

**CORCORAN CITY COUNCIL,  
JOINT POWERS FINANCE AUTHORITY,  
SUCCESSOR AGENCY FOR CORCORAN RDA,  
& HOUSING AUTHORITY  
AGENDA**

**City Council Chambers  
1015 Chittenden Avenue  
Corcoran, CA 93212**

**Tuesday, August 8, 2017  
5:30 P.M.**

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**Public Inspection:** A detailed City Council packet is available for review at the City Clerk's Office, located at Corcoran City Hall, 832 Whitley Avenue.

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**Notice of ADA Compliance:** In compliance with the Americans with Disabilities Act, if you need assistance to participate in this meeting, please contact the City Clerks Office at (559) 992-2151.

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**Public Comment:** Members of the audience may address the Council on non-agenda items; However, in accordance with government code section 54954.2, the Council may not (except in very specific instances) take action on an item not appearing on the posted agenda.

This is the time for members of the public to comment on any matter within the jurisdiction of the Corcoran City Council. This is also the public's opportunity to request that a Consent Calendar item be removed from that section and made a regular agenda item. The councilmembers ask that you keep your comments brief and positive. Creative criticism, presented with appropriate courtesy, is welcome.

After receiving recognition from the chair, speakers shall walk to the rostrum, state their name and address and proceed with comments. Each speaker will be limited to five (5) minutes.

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**Consent Calendar:** All items listed under the consent calendar are considered to be routine and will be enacted by one motion. If anyone desires discussion of any item on the consent calendar, the item can be removed at the request of any member of the City Council and made a part of the regular agenda.

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**ROLL CALL**

|                 |                        |
|-----------------|------------------------|
| Mayor:          | Raymond Lerma          |
| Vice Mayor:     | Sidonio "Sid" Palmerin |
| Council Member: | Patricia Nolen         |
| Council Member: | Jerry Robertson        |
| Council Member: | Jeanette Zamora-Bragg  |

**INVOCATION**

**FLAG SALUTE**

**1. PUBLIC DISCUSSION**

2. **CONSENT CALENDAR (VV)**
  - 2-A. Approval of minutes of the meeting of the City Council on July 25, 2017.
  - 2-B. Authorization to read ordinances and resolutions by title only.
  - 2-C. Ratify Proclamation 2017-07 honoring California Substance Abuse Treatment Facility and State Prison, Corcoran (SATF, CSP-Corcoran).
  - 2-D. Authorize Price Paige & Company to conduct necessary audits for the 2016-17 fiscal year.
  
3. **APPROPRIATIONS (VV)**

Approval of Warrant Register dated August 8, 2017. *(Ruiz-Nuñez) (VV)*
  
4. **PRESENTATIONS**
  - 4-A. City of Corcoran: Evaluation of Capital Improvement Alternatives. *(Faulkner)*
  
5. **PUBLIC HEARINGS** – None
  
6. **WRITTEN COMMUNICATIONS**
  - 6-A. Consider request for leave of absence for Council Member Zamora-Bragg. *(Meik)(VV)*
  
7. **STAFF REPORTS**
  - 7-A. Consider appointing a voting delegate for the League of California Cities Annual Conference to be held September 13-15, 2017 in Sacramento, CA. *(Lopez) (VV)*
  - 7-B. Consider Cross Creek Flood Control District Assessment. *(Meik) (VV)*
  - 7-C. Authorize staff to award the Well 11 improvement project to Steve Dovali Construction Company. *(Faulkner)(VV)*
  
8. **MATTERS FOR MAYOR AND COUNCIL**
  - 8-A. Information Items
  - 8-B. Staff Referral Items - *Items of Interest (Non-action items the Council may wish to discuss)*
  - 8-C. Committee Reports
  
9. **CLOSED SESSION**
  - 9-A. **PENDING LITIGATION** (Government Code § 54956.9). It is the intention of this governing body to meet in closed-session concerning:  
Conference with legal counsel – ANTICIPATED LITIGATION (Government Code § 54956.9(d)).  
**Initiation of litigation** (Government Code § 54956.9(d)(4)).  
Number of potential cases is: 1.
  - 9-B. **PENDING LITIGATION** (Government Code § 54956.9). It is the intention of this governing body to meet in closed-session concerning:  
Conference with legal counsel – Deciding whether or not basis exists for closed-session for anticipated litigation (Government Code § 54956.9(d)(3)).

**9-C. CONFERENCE WITH LABOR NEGOTIATOR(S)** (Government Code § 54957.6). It is the intention of this governing body to meet in closed-session to review its position and to instruct its designated representatives:

- Designated representatives: City Manager and Ken Caves
- Name of employee organization: \_\_\_\_\_, or
- Position title(s) of unrepresented employee(s): \_\_\_\_\_  
\_\_\_\_\_.

**10. ADJOURNMENT**

I certify that I caused this Agenda of the Corcoran City Council meeting to be posted at the City Council Chambers, 1015 Chittenden Avenue on August 4, 2017.

\_\_\_\_\_  
Marlene Lopez, City Clerk

**MINUTES  
CORCORAN CITY COUNCIL,  
JOINT POWERS FINANCE AUTHORITY,  
SUCCESSOR AGENCY FOR CORCORAN RDA  
& HOUSING AUTHORITY  
REGULAR MEETING  
Tuesday, July 25, 2017**

The regular session of the Corcoran City Council was called to order by Lerma, in the City Council Chambers, 1015 Chittenden Avenue, Corcoran, CA at 5:30 P.M.

**ROLL CALL**

Councilmembers present: Raymond Lerma, Patricia Nolen, Sidonio Palmerin, Jerry Robertson (arrived at 5:34 p.m.) and Jeanette Zamora-Bragg

Councilmembers absent: None

Staff present: Jennie Barkinskaya, Gary Cramer, Joseph Faulkner, Rick Joyner, Marlene Lopez, Soledad Ruiz-Nuñez, Reuben Shortnacy and Kevin Tromborg

Press present: None

**INVOCATION** Invocation was presented by Palmerin.

**FLAG SALUTE** The flag salute was led by Nolen.

**1. PUBLIC DISCUSSION – None**

**2. CONSENT CALENDAR**

Following Council discussion a **motion** was made by Zamora-Bragg and seconded by Nolen to approve Consent Calendar. Motion carried by the following vote:

**AYES:** Lerma, Nolen, Palmerin, and Zamora-Bragg

**NOES:**

**ABSENT:** Robertson

**ABSTAIN:**

**3. APPROPRIATIONS**

Following Council discussion a **motion** was made by Palmerin and seconded by Zamora-Bragg to approve the Warrant Register dated July 25, 2017. Motion carried by the following vote:

**AYES:** Lerma, Nolen, Palmerin, Robertson and Zamora-Bragg

**NOES:**

**ABSENT:**

**4. PRESENTATIONS – None**

- 5. **PUBLIC HEARINGS** – None
- 6. **WRITTEN COMMUNICATIONS** – None

6. **STAFF REPORTS**

7-A. Chuck Jelloian, 1099 Otis Avenue, representing The CrisCom Company, expressed thanks to Chief Reuben Shortnacy and staff for exceptional team effort to secure funding amounting to \$3.8 million for Police Department Facility.

Loren Aiton, representing Teter, an architectural and engineering firm, addressed the Council and explained the process and cost of modular construction that would be used on the new Corcoran Police Facility.

Following Council discussion a **motion** was made by Robertson and seconded by Nolen to authorize Teter to begin the design of the new Corcoran Police Facility. Motion carried by the following vote:

**AYES:** Lerma, Nolen, Palmerin, Robertson and Zamora-Bragg

**NOES:**

**ABSENT:**

7-B. Following Council discussion a **motion** was made by Zamora-Bragg and seconded by Nolen to approve the workshop on commercial cannabis activities and local policy options available to the City of Corcoran. Motion carried by the following vote:

**AYES:** Lerma, Nolen, Palmerin, Robertson and Zamora-Bragg

**NOES:**

**ABSENT:**

7-C. Following Council discussion a motion was made by Robertson seconded by Zamora-Bragg to initiate the policy process and draft ordinance regulating personal cultivation of recreational cannabis with city limits. Motion carried by the following vote:

**AYES:** Lerma, Nolen, Palmerin, Robertson and Zamora-Bragg

**NOES:**

**ABSENT:**

8. **MATTERS FOR MAYOR AND COUNCIL**

8-A. Council received information items.

8-B. Staff received referral items.

8-C. Committee reports.

**CLOSED SESSION**

At 6:24 p.m. Council recessed to closed session pursuant to:

9. **CLOSED SESSION**

**9-A. PENDING LITIGATION** (Government Code § 54956.9). It is the intention of this governing body to meet in closed-session concerning:  
Conference with legal counsel – ANTICIPATED LITIGATION (Government Code § 54956.9(d)).

**Initiation of litigation** (Government Code § 54956.9(d)(4)).

Number of potential cases is: 1.

**9-B. CONFERENCE WITH LABOR NEGOTIATOR(S)** (Government Code § 54957.6). It is the intention of this governing body to meet in closed-session to review its position and to instruct its designated representatives:

- Designated representatives: City Manager
- Name of employee organization: \_\_\_\_\_, or
- Position title(s) of unrepresented employee(s): \_\_\_\_\_  
\_\_\_\_\_.

**9-C. THREAT TO PUBLIC SERVICES OR FACILITIES** (Government Code § 54957(a)).

Consultation with City Manager and Chief of Police (specify name of law enforcement agency and title of officer, or name of applicable agency representative and title).

The City Council provided direction on Item 9-A and Item 9-B.

The regular meeting was reconvened at 7:48 p.m.

**ADJOURNMENT**

**7:50 P.M.**

\_\_\_\_\_  
Raymond Lerma, Mayor

\_\_\_\_\_  
Marlene Lopez, City Clerk

**APPROVED DATE:** \_\_\_\_\_

City of

# CORCORAN

A MUNICIPAL CORPORATION

FOUNDED 1914

**Consent Calendar  
ITEM #: 2-C**

**MEMORANDUM**

**TO:** City Council

**FROM:** Marlene Lopez, City Clerk

**DATE:** August 1, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT:** Ratify Proclamation 2017-07 honoring California Substance Abuse Treatment Facility and State Prison, Corcoran (SATF, CSP-Corcoran).

**Recommendation:**

As part of the consent calendar acknowledge ratifying proclamation 2017-07 honoring California Substance Abuse Treatment Facility and State Prison, Corcoran (SATF, CSP-Corcoran).

**Discussion:**

The proclamation was presented to SATF on August 1, 2017, on their 20<sup>th</sup> Anniversary. SATF is one of the largest employers in the City, employing numerous Corcoran residents and has made significant donations to numerous organizations in the community.

**Budget Impact:**

No impact to the budget.

**Attachments:**

Proclamation 2017-07 honoring SATF.

Proclamation 2017-07

**A PROCLAMATION OF THE CITY COUNCIL OF THE CITY OF CORCORAN  
HONORING CALIFORNIA SUBSTANCE ABUSE TREATMENT FACILITY AND  
STATE PRISON, CORCORAN (SATF, CSP-CORCORAN)**

WHEREAS, the Substance Abuse Treatment Facility and State Prison, Corcoran known as SATF-CSP, Corcoran had its ground breaking in May of 1995 and was activated on August 1, 1997; and,

WHEREAS, SATF-CSP, Corcoran is one of 35 prisons in California and is the largest in the state; and,

WHEREAS, programs at SATF-CSP, Corcoran involve two self-contained treatment facilities which were specifically designed to provide housing and residential substance abuse treatment for minimum security offenders with substance abuse problems; and,

WHEREAS, SATF-CSP, Corcoran is recognized as one of the largest employers in the City and employs numerous Corcoran residents; and,

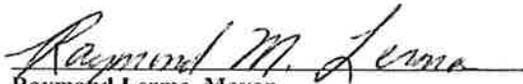
WHEREAS, SATF-CSP, Corcoran has made significant donations to Corcoran Emergency Aid, Corcoran PAL, Corcoran Girl Scouts of America, the Corcoran Kiwanis Club, Operation Gobble, Project Santa, the Corcoran Museum Project and the Corcoran Relay for Life.

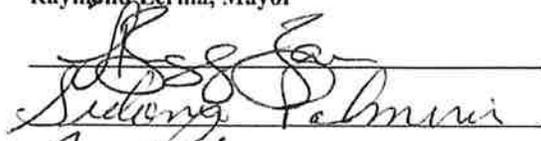
NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Corcoran hereby congratulates

*California Substance Abuse Treatment  
Facility and State Prison, Corcoran*

on its 20<sup>th</sup> Anniversary and adds its thanks for the contributions to the betterment of this community.

DATED: July 25, 2017

  
Raymond Lerma, Mayor


City of

# CORCORAN

A MUNICIPAL CORPORATION

FOUNDED 1914

## CONSENT CALENDAR ITEM #: 2-D

### MEMO

**TO:** Corcoran City Council

**FROM:** Kindon Meik, City Manager

**DATE:** August 3, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT:** Authorize Price Paige & Company to conduct necessary audits for the 2016-2017 fiscal year.

### **Recommendation: (Voice Vote)**

Authorize Price Paige & Company to conduction required financial audits for the 2016-2017 fiscal year and direct the Mayor and City Manager to sign letter of engagement.

### **Discussion:**

The attached letter of engagement outlines the services to be provided by Price Paige & Company as part of their due diligence in reviewing the City's financial statements for the year ending June 30, 2017.

### **Budget Impact:**

The fee set by Price Paige & Company to conduct the audit is \$43,605. Should the City require completion of the GASB 68 calculation and related financial statements, an additional \$1,750 would be charged to the City. Hourly charges may also be incurred if significant time and resources are provided above and beyond the scope of the agreement and if agreed upon by the City. Funds for the audit have been allocated in the approved FY 2017-2018 budget.

### **Attachment:**

Price Page & Company letter of engagement.

City Offices



PRICE PAIGE COMPANY  
Accountancy Corporation

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The Place to Be

June 16, 2017

Mayor Raymond Lerma  
Kindon Meik, City Manager  
City of Corcoran  
832 Whitley Avenue  
Corcoran, California 93212

We are pleased to confirm our understanding of the services we are to provide to the City of Corcoran, California (the City) for the year ending June 30, 2017. We will audit the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information, including the related notes to the financial statements, which collectively comprise the basic financial statements, of the City as of and for the year ending June 30, 2017. Accounting standards generally accepted in the United States of America provide for certain required supplementary information (RSI), such as the management's discussion and analysis (MD&A) and the budgetary comparison schedules, to supplement City's basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the City's RSI in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance. The following RSI is required by U.S. generally accepted accounting principles and will be subjected to certain limited procedures, but will not be audited:

- 1) Management's Discussion and Analysis
- 2) Proportionate Share of Net Pension Liability
- 3) Schedule of Contributions
- 4) Budgetary Comparison Schedules

We have also been engaged to report on supplementary information other than RSI that accompanies the City's financial statements. We will subject the following supplementary information to the auditing procedures applied in our audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America, and we will provide an opinion on it in relation to the financial statements as a whole in a report combined with our auditor's report on the financial statements.

- 1) Schedule of Expenditures of Federal Awards
- 2) Combining and Individual Fund Statements

677 Scott Avenue  
Clovis, CA 93612  
  
tel 559.299.9540  
fax 559.299.2344

### **Audit Objectives**

The objective of our audit is the expression of opinions as to whether your financial statements are fairly presented, in all material respects, in conformity with U.S. generally accepted accounting principles and to report on the fairness of the supplementary information referred to in the second paragraph when considered in relation to the financial statements as a whole. The objective also includes reporting on—

- Internal control over financial reporting and compliance with provisions of laws, regulations, contracts, and award agreements, noncompliance with which could have a material effect on the financial statements in accordance with *Government Auditing Standards*.
- Internal control over compliance related to major programs and an opinion (or disclaimer of opinion) on compliance with federal statutes, regulations, and the terms and conditions of federal awards that could have a direct and material effect on each major program in accordance with the Single Audit Act Amendments of 1996 and Title 2 U.S. *Code of Federal Regulations* (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

The *Government Auditing Standards* report on internal control over financial reporting and on compliance and other matters will include a paragraph that states that (1) the purpose of the report is solely to describe the scope of testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the City's internal control or on compliance, and (2) the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the City's internal control and compliance. The Uniform Guidance report on internal control over compliance will include a paragraph that states that the purpose of the report on internal control over compliance is solely to describe the scope of testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Both reports will state that the report is not suitable for any other purpose.

Our audit will be conducted in accordance with auditing standards generally accepted in the United States of America; the standards for financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; the Single Audit Act Amendments of 1996; and the provisions of the Uniform Guidance, and will include tests of accounting records, a determination of major program(s) in accordance with the Uniform Guidance, and other procedures we consider necessary to enable us to express such opinions. We will issue written reports upon completion of our Single Audit. Our reports will be addressed to the Honorable Mayor and City Council of the City of Corcoran. We cannot provide assurance that unmodified opinions will be expressed. Circumstances may arise in which it is necessary for us to modify our opinions or add emphasis-of-matter or other-matter paragraphs. If our opinions are other than unmodified, we will discuss the reasons with you in advance. If, for any reason, we are unable to complete the audit or are unable to form or have not formed opinions, we may decline to express opinions or issue reports, or we may withdraw from this engagement.

### **Audit Procedures—General**

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; therefore, our audit will involve judgment about the number of transactions to be examined and the areas to be tested. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We will plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the government or to acts by management or employees acting on behalf of the government. Because the determination of abuse is subjective, *Government Auditing Standards* do not expect auditors to provide reasonable assurance of detecting abuse.

Because of the inherent limitations of an audit, combined with the inherent limitations of internal control, and because we will not perform a detailed examination of all transactions, there is a risk that material misstatements or noncompliance may exist and not be detected by us, even though the audit is properly

planned and performed in accordance with U.S. generally accepted auditing standards and *Government Auditing Standards*. In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements or major programs. However, we will inform the appropriate level of management of any material errors, any fraudulent financial reporting, or misappropriation of assets that come to our attention. We will also inform the appropriate level of management of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential, and of any material abuse that comes to our attention. We will include such matters in the reports required for a Single Audit. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts, and may include tests of the physical existence of inventories, and direct confirmation of receivables and certain other assets and liabilities by correspondence with selected individuals, funding sources, creditors, and financial institutions. We will request written representations from your attorneys as part of the engagement, and they may bill you for responding to this inquiry. At the conclusion of our audit, we will require certain written representations from you about your responsibilities for the financial statements; schedule of expenditures of federal awards; federal award programs; compliance with laws, regulations, contracts, and grant agreements; and other responsibilities required by generally accepted auditing standards.

#### **Audit Procedures—Internal Control**

Our audit will include obtaining an understanding of the government and its environment, including internal control, sufficient to assess the risks of material misstatement of the financial statements and to design the nature, timing, and extent of further audit procedures. Tests of controls may be performed to test the effectiveness of certain controls that we consider relevant to preventing and detecting errors and fraud that are material to the financial statements and to preventing and detecting misstatements resulting from illegal acts and other noncompliance matters that have a direct and material effect on the financial statements. Our tests, if performed, will be less in scope than would be necessary to render an opinion on internal control and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to *Government Auditing Standards*.

As required by the Uniform Guidance, we will perform tests of controls over compliance to evaluate the effectiveness of the design and operation of controls that we consider relevant to preventing or detecting material noncompliance with compliance requirements applicable to each major federal award program. However, our tests will be less in scope than would be necessary to render an opinion on those controls and, accordingly, no opinion will be expressed in our report on internal control issued pursuant to the Uniform Guidance.

An audit is not designed to provide assurance on internal control or to identify significant deficiencies or material weaknesses. However, during the audit, we will communicate to management and those charged with governance internal control related matters that are required to be communicated under AICPA professional standards, *Government Auditing Standards*, and the Uniform Guidance.

#### **Audit Procedures—Compliance**

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the City's compliance with provisions of applicable laws, regulations, contracts, and agreements, including grant agreements. However, the objective of those procedures will not be to provide an opinion on overall compliance and we will not express such an opinion in our report on compliance issued pursuant to *Government Auditing Standards*.

The Uniform Guidance requires that we also plan and perform the audit to obtain reasonable assurance about whether the auditee has complied with federal statutes, regulations, and the terms and conditions of federal awards applicable to major programs. Our procedures will consist of tests of transactions and other applicable procedures described in the *OMB Compliance Supplement* for the types of compliance requirements that could have a direct and material effect on each of the City's major programs. The purpose of these procedures will be

to express an opinion on the City's compliance with requirements applicable to each of its major programs in our report on compliance issued pursuant to the Uniform Guidance.

### **Other Services**

We will also assist in preparing the financial statements, schedule of expenditures of federal awards, and related notes of the City in conformity with U.S. generally accepted accounting principles and the Uniform Guidance based on information provided by you. We will also prepare the Annual Report of Financial Transactions and the GASB 68 calculation for the City. These nonaudit services do not constitute an audit under *Government Auditing Standards* and such services will not be conducted in accordance with *Government Auditing Standards*. We will perform the services in accordance with applicable professional standards. We, in our sole professional judgment, reserve the right to refuse to perform any procedure or take any action that could be construed as assuming management responsibilities.

### **Management Responsibilities**

Management is responsible for (1) designing, implementing, and maintaining effective internal controls, including internal controls over federal awards, and for evaluating and monitoring ongoing activities to help ensure that appropriate goals and objectives are met; (2) following laws and regulations; (3) ensuring that there is reasonable assurance that government programs are administered in compliance with compliance requirements; and (4) ensuring that management and financial information is reliable and properly reported. Management is also responsible for implementing systems designed to achieve compliance with applicable laws, regulations, contracts, and grant agreements. You are also responsible for the selection and application of accounting principles; for the preparation and fair presentation of the financial statements, schedule of expenditures of federal awards, and all accompanying information in conformity with U.S. generally accepted accounting principles; and for compliance with applicable laws and regulations (including federal statutes) and the provisions of contracts and grant agreements (including award agreements). Your responsibilities also include identifying significant contractor relationships in which the contractor has responsibility for program compliance and for the accuracy and completeness of that information.

Management is also responsible for making all financial records and related information available to us and for the accuracy and completeness of that information. You are also responsible for providing us with (1) access to all information of which you are aware that is relevant to the preparation and fair presentation of the financial statements, (2) access to personnel, accounts, books, records, supporting documentation, and other information as needed to perform an audit under the Uniform Guidance, (3) additional information that we may request for the purpose of the audit, and (4) unrestricted access to persons within the government from whom we determine it necessary to obtain audit evidence.

Your responsibilities include adjusting the financial statements to correct material misstatements and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements as a whole.

You are responsible for the design and implementation of programs and controls to prevent and detect fraud, and for informing us about all known or suspected fraud affecting the government involving (1) management, (2) employees who have significant roles in internal control, and (3) others where the fraud could have a material effect on the financial statements. Your responsibilities include informing us of your knowledge of any allegations of fraud or suspected fraud affecting the government received in communications from employees, former employees, grantors, regulators, or others. In addition, you are responsible for identifying and ensuring that the government complies with applicable laws, regulations, contracts, agreements, and grants. Management is also responsible for taking timely and appropriate steps to remedy fraud and noncompliance with provisions of laws, regulations, contracts, and grant agreements, or abuse that we report. Additionally, as required by the Uniform Guidance, it is management's responsibility to evaluate and monitor noncompliance with federal statutes, regulations, and the terms and conditions of federal awards; take prompt action when instances of noncompliance are identified including noncompliance identified in audit findings; promptly follow

up and take corrective action on reported audit findings; and prepare a summary schedule of prior audit findings and a separate corrective action plan.

You are responsible for identifying all federal awards received and understanding and complying with the compliance requirements and for the preparation of the schedule of expenditures of federal awards (including notes and noncash assistance received) in conformity with the Uniform Guidance. You agree to include our report on the schedule of expenditures of federal awards in any document that contains and indicates that we have reported on the schedule of expenditures of federal awards. You also agree to include the audited financial statements with any presentation of the schedule of expenditures of federal awards that includes our report thereon. Your responsibilities include acknowledging to us in the written representation letter that (1) you are responsible for presentation of the schedule of expenditures of federal awards in accordance with the Uniform Guidance; (2) you believe the schedule of expenditures of federal awards, including its form and content, is stated fairly in accordance with the Uniform Guidance; (3) the methods of measurement or presentation have not changed from those used in the prior period (or, if they have changed, the reasons for such changes); and (4) you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the schedule of expenditures of federal awards.

You are also responsible for the preparation of the other supplementary information, which we have been engaged to report on, in conformity with U.S. generally accepted accounting principles. You agree to include our report on the supplementary information in any document that contains, and indicates that we have reported on, the supplementary information. You also agree to include the audited financial statements with any presentation of the supplementary information that includes our report thereon. Your responsibilities include acknowledging to us in the written representation letter that (1) you are responsible for presentation of the supplementary information in accordance with GAAP; (2) you believe the supplementary information, including its form and content, is fairly presented in accordance with GAAP; (3) the methods of measurement or presentation have not changed from those used in the prior period (or, if they have changed, the reasons for such changes); and (4) you have disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the supplementary information.

Management is responsible for establishing and maintaining a process for tracking the status of audit findings and recommendations. Management is also responsible for identifying and providing report copies of previous financial audits, attestation engagements, performance audits, or other studies related to the objectives discussed in the Audit Objectives section of this letter. This responsibility includes relaying to us corrective actions taken to address significant findings and recommendations resulting from those audits, attestation engagements, performance audits, or studies. You are also responsible for providing management's views on our current findings, conclusions, and recommendations, as well as your planned corrective actions, for the report, and for the timing and format for providing that information.

You agree to assume all management responsibilities relating to the financial statements, schedule of expenditures of federal awards, and related notes, and any other nonaudit services we provide. You will be required to acknowledge in the management representation letter our assistance with preparation of the financial statements, schedule of expenditures of federal awards, and related notes and that you have reviewed and approved the financial statements, schedule of expenditures of federal awards, and related notes prior to their issuance and have accepted responsibility for them. Further, you agree to oversee the nonaudit services by designating an individual, preferably from senior management, with suitable skill, knowledge, or experience; evaluate the adequacy and results of those services; and accept responsibility for them.

#### **Engagement Administration, Fees and Other**

We understand that your employees will prepare all cash, accounts receivable, or other confirmations we request and will locate any documents selected by us for testing.

We will schedule the engagement based in part on deadlines, working conditions, and the availability of your key personnel. We will plan the engagement based on the assumption that your personnel will cooperate and provide assistance by performing tasks such as preparing requested schedules, retrieving supporting documents, and preparing confirmations. If, for whatever reason, your personnel are unavailable to provide the

necessary assistance in a timely manner, it may substantially increase the work we have to do to complete the engagement within the established deadlines, resulting in an increase in fees over our original fee estimate.

At the conclusion of the engagement, we will complete the appropriate sections of the Data Collection Form that summarizes our audit findings. It is management's responsibility to electronically submit the reporting package (including financial statements, schedule of expenditures of federal awards, summary schedule of prior audit findings, auditors' reports, and corrective action plan) along with the Data Collection Form to the federal audit clearinghouse. We will coordinate with you the electronic submission and certification. The Data Collection Form and the reporting package must be submitted within the earlier of 30 calendar days after receipt of the auditors' reports or nine months after the end of the audit period.

We will provide copies of our reports to the City; however, management is responsible for distribution of the reports and the financial statements. Unless restricted by law or regulation, or containing privileged and confidential information, copies of our reports are to be made available for public inspection.

The audit documentation for this engagement is the property of Price Paige & Company and constitutes confidential information. However, subject to applicable laws and regulations, audit documentation and appropriate individuals will be made available upon request and in a timely manner to your cognizant agency or its designee, a federal agency providing direct or indirect funding, or the U.S. Government Accountability Office for purposes of a quality review of the audit, to resolve audit findings, or to carry out oversight responsibilities. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of Price Paige & Company personnel. Furthermore, upon request, we may provide copies of selected audit documentation to the aforementioned parties. These parties may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

The audit documentation for these engagements will be retained for a minimum of seven years after the report release date.

Fausto Hinojosa, CPA, CFE, is the engagement partner and is responsible for supervising the engagement and signing the report or authorizing another individual to sign it.

Our fee for the City's audit for the fiscal year ended June 30, 2017 is \$43,605 which includes a Single Audit fee for one major program and \$6,550 for preparation of the State Controller's Annual Report of Financial Transactions. Any additional major programs will require additional audit fees and these will be discussed with the Finance Director for approval prior to commencing the work. Preparation of the GASB 68 calculation and related financial statement note disclosure would be an additional \$1,750 should the City require this additional consultation. Our fee estimate is based on anticipated cooperation from your personnel and the assumption that unexpected circumstances will not be encountered during the audit. If significant additional time is necessary, we will discuss it with you and arrive at a new fee estimate before we incur the additional costs. Our fees for these services will be billed at the hourly billing rates for the individual involved, plus out-of-pocket expenses. Our standard hourly rates vary according to the degree of responsibility involved and the experience level of the personnel assigned to your audit. We will issue a monthly billing statement for the work completed in that month. Payments for services are due when rendered and interim billings may be submitted as work progresses and expenses are incurred.

If any dispute pertaining to our work product arises among the parties hereto, the parties agree first to try in good faith to settle the dispute by mediation administered by the American Arbitration Association under its Rules for Professional Accounting and Related Services Disputes before resorting to litigation. The costs of any mediation proceeding shall be shared equally by all parties.

All work will be suspended if your account becomes 90 days past due. No work will be resumed until your account is fully paid. Client and accountant both agree that any dispute over fees charged by the accountant to the client will be submitted for resolution by arbitration in accordance with the Rules for Professional Accounting and Related Services Disputes of the American Arbitration Association. Such arbitration shall be binding and final. IN AGREEING TO ARBITRATION, WE BOTH ACKNOWLEDGE THAT, IN THE EVENT OF A DISPUTE OVER FEES CHARGED BY THE ACCOUNTANT, EACH OF US IS GIVING UP THE RIGHT TO HAVE THE



# Accounts Payable

## Blanket Voucher Approval Document



User: snunez  
Printed: 07/26/2017 - 2:41PM  
Warrant Request Date: 07/26/2017  
DAC Fund:

Batch: 00525.07.2017 - July utility refund checks

| Line | Claimant                 | Voucher No. | Amount                |
|------|--------------------------|-------------|-----------------------|
| 1    | MCVAY, LAURAN            | 000063591   | 105.08                |
| 2    | MC CARTHY, JUANITA       | 000063590   | 5.00                  |
| 3    | CARREON, SAUL            | 000063586   | 82.92                 |
| 4    | AMBRIZ-VILLANUERA, SUSAN | 000063585   | 18.40                 |
| 5    | HERNANDEZ, MARGARET      | 000063589   | 9.70                  |
| 6    | ORTIZ, GLORIA            | 000063593   | 44.21                 |
| 7    | MENCHACA SR, JAIME       | 000063592   | 37.80                 |
| 8    | DVP, LP                  | 000063587   | 3.40                  |
| 9    | SELF HELP ENTERPRISES    | 000063594   | 245.00                |
| 10   | EYNON MANAGEMENT         | 000063588   | 114.91                |
|      |                          |             | <hr/>                 |
|      |                          |             | Page Total: \$666.42  |
|      |                          |             | <hr/>                 |
|      |                          |             | Grand Total: \$666.42 |

City of

# CORCORAN

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**STAFF REPORT  
ITEM #: 4-A**

**MEMORANDUM**

**TO:** City Council

**FROM:** Joseph Faulkner, Public Works Director

**DATE:** August 3, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT: City of Corcoran: Evaluation of Capital Improvement Alternatives**

**Background:**

Since the arsenic removal water treatment plant was built in 2006, Staff has experienced operational and process-related challenges. These challenges primarily consist of filter media loss, iron breakthrough from the pressure filters, and excessive solids production and handling. In 2015 and 2016, Staff and Corona Environmental Consulting worked together to evaluate the causes of these challenges. Earlier this year, Corona Environmental was hired as a consulting company to do further research on combating these challenges. Their findings are summarized in the attached report titled *City of Corcoran: Evaluation of Capital Improvement Alternatives*.

The City of Corcoran's water treatment plant mixes the chemical ferric chloride into the raw water to remove the contaminant arsenic. This mixing is accomplished by a static mixer. Proper mixing would rapidly bind the arsenic to the ferric chloride and would get removed in the filtration step. In their 2015 jar test analysis, Corona conducted a mixing evaluation and identified insufficient mixing as a contributing factor to some of the water plant's challenges.

In 2016, Corona Environmental conducted a pilot study and identified several capital and operational improvements that would upgrade plant performance. In this pilot, Corona measured the effect on arsenic removal from the City of Corcoran's groundwater at a wide range of pH values and ferric chloride dosages. The City of Corcoran pumps groundwater to the water treatment plant with a pH of approximately 8.5, whereas Corona demonstrated that efficiently removing arsenic can be accomplished at a pH range of 7.0 – 7.4. The pilot study showed that dropping the pH before filtration can result in a nearly 40% reduction of ferric chloride dose. Lowering the ferric dose also directly decreases the amount of solids (i.e. sludge) the water treatment plant produces. This is important because solids handling and disposal are costly and laborious with current treatment strategy. To avoid disturbing distribution system water quality, pH reduction is typically coupled with a post-filtration pH increase to bring the pH back to a level in which the distribution system is familiar. pH adjustment is accomplished by adding

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acidic chemicals to lower the pH, and basic chemicals to raise the pH. Corona Environmental has extensively researched three methods of pH adjustment: sulfuric acid (to lower the pH) plus caustic soda (to raise the pH), carbon dioxide (to lower the pH) plus caustic soda, and carbon dioxide plus aeration (to raise the pH about all three pH adjust). Information about all three pH adjustment methods will be explained in the “Discussion” section of this report.

The City of Corcoran water treatment plant has nine active groundwater wells that pump water into one common tank (i.e. the raw water tank). Every well has different chemical characteristics, thus a different quality of water. Two of Corcoran’s wells have moderate to high levels of ammonia, which combines with free chlorine to form a compound called chloramine. The creation of chloramines significantly decreases the free chlorine residual. Maintaining free chlorine residual is critical to the treatment plant’s main processes, disinfection and coagulation/flocculation. The water treatment plant is currently designed to pump sodium hypochlorite from a single feed pump, and this pump cannot maintain adequate free chlorine residual when these ammonia-containing wells are used. Then, water quality immediately drops and arsenic removal becomes very inefficient even at high ferric chloride dosages. Corona Environmental recommends the use of a chlorine application control system at the raw water tank to manage and maintain free chlorine residual throughout the treatment system.

### **Discussion:**

To combat the insufficient mixing, Corona Environmental provided two static mixer replacement options. A table of each mixer’s total final cost is located on page 4 of the attached Corona report. Replacing the static mixer will decrease the arsenic concentration in the finished water, providing even safer water for Corcoran citizens.

In their pH adjustment analysis, Corona analyzed two chemicals for decreasing the pH – sulfuric acid and carbon dioxide. Though effective in reducing the pH, sulfuric acid would present handling and safety challenges and significantly increase the total dissolved solids (TDS) of the finished water. Carbon dioxide is just as effective of a pH reducer and would not have the safety concerns or TDS increases, but is more capital intensive than sulfuric acid systems. (Costs have been broken down on page 9 of the attached Corona Environmental report).

To increase the pH to a level suitable for the distribution system, Corona analyzed the use of caustic soda and aeration. Caustic soda is effective in raising the pH and is much cheaper to construct and maintain than an aeration system. However, it does contain safety and handling hazards, a TDS increase of the finished water, and special on-site storage requirements. The aeration option would be coupled only with carbon dioxide, and though the capital and maintenance costs are significantly more expensive, choosing aeration would have long-term benefits not recognized by the caustic soda option. Aeration would remove many of the taste and odor problems that particular wells contain, and as time goes on, the wells that have these water quality problems will be relied upon more. Aeration also acts as a buffer against possible trihalomethane production, which could arise once these problematic wells are used more often. All three pH adjustment options are plausible and effective. However, due to all of the discussed factors and the cost of an aeration system, Corona Environmental has recommended the combination of carbon dioxide and caustic soda.

Finally, the chlorine application control system would help to provide a consistent water quality and more reliably remove arsenic from the raw water. This system would have the capability of dosing additional chlorine to the raw water tank, monitoring in real time the free chlorine residual, and mixing the raw water tank. These items could be added individually, or preferably as a single unit, namely the PAX Water Technologies' Residual Control System. To get a better idea of this product, please see Appendix A in the attached report.

**Budget Impact:**

See attached Corona report page 3 for chlorine application control system cost, page 4 for static mixer replacement cost, and page 9 for pH adjustment options and their costs.

**Attachments:**

City of Corcoran: Evaluation of Capital Improvement Alternatives

# City of Corcoran: Evaluation of Capital Improvement Alternatives

**DRAFT**

**June 2017**

**Prepared by Corona Environmental Consulting, LLC**

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DRAFT

## Introduction

The City of Corcoran (City) is considering capital improvements to increase the performance of their 21.6 million gallons per day (MGD) arsenic water treatment plant (WTP). The City's WTP utilizes ferric chloride coagulation/ filtration (C/F) for arsenic removal and is supplied by 8 active ground water wells and 1 standby well. The WTP was built in 2006 in response to the then newly promulgated 10 µg/L arsenic maximum contaminant level (MCL) and has frequently experienced operational and process related challenges. The challenges primarily consist of filter media loss, iron breakthrough, and excessive solids production and handling.

A mixing evaluation conducted as part of *Corcoran Arsenic Treatment Plant Assessment: Jar Test Results Technical Memorandum (2015)*, identified insufficient mixing, especially at the low range of flows, as a contributing factor to some of the WTP challenges and recommended replacement. The 2015 Memorandum also recommended pilot testing to identify means to troubleshoot or optimize the existing process. The pilot testing conducted in 2016 identified several capital and operational improvements were recommended that have the potential to improve performance at the WTP. Since the recommendations were issued, the City operations staff have proactively addressed many of the operational issues with the implementation of a filter surveillance program. To realize continued improvements at the WTP, additional capital improvements are necessary, as described below.

The pilot testing demonstrated pH reduction of the water prior to filtration can result in nearly 40% reduction of the ferric chloride dose while providing improved performance with respect to iron breakthrough, filter run time, finished water arsenic concentration, and solids production. Solids production is of note as operations staff spend significant time and resources managing these solids with current treatment strategy.

When implemented at full-scale, pH reduction is coupled with post-treatment increase of pH to prevent disruptions to distribution system water quality. Typically, pH adjustment for arsenic treatment is accomplished by the use of sulfuric acid followed by caustic soda (NaOH). While effective, these chemicals present handling and safety challenges and increase the total dissolved solids (TDS) of the finished water. Alternatively, carbon dioxide can be used to depress the pH which could then be readjusted with either caustic soda or aeration in the finished water tank.

The pilot testing also identified that ammonia found in Wells 6A, 7A, and 9B is a contributing factor associated with the challenges treating these sources. In the event these sources were being treated, operations staff often noted elevated levels of both arsenic and iron in the treated water. Ammonia in the presence of free chlorine chloramines are produced which are not strong enough oxidants to form filterable ferric hydroxide floc or convert arsenite [As(III)] to the filterable arsenate [As(V)]. To overcome this challenge, a chlorine application control system for ammonia management is recommended for the raw water tank.

The following Technical Memorandum (Memo) summarizes the project background, historical water quality and production, technical description, and budgetary costs for a chlorine application control system, static mixer, and pH adjustment system alternatives.

## Water Quality and Production Review

Water quality for each of the City's active sources has been reviewed as part of previous efforts. Table 1 summarizes the historical alkalinity, ammonia, arsenic and pH for the active wells.

*Table 1 Average water quality for the City's 8 active wells (January 2008 through January 2017)*

| Well ID | Alkalinity as CaCO <sub>3</sub> (mg/L) | Ammonia as N (mg/L) | Arsenic (µg/L) | pH (SU) |
|---------|--|---------------------|----------------|---------|
| Well 1A | 94                                     | Non-detect          | 9              | 8.1     |
| Well 2A | 96                                     | Non-detect          | 19             | 8.1     |
| Well 3A | 90                                     | Non-detect          | 15             | 8.2     |
| Well 4B | 95                                     | Non-detect          | 20             | 8.3     |
| Well 6A | 89                                     | 0.06                | 15             | 9.2     |
| Well 7A | 99                                     | 0.28                | 12             | 9.2     |
| Well 8B | 86                                     | no data             | 31             | 8.2     |
| Well 9B | 160                                    | 0.55                | 27             | 8.3     |

For this analysis, alkalinity and initial pH are important as they will dictate the costs to adjust pH. For pH adjustment, wells with higher alkalinity and initial pH will require more chemical addition and be more expensive to treat. As noted, ammonia interferes with the City's arsenic removal process and has been detected in 3 of the City's wells.

### Representative Water Quality and Production

Given the variable water quality and quantity supplied to the WTP, flow-weighted daily production values were used to calculate average pH and alkalinity conditions. These conditions, shown in Table 2, were used to develop chemical consumption rates and associated costs described in subsequent sections. It is worth noting that operations staff have described the finished water pH to be in the range of 7.9 to 8.1. For the purposes of this analysis the conservative value of 8.1 was utilized.

Despite the WTP's design capacity of 21.6 MGD, the City's historical maximum day demand (MDD) of 10.6 MGD was used as the design treatment flow for equipment capital cost estimates while the average day demand (ADD) of 4.3 MGD was used to estimate O&M costs.

*Table 2 Assumed water quality for the City's pH adjustment system*

| Scenario      | Use in Cost Analysis | Raw pH | Post Ferric pH | Alkalinity as CaCO <sub>3</sub> (mg/L) | Finished pH |
|---------------|----------------------|--------|----------------|--|-------------|
| MDD, 10.6 MGD | Capital Sizing       | 8.3    | 8.1            | 100                                    | 8.1         |
| ADD, 4.3 MGD  | O&M Estimates        |        |                |  |             |

## Technology and Cost Development

The following sections provide additional details and an opinion of costs for the recommended alternatives including a chlorine application control system, replacement of the static mixer, and pH adjustment alternatives.

**Chlorine Application Control System**

As described above, ammonia interferes with the arsenic C/F process due to the formation of chloramine species. Ammonia can be managed through break point chlorination where sufficient chlorine is added to convert the ammonia to nitrogen gas. Given the varying water quality from the blended sources coupled with the kinetics of breakpoint chlorination, maintaining a free chlorine residual with the WTP’s singular chlorine feed location is challenging, if not impossible. An outcome of the 2016 pilot testing was a recommendation that the City implement the ability to dose additional chlorine, real time monitoring of free chlorine and total chlorine, and provide mixing in the raw water tank to manage and maintain a free chlorine residual throughout the treatment system. These items could be added as individual components in the tank, or preferably as a single integrated unit, such as the PAX Water Technologies’ (PAX) Residual Control System (RCS).

The RCS system relies on monitoring free and total chlorine along with the water’s oxidation reduction potential (ORP) to maintain an adequate free chlorine residual. The primary components of the RCS system include; a Water Quality Station, Smart Controllers, Chemical Feed System, Water Mixer. Typical operation and maintenance requirements include quarterly calibration of the analyzers. The budgetary capital cost provided by PAX for an RCS system sized for the City’s raw water tank and turnover rate is provide in Table 3. The quotation and product details are provided in Appendix A.

*Table 3 RCS equipment components and capital costs*

| <b>Component</b>       | <b>Included</b>  | <b>Cost (\$)</b> |
|------------------------|--|------------------|
| <b>PWM400 Mixer</b>    | Tripod mount w/controller                                  | \$37,000         |
|                        | Bale handle & chain assembly for easy deployment/retrieval |                  |
|                        | Startup  |                  |
| <b>PAX RCS</b>         | Smart Controller   | \$60,000         |
|                        | Water Quality Station                                      |                  |
|                        | Chlorine Feed Skid   |                  |
|                        | Startup, Calibration, & Training                           |                  |
| <b>Total Equipment</b> |  | <b>\$97,000</b>  |

**Static Mixer**

A regional chemical injection specialist and static mixer distributor, SAF•T•FLO was solicited to provide recommendations for replacement of the existing static mixer and chemical injection assembly. Costs and product details were provided for two types of mixers, a high shear model (Model 2800-0.8 BETA) and a low headloss model (3050-2), both provided by Westfall. The high shear model is a wafer style mixer, ideal for space constrained areas, where as the low headloss unit is a traditional vane style mixer that requires more space, but consumes less energy than the wafer design. The injector quoted for both mixer assemblies has three chemical feed ports. The ports can accommodate ferric chloride and potentially acid addition as described later. A third port could be utilized for polymer addition if desired. Table 4 shows the capital costs, pumping costs, and net present worth costs associated with the headloss for each mixer. The annual costs shown in Table 4 assume an electrical rate of \$0.176/kWh for the City and the ADD of 4.3 MGD.

Table 4 Static mixer comparison

| Cost Component             | Model 2800-0.8 BETA | Model 3050-2    |
|----------------------------|---------------------|-----------------|
| Mixer Capital Cost (\$)    | \$8,450             | \$25,000        |
| Injector Capital Cost (\$) | \$4,725             | \$4,725         |
| Headloss (psi)             | 0.44                | 0.04            |
| Annual Cost (\$/yr)        | \$1,022             | \$82            |
| NPW O&M (\$)               | \$17,000            | \$1,000         |
| <b>Total NPW (\$)</b>      | <b>\$30,000</b>     | <b>\$31,000</b> |

This analysis suggests that the life cycle costs are virtually identical for both mixer types. The City could either opt for low capital cost or low annual cost options unless there are existing infrastructure considerations or operational preferences that make replacement with a specific style mixer more compelling.

**pH Adjustment**

The benefits of pH adjustment with respect to finished water quality, filter performance, and solids generation were clearly demonstrated at pilot-scale. At the time of the pilot study it was assumed pH adjustment would be accomplished with the use of sulfuric acid (sulfuric) to decrease the pH and caustic soda (caustic) to raise the pH following treatment. This pH adjustment approach is the typical approach utilized at arsenic treatment facilities. However, recent advances in in-tank aeration approaches have resulted in carbon dioxide (CO<sub>2</sub>) and aeration becoming a potentially viable strategy.

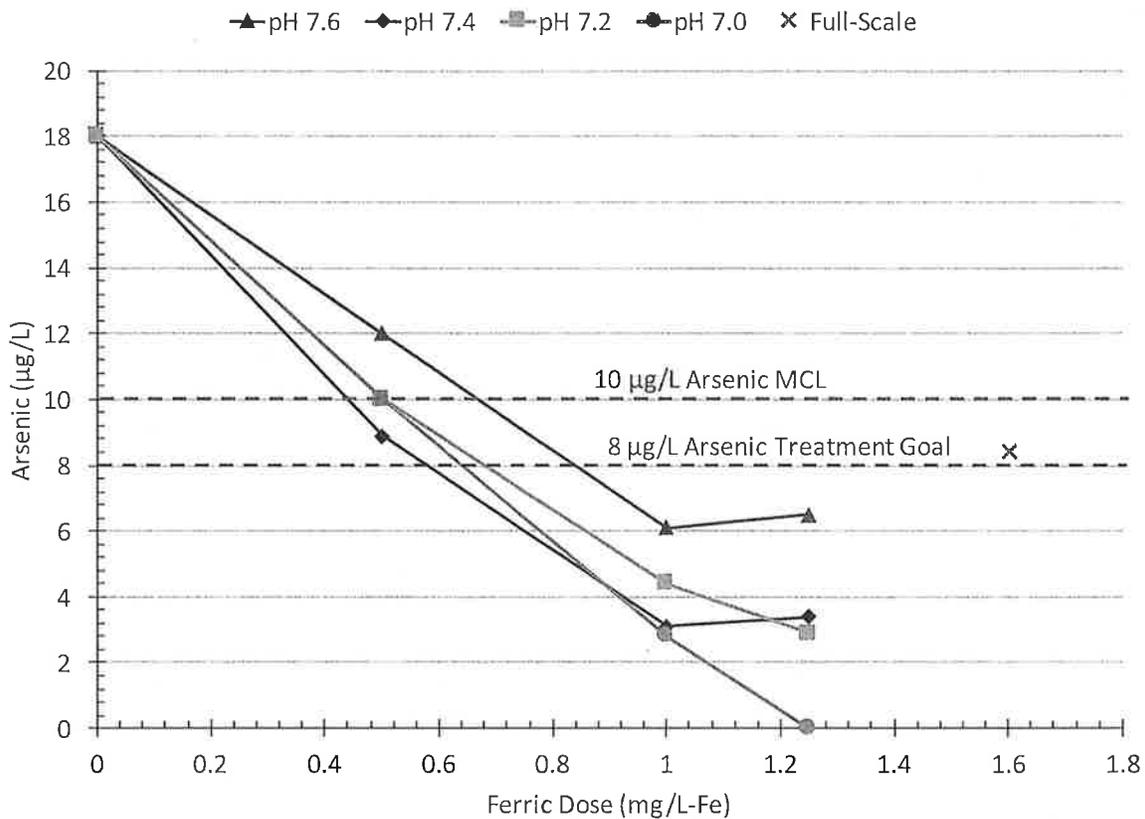
The sulfuric acid and caustic feed systems would be similar to the chemical storage, containment, feed systems, and mixer currently on site for ferric chloride and sodium hypochlorite (chlorine). While pH adjustment with sulfuric and caustic is a proven approach, it can present challenges with chemical handling and worker safety and will result in significant increase in the total dissolved solids (TDS) of the finished water, especially with respect to sodium and sulfate.

Alternatively, if CO<sub>2</sub> were to be used, it could be removed via aeration in the finished water tank. Generally, CO<sub>2</sub> systems are more capital intensive than sulfuric feed systems, but do not have the same chemical handling hazards, nor do they impact the TDS of the finished water. Aeration would also provide a secondary benefit of reducing any volatile co-contaminant concentrations from leaving the plant such as hydrogen sulfide or total trihalomethanes (TTHM). Last, a hybrid pH adjustment strategy could also be considered where CO<sub>2</sub> is coupled with caustic or a combination of aeration and caustic. Additional detail regarding the impact of pH adjustment on the C/F process and each of the pH adjustment alternatives is provided below.

**Impact of pH adjustment on the Arsenic C/F Process**

In June 2017, City staff performed a series of jar tests simulating the C/F process over a range of pH and ferric chloride dose conditions. Figure 1 shows the ferric chloride dose response for arsenic removal over a range of pH conditions.

Figure 1 Ferric chloride dose response for arsenic removal at pH 7.0, 7.2, 7.4, and 7.6



Based on the results shown in Figure 1, reducing ambient pH to 7.4 appears to provide relatively as much or more arsenic removal at a given dose than other samples collected at lower pH and noticeably better removal than the full-scale sample result. For the following analysis of pH adjustment to 7.4 was the condition modeled to estimate chemical consumption and associated costs.

pH Adjustment Strategies

As was briefly described above, the following pH adjustment strategies were considered for the City of Corcoran:

- Sulfuric/Caustic
- CO<sub>2</sub>/Aeration
- CO<sub>2</sub>/Caustic

Each of these scenarios will be further discussed in the following sections.

*Sulfuric Acid*

Sulfuric acid is commonly used in drinking water treatment for pH adjustment and is typically delivered at 93% active chemical 25-ton truck load deliveries. The sulfuric would be stored in a 6,000 gal storage tank with double containment and would be fed in tandem with the ferric chloride in the inline static mixer. The chemical feed rate would be controlled by a downstream pH meter. Advantages and disadvantages

of sulfuric acid for pH reduction are summarized below. The Safety Data Sheet for sulfuric acid is included in Appendix B.

Advantages

- Capital costs are less than a CO<sub>2</sub> feed system
- Operational costs are typically lower than CO<sub>2</sub>
- Uses chemical feed equipment similar to ferric chloride and sodium hypochlorite currently used by the City
- Chemical is fed neat without the need for dilution

Disadvantages

- Sulfuric requires stringent personal safety and handling requirements
- Sulfuric is less operator friendly than the CO<sub>2</sub> alternative for pH adjustment
- Public concern may be greater than storing CO<sub>2</sub> on site
- Sulfuric results in strict on-site storage and handling requirements
- Results in TDS increase in the finished water proportional to dose of sulfuric fed
- Aeration cannot be used to readjust the pH following treatment

The required feed rate and chemical consumption to adjust the pH from ambient to 7.4 are provided in Table 5. Assuming ADD conditions and 6,000 gallon tanks like those currently on-site for ferric chloride storage, a full tank could provide greater than 350 days of storage.

Table 5 Sulfuric acid chemical feed rates

| 93% Sulfuric Use Rate | pH 7.4 |
|-----------------------|--------|
| Sulfuric Dose (mg/L)  | 6.8    |
| 4.3 ADD (gal/day)     | 17     |
| 4.3 ADD (mL/min)      | 48     |
| 10.6 MDD (gal/day)    | 42     |
| 10.6 MDD (mL/min)     | 119    |

Carbon Dioxide

Carbon dioxide converts to carbonic acid (H<sub>2</sub>CO<sub>3</sub>), a weak acid, when dissolved in water. For this application bulk liquid CO<sub>2</sub> would be delivered to the site and stored in a 6-ton refrigerated pressure vessel. The CO<sub>2</sub> is fed at pressure into a carrier water where it forms carbonic acid with a resulting pH of 4 to 5. The carrier water would then be mixed with the WTP’s supply to adjust the pH to the target level of 7.4. Carrier water flow rate and CO<sub>2</sub> injection is controlled by an integrated feed panel included with the system. Advantages and disadvantages of CO<sub>2</sub> for pH reduction are summarized below. The SDS for CO<sub>2</sub> is included in Appendix B.

Advantages

- CO<sub>2</sub> is more operator friendly and safer than sulfuric for pH adjustment
- CO<sub>2</sub> addition results in the formation of carbonate ions which have a less detrimental impact on distribution systems
- Distribution system pH is easier to maintain with the additional buffering capacity provided by the carbonate ions

Disadvantages

- Capital costs are higher than sulfuric acid systems
- Larger electrical load for refrigeration and carrier water pumps (included in O&M estimate)
- Additional operator training will be required (provided by manufacturer and included in quotation)
- Should be coupled with aeration to facilitate off-gassing of CO<sub>2</sub>

Table 6 shows the system capacity, CO<sub>2</sub> use and feed rates for ADD and MDD conditions. This system as currently sized could accommodate MDD of 15.2 MGD at the given pH conditions and provides approximately 60 days of storage under current ADD conditions.

Table 6 Carbon dioxide feed rates

| 100% CO <sub>2</sub> Use Rate | pH 7.4 |
|-------------------------------|--------|
| CO <sub>2</sub> Dose (mg/L)   | 5.5    |
| 4.3 ADD (lbs/day)             | 198    |
| 10.6 MDD (lbs/day)            | 487    |

Caustic Soda

Caustic is commonly used by drinking water utilities for pH adjustment and to provide alkalinity. A typical caustic feed system would consist of a chemical storage tank, feed pump, static mixer, and a downstream meter for pH control. The chemical would be delivered at 50% strength and fed downstream of the filters, prior to the finished water tank. Advantages and disadvantages of caustic for pH reduction are summarized below. The SDS for caustic is included in Appendix B.

Advantages

- Capital costs are less than an aeration system when sized for the same flows
- Operational costs are less than aeration system when sized for the same flows
- Uses chemical feed equipment similar to ferric chloride and sodium hypochlorite currently used by the City
- Chemical is fed neat without the need for dilution

Disadvantages

- Will require insulated storage and heat tracing on plumbing appurtenances stored outside, issue can be alleviated with the use of a lesser strength solution
- Caustic requires stringent personal safety and handling requirements
- Caustic is less operator friendly than the aeration alternative for pH adjustment
- Caustic requires special on-site storage and handling requirements
- Results in TDS increase in the finished water proportional to dose of caustic fed

The required feed rate and chemical consumption to adjust the pH from ambient to 7.4 are provided in Table 7. Assuming ADD conditions and 6,000 gallon tanks like those currently on-site for ferric chloride storage, a full tank could provide greater than 350 days of storage.

Table 7 Caustic soda feed rates

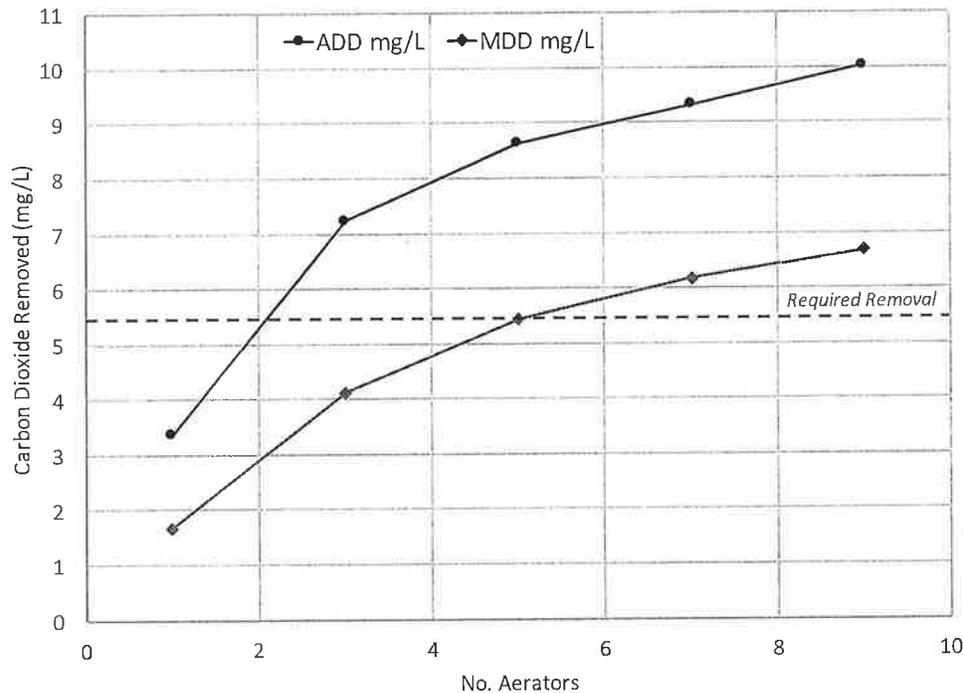
| 50% Caustic Use Rate | pH 7.4 |
|----------------------|--------|
| Caustic Dose (mg/L)  | 4.8    |
| 4.3 ADD (gal/day)    | 27     |
| 4.3 ADD (mL/min)     | 142    |
| 10.6 MDD (gal/day)   | 67     |
| 10.6 MDD (mL/min)    | 351    |

*Aeration*

Aeration or air stripping, has commonly been used in drinking water treatment to remove volatile contaminants. For CO<sub>2</sub> stripping, two configurations could be considered for use in the finished water tanks; spray or surface aeration, each providing CO<sub>2</sub> removal by increasing the air to water interface. Spray aeration utilizes diffuser nozzles installed internally near the top of the tank, producing a mist. This approach was considered; however, it was determined there is not sufficient area in the tank for to be successful given the turnover rates.

In recent years, mechanical surface aerators have been utilized for TTHM removal in storage tanks, however this technology has yet to be implemented for CO<sub>2</sub>, but appear promising. PAX conducted bench-scale testing using water collected from the City's finished water tank and concluded surface aeration is possible. Figure 2 shows the performance estimates in terms of CO<sub>2</sub> removed for different number of 15 HP surface aerators installed in the finished water tank.

Figure 2 Modeled carbon dioxide removal



Based on the performance estimates shown in Figure 2, a minimum of 5 aerators is required under MDD conditions while only 2 are necessary during ADD conditions. However, due to the uncertainty in the modeling efforts, 6 aerators were assumed for the capital cost estimates. Advantages and disadvantages of aeration are summarized below.

Advantages

- No additional chemical addition is required
- Minimal maintenance
- Beneficial removal of THMs, hydrogen sulfide and other volatile compounds that may be present
- Operator safety concerns are limited

Disadvantages

- Higher capital and O&M costs when compared to caustic
- Only applicable in tandem with CO<sub>2</sub>
- Additional permitting discussions required with San Joaquin Valley Air Pollution Control District (SJVAPCD)
- Additional pilot-scale testing required to confirm performance estimates

*Equipment Capital and Operational Cost Estimate*

Equipment capital costs are shown in Table 8 for the selected pH adjustment strategies. The treatment system capital costs were provided by the equipment suppliers for CO<sub>2</sub> and aeration. For the acid and caustic systems each primary component costs, including storage, chemical feed pump, and mixers, as needed were compiled. The annual electrical cost for aeration includes continuous operation of two (2) 15 HP aerators, and two (2) 10 HP vents. For CO<sub>2</sub> the electrical costs include refrigeration and electric vaporizer. Note electrical costs for the chemical feed pumps were not included for the acid and caustic options.

*Table 8 Summary of equipment capital and operational costs*

|                                       | Sulfuric Acid | Carbon Dioxide | Caustic Soda | Aeration  |
|---------------------------------------|---------------|----------------|--------------|-----------|
| <b>Capital Equipment Cost (\$)</b>    | \$29,000      | \$180,000      | \$41,700     | \$580,000 |
| <b>Annual Chemical Cost (\$/yr)</b>   | \$7,000       | \$4,000        | \$38,000     | \$0       |
| <b>Annual Electrical Cost (\$/yr)</b> | \$0           | \$11,000       | \$1,000      | \$58,000  |
| <b>Annual O&amp;M (\$/yr)</b>         | \$7,000       | \$15,000       | \$39,000     | \$58,000  |

The costs shown in Table 8 were used to develop scenario costs for the sulfuric/caustic, CO<sub>2</sub>/caustic, and CO<sub>2</sub>/aeration pH adjustment strategies as shown in Table 9.

*Table 9 Summary of pH adjustment strategy costs*

|                                    | Sulfuric/Caustic | CO <sub>2</sub> /Caustic | CO <sub>2</sub> /Air Stripping |
|------------------------------------|------------------|--------------------------|--------------------------------|
| <b>Capital Equipment Cost (\$)</b> | \$70,700         | \$221,700                | \$760,000                      |
| <b>Annual Chemical Cost (\$)</b>   | \$45,000         | \$42,000                 | \$4,000                        |
| <b>Annual Electrical Cost (\$)</b> | \$1,000          | \$12,000                 | \$69,000                       |
| <b>Annual O&amp;M (\$)</b>         | \$46,000         | \$54,000                 | \$73,000                       |

*pH Adjustment Summary*

The sulfuric/caustic pH adjustment strategy represents the lowest capital and operational costs, however it is associated with the greatest degree of operator safety concerns and impact on finished water quality. To alleviate some of these concerns, it is recommended the City proceed with the CO<sub>2</sub>/caustic strategy despite its increased capital and slightly increased operational costs. This approach will eliminate risk and hazard associated with having sulfuric acid on-site.

## Summary of Recommendations

In order to manage the issues resulting from raw water ammonia, it is recommended the City move forward with installation of a RCS chlorine monitoring and control system in the raw water storage tank. Ideally the RCS would be operational prior to the start-up of the pH adjustment systems so a more consistent water could be treated and the impacts of pH adjustment can be better discerned.

This analysis showed that a wafer type static mixer is most cost effective for the City based on a life cycle analysis. It is recommended the City replace the static mixer concurrently with the pH adjustment improvements. Finally, it is recommended the City proceed with planning, design, and installation of pH adjustment facilities using CO<sub>2</sub> and caustic to eliminate staff concerns of housing and handling sulfuric acid. Given the relatively low cost of the caustic feed system, the City should also consider a pilot testing program to address the performance concerns with aeration. If successful, conversion to aeration could be a viable alternative in the future. This program could be initiated after the CO<sub>2</sub> system is operational.

DRAFT

Appendix A – Equipment Data Sheets

DRAFT

City of

# CORCORAN

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## WRITTEN COMMUNICATIONS ITEM #: 6-A

### MEMO

**TO:** Corcoran City Council

**FROM:** Kindon Meik, City Manager

**DATE:** August 3, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT:** Consider request for leave of absence for Council Member Zamora-Bragg.

### Recommendation: (Voice Vote)

Approve request for leave of absence for Council Member Zamora-Bragg for maternity leave and child bonding.

### Discussion:

The attached letter from Council Member Zamora-Bragg was submitted to the City on August 2, 2017. Ms. Zamora-Bragg is requesting a leave of absence maternity and baby bonding.

### Budget Impact:

None.

### Attachment:

Letter from Council Member Zamora-Bragg.

City Offices

City of

# CORCORAN

A MUNICIPAL CORPORATION

FOUNDED 1914

August 2, 2017

Corcoran City Council  
832 Whitley Ave.  
Corcoran, CA 93212

City Mayor and Fellow Councilmembers

I am requesting a formal leave of absence for the next six consecutive meetings. I will be utilizing this time for maternity leave and child bonding. My approximate date for return is the second meeting in October of 2017.

Thank you for your consideration. Please contact me should you need additional information.

Jeanette Zamora-Bragg  
Councilmember  
City of Corcoran

cc:

Kindon Meik, City Manager  
Marlene Lopez, City Clerk

CITY OFFICES:

832 Whitley Avenue • Corcoran, CA 93212 • Phone 559/992-2151 • [www.cityofcorcoran.com](http://www.cityofcorcoran.com)

City of

# CORCORAN

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**STAFF REPORT  
ITEM #: 7-A**

**MEMO**

**TO:** Corcoran City Council

**FROM:** Marlene Lopez, City Clerk/Assistant to the City Manager

**DATE:** August 3, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT:** Consider appointing a Voting Delegate for the League of California Cities Annual Conference to be held September 13 through September 15, 2017 in Sacramento, CA.

**Recommendation: (Voice Vote)**

The City Council may appoint one of its members to act as the voting delegate. They may also choose to appoint an alternate.

**Discussion:**

Staff received information from the League of California Cities regarding the Annual Conference and designation of a Voting Delegate to attend the League General Assembly Meeting. During this annual business meeting which will be held on Friday, September 15, 2017, member cities consider submitted resolutions that have a direct bearing on city issues.

Staff has made arrangements for those interested in attending. The voting delegate appointment is due back to the League prior to the conference.

As an alternative, the City may choose to not select voting delegates; however, the City would not have voting rights at the annual business meeting.

**Budget Impact:**

The appointment carries no budget impact.

Costs associated with attending the Conference are planned for in the Council travel and training budget account.

**Attachment:**

Voting Delegate Letter

City Offices



1400 K Street, Suite 400 • Sacramento, California 95814  
Phone: 916.658.8200 Fax: 916.658.8240  
[www.cacities.org](http://www.cacities.org)

**Council Action Advised by July 31, 2017**

May 3, 2017

**TO: Mayors, City Managers and City Clerks**

**RE: DESIGNATION OF VOTING DELEGATES AND ALTERNATES  
League of California Cities Annual Conference – September 13 – 15, Sacramento**

The League's 2017 Annual Conference is scheduled for September 13 – 15 in Sacramento. An important part of the Annual Conference is the Annual Business Meeting (during General Assembly), scheduled for 12:30 p.m. on Friday, September 15, at the Sacramento Convention Center. At this meeting, the League membership considers and takes action on resolutions that establish League policy.

In order to vote at the Annual Business Meeting, your city council must designate a voting delegate. Your city may also appoint up to two alternate voting delegates, one of whom may vote in the event that the designated voting delegate is unable to serve in that capacity.

**Please complete the attached Voting Delegate form and return it to the League's office no later than Friday, September 1, 2017. This will allow us time to establish voting delegate/alternate records prior to the conference.**

Please note the following procedures that are intended to ensure the integrity of the voting process at the Annual Business Meeting.

- **Action by Council Required.** Consistent with League bylaws, a city's voting delegate and up to two alternates must be designated by the city council. When completing the attached Voting Delegate form, please attach either a copy of the council resolution that reflects the council action taken, or have your city clerk or mayor sign the form affirming that the names provided are those selected by the city council. Please note that designating the voting delegate and alternates must be done by city council action and cannot be accomplished by individual action of the mayor or city manager alone.
- **Conference Registration Required.** The voting delegate and alternates must be registered to attend the conference. They need not register for the entire conference; they may register for Friday only. To register for the conference, please go to our website: [www.cacities.org](http://www.cacities.org). In order to cast a vote, at least one voter must be present at the

Business Meeting and in possession of the voting delegate card. Voting delegates and alternates need to pick up their conference badges before signing in and picking up the voting delegate card at the Voting Delegate Desk. This will enable them to receive the special sticker on their name badges that will admit them into the voting area during the Business Meeting.

- **Transferring Voting Card to Non-Designated Individuals Not Allowed.** The voting delegate card may be transferred freely between the voting delegate and alternates, but *only* between the voting delegate and alternates. If the voting delegate and alternates find themselves unable to attend the Business Meeting, they may *not* transfer the voting card to another city official.
- **Seating Protocol during General Assembly.** At the Business Meeting, individuals with the voting card will sit in a separate area. Admission to this area will be limited to those individuals with a special sticker on their name badge identifying them as a voting delegate or alternate. If the voting delegate and alternates wish to sit together, they must sign in at the Voting Delegate Desk and obtain the special sticker on their badges.

The Voting Delegate Desk, located in the conference registration area of the Sacramento Convention Center, will be open at the following times: Wednesday, September 13, 8:00 a.m. – 6:00 p.m.; Thursday, September 14, 7:00 a.m. – 4:00 p.m.; and Friday, September 15, 7:30 a.m.– Noon. The Voting Delegate Desk will also be open at the Business Meeting on Friday, but will be closed during roll calls and voting.

The voting procedures that will be used at the conference are attached to this memo. Please share these procedures and this memo with your council and especially with the individuals that your council designates as your city's voting delegate and alternates.

Once again, thank you for completing the voting delegate and alternate form and returning it to the League office by Friday, September 1. If you have questions, please call Carly Shelby at (916) 658-8279.

Attachments:

- Annual Conference Voting Procedures
- Voting Delegate/Alternate Form

## Annual Conference Voting Procedures

1. **One City One Vote.** Each member city has a right to cast one vote on matters pertaining to League policy.
2. **Designating a City Voting Representative.** Prior to the Annual Conference, each city council may designate a voting delegate and up to two alternates; these individuals are identified on the Voting Delegate Form provided to the League Credentials Committee.
3. **Registering with the Credentials Committee.** The voting delegate, or alternates, may pick up the city's voting card at the Voting Delegate Desk in the conference registration area. Voting delegates and alternates must sign in at the Voting Delegate Desk. Here they will receive a special sticker on their name badge and thus be admitted to the voting area at the Business Meeting.
4. **Signing Initiated Resolution Petitions.** Only those individuals who are voting delegates (or alternates), and who have picked up their city's voting card by providing a signature to the Credentials Committee at the Voting Delegate Desk, may sign petitions to initiate a resolution.
5. **Voting.** To cast the city's vote, a city official must have in his or her possession the city's voting card and be registered with the Credentials Committee. The voting card may be transferred freely between the voting delegate and alternates, but may not be transferred to another city official who is neither a voting delegate or alternate.
6. **Voting Area at Business Meeting.** At the Business Meeting, individuals with a voting card will sit in a designated area. Admission will be limited to those individuals with a special sticker on their name badge identifying them as a voting delegate or alternate.
7. **Resolving Disputes.** In case of dispute, the Credentials Committee will determine the validity of signatures on petitioned resolutions and the right of a city official to vote at the Business Meeting.



CITY: \_\_\_\_\_

2017 ANNUAL CONFERENCE  
VOTING DELEGATE/ALTERNATE FORM

Please complete this form and return it to the League office by Friday, **September 1, 2017**. Forms not sent by this deadline may be submitted to the Voting Delegate Desk located in the Annual Conference Registration Area. Your city council may designate one voting delegate and up to two alternates.

In order to vote at the Annual Business Meeting (General Assembly), voting delegates and alternates must be designated by your city council. Please attach the council resolution as proof of designation. As an alternative, the Mayor or City Clerk may sign this form, affirming that the designation reflects the action taken by the council.

**Please note:** Voting delegates and alternates will be seated in a separate area at the Annual Business Meeting. Admission to this designated area will be limited to individuals (voting delegates and alternates) who are identified with a special sticker on their conference badge. This sticker can be obtained only at the Voting Delegate Desk.

1. VOTING DELEGATE

Name: \_\_\_\_\_

Title: \_\_\_\_\_

2. VOTING DELEGATE - ALTERNATE

Name: \_\_\_\_\_

Title: \_\_\_\_\_

3. VOTING DELEGATE - ALTERNATE

Name: \_\_\_\_\_

Title: \_\_\_\_\_

PLEASE ATTACH COUNCIL RESOLUTION DESIGNATING VOTING DELEGATE AND ALTERNATES.

OR

**ATTEST: I affirm that the information provided reflects action by the city council to designate the voting delegate and alternate(s).**

Name: \_\_\_\_\_ E-mail: \_\_\_\_\_

Mayor or City Clerk \_\_\_\_\_ Phone: \_\_\_\_\_  
(circle one) (signature)

Date: \_\_\_\_\_

**Please complete and return by Friday, September 1, 2017**

League of California Cities  
ATTN: Carly Shelby  
1400 K Street, 4<sup>th</sup> Floor  
Sacramento, CA 95814

FAX: (916) 658-8240  
E-mail: cshelby@cacities.org  
(916) 658-8279

City of

# CORCORAN

A MUNICIPAL CORPORATION

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**STAFF REPORT  
ITEM #: 7-B**

**MEMO**

**TO:** Corcoran City Council and Successor Agency of the Corcoran  
Redevelopment Agency

**FROM:** Kindon Meik, City Manager/Executive Director

**DATE:** August 3, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT:** Consider Cross Creek Flood Control District Assessment

**Recommendation: (Voice Vote)**

Consider Cross Creek Flood Control District assessment relating to properties owned by the City of Corcoran and the former Corcoran Redevelopment Agency and authorize City Manager/Executive Director to sign the ballots based on the determined vote.

**Discussion:**

Anticipating unprecedented flooding as a result of above average rains and snowpack, the Cross Creek Flood Control District carried out a full reconstruction of the Cross Creek Levee. The cost for the work on the levee totaled approximately \$10,000,000. An assessment report and subsequent engineers report commissioned by the District allocated the cost of the reconstruction to the properties within the district based on the value of the property and the zone of benefit of protection.

**Budget Impact:**

The proposed assessment for City owned properties is \$22,611.82 per year for three years. The costs will be allocated proportionally to the various funds depending on the function and use of the property. The proposed assessment for the former Redevelopment Agency properties is \$1,778.34 per year for three years. The assessment for former Redevelopment Agency properties will be assessed to the Successor Agency. Following the three assessments noted above, the Cross Creek Flood Control District will minimally assess all properties for ongoing operation and maintenance of the levee.

**Attachment:**

Assessment Ballot

Proposed Assessment of City of Corcoran Properties

Proposed Assessment of Redevelopment Agency Properties

City Offices

**CROSS CREEK FLOOD CONTROL DISTRICT  
OFFICIAL ASSESSMENT BALLOT  
FOR PROPOSED ASSESSMENT**

Page 1 of 2

**PLEASE EXPRESS YOUR VIEW BY MARKING AND SIGNING BELOW**

**Question 1.** Do you approve of the proposed assessment and inflation escalator as described herein and in the accompanying notice for the parcel(s) identified in this

**YES;** I approve the proposed assessment as described herein for the parcel(s) identified in this ballot.

**NO;** I do not approve the proposed assessment as described herein for the parcel(s) identified in this ballot.

I hereby declare under penalty of perjury that I am a record owner of the parcel listed above and/or that I am duly authorized to vote for the record owner.

\_\_\_\_\_  
Signature of Record Owner or Person Authorized  
To Vote For The Record Owner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name of Record Owner

\_\_\_\_\_  
Date

**INSTRUCTIONS FOR COMPLETING AND DELIVERING THIS BALLOT**

To express your view on the proposed Assessment, please check the square before the word "YES" or "NO," and then sign, date and place the ballot in the enclosed self-addressed envelope. Please note your name and address on the return envelope and mail/hand deliver (during normal business hours) your ballot to Cross Creek Flood Control District, P.O. Box 985/1107 Norboe Ave. Corcoran, CA 93212. Ballots may be mailed or hand delivered at any time, including at the public hearing, but MUST be received no later than the conclusion of the public hearing set for 3:00 p.m. on August 28, 2017 at the City Council Chambers, 1015 Chittenden Ave. Corcoran, CA 93212. Ballot return envelopes will not be opened until the conclusion of the hearing and votes will be weighted according to the proportional increased financial obligation on the affected property. Additionally, if you wish, you may change your vote at any time prior to the conclusion of the public hearing on this matter.

If your parcel(s) has more than one ownership interest, the various owners should submit their own ballots. In the event, all of the separate owners fail to submit their own ballots; the District will tabulate the submitted ballots proportionally to reflect a one hundred percent (100%) vote. For example, if a parcel(s) had five ownership interests and only one ballot is submitted, that ballot will be counted as the vote for all five owners. On the other hand, if the District receives two ballots on the property, one YES and one NO, the District will apportion fifty percent (50%) of that parcel(s)'s vote to YES and fifty percent (50%) to NO.

**CROSS CREEK FLOOD CONTROL DISTRICT  
OFFICIAL ASSESSMENT BALLOT  
FOR PROPOSED ASSESSMENT**

Page 2 of 2

Property Owner's Name: REDEV AGENCY OF THE CITY OF CORCORAN

Property Owner's Address: 1033 CHITTENDEN AVE CORCORAN CA 93212

| Assessor's Parcel Number(s):           | Number of Votes* | Amount Assessed to Parcel Number(s)**  |
|--|------------------|--|
| 034290002000                           | 0.600            | \$6.00                                 |
| 034290003000                           | 2.610            | \$26.10                                |
| 034290004000                           | 2.610            | \$26.10                                |
| 034290005000                           | 2.610            | \$26.10                                |
| 034290006000                           | 2.610            | \$26.10                                |
| 034290010000                           | 2.610            | \$26.10                                |
| 034290011000                           | 2.610            | \$26.10                                |
| 034290012000                           | 2.610            | \$26.10                                |
| 034290013000                           | 0.600            | \$6.00                                 |
| 034290014000                           | 0.600            | \$6.00                                 |
| 034290015000                           | 0.600            | \$6.00                                 |
| <b>Total Votes for your Parcel(s):</b> | <b>20.671</b>    | <b>Total Amount Assessed: \$206.70</b> |

\*One "vote" is given for each \$10 assessed to the parcel number(s).

\*\*The amount assessed is the portion of \$3,333,333.33 chargeable to individual parcel number(s).

**Total Maximum Amount of Assessment for Entire District (i.e., not individual landowners):** For years 2017- 2019 the assessment is based on \$3,333,333.33 per year; for years 2020 and beyond, the assessment will be based on \$150,000 with a minimum of \$6.00 per parcel to cover District costs. An escalator of 0-3% may be added to the maximum assessment amounts beginning in 2018 and continuing indefinitely as necessary.

**Duration of Payments:** Funding of capital improvements shall take place from 2017-2019 for a total of \$10,000,000 (\$3,333,333.33 x 3 years = \$10,000,000). Beginning in 2020 and beyond, a District-wide assessment for operation and maintenance expenses shall be levied annually (\$150,000 with a minimum charge of \$6.00 per parcel).

**CROSS CREEK FLOOD CONTROL DISTRICT  
OFFICIAL ASSESSMENT BALLOT  
FOR PROPOSED ASSESSMENT**

**Page 2 of 2**

**Property Owner's Name:** REDEVELOPMENT AGENCY OF CITY OF CORCORAN

**Property Owner's Address:** C/O CITY OF CORCORAN 1033 CHITTENDEN AVE

| Assessor's Parcel Number(s):           | Number of Votes* | Amount Assessed to Parcel Number(s)**    |
|--|------------------|--|
| 030204001000                           | 1.333            | \$13.33                                  |
| 030172003000                           | 55.300           | \$553.00                                 |
| 030201011000                           | 3.885            | \$38.85                                  |
| 030203002000                           | 96.647           | \$966.46                                 |
| <b>Total Votes for your Parcel(s):</b> | <b>157.164</b>   | <b>Total Amount Assessed: \$1,571.64</b> |

*\*One "vote" is given for each \$10 assessed to the parcel number(s).*

*\*\*The amount assessed is the portion of \$3,333,333.33 chargeable to individual parcel number(s).*

**Total Maximum Amount of Assessment for Entire District (i.e., not individual landowners):** For years 2017- 2019 the assessment is based on \$3,333,333.33 per year; for years 2020 and beyond, the assessment will be based on \$150,000 with a minimum of \$6.00 per parcel to cover District costs. An escalator of 0-3% may be added to the maximum assessment amounts beginning in 2018 and continuing indefinitely as necessary.

**Duration of Payments:** Funding of capital improvements shall take place from 2017-2019 for a total of \$10,000,000 (\$3,333,333.33 x 3 years = \$10,000,000). Beginning in 2020 and beyond, a District-wide assessment for operation and maintenance expenses shall be levied annually (\$150,000 with a minimum charge of \$6.00 per parcel).

**CROSS CREEK FLOOD CONTROL DISTRICT  
OFFICIAL ASSESSMENT BALLOT  
FOR PROPOSED ASSESSMENT**

Page 2 of 2

Property Owner's Name: CITY OF CORCORAN

Property Owner's Address: 832 WHITLEY AVE CORCORAN CA 93212

| Assessor's Parcel Number(s):           | Number of Votes* | Amount Assessed to Parcel Number(s)**     |
|--|------------------|---|
| 03428008000                            | 16.130           | \$161.30                                  |
| 030014011000                           | 16.704           | \$167.04                                  |
| 032085014000                           | 13.787           | \$137.87                                  |
| 032280020000                           | 25.564           | \$255.64                                  |
| 030165003000                           | 0.600            | \$6.00                                    |
| 034110011000                           | 9.798            | \$97.98                                   |
| 030204002000                           | 4.651            | \$46.51                                   |
| 030204003000                           | 59.324           | \$593.24                                  |
| 030340001000                           | 0.659            | \$6.59                                    |
| 030340002000                           | 0.625            | \$6.25                                    |
| 030340003000                           | 0.625            | \$6.25                                    |
| 030213009000                           | 2.030            | \$20.29                                   |
| 030213003000                           | 1.664            | \$16.64                                   |
| 034220034000                           | 218.906          | \$2,189.06                                |
| 034290009000                           | 1.305            | \$13.05                                   |
| 030201007000                           | 83.053           | \$830.53                                  |
| 030202001000                           | 6.289            | \$62.89                                   |
| 030212009000                           | 7.609            | \$76.09                                   |
| 030213006000                           | 33.180           | \$331.80                                  |
| 030223001000                           | 65.256           | \$652.56                                  |
| 030223002000                           | 9.242            | \$92.42                                   |
| 030223003000                           | 2.497            | \$24.97                                   |
| 030223010000                           | 21.436           | \$214.36                                  |
| 030240030000                           | 232.053          | \$2,320.53                                |
| 032101003000                           | 5.893            | \$58.93                                   |
| 032230035000                           | 3.707            | \$37.07                                   |
| 034150049000                           | 49.961           | \$499.61                                  |
| 034290007000                           | 1.305            | \$13.05                                   |
| 034290008000                           | 1.305            | \$13.05                                   |
| 034300036000                           | 1.305            | \$13.05                                   |
| 034310077000                           | 81.395           | \$813.95                                  |
| 034310078000                           | 15.501           | \$155.01                                  |
| 044110006000                           | 956.733          | \$9,567.32                                |
| 044110039000                           | 97.223           | \$972.23                                  |
| 044110041000                           | 56.111           | \$561.10                                  |
| 044110059000                           | 3.115            | \$31.15                                   |
| 044110064000                           | 154.644          | \$1,546.44                                |
| <b>Total Votes for your Parcel(s):</b> | <b>2,261.183</b> | <b>Total Amount Assessed: \$22,611.82</b> |

\*One "vote" is given for each \$10 assessed to the parcel number(s).

\*\*The amount assessed is the portion of \$3,333,333.33 chargeable to individual parcel number(s).

**Total Maximum Amount of Assessment for Entire District (i.e., not individual landowners):** For years 2017- 2019 the assessment is based on \$3,333,333.33 per year; for years 2020 and beyond, the assessment will be based on \$150,000 with a minimum of \$6.00 per parcel to cover District costs. An escalator of 0-3% may be added to the maximum assessment amounts beginning in 2018 and continuing indefinitely as necessary.

**Duration of Payments:** Funding of capital improvements shall take place from 2017-2019 for a total of \$10,000,000 (\$3,333,333.33 x 3 years = \$10,000,000). Beginning in 2020 and beyond, a District-wide assessment for operation and maintenance expenses shall be levied annually (\$150,000 with a minimum charge of \$6.00 per parcel).

**STAFF REPORT  
ITEM #: 7-C**

**MEMORANDUM**

**TO:** City Council

**FROM:** Joseph Faulkner, Public Works Director

**DATE:** August 1, 2017

**MEETING DATE:** August 8, 2017

**SUBJECT:** Well 11 Improvements

**Recommendation:**

Staff is recommending awarding the Well 11 improvement project to Steve Dovali Construction Company, with their bid amount to be \$791,625.50 and to authorize the Mayor to execute the contracts once they are received by the City.

**Discussion:**

At the June 13, 2017 meeting, City Council authorized Staff to solicit construction bids for the Well 11 site improvements. Bids for the City's Well 11 improvements were opened on August 1, 2017. The lowest bid received was from Steve Dovali Construction Company, in the amount of \$791,625.50. The Engineer's Estimate was \$659,621.60. All bids received were:

|                                   |              |
|-----------------------------------|--------------|
| Steve Dovali Construction Company | \$791,625.50 |
| Todd Companies                    | \$822,563.73 |
| Brough Construction, Inc.         | \$860,800.00 |
| TTS Construction                  | \$897,844.00 |
| RTC Construction Management       | \$995,235.00 |

Steve Dovali Construction Company submitted a bid that was complete and in order. Their license is current, and their DIR registration is current

Pending sufficient funds, it is recommended that the City Council award the contract to Steve Dovali Construction Company, for the lowest bid amount of \$791,625.00 and encumber a contingency of \$80,000.

**Budget Impact:**

\$791,625.00 and encumber a contingency of \$80,000 from the Water Capital account.

**Attachments:**

Well 11 bid proposal summary.

City of Corcoran Well 11 Improvements

| NAME & ADDRESS OF BIDDER |            | Description | Steve Davall Construction<br>8461 E. Olive Ave.<br>Fresno, CA 93737 |              | Todd Companies<br>PO Box 6820<br>Visalia, CA 93290 |                     | Brough Construction, Inc.<br>634 Printz Road<br>Arroyo Grande, CA 93420 |                     | TTS Construction<br>1220 E. Pine Street<br>Lodi, CA 95240 |                     | RTC Construction<br>Management<br>731 E Yosemite Ave., B127<br>Merced, CA 95340 |                     | Engineer's Estimate |                      |
|--------------------------|------------|-------------|---|--------------|--|---------------------|---|---------------------|---|---------------------|---|---------------------|---------------------|----------------------|
| Item                     | Approx Qty |             | Unit  | Unit Price   | Total \$   | Unit Price          | Total \$  | Unit Price          | Total \$  | Unit Price          | Total \$  | Unit Price          | Total \$            | Unit Price           |
| 1.                       | 1          | LS          | 39,000.00   | \$ 39,000.00 | 21,272.00  | \$ 21,272.00        | 17,000.00   | \$ 17,000.00        | 44,000.00   | \$ 44,000.00        | 42,518.00   | \$ 42,518.00        | \$28,146.00         | \$ 28,146.00         |
| 2.                       | 617        | CY          | 51.50   | \$ 31,775.50 | 44.00  | \$ 27,148.00        | 75.00   | \$ 46,275.00        | 90.00   | \$ 55,530.00        | 72.00   | \$ 44,424.00        | \$30.00             | \$18,510.00          |
| 3.                       | 300        | LF          | 70.00   | \$ 21,000.00 | 148.00   | \$ 44,400.00        | 91.00   | \$ 27,300.00        | 131.00  | \$ 39,300.00        | 116.00  | \$ 34,800.00        | \$60.00             | \$18,000.00          |
| 4.                       | 1          | LS          | 248,200.00  | \$248,200.00 | 246,390.00   | \$246,390.00        | 245,000.00  | \$245,000.00        | 252,600.00  | \$252,600.00        | 263,932.00  | \$263,932.00        | \$100,000.00        | \$100,000.00         |
| 5.                       | 1          | LS          | 300,900.00  | \$300,900.00 | 318,714.00   | \$318,714.00        | 339,000.00  | \$339,000.00        | 323,964.00  | \$323,964.00        | 408,247.00  | \$408,247.00        | \$150,000.00        | \$150,000.00         |
| 6.                       | 1          | LS          | 139,500.00  | \$139,500.00 | 144,293.00   | \$144,293.00        | 160,000.00  | \$160,000.00        | 163,300.00  | \$163,300.00        | 176,676.00  | \$176,676.00        | \$250,000.00        | \$250,000.00         |
| 7.                       | 6,760      | SF          | 1.40  | \$ 9,450.00  | 3.00   | \$ 20,250.00        | 2.70  | \$ 18,225.00        | 2.20  | \$ 14,850.00        | 3.00  | \$ 20,250.00        | \$4.00              | \$27,000.00          |
| 8.                       | 1          | LS          | 1,800.00  | \$ 1,800.00  | 96.73  | \$ 96.73            | 8,000.00  | \$ 8,000.00         | 4,300.00  | \$ 4,300.00         | 4,388.00  | \$ 4,388.00         | \$8,000.00          | \$8,000.00           |
|                          |            | 10%         |   |              |  |                     |   |                     |   |                     |   |                     |                     | \$ 59,965.60         |
|                          |            |             | <b>TOTAL BID</b>  |              |  | <b>\$791,625.50</b> |   | <b>\$860,800.00</b> |   | <b>\$897,644.00</b> |   | <b>\$995,235.00</b> |                     | <b>\$ 659,621.60</b> |

| Sub-contractors: | Fence:             | Valley Fence   | Golden Bay Fence | Big Wakoo      | Golden Bay Fence  |
|------------------|--------------------|----------------|------------------|----------------|-------------------|
|                  | Well Pump & Motor: | Zim Industries | Zim Industries   | Zim Industries | Zim Industries    |
|                  | Painting:          | WM B. Saleh    | WM B. Saleh      | WM B. Saleh    | WM B. Saleh       |
|                  | Electrical:        | Telstar        | Telstar          | Telstar        | Telstar           |
|                  | Canopy:            |                |                  |                | Baja Construction |
|                  |                    |                |                  |                | United Carports   |

City of

# CORCORAN

A MUNICIPAL CORPORATION

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## MATTERS FOR MAYOR AND COUNCIL ITEM #: 8-A

### MEMORANDUM

**MEETING DATE:** August 8, 2017  
**TO:** Corcoran City Council  
**FROM:** Kindon Meik, City Manager  
**SUBJECT:** Matters for Mayor and Council

#### UPCOMING EVENTS / MEETINGS

- August 10, 2017 (Thursday) League of California Cities South San Joaquin Valley Division General Membership Meeting – 6:00 PM, Tornino's Restaurant in Fresno
- August 22, 2017 (Tuesday) City Council Meeting – 5:30 PM, Council Chambers
- September 6, 2017 (Wednesday) City County Coordinating Meeting – 6:00 PM Kings County Administration Building
- September 12, 2017 (Tuesday) City Council Meeting – 5:30 PM, Council Chambers
- September 13-15, 2017 (Wednesday-Friday) League of CA Cities Annual Conference, Sacramento Convention Center
- September 26, 2017 (Tuesday) City Council Meeting – 5:30 PM, Council Chambers

#### A. Information Items

1. Otis Avenue Oleander Trimming
2. John Maroot Park Update
3. HdL Workshop on Commercial Cannabis

#### B. Council Comments – *This is the time for council members to comment on matters of interest.*

1. Staff Referral Items

#### C. Committee Reports

#### D. Council Goals:

#### City Offices



**COUNCIL REQUESTS OR REFERRAL ITEMS  
PENDING FURTHER ACTION or RESOLUTION BY STAFF**

| <b>DATE</b><br>Sent to Council/<br>Request made | <b>REQUEST</b>   | <b>STATUS</b>                                | <b>DEPARTMENT<br/>RESPONSIBLE</b><br>Dept/Division |
|---|--|--|--|
| 06/13/17  | <p>At the 07/25/17 meeting, Council agreed to contract with HdL Companies to conduct a workshop on commercial cannabis. Staff will work with the consultant to determine a possible date.</p> <p>Study session held on 06/27/17 regarding cannabis. Council directed staff to continue discussion on commercial cannabis businesses and local policy options.</p> <p>06/13/17 Council requested a study session and further discussion on commercial cannabis cultivators and other cannabis related businesses interested in operating in Corcoran.</p> | Study session scheduled for June 27 meeting. | All  |
| 05/09/17  | City Council requested that Staff present draft finance policies relating to General Fund reserves, balanced budget, etc.  | Draft policies to be presented in late June  | City Manager/Finance Director                      |
| 05/09/07  | Council requested regular updates on the Hwy 43 and Whitley Ave. roundabout construction.  | Update to be included on future agendas      | Public Works Director                              |