assessment to observe and samples from manholes at the LAR UR2 WMA border and within the jurisdictional area where confluences flows are likely to be observed and sampled for pertinent water quality characteristics.

6. RAA/WMP Update and Adaptive Management Process

In responding to litigation, the LARWQCB recently asserted that the Fifth Term Integrated LARWQCB MS4 NPDES Permit will be issued by March 2020, and while its contents remain unknown, Part VI.C.8.b.i of the amended 2012 permit requires that the future Reasonable Assurance Analysis " incorporate both water quality data and control measure performance data, and any other information informing the two-year adaptive management process, gathered through December 31, 2020" for use in preparing an updated RAA and WMP for submission to the Board by June 30, 2021. Without a draft of the upcoming permit to comment upon, this proposal section is conceptual and subject to future negation as both the Permit requirements and Permittee objectives are more clearly defined. Alternatively, the permit adoption schedule may become clouded if the state determines to appeal the recent court decision on Numeric Effluent Limitations (NELs) or further delay issuance of the new permit to replace the 2012 MS4 Permit that was scheduled for reissuance nearly two years ago. We anticipate that some of these questions will be resolved through our attendance at designated (permit adoption) meetings.

6.1 Reasonable Assurance Analysis (RAA)

The 2012 MS4 Permit identified two computer modeling software programs that would be acceptable for performing an RAA and developing and WMP or EWMP. Neither proved particularly transparent or easy to run and calibrations accepted by the LARWQCB, were unable to distinguish between daily and continuous rainfall input data, with respect to infiltration and runoff volumes; resulting in flows from significant areas that CWE found could be nearly double what a continuous input database would generate. Furthermore, runoff pollutant loads resulting from LARWQCB imposed land use specific event mean concentrations, do not produce baseline concentrations in line with those modeled, and monitoring data generally identifies fewer and less significant exceedances. We understand that the Watershed Management Modeling System (WMMS) will be released as a Version 2 this year, with significant improvements to overcome these implementation challenges. Until such time as these assertions can be verified and any LARWQCB modeling characteristics identified. CWE would intend to defer contract development for the revised RAA, until Permittee modeling options can be better be defined.

This is not to imply that we would not be developing RAA input data, in anticipation of completing the RAA task. Our initial efforts would focus on analyzing the collected CIMP water quality monitoring data, looking for trend among the receiving water data that would then be extrapolated back to the storm water outfall data. While exceedances are apparent in this data, they have been relatively few and anticipated. Furthermore, some water quality objectives, such as for copper and lead, have significantly changed due to the approval of Site Specific Objectives (SSO) studies. Finally, the LAR UR2 WMA, is nearly unique with respect to the density of Industrial General Permit (IGP) facilities, Caltrans Right of Ways (ROWs) and Railroad owned lands, which the Board has agreed are not pollutant loads that need to be addressed by the MS4 Permittees. Data developed during the prior RAA, must be expanded and the loads revised to correctly attribute baseline loads and reduce the impact on MS4 Permittees.

6.2 Update the Watershed Management Program Plan

While Permittee redevelopment project runoff and load reductions need to be better documented, the LAR UR2 WMA has been spectacular successful in securing grant support for the John Anson Ford Cistern Project, which will begin construction this year. Furthermore, the mirror image Asmus Park project, which was strategically excluded from the WMP, appears likely to also gain grant support this year and reduce the need for costly Green or LID Street projects that were anticipated in the WMP and Regional Best Management Project (BMP) analysis. Combined with potential reduction in runoff volume from the RAA, increased numbers of IGPs that no longer contribute to MS4 loads, revised water quality objectives, and pollutant concentrations that appear lower than were anticipated in prior baseline analyses, CWE is optimistic that the WMP can be updated to more cost-effectively guide future implementation efforts.

7. Conclusion

CWE is proud to have provided the LAR UR2 WMA with cost effective CIMP, RAA, WMP, Grant Procurement, Design, and MS4 Permit compliance reporting services. Although constrained by the lack of a draft Fifth Term Integrated LARWQCB MS4 Permit, we appreciate the immediate need to move forward with your fourth year CIMP Implementation and Reporting needs and desire to have an agreement from which future tasks can be initiated while final budgeting is determined based on evolving LARWQCB directives and implementation objectives. With your continued cooperation and our shared interest in providing the group with these services CWE will assist the LAR UR2 WMA to be prepared for the many challenges that have historically developed with each new MS4 Permit.

GWMA/LAR UR2 UWA CIMP Implementation PSA Fee Schedule, MS4P 2019-20 Reporting Year

Tasks and Deliverables	Description	Hourly Rate								Hourly Rate						Equipment & Lab Costs	Sub Consultant Coord. / Oversight	Mileage	Mileage Costs	Line Item Costs
		CWE								Weston Solutions										
		Principal	Project Manager	Staff Engineer	Assistant Engineer	Sr. Env. Scientist	Admin. Assistant	Subtotal Labor Hours	Subtotal Cost	Senior Project Manager	Engineer Scientist 3	Scientist 1	Subtotal Labor Hours	Subtotal Cost						
		\$249	\$214	\$126	\$102	\$153	\$82			\$250	\$213	\$120								
1	Project Management, Coordination and Meetings																			
1.1	Prepare four (4) Quarterly Budget and Schedule Updates		8		12		12	32	\$3,920									\$0	\$3,920	
1.2	Conduct Six (6) LAR UR2 WMA Meetings	3	48			48		99	\$18,363								360	\$209	\$18,572	
1.3	Attend and Participate in four (4) Designated Meetings		24			16		40	\$7,584								240	\$140	\$7,724	
2	Monitoring Tasks and Deliverables																			
2.1	Receiving Water CIMP Implementation and Event Summary		136			172		308	\$55,420						\$5,000		1080	\$627	\$61,047	
2.2	Stormwater Outfall CIMP Implementation and Event Summary	6		96	96	96		294	\$38,070	8	8	60	76	\$10,904	\$14,000	\$1,635.60	1440	\$836	\$65,446	
2.3	Laboratory Analysis		9				9		\$2,664						\$14,600	\$2,190		\$0	\$19,454	
2.4	Trash Monitoring and Reporting Program (TMRP)		16		40	16			\$9,952								90	\$53	\$10,005	
2.5	Plastic Pellet Monitoring and Reporting Program (PMRP) Plan		8		24	16			\$6,608									\$0	\$6,608	
3	Reporting																			
3.1	Data Management and Semi-Annual Electronic Submission		32		64	64		160	\$23,168						\$500			\$0	\$23,668	
3.2	2019-20 LAR UR2 WMA (I&W) Annual Report Submission	4	64		80	24	16	188	\$27,836									\$0	\$27,836	
4	Monitoring Site Installations							0	\$0										\$0	
5	Non-Stormwater Outfall Source Assessment		24		40	40		104	\$15,336						\$500		450	\$261	\$16,097	
6	RAA/WMP Update and AMP																			
6.1	Reasonable Assurance Analysis Input Data							0	\$0									\$0	\$0	
6.2	WMP Update							0	\$0									\$0	\$0	
TOTAL PROPOSED HOURS & FEE		13	369	96	356	492	37	1225	\$208,921	8	8	60	76	\$10,904	\$34,600	\$3,826	3660	\$2,126	\$260,377	

Fees are based on the LARWQCB EO Approved LAR UR2 WMA CIMP and may be subject to change based on MS4 Permit amendments, Board revisions, or WMA requests.



GWMA/LAR UR2 UWA CIMP Implementation PSA Fee Schedule, MS4P 2020-21 Reporting Year

Tasks and Deliverables	Description	Hourly Rate								Hourly Rate						Equipment & Lab Costs	Sub Consultant Coord. / Oversight	Mileage	Mileage Costs	Line Item Costs
		CWE								Weston Solutions										
		Principal	Project Manager	Staff Engineer	Assistant Engineer	Sr. Env. Scientist	Admin. Assistant	Subtotal Labor Hours	Subtotal Cost	Senior Project Manager	Engineer Scientist 3	Scientist 1	Subtotal Labor Hours	Subtotal Cost						
		\$259	\$223	\$131	\$106	\$160	\$85			\$260	\$220	\$125								
1	Project Management, Coordination and Meetings																			
1.1	Prepare four (4) Quarterly Budget and Schedule Updates		8		12		12	32	\$4,076									\$0	\$4,076	
1.2	Conduct Six (6) LAR UR2 WMA Meetings	3	48			48		99	\$19,161								360	\$209	\$19,370	
1.3	Attend and Participate in four (4) Designated Meetings		24			16		40	\$7,912								240	\$140	\$8,052	
2	Monitoring Tasks and Deliverables																			
2.1	Receiving Water CIMP Implementation and Event Summary		136			172		308	\$57,848						\$5,000		1080	\$627	\$63,475	
2.2	Stormwater Outfall CIMP Implementation and Event Summary	6		96	96	96		294	\$39,666	8	8	60	76	\$11,340	\$14,000	\$1,701.00	1440	\$836	\$67,543	
2.3	Laboratory Analysis		9				9		\$2,772						\$28,900	\$4,335		\$0	\$36,007	
2.4	Trash Monitoring and Reporting Program (TMRP)		16		40	16			\$10,368								90	\$53	\$10,421	
2.5	Plastic Pellet Monitoring and Reporting Program (PMRP) Plan		8		24	16			\$6,888									\$0	\$6,888	
3	Reporting																			
3.1	Data Management and Semi-Annual Electronic Submission		32		64	64		160	\$24,160						\$500			\$0	\$24,660	
3.2	2019-20 LAR UR2 WMA (I&W) Annual Report Submission	4	64		80	24	16	188	\$28,988									\$0	\$28,988	
4	Monitoring Site Installations		16	160	160			336	\$41,488						\$116,381		960	\$557	\$158,426	
5	Non-Stormwater Outfall Source Assessment		24		40	40		104	\$15,992						\$500		450	\$261	\$16,753	
6	RAA/WMP Update and AMP																			
6.1	Reasonable Assurance Analysis Input Data Development		40		160	80	20	300	\$40,380									\$0	\$40,380	
6.2	LAR UR2 WMA WMP Update		80		240	120	20	460	\$64,180									\$0	\$64,180	
TOTAL PROPOSED HOURS & FEE		13	505	256	916	692	77	2321	\$363,879	8	8	60	76	\$11,340	\$165,281	\$6,036	4620	\$2,683	\$549,219	

Fees are based on the LARWQCB EO Approved LAR UR2 WMA CIMP and may be subject to change based on MS4 Permit amendments, Board revisions, or WMA requests.



GWMA/LAR UR2 UWA CIMP Implementation PSA Fee Schedule, MS4P 2021-22 Reporting Year

Tasks and Deliverables	Description	Hourly Rate								Hourly Rate						Equipment & Lab Costs	Sub Consultant Coord. / Oversight	Mileage	Mileage Costs	Line Item Costs
		CWE								Weston Solutions										
		Principal	Project Manager	Staff Engineer	Assistant Engineer	Sr. Env. Scientist	Admin. Assistant	Subtotal Labor Hours	Subtotal Cost	Senior Project Manager	Engineer Scientist 3	Scientist 1	Subtotal Labor Hours	Subtotal Cost						
		\$269	\$232	\$136	\$110	\$166	\$88			\$270	\$230	\$130								
1	Project Management, Coordination and Meetings																			
1.1	Prepare four (4) Quarterly Budget and Schedule Updates		8		12		12	32	\$4,232									\$0	\$4,232	
1.2	Conduct Six (6) LAR UR2 WMA Meetings	3	48			48		99	\$19,911								360	\$209	\$20,120	
1.3	Attend and Participate in four (4) Designated Meetings		24			16		40	\$8,224								240	\$140	\$8,364	
2	Monitoring Tasks and Deliverables																			
2.1	Receiving Water CIMP Implementation and Event Summary		136			172		308	\$60,104						\$5,000		1080	\$627	\$65,731	
2.2	Stormwater Outfall CIMP Implementation and Event Summary	6		96	96	96		294	\$41,166	8	8	60	76	\$11,800	\$14,000	\$1,770.00	1440	\$836	\$69,572	
2.3	Laboratory Analysis		9				9		\$2,880						\$14,600	\$2,190		\$0	\$19,670	
2.4	Trash Monitoring and Reporting Program (TMRP)		16		40	16			\$10,768								90	\$53	\$10,821	
2.5	Plastic Pellet Monitoring and Reporting Program (PMRP) Plan		8		24	16			\$7,152									\$0	\$7,152	
3	Reporting																			
3.1	Data Management and Semi-Annual Electronic Submission		32		64	64		160	\$25,088						\$500			\$0	\$25,588	
3.2	2019-20 LAR UR2 WMA (I&W) Annual Report Submission	4	64		80	24	16	188	\$30,116									\$0	\$30,116	
4	Monitoring Site Installations								\$0										\$0	
5	Non-Stormwater Outfall Source Assessment		24		40	40		104	\$16,608						\$500		450	\$261	\$17,369	
6	RAA/WMP Update and AMP																			
6.1	Revise Reasonable Assurance Analysis Input Data		20		80	40		140	\$20,080									\$0	\$20,080	
6.2	Revise LAR UR2 WMA WMP Update		40		120	60	20	240	\$34,200									\$0	\$34,200	
TOTAL PROPOSED HOURS & FEE		13	429	96	556	592	57	1605	\$280,529	8	8	60	76	\$11,800	\$34,600	\$3,960	3660	\$2,126	\$333,015	

Fees are based on the LARWQCB EO Approved LAR UR2 WMA CIMP and may be subject to change based on MS4 Permit amendments, Board revisions, or WMA requests.

