



**CITY OF MORRO BAY  
WATER RECLAMATION FACILITY  
CITIZEN ADVISORY COMMITTEE (WRFCAC)  
NOTICE OF SPECIAL MEETING**

*The City of Morro Bay provides essential public services and infrastructure to maintain a safe, clean and healthy place for residents and visitors to live, work and play.*

**SPECIAL MEETING AGENDA**

**May 9, 2019**

**5:00 P.M.**

**Morro Bay Community Center, Multi-Purpose Room  
1001 Kennedy Way, Morro Bay, CA**

Barbara Spagnola  
Vice Chairperson

Paul Donnelly

Doug Rogers

Valerie Levulett

Jesse Barron,  
Planning Commission

Stephen Shively,  
Public Works Advisory Board

ESTABLISH QUORUM AND CALL TO ORDER

PUBLIC COMMENT FOR ITEMS ON THE AGENDA

SPECIAL AGENDA MEETING ITEM

- I. APPROVAL OF MINUTES FROM THE WATER RECLAMATION FACILITY CITIZEN ADVISORY COMMITTEE AND PLANNING COMMISSION MEETING OF JULY 3, 2018
- II. APPROVAL OF MINUTES FROM THE WATER RECLAMATION FACILITY CITIZEN ADVISORY COMMITTEE MEETING OF DECEMBER 17, 2018
- III. WRF PROJECT UPDATE  
**Staff Recommendation:** Receive and File.
- IV. REVIEW OF BASIS OF DESIGN REPORT (BODR) AND POTENTIAL CHANGE ORDERS (PCO) FOR THE WATER RECLAMATION FACILITY  
**Staff Recommendation:** Review and provide comments regarding the BODR and PCRs.

ADJOURN

DATED: 2 May 2019

Barbara Spagnola, Vice Chairperson

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This agenda is subject to amendment up to 24 hours prior to the date and time set for the meeting. Please refer to the agenda posted at the Public Works Department, 955 Shasta Avenue, for any revisions or call the department at 772-6262 for further information.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Public Works Department at (805) 772-6262. Notification 24 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

MINUTES – PLANNING COMMISSION AND WATER RECLAMATION FACILITY CITIZEN ADVISORY COMMITTEE (WRFCAC)  
 SPECIAL MEETING – July 3, 2018  
 VETERAN’S MEMORIAL BUILDING – 3:00 to 5:45 P.M.

- |          |  |   |
|----------|--|---|
| PRESENT: | Barbara Spagnola<br>Jesse Barron<br>Paul Donnelly<br>Valerie Levulet<br>Doug Rogers<br>Richard Sadowski<br>Steve Shively | Vice Chairperson<br>Board Member<br>Board Member<br>Board Member<br>Board Member<br>Board Member<br>Board Member      |
| PRESENT: | Gerald Luhr<br>Jesse Barron<br>Joseph Ingraffia<br>Michael Lucas<br>Richard Sadowski                                     | Chairperson<br>Commissioner<br>Commissioner<br>Commissioner<br>Commissioner   |
| STAFF:   | Joseph Pannone<br>Rob Livick<br>Scot Graham<br>Eric Casares<br>Janeen Burlingame   | City Attorney<br>Public Works Director<br>Community Development Director<br>WRF Program Manager<br>Management Analyst |

ESTABLISH QUORUM AND CALL TO ORDER  
 The meeting was called to order at 3:01 p.m. and a quorum was present.

MOMENT OF SILENCE/PLEDGE OF ALLEGIENCE  
 ANNOUNCEMENTS

Richard Sadowski was concerned that a short period of time was given to review a copy of the Draft Final Environmental Report. He felt it was not enough time for this caliber of a project.

Barbara Spagnola mentioned that speaker slips should be filled out and bring to staff.

PUBLIC COMMENT  
<https://youtu.be/Cbx1CUuI9Wk?t=1m25s>

The public comment period was opened, seeing none, the public comment period was closed.

1. Review of Draft Final Environmental Impact Report (FEIR) for the Morro Bay Water Reclamation Facility (WRF)  
<https://youtu.be/Cbx1CUuI9Wk?t=3m34s>

Scot Graham introduced Jennifer Jacobus, with ESA who made a brief presentation.

Discussion, comments and questions continued amongst Committee members, staff, and consultants.

PUBLIC COMMENT  
<https://youtu.be/Cbx1CUuI9Wk?t=33m15s>

The public comment period was opened.

Jeff Heller thanked the committees for their time. He expressed concern about why the South Bay Blvd location is the preferred sight and the impact it will have on businesses on Quintana Road during construction. He feels there is not a preferred pipeline route or a preferred lift station location yet. His last concern questioned the preferred location of the wells and the impacts for each of those locations.

Glenn Silloway thanked the committees for their long hours of work. He feels the project needs to move ahead citing time, interest rates and costs that could delay the project. He addressed some of the public's requests in the report asking that for an alternative site on the beach west of the highway. He then cited information from the Coastal Commission regarding their decision.

The Public comment period was closed.

Rob Livick, Committee Members and Staff addressed some of the specific comments from the public.

Discussion, comments and questions continued amongst Committee members, staff, and consultants.

MOTION: Vice Chairperson Barbara Spagnola made a motion that our Board (Water Reclamation Facility Citizen Advisory Committee) recommend adoption and certification of the Final Environmental Impact Report incorporating all the changes discussed and included in the appendix today for the Water Reclamation Facility and make that recommendation to City Council.

The motion was seconded by Steve Shively. The motion carried 5-2-0 by Vice Chairperson Spagnola, Commissioner's Shively, Levulett, Barron and Rogers voting yes and Commissioner Sadowski and Commissioner Donnelley voting no.

MOTION: Commissioner Lucas made a motion that we recommend certification.

The motion was seconded by Commissioner Barron. The motion carried 4-1-0 by Commissioner's Luhr, Barron, Lucas, and Ingraffia voting yes and Commissioner Sadowski voting no.

#### COMMITTEE MEMBER CLOSING COMMENTS

<https://youtu.be/Cbx1CUul9Wk?t=1h51m55s>

#### ADJOURNMENT

The meeting adjourned at 4:57 p.m.

Recorded by:

Gina Gregory  
Office Assistant

MINUTES – WATER RECLAMATION FACILITY CITIZEN ADVISORY COMMITTEE (WRFCAC)  
SPECIAL MEETING – December 17, 2018  
MORRO BAY COMMUNITY CENTER – 3:00 to 5:00 P.M.

PRESENT: Valerie Levulett  
Richard Sadowski  
Barbara Spagnola – Vice Chairperson  
Steve Shively  
Paul Donnelly  
Doug Rogers  
Jesse Barron

ABSENT: None

|        |              |                            |
|--------|--------------|----------------------------|
| STAFF: | Rob Livick   | Public Works Director      |
|        | Eric Casares | WRF Project Manager        |
|        | Joe Mueller  | Utilities Division Manager |
|        | Gina Gregory | Office Assistant           |

ESTABLISH QUORUM AND CALL TO ORDER  
The meeting was called to order at 3:00 p.m. and a quorum was present.

MOMENT OF SILENCE/PLEDGE OF ALLEGIENCE

ANNOUNCEMENTS

I. REVIEW OF CONCEPT DESIGN REPORT PRESENTATION FOR WRF CONVEYANCE SYSTEM  
<https://youtu.be/M7m09sYWanQ?t=1m25s>

Rob Livick introduced Eric Casares, (WRF Project Manager), who had some brief opening comments. Mike Fisher with Waterworks Engineers presented the Review of Concept Design Report Presentation for WRF Conveyance System.

Discussion, comments and questions continued amongst Committee members, staff, and consultants.

PUBLIC COMMENT  
<https://youtu.be/M7m09sYWanQ?t=37m1s>

The public comment period was opened.

Carol Truesdale, Morro Bay resident since 1995, questioned where putting a new lift station outside of Lemos showed on the EIR Report and is concerned about the costs and the citizens in Morro Bay having difficulties with the \$41 surcharge. She doesn't think this is a good idea.

Marla Jo Sadowski asked if the consultants could describe the difference between cost and non-cost accessing and stated as a Climate Reality Project Leader, she is concerned about greenhouse gas inventory before proceeding.

Larry Truesdale, Morro Bay resident, is concerned about the piping on this project and the separation of multiple pipes carrying fresh water and sewage.

John Weiss, business owner and resident of Morro Bay, is concerned about the route of the piping along Quintana Road and the impact it will have on the disruption of the business community.

The public comment period was closed.

Discussion, comments and questions continued amongst Committee members, staff, and consultants.

### C. COMMITTEE MEMBER CLOSING COMMENTS

Doug Rogers expressed concerns on the differences in the flow numbers that were published.

Richard Sadowski would like to fix the collection system we have in place now and get accurate flows before we spend more money. He feels that Climate Change needs to be addressed as well.

Jesse Barron is concerned that there needs to be more attention to community disruption, including traffic plans and getting the community involved with what is forthcoming,

Paul Donnelly is concerned with pothole utilities that may require a monitor and could lead to possible jeopardizing of federal funds if this is not in place.

Barbara Spagnola asked for an update on the WIFFIA application process. She also mentioned that if any citizens interested in being involved with any of the Citizen's Boards that there are 14 openings at this time and all information is available on the website and are due back on January 11<sup>th</sup> at City Hall.

Valerie Levulett asked if work is still being done on the Bureau of Reclamation Grant and if any communication has been made.

### ADJOURNMENT

The meeting adjourned at 5:06 p.m. The next Regular Meeting will be held on January 2, 2019 at 3:00p.m. at the Veteran's Memorial Building located at 209 Surf Street, Morro Bay, CA.

Recorded by:

Gina Gregory  
Office Assistant

# Staff Report

**TO:** Water Reclamation Facility Citizens Advisory Committee

**DATE:** May 2, 2019

**FROM:** Rob Livick, PE/PLS – Public Works Director/City Engineer  
Eric Casares, PE – Water Reclamation Facility (WRF) Program Manager

**SUBJECT:** Review of WRF Project Update Report

## **RECOMMENDATION**

Receive and file the attached March 2019 Monthly Status Report for the Water Reclamation Facility.

## **ALTERNATIVES**

No alternatives are recommended.

## **FISCAL IMPACT**

No additional fiscal impact is proposed within this update. All work is proceeding within the City's Fiscal Year 2018/19 budget for the WRF Project.

## **BACKGROUND**

At the February 26, 2019 City Council meeting, City staff and the Program Manager (Carollo) provided an update on the Water Reclamation Facility Project (Project). During that meeting, Carollo indicated they were working on the new Project Monthly Status Report template. During the meeting Carollo discussed items that would be included in the Project Monthly Status Report, which included:

- Summary of total project costs to date
- Summary of invoices received during the period
- Key cost metrics including invoiced-to-date, earned value, reimbursements from funding agencies, etc.
- Key schedule metrics including a summary of key milestones
- Status of procurement activities (e.g., award of a construction contract for the Conveyance Facilities Project)
- Other metrics including a summary of public outreach activities, etc.

The attached report covers all of the items discussed above and will be the most comprehensive report produced monthly by Carollo.

## **Summary of Project Controls Activities**

As presented at the February 19, 2019 Citizen Financial Advisory Committee meeting, Carollo has specific responsibilities for program controls including:

- Monthly tracking of the schedule and all expenditures for the Project

- Development of a Project Monthly Status Report
- Performing a detailed review of the overall Project budget quarterly
- Reviewing and developing a new baseline schedule annually
- Making a presentation to Council quarterly

In addition to these activities, Carollo has been working on a budget update to inform the larger City budgeting process for Fiscal Year 2019/20.

**ATTACHMENT**

1. March 2019 Monthly Report (Carollo)



City of Morro Bay  
Water Reclamation Facility Project

## MONTHLY REPORT MARCH 2019

DRAFT | April 2019







City of Morro Bay  
Water Reclamation Facility Project

## MONTHLY REPORT MARCH 2019

DRAFT | April 2019

This document is released for the purpose of information exchange review and planning only under the authority of  
Eric T. Casares,  
April 2019,  
State of California, PE.73351



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## Section 1

# PROGRAM OVERVIEW

### 1.1 Program Status

All components of the Water Reclamation Facility Project (Project) are currently in progress. City staff and the Program Manager (Carollo) are actively working with the design-build team and the pipeline designer to advance the design of the Water Reclamation Facility (WRF) and Conveyance Facilities, respectively. City staff and Carollo are also actively working with the hydrogeologist to better characterize the Lower Morro Groundwater Basin and identify the preferred injection location. Once the final injection location is confirmed, design of the Recycled Water Facilities (i.e., injection wells) can begin.

### 1.2 Accomplishments

Accomplishments over the last month include working with the design-build team to finalize potential change orders (PCOs) as a result of the Basis of Design Report (BODR) development. Preliminary results of the Phase 1 work being done by the hydrogeologist (GSI) have also been presented to City staff and Carollo. Preliminary results indicate that injection of purified water and extraction by the City's existing wells allows the City to benefit from its entire allocation of 851 acre-feet per year (AFY) without inducing seawater intrusion and lowering the nitrate concentration below the drinking water maximum contaminant level (MCL). Also in the last month, Carollo has been working to update the project budget. Based on previous presentations to the City Council, WRFCAC, and CFAC, the Carollo will complete an in-depth review of the project budget on a quarterly basis. The updated budget was also needed by the City's Finance Department as part of the City-wide fiscal year 2019/2020 budget development.

### 1.3 Looking Forward

Upcoming activities include bringing a list of PCOs to the WRFCAC and City Council for consideration. It is anticipated that this will occur at the first meeting in May 2019. Carollo is also planning to bring the results of the Phase 1 hydrogeology results to WRFCAC and City Council.

### 1.4 Challenges

Challenges for the Project are primarily contained to the land use permitting process. In January 2019, City staff was provided direction from City Council to pursue a consolidated permit through the California Coastal Commission (CCC). The original plan was to bring the permit to the CCC meeting in April 2019, but was then moved to May 2019. Based on input received by the CCC from the community at the March 26, 2019 City Council meeting, the permit is now on the CCC agenda in July 2019 when the meeting will be held in San Luis Obispo.

## 1.5 Performance Measures

A set of five Key Performance Indicators (KPIs) were established to readily measure the progress of the Project. These KPIs represent various success factors associated with the WRF program management and delivery that were established by Carollo and City of Morro Bay staff and are summarized as Table 1. The Project's performance is also illustrated graphically in Figure 1 and Figure 2.

Table 1 WRF Project Performance Measures

| Performance Measure                          | Data  | Target     | Current    | Delta     | Status | Ⓞ  | Ⓢ   | Ⓡ                                       |
|--|---|------------|------------|-----------|--------|--|---|---|
| <b>1: Total Project Costs</b>                | Total Program Projected Costs versus Actual Cost-to-Date (thru 3/31/19)                 | \$125.9 M  | \$124.4 M  | -1.2%     | Ⓞ      | Estimated cost >= 5% below target budget | Estimated cost within 5% of target budget | Estimated cost > 5% above target budget |
| <b>1.1: WRF Costs</b>                        | On Site WRF Projected Costs versus Actual Cost-to-Date (thru 3/31/19)                   | \$77.1 M   | \$77.9 M   | 1.0%      | Ⓞ      | Estimated cost >= 5% below target cost   | Estimated cost within 5% of target cost   | Estimated cost > 5% above target cost   |
| <b>1.2: Conveyance Facilities Costs</b>      | Conveyance Facilities Projected Costs versus Actual Cost-to-Date (thru 3/31/19)         | \$26.3 M   | \$29.4 M   | 11.8%     | Ⓡ      | Estimated cost >= 5% below target cost   | Estimated cost within 5% of target cost   | Estimated cost > 5% above target cost   |
| <b>1.3: Recycled Water Facilities Costs</b>  | Off Site Injection Facilities Projected Costs versus Actual Cost-to-Date (thru 3/31/19) | \$12.1 M   | \$5.7 M    | -52.9%    | Ⓞ      | Estimated cost >= 5% below target cost   | Estimated cost within 5% of target cost   | Estimated cost > 5% above target cost   |
| <b>1.4: General Program Management Costs</b> | Program Management Projected Costs versus Actual Cost-to-Date (thru 3/31/19)            | \$11.47 M  | \$10.2 M   | 10.9%     | Ⓡ      | Estimated cost >= 5% below target cost   | Estimated cost within 5% of target cost   | Estimated cost > 5% above target cost   |
| <b>2: Conveyance Pipeline Installed</b>      | Feet of conveyance pipeline installed (thru 3/31/19)                                    | 18,500 LF  | 0.0 LF     | 0.0%      | Ⓞ      | <= 5%                                    | > 5% and <=7.5%                           | > 7.5%                                  |
| <b>3: Compliance Date Countdown</b>          | Days Remaining to Compliance Date (as of 3/31/19)                                       | 1,795 days | 1,321 days | -474 days | Ⓞ      | <=98%                                    | > 98% and <=90%                           | > 90%                                   |



Section 2

# PROJECT COSTS

## 2.1 Project Budget

The overall budget status for the Project is summarized in Table 2. The top half of the Table provides a summary of total estimated Project costs, including original and current estimated costs for the entire Project. The bottom half of Table 2 shows the total amount of work currently under contract and provides a summary of current and total charges.

Table 2 WRF Project Overall Budget Status (thru March 2019)

| Summary of Total WRF Program Cost                            |               |
|--|---------------|
| Original Baseline WRF Project Budget <sup>(1)</sup>          | \$125,938,000 |
| Current WRF Project Budget                                   | \$124,438,000 |
| Percent Change (Current versus Original)                     | -1.2%         |
| Percent of Current WRF Project Budget Contracted             | 60.5%         |
| Percent of Current WRF Project Budget Expended               | 6.8%          |
| Percent of Current WRF Project Budget Planned to be Expended | 15.6%         |
| Summary of Contracted Work                                   |               |
| Total WRF Project Contracted Amount                          | \$75,294,895  |
| Total Expenditures to Date (thru 3/31/19 invoices)           | \$7,035,350   |
| Remaining WRF Project Contracted Amount                      | \$68,259,545  |

Notes:

(1) Developed in the spring of 2018 as the basis of the approved rate surcharge that will take effect in July 2019.

## 2.2 Project Cash Flow

Presented in Figure 1 are the projected and actual expenditures for the Project through March 2019 compared to the baseline budget developed in 2018 as the basis for the rate surcharge. The line graph shows the cumulative values for the project and the bars show the discrete monthly values. For the time period before January 2019, the bars show annual values. Because the forecasted cash flows are based on anticipated project delivery schedules, the relationship of projected cash flows to actual expenditures provides an indication of schedule status.

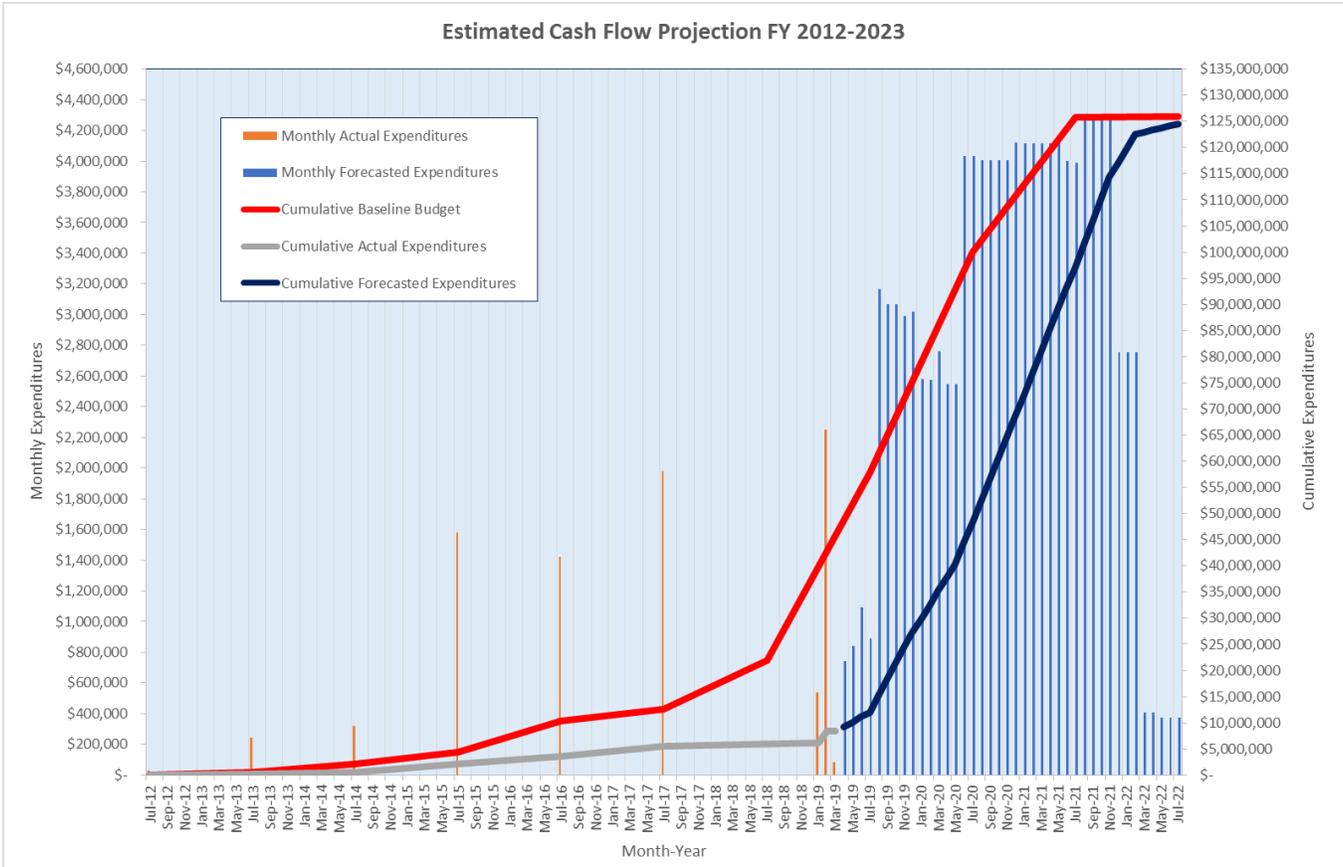


Figure 1 Program Cash Flow Projections and Actual Expenditures

Table 3 summarizes the cost-to-date and contracted amounts for each of the elements of the Project. This table also provides the current cost estimate for each project. Detailed information on the individual elements of the Project is provided in Section 7 of this Report.

## 2.3 Project Cost Summary

Table 3 WRF Project Cost Summary (through March 2019)

| Project                   | Actual Expenditures to Date | Total Contracted Cost | Contract Expended to Date (%) | Total Project Cost (Est.) <sup>(1)</sup> | Cost Expended to Date (%) |
|---------------------------|-----------------------------|-----------------------|-------------------------------|--|---------------------------|
| General Program           | \$6,041,480                 | \$6,190,871           | \$4,522,488                   | \$11,471,480                             | 52.7%                     |
| WRF                       | \$1,654,952                 | \$67,234,512          | \$1,654,952                   | \$77,858,063                             | 2.1%                      |
| Conveyance Facilities     | \$549,733                   | \$1,360,564           | \$549,733                     | \$29,457,010                             | 1.9%                      |
| Recycled Water Facilities | \$205,677                   | \$508,947.00          | \$150,287                     | \$5,665,677                              | 3.6%                      |
| <b>Total</b>              | <b>\$8,451,843</b>          | <b>\$75,294,894</b>   | <b>\$7,035,349</b>            | <b>\$124,452,231</b>                     | <b>6.8%</b>               |

Notes:

(1) Cost includes the total anticipated cost for each element of the Project.

## 2.4 Detailed Project Costs

The following tables show the detailed costs to date for active contracts for each element of the Project.

Table 4 General Project Activities Cost Summary (through March 2019)

| Consultant / Contractor | Actual Expenditures to Date | Total Contracted Cost | Contract Expended to Date (%) | Total Project Cost (Est.) <sup>(1)</sup> | Cost Expended to Date (%) |
|-------------------------|-----------------------------|-----------------------|-------------------------------|--|---------------------------|
| ESA                     | \$349,999                   | \$376,604             | 92.9%                         | \$396,604                                | 88.2%                     |
| Far Western             | \$84,385                    | \$124,644             | 67.7%                         | \$124,644                                | 67.7%                     |
| Kestrel                 | \$171,350                   | \$219,872             | 77.9%                         | \$319,872                                | 53.6%                     |
| Carollo Engineers, Inc. | \$614,031                   | \$1,898,844           | 32.3%                         | \$5,298,844                              | 11.6%                     |
| JSP Automation          | \$21,778                    | \$63,500              | 34.3%                         | \$163,500                                | 13.3%                     |
| <b>Total</b>            | <b>\$1,241,541</b>          | <b>\$2,683,464</b>    | <b>46.3%</b>                  | <b>\$6,303,464</b>                       | <b>19.7%</b>              |

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

Table 5 WRF Cost Summary (through March 2019)

| Consultant / Contractor | Actual Expenditures to Date | Total Contracted Cost | Contract Expended to Date (%) | Total Project Cost (Est.) <sup>(1)</sup> | Cost Expended to Date (%) |
|-------------------------|-----------------------------|-----------------------|-------------------------------|--|---------------------------|
| Overland Contracting    | \$1,654,952                 | \$67,234,512          | 2.5%                          | \$69,734,512                             | 2.4%                      |
| <b>Total</b>            | <b>\$1,654,952</b>          | <b>\$67,234,512</b>   | <b>2.5%</b>                   | <b>\$69,734,512</b>                      | <b>2.4%</b>               |

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

Table 6 Conveyance Facilities Cost Summary (through March 2019)

| Consultant / Contractor     | Actual Expenditures to Date | Total Contracted Cost | Contract Expended to Date (%) | Total Project Cost (Est.)(1) | Cost Expended to Date (%) |
|-----------------------------|-----------------------------|-----------------------|-------------------------------|------------------------------|---------------------------|
| Water Works Engineers (WWE) | \$549,733                   | \$1,360,565           | 40.4%                         | \$1,610,565                  | 34.1%                     |
| <b>Total</b>                | <b>\$549,733</b>            | <b>\$1,360,565</b>    | <b>40.4%</b>                  | <b>\$1,610,565</b>           | <b>34.1%</b>              |

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

Table 7 Recycled Water Facilities Cost Summary (through March 2019)

| Consultant / Contractor | Actual Expenditures to Date | Total Contracted Cost | Contract Expended to Date (%) | Total Project Cost (Est.)(1) | Cost Expended to Date (%) / Percent Complete |
|-------------------------|-----------------------------|-----------------------|-------------------------------|------------------------------|--|
| GSI                     | \$150,287                   | \$351,000             | 42.8%                         | \$451,000                    | 33.3%  |
| <b>Total</b>            | <b>\$150,287</b>            | <b>\$351,000</b>      | <b>42.8%</b>                  | <b>\$451,000</b>             | <b>33.3%</b>                                 |

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

## 2.5 Change Orders

No changes orders have been accepted in 2019 for any of the elements of the Project.

## 2.6 Reimbursement from Funding Agencies

No reimbursements from funding agencies have been completed in 2019.

## Section 3

# PROJECT SCHEDULE

A summary of the Project schedule is presented in Figure 2.

### 3.1 Project Construction Milestones

Presented in Table 8 are the construction milestones for each element of the Project.

Table 8 [Project Construction Milestones](#)

| Project Name              | Start of Construction |        | End of Construction |        | Permit Compliance Date |        |
|---------------------------|-----------------------|--------|---------------------|--------|------------------------|--------|
|                           | Planned               | Actual | Planned             | Actual | Planned                | Actual |
| WRF                       | August 09, 2019       |        | June 09, 2022       |        | February 28, 2023      |        |
| Conveyance Facilities     | July 21, 2021         |        | June 21, 2022       |        | NA                     | NA     |
| Recycled Water Facilities | May 11, 2020          |        | November 19, 2021   |        | NA                     | NA     |







## Section 4

# DESIGN AND PROCUREMENT

### 4.1 Design Status

No new design contracts for the Project were executed in 2019. A summary of the existing design contracts is included in Table 9 below.

Table 9 Procurement Status (through March 2019)

| Project Name              | Initial Contract Amount | Amount Expended | 30% | 60% | 90% | Final |
|---------------------------|-------------------------|-----------------|-----|-----|-----|-------|
| WRF                       | \$4,821,229             | \$1,654,952     | ✓   |     |     |       |
| Conveyance Facilities     | \$1,170,894             | \$549,733       | ✓   |     |     |       |
| Recycled Water Facilities | \$0                     | \$0             |     |     |     |       |

### 4.2 Procurement

No procurements were performed during 2019. Table 5 presents a summary of the procurement activity for the Project.

Table 10 Procurement Status (through March 2019)

| Project Name              | Bid Advertisement Date                | Bid Opening Date | Council Award Date | Notice to Proceed Date | Consultant                                   |
|---------------------------|---------------------------------------|------------------|--------------------|------------------------|--|
| WRF                       | January 24, 2018                      | May 08, 2018     | October 23, 2018   | November 01, 2018      | Overland Contracting (Filanc-Black & Veatch) |
| Conveyance Facilities     | January 24, 2018                      | May 08, 2018     | October 23, 2018   | November 01, 2018      | Water Works Engineers                        |
| Recycled Water Facilities | Project element to be bid in May 2021 |                  |                    |                        |  |



## Section 5

# CONSTRUCTION STATUS

### 5.1 Construction Summary

During 2019 construction started for one projects. Table 11 presents a summary of project construction progress and costs through 2019.

Table 11 Project Construction Costs

| Project Name              | Amount Expended | Initial Contract Amount | Current Contract Amount | % Change in Contract Amount |
|---------------------------|-----------------|-------------------------|-------------------------|-----------------------------|
| WRF                       | \$0             | \$62,413,335            | \$62,413,335            | 0%                          |
| Conveyance Facilities     | \$0             | \$0                     | \$0                     | 0%                          |
| Recycled Water Facilities | \$0             | \$0                     | \$0                     | 0%                          |
| <b>Construction Total</b> | <b>\$0</b>      | <b>\$62,413,335</b>     | <b>\$62,413,335</b>     | <b>0%</b>                   |

### 5.2 Upcoming Traffic Control

#### 5.2.1 Planned Impacted Areas

#### 5.2.2 Hours of Planned Lane/Road Closures

### 5.3 Construction Safety

The Project safety goal is zero reportable incidents. There have been a total of zero reported incidents in 2019.



## Section 6

# OTHER PROGRAM ACTIVITIES

### 6.1 Public Outreach

Current public outreach activities include:

- Development of the Draft Communications Plan.
- Continued re-branding activities.
- Planning for mailings/bill inserts prior to the rate increases taking affect.

### 6.2 Permitting Activities

Permit compliance is an important aspect of the Project. The current permitting activities include:

- Consultation with the State Historic Preservation Office (SHPO) is needed for compliance with the National Environmental Policy Act (NEPA) required to secure EPA WIFIA financing.
  - Additional architectural and archeological within the area of potential effect (APE) are currently being planned.
- In order to capture changes to the project identified since the certification of the Final Environmental Impacts Report (FEIR), ESA is currently completing an addendum to the FEIR.
- While initially planned to occur in April 2019, the coastal development permit (CDP) for the Project will be on the July 2019 CCC meeting in San Luis Obispo.

### 6.3 Funding Status

- Coordination with EPA WIFIA staff to facilitate the environmental review and finalize loan terms.
- Worked with Kestrel to develop responses to comments from the United States Bureau of Reclamation (USBR) Title XVI Grant Program staff on the City draft crosswalk document delivered in early 2018.
- Delivered the Final Recycled Water Final Water Reclamation Facility Plan (previously the Draft Master Reclamation Plan)
  - Delivery of the final document will allow the City to be reimbursed the second half of the \$75,000 planning grant.

### 6.4 City Operations Activity

The current City Operations activities include:

- Significant City Operations activities are not anticipated until start-up of the WRF begins in June 2021.



## Section 7

# PROJECT DETAILS

### 7.1 Water Reclamation Facility

#### 7.1.1 Designer/Builder

In October 2018, the City executed a contract with Overland Contracting (a joint venture of Filanc and Black & Veatch) for design and construction of the WRF located at the South Bay Boulevard site. The project will be delivered using the design-build process.

#### 7.1.2 Project Scope

The scope of this element of the Project includes a preliminary, secondary, and advanced treatment facilities. The secondary treatment processes will consist of a membrane bioreactor (MBR) and have the ability to exceed the anticipated discharge requirements for the City's new National Pollution Discharge Elimination System (NPDES) permit. The advanced treatment facilities include reverse osmosis (RO) and ultraviolet disinfection/advanced oxidation process (UVAOP). Purified water from the advanced treatment facilities will be injected into the lower Morro Groundwater Basin.

#### 7.1.3 Current Progress

Overland Contracting (DB) delivered an internal draft of the BODR in February 2019. Since that time, Carollo and City staff has reviewed the Draft BODR and the DB is currently updating the Draft BODR for release to the WRFCAC and City Council. It is anticipated that the Draft BODR will be available in early May 2019. In addition to the Draft BODR review, City staff and Carollo have been identifying, costing, and negotiating PCOs for the existing DB agreement. These will also be presented to the WRFCAC and City Council in May 2019.

#### 7.1.4 Upcoming Activities

As stated previously, the next step in the DB process is the acceptance of the PCOs and modifications to the DB's scope and resulting agreement. These changes will all need to be approved by City Council in May 2019. In addition to the PCOs, the DB is continuing to advance the design and is planning to deliver the 60 Percent Submittal in August 2019.

#### 7.1.5 Project Challenges

The goal is to move this element into construction as soon as possible. At this time, two items are on the critical path for WRF construction. These include issuance of a coastal development permit by the CCC and completion of the SHPO consultation process (leading to a signed WIFIA loan agreement).

Table 12 WRF Performance Measures

| Performance Measures             | Target  | Current | Status  |
|----------------------------------|---------|---------|---|
| Construction Cost <sup>(1)</sup> | \$62.9M | \$65.4M |  |
| Change Order Cost                | \$6.2M  | \$2.5M  |  |

Notes:

(1) Project budget and current contract amount (≤5% over target = Yellow, >5% over target = Red).

Table 13 WRF Construction Summary

| Schedule  |                  |            |      |     |       |
|---|------------------|------------|------|-----|-------|
| Request for Bid / Bid Advertisement                       | January 24, 2018 |            |      |     |       |
| Bid Opening Date  | May 08, 2018     |            |      |     |       |
| Contract Award / Council Award Date                       | October 23, 2018 |            |      |     |       |
| Notice to Proceed for Construction                        | NA               |            |      |     |       |
| Original Final Completion Date                            | June 09, 2022    |            |      |     |       |
| Original Duration (Non-Working Days)                      | 1,316            |            |      |     |       |
| Days Changed by Change Order                              | 0                |            |      |     |       |
| Actual Final Completion Date (including Non-Working Days) | June 09, 2022    |            |      |     |       |
| Schedule Percent Complete                                 | 11%              |            |      |     |       |
| Budget  |                  |            |      |     |       |
| Engineer's Estimate                                       | \$69,213,000     |            |      |     |       |
| Award Amount  | \$62,413,335     |            |      |     |       |
| Change Order Total  | \$0              |            |      |     |       |
| Current Contract Value                                    | \$62,413,335     |            |      |     |       |
| Percent Change  | 0%               |            |      |     |       |
| Actual Cost -to-Date                                      | \$0              |            |      |     |       |
| Percent Complete (Percent Expended)                       | 0%               |            |      |     |       |
| Construction Management Statistics                        |                  |            |      |     |       |
|   | RFIs             | Submittals | PCOs | COs | NOPCs |
| Total Received  | 0                | 0          | 19   | 0   | 0     |
| Total Responded To  | 0                | 0          | 17   | 0   | 0     |
| Total Pending   | 0                | 0          | 2    | 0   | 0     |
| Average Turnaround (calendar days)                        | 0                | 0          | N/A  | N/A | N/A   |

Acronym List:

(1) RFI – Request for Information PCO – Proposed Change Order

(2) CO – Change Order NOPC - Notice of Potential Claim

## 7.2 Conveyance Facilities

### 7.2.1 Designer

In November 2017, the City executed a contract with Water Works Engineers for design and engineering support for the facilities necessary to connect the existing WWTP and the new WRF.

**7.2.2 Contractor**

This element of the Project is being delivered via a conventional design-bid-build procurement process. The Conveyance Facilities are currently under design and will begin construction in the spring of 2020.

**7.2.3 Project Scope**

The Conveyance Facilities originally included the design of approximately 3.5 miles of pipelines and a lift station located near the existing WWTP. The pipelines include two raw wastewater forcemains and a wet weather/brine discharge forcemain. Several changes to the Conveyance Facilities have occurred since the contract was executed with WWE including the addition of a second, smaller lift station near the intersection of Main Street and Highway 1 and the addition of the potable reuse forcemain to either the east or west injection site.

**7.2.4 Current Progress**

WWE, City staff, and Carollo presented the preferred lift station orientation (dual) and the recommended pipeline alignment (west of Highway 1 along Quintana Road) to WRFCAC and the City Council in December 2018 and January 2019, respectively. An internal draft of the BODR was also delivered to staff in February 2019. WWE, City staff, and Carollo are still in the process of updating the internal draft before the Draft BODR is presented to WRFCAC and City Council. While the actual Draft BODR has not yet been made available, all of the cost and technical information has been presented several times in WRFCAC and City Council meetings. WWE has started the development of the 60 Percent Design Submittal at this time.

**7.2.5 Upcoming Activities**

WWE has been working to complete the field work necessary to complete the 60 Percent Design Submittal over the last several months. These activities include surveying and geotechnical investigations. These activities must be completed before the 60 Percent Design Submittal can be completed.

**7.2.6 Project Challenges**

Access to private property has caused delays in this element of the property. In order to advance the design of the Conveyance Facilities, access to PG&E and Vistra property is required. Access to these properties has proven time consuming and challenging.

Table 14 Conveyance Facilities Performance Measures

| Performance Measures                    | Target    | Current | Status  |
|---|-----------|---------|---|
| Construction Cost <sup>(1)</sup>        | \$23.5M   | \$0M    |  |
| Change Order Cost                       | \$2.4M    | \$0M    |  |
| Number of Feet of Pipelines Constructed | 18,500 LF | 0 LF    |  |
| Number of Days of Full Road Closures    | 0 Days    | 0 Days  |  |
| Number of Hours of Night Work           | 0 Hours   | 0 Hours |  |

Notes:

(1) Project budget and current contract amount - (<=5% over target = Yellow, >5% over target = Red)

Table 15 Conveyance Facilities Summary

| Schedule  |                  |
|---|------------------|
| Request for Bid / Bid Advertisement                       | NA               |
| Bid Opening Date  | NA               |
| Contract Award / Council Award Date                       | NA               |
| Notice to Proceed for Construction                        | NA               |
| Original Final Completion Date                            | NA               |
| Original Duration (Non-Working Days)                      | NA               |
| Days Changed by Change Order                              | 0                |
| Actual Final Completion Date (including Non-Working Days) | NA               |
| Schedule Percent Complete                                 | 0%               |
| Budget  |                  |
| Engineer's Estimate                                       | \$25,827,000     |
| Award Amount  | \$0              |
| Change Order Total  | \$0              |
| Current Contract Value                                    | \$0              |
| Percent Change  | 0%               |
| Work Completed  |                  |
| Actual Cost -to-Date                                      | \$0              |
| Percent Complete (Percent Expended)                       | 0%               |
| Length of Pipe Installed (actual to date / planned total) | 0 LF / 18,500 LF |

|                                    | RFIs | Submittals | PCOs | COs | NOPCs |
|------------------------------------|------|------------|------|-----|-------|
| Total Received                     | 0    | 0          | 0    | 0   | 0     |
| Total Responded To                 | 0    | 0          | 0    | 0   | 0     |
| Total Pending                      | 0    | 0          | 0    | 0   | 0     |
| Average Turnaround (calendar days) | 0    | 0          | N/A  | N/A | N/A   |

Notes:

Acronym List:

- (1) RFI – Request for Information
- (2) PCO – Proposed Change Order
- (3) CO – Change Order
- (4) NOPC – Notice of Potential Claim

### 7.3 Recycled Water Facilities

#### 7.3.1 Designer

Procurement activities for the designer for the Recycled Water Facilities have not yet been started, but it is anticipated that design will begin in early 2020 following completion of the Phase 1, Phase 2, and Phase 3 hydrogeological work by GSI.

### 7.3.2 Contractor

This element of the Project is being delivered via a conventional design-bid-build procurement process. The Recycled Water Facilities are currently under design and will begin construction in the spring of 2020.

### 7.3.3 Project Scope

Since the potable reuse pipeline from the WRF to the selected injection site was moved into WWE's scope for design of the Conveyance Facilities, this element of the Project consists primarily of full-scale injection wells at either the west or east injection sites.

### 7.3.4 Current Progress

Phase 1 of GSI's hydrogeological work is nearly complete and will be presented to WRFCAC and City Council in May 2019.

### 7.3.5 Upcoming Activities

GSI is currently working on Phase 2 and City staff and Carollo are working to provide access to the Vistra property to facilitate siting of the pilot injection wells. In addition, GSI is also working to complete the cone penetration tests (CPTs) at Silver City RV Park in order to characterize the east injection location.

### 7.3.6 Project Challenges

As mentioned previously, access challenges for the Vistra property are also preventing the Recycled Water Facilities from advancing in to Phase 2.

Table 16 Recycled Water Facilities Performance Measures

| Performance Measures            | Target           | Current | Status  |
|---------------------------------|------------------|---------|---|
| Construction Cost (1)           | \$3.2M           | \$0M    |  |
| Change Order Cost               | \$0.3M           | \$0M    |  |
| Selection of the Injection Site | October 15, 2019 | NA      |  |

Notes:

(1) Project budget and current contract amount - ( $\leq 5\%$  over target = Yellow,  $> 5\%$  over target = Red)

Table 17 Recycled Water Facilities Summary

| Schedule  |   |            |      |     |       |
|---|---|------------|------|-----|-------|
| Request for Proposals                                     | NA  |            |      |     |       |
| Proposal Due Date   | NA  |            |      |     |       |
| Contract Award Date                                       | NA  |            |      |     |       |
| Notice to Proceed for Design                              | NA  |            |      |     |       |
| Design Milestones – 30/60/90/Final                        | 30 - NA<br>60 - NA<br>90 - NA<br>Final - NA |            |      |     |       |
| Request for Bid / Bid Advertisement                       | NA  |            |      |     |       |
| Bid Opening Date  | NA  |            |      |     |       |
| Contract Award / Council Award Date                       | NA  |            |      |     |       |
| Notice to Proceed for Construction                        | NA  |            |      |     |       |
| Original Final Completion Date                            | NA  |            |      |     |       |
| Original Duration (Non-Working Days)                      | NA  |            |      |     |       |
| Days Changed by Change Order                              | 0   |            |      |     |       |
| Actual Final Completion Date (including Non-Working Days) | NA  |            |      |     |       |
| Schedule Percent Complete                                 | 0%  |            |      |     |       |
| Request for Bid / Bid Advertisement                       | NA  |            |      |     |       |
| Bid Opening Date  | NA  |            |      |     |       |
| Budget  |   |            |      |     |       |
| Engineer's Estimate                                       | \$3,500,000                                 |            |      |     |       |
| Award Amount  | \$0   |            |      |     |       |
| Change Order Total  | \$0   |            |      |     |       |
| Current Contract Value                                    | \$0   |            |      |     |       |
| Percent Change  | 0%  |            |      |     |       |
| Work Completed  |   |            |      |     |       |
| Actual Cost -to-Date                                      | \$0   |            |      |     |       |
| Percent Complete (Percent Expended)                       | 0%  |            |      |     |       |
|   | RFIs  | Submittals | PCOs | COs | NOPCs |
| Total Received  | 0   | 0          | 0    | 0   | 0     |
| Total Responded To  | 0   | 0          | 0    | 0   | 0     |
| Total Pending   | 0   | 0          | 0    | 0   | 0     |
| Average Turnaround (calendar days)                        | 0   | 0          | N/A  | N/A | N/A   |

Notes:  
 Acronym List:  
 (1) RFI – Request for Information  
 (2) PCO – Proposed Change Order  
 (3) CO – Change Order  
 (4) NOPC - Notice of Potential Claim

# Staff Report

**TO:** Water Reclamation Facility Citizens Advisory Committee

**DATE:** April 30, 2019

**FROM:** Rob Livick, PE/PLS – Public Works Director/City Engineer  
Eric Casares, PE – Water Reclamation Facility (WRF) Program Manager

**SUBJECT:** Review of Basis of Design Report (BODR) and Potential Change Orders (PCO) for the Water Reclamation Facility

## **RECOMMENDATION**

WRFAC receive the Draft Basis of Design Report (BODR) and provide input regarding the potential change orders (PCOs) for the Water Reclamation Facility (WRF).

## **ALTERNATIVES**

A total of seventeen (17) PCOs are being proposed for modification of the current WRF scope of work.

## **FISCAL IMPACT**

The total cost for the seventeen (17) PCOs is \$1,867,907. If all PCOs are approved, the guaranteed maximum price for the WRF facility would increase from \$67,234,512 to \$69,102,419 This total cost for the PCOs is within the planned contingency for the WRF included in the \$126 million baseline budget. Acceptance of all the PCOs would not result in an increase in the WRF Project baseline budget.

## **BACKGROUND**

At the October 23, 2018 City Council meeting, a contract was awarded to the Filanc/Black & Veatch team (DB team) in the amount of \$67,234,512. The contract is structured as a guaranteed maximum price (GMP). Therefore, the DB team committed to delivering the specific project defined in the contract for a cost not to exceed \$67,234,512. The contract award was the culmination of a year-long competitive procurement that began with the advertisement of a request for qualifications (RFQ) on October 27, 2017. The scope of work (i.e., Exhibit B) included in the contract is the same as the scope of work included in the DB team's original proposal received by the City on May 08, 2018.

### *Draft Basis of Design Report*

The DB team is responsible for design of the WRF. Per the DB agreement, the design will be progressed and presented to the City over the course of the following design deliverables:

- Basis of Design Report/30 Percent Submittal
- 60 Percent Design Submittal
- 90 Percent Design Submittal

Since the agreement was executed, the DB team has been advancing the design concept that was included in their proposal. This refinement is captured in the Draft Basis of Design Report (BDR) and 30 Percent Design Submittal (attachment #1). The DB team, City staff, and Program Manager have been working closely to refine the WRF scope of work to reflect a facility that best fits the City's current and long-term operational needs. In addition to weekly status updates, the following design internal working meetings or workshops<sup>1</sup> have been held since November 2018:

| Meeting        | Date                                   | Topic(s)   |
|----------------|--|--|
| Workshop No. 1 | November 28, 2018<br>November 29, 2018 | <ul style="list-style-type: none"> <li>• Permitting</li> <li>• Process design criteria</li> <li>• Electrical design criteria</li> <li>• Instrumentation design criteria</li> </ul> |
| Workshop No. 2 | December 19, 2018                      | <ul style="list-style-type: none"> <li>• Permitting</li> <li>• Partnering</li> <li>• Process design criteria</li> <li>• Architectural review</li> </ul>                            |
| Workshop No. 3 | December 20, 2018                      | <ul style="list-style-type: none"> <li>• Coordination with Conveyance Facilities Project</li> <li>• Process design criteria</li> </ul>   |
| Workshop No. 4 | January 10, 2019                       | <ul style="list-style-type: none"> <li>• Permitting</li> <li>• Control descriptions</li> </ul>   |
| Workshop No. 5 | March 12, 2019                         | <ul style="list-style-type: none"> <li>• Permitting</li> <li>• PCO review</li> </ul>   |
| Workshop No. 6 | March 28, 2019                         | <ul style="list-style-type: none"> <li>• PCO review</li> </ul>   |

These workshops, and advancement of the design by the DB team, have resulted in the development of the Draft BODRBODR and 30 Percent Design Submittal. The objectives of these documents are:

- Clearly defining the revised project scope;
- Advancing the plant design to assure no significant changes will be needed following this submittal;
- Preparing for early earthworks by focusing on refining the site plan and facility arrangement;
- Preparing for early procurement of critical pieces of equipment; and
- Integrating design features to support early start construction efforts.

*Potential Change Orders*

As a result of advancing the design and working with City staff and the Program Manager, a number of changes to the WRF scope of work have been identified. These changes fall into three categories:

- No cost changes
- Changes resulting in an increase in the guaranteed maximum price (GMP)
- Changes resulting in a decrease in the GMP

The process for development, negotiation, and acceptance of a PCO includes the following steps:

- City staff, DB team, or Program Manager identifies suggested change to the WRF design or construction approach
- Determination is collectively made as to whether the potential change constitutes a material

<sup>1</sup> Not to be confused with “Public Workshops”, these meetings are between the Program Management Team, Staff and the DB Team for the purpose of design development.

- change in the DR team's scope of work
- If it is determined that the potential change constitutes a material change in the DB team's scope of work, then a raw order of magnitude cost (ROM) is developed
- Based on the ROM, the City makes the determination if the suggested change concept should be further developed
- If the City decides to move forward with the suggested change based on the ROM, then the Draft PCO is developed
- The Draft PCO and all supporting documentation are reviewed by the Program Manager
- City staff, Program Manager, and DB team discuss the Draft PCO and the Program Manager's comments
- The DB team develops the Final PCO for negotiation and recommendation for approval by City staff
- The Final PCO is brought to WRFCAC for review and comment
- The Final PCO is brought to City Council for final approval

Changes to the DB team's scope of work for construction of the WRF were anticipated during the development of the baseline budget of \$126 million and when the agreement was negotiated with Filanc/Black & Veatch. Specifically, the Program Manager identified a total contingency of \$6.24 million alone for the WRF facility component (the other two components include the Conveyance Facilities and the Recycled Water Facilities). Project. Acceptance of these seventeen (17) PCOs would result in a reduction of the WRF facility contingency to \$4.37 million.

At this time, the City has identified a total of seventeen (17) PCOs that include a cost impact to the WRF for consideration by WRFCAC and approval by City Council. The table below summarizes the PCOs currently being considered.

| <b>PCO No.</b> | <b>Description</b>                           | <b>Cost Impact (Increase/Decrease)</b> | <b>Final PCO Cost</b> | <b>Primary Rationale</b>   |
|----------------|--|--|-----------------------|--|
| 1              | New Sodium Hypochlorite Feed for Plant Water | Increase                               | \$78,576              | <ul style="list-style-type: none"> <li>• Operational flexibility</li> <li>• Reduce potable water usage</li> </ul>                          |
| 2              | Change Architecture of Operations Building   | Decrease                               | (\$21,623)            | <ul style="list-style-type: none"> <li>• Cost savings</li> </ul>   |
| 4              | Headworks Odor Control                       | Increase                               | \$18,423              | <ul style="list-style-type: none"> <li>• Reduce odor and corrosion potential</li> </ul>  |
| 5              | Remove Canopy and Monorail at MBR            | Increase                               | (\$185,434)           | <ul style="list-style-type: none"> <li>• Cost savings</li> </ul>   |
| 9              | Consolidate Chemical Facilities              | Increase                               | \$218,978             | <ul style="list-style-type: none"> <li>• Improve operator safety and site security</li> </ul>  |
| 10             | Modify Chemical Piping                       | Decrease                               | (\$15,856)            | <ul style="list-style-type: none"> <li>• Cost savings</li> </ul>   |
| 15             | Remove Solids Dumpster Lid                   | Increase                               | \$14,543              | <ul style="list-style-type: none"> <li>• Reduced maintenance</li> </ul>  |
| 17             | Add SAFE Equalization Tank                   | Increase                               | \$504,116             | <ul style="list-style-type: none"> <li>• Improved performance</li> <li>• Operational flexibility</li> <li>• Reduced maintenance</li> </ul> |

| PCO No.      | Description   | Cost Impact (Increase/Decrease) | Final PCO Cost     | Primary Rationale  |
|--------------|---|---------------------------------|--------------------|--|
| 18           | Instrumentation and Control Changes                                 | Increase                        | \$75,266           | <ul style="list-style-type: none"> <li>• SCADA Master Plan timing</li> </ul>                                 |
| 21           | Revise Maintenance Building Layout and Size                         | Increase                        | \$748,431          | <ul style="list-style-type: none"> <li>• Consistent with current maintenance space</li> </ul>                |
| 22           | Influent Piping and Metering  | Increase                        | \$411,766          | <ul style="list-style-type: none"> <li>• Improved operability</li> </ul>                                     |
| 23           | Install Outdoor-Rated Positive Displacement Blowers at BNR Facility | Decrease                        | (\$58,210)         | <ul style="list-style-type: none"> <li>• Cost savings</li> </ul>   |
| 24           | Remove Bypass of Coarse Screens                                     | Decrease                        | (\$37,137)         | <ul style="list-style-type: none"> <li>• Cost savings</li> </ul>   |
| 26           | SAFE Diversion Box Additions  | Increase                        | \$58,304           | <ul style="list-style-type: none"> <li>• Facilitates odor control</li> <li>• Improves maintenance</li> </ul> |
| 28           | Size Dewatering as a Building in the Future                         | Increase                        | \$30,983           | <ul style="list-style-type: none"> <li>• Operational flexibility</li> </ul>                                  |
| 31           | Stairs for the Coarse Screens and Grit Basins (total of 4)          | Increase                        | \$52,870           | <ul style="list-style-type: none"> <li>• Improved access for maintenance</li> </ul>                          |
| 38           | IPR Product Water Tank Bypass                                       | Decrease                        | (\$26,087)         | <ul style="list-style-type: none"> <li>• Cost savings</li> </ul>   |
| <b>Total</b> |   |                                 | <b>\$1,867,907</b> |  |

The above listed PCOs are detailed in the Draft BODR and will be discussed as part of the presentation that will be presented at the meeting.

**ATTACHMENT (LINKS)**

1. [Draft Basis of Design Report \(Filanc/Black & Veatch, March 2019\)](#)
2. [Draft Basis of Design Report Drawings](#)
3. [Potential Change Order Details](#)