



**AGENDA
ENGINEERING, OPERATIONS, AND
WATER RESOURCES
COMMITTEE MEETING
OF THE BOARD OF DIRECTORS
INLAND EMPIRE UTILITIES AGENCY***

**WEDNESDAY, JULY 14, 2021
10:00 A.M.**

**INLAND EMPIRE UTILITIES AGENCY*
VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 316 524 615#**

PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDERS N-25-20 AND N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM IN MARCH 2020 AND IN AN EFFORT TO PROTECT PUBLIC HEALTH AND PREVENT THE SPREAD OF COVID-19, THERE WILL BE NO PUBLIC LOCATION AVAILABLE FOR IN-PERSON ATTENDANCE.

The public may participate and provide public comment during the meeting by dialing into the number provided above. Alternatively, public comments may be emailed to the Board Secretary/Office Manager Denise Garzaro at dgarzaro@ieua.org no later than 24 hours prior to the scheduled meeting time. Comments will be read into the record during the meeting.

CALL TO ORDER

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Board Secretary/Office Manager no later than 24 hours prior to the scheduled meeting time or address the Board during the public comments section of the meeting. Comments will be limited to three minutes per speaker. Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

1. CONSENT ITEMS

A. MINUTES

Approve Minutes of the June 9, 2021 Engineering, Operations, and Water Resources Committee meeting.

2. ACTION ITEMS

A. RP-1 SOLIDS HOT WATER LOOP REPLACEMENT CHANGE ORDER

Staff recommends that the Committee/Board:

1. Approve a construction change order for the RP-1 Solids Hot Water Loop Replacement, Project No. EN20065, to Ferreira Construction Co., for the not-to-exceed amount of \$180,000 increasing the contract from \$996,000 to \$1,176,000 (approximately 18.1% increase); and
2. Authorize the General Manager to execute the change order, subject to non-substantive changes.

B. CHINO BASIN PROGRAM FEASIBILITY STUDY CONTRACT AMENDMENT

Staff recommends that the Committee/Board:

1. Approve a contract amendment with West Yost, Contract No. 4600002991, for the Chino Basin Program Feasibility Work in the amount of \$96,690, increasing the contract from \$149,950 to a not-to-exceed amount of \$246,640; and
2. Authorize the General Manager to execute the contract amendment, subject to non-substantive changes.

3. INFORMATION ITEMS

A. 4th QUARTER STRATEGIC PLANNING & RESOURCES UPDATE (POWERPOINT)

B. OPERATIONS DIVISION QUARTERLY UPDATE (POWERPOINT)

C. RP-5 SOLIDS HANDLING FACILITY FUTURE USES EVALUATION UPDATE (POWERPOINT)

D. RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)

RECEIVE AND FILE INFORMATION ITEM

**E. ENGINEERING AND CONSTRUCTION MANAGEMENT PROJECT
UPDATES (POWERPOINT)**

4. GENERAL MANAGER'S COMMENTS

5. COMMITTEE MEMBER COMMENTS

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

ADJOURN

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary/Office Manager (909-993-1736), 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

I, Denise Garzaro, Board Secretary/Office Manager of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. to the IEUA Website at www.ieua.org and outside the Agency's main office, 6075 Kimball Avenue, Building A, Chino on Thursday, July 8, 2021.



Denise Garzaro, CMC

**CONSENT
ITEM
1A**



**MINUTES
ENGINEERING, OPERATIONS, AND WATER RESOURCES
COMMITTEE MEETING
INLAND EMPIRE UTILITIES AGENCY*
AGENCY HEADQUARTERS, CHINO, CA**

**WEDNESDAY, JUNE 9, 2021
10:00 A.M.**

COMMITTEE MEMBERS PRESENT via Video/Teleconference

Michael Camacho, Chair
Marco Tule

STAFF PRESENT

Shivaji Deshmukh, General Manager
Denise Garzaro, Board Secretary/Office Manager
Wilson To, Technology Specialist II

STAFF PRESENT via Video/Teleconference

Christiana Daisy, Deputy General Manager
Kathy Besser, Executive Manager of External & Government Affairs/AGM
Randy Lee, Executive Manager of Operations/AGM
Christina Valencia, Executive Manager of Finance & Administration/AGM
Joshua Aguilar, Senior Engineer
Adham Almasri, Principal Engineer
Jerry Burke, Manager of Engineering
Andy Campbell, Groundwater Recharge Coordinator/Hydrogeologist
Javier Chagoyen-Lazaro, Manager of Finance & Accounting
Robert Delgado, Manager of Operations & Maintenance
Lucia Diaz, Deputy Manager of Maintenance
Warren Green, Manager of Contracts, Procurement & Risk Services
Don Hamlett, Acting Deputy Manager of Integrated System Services
Elizabeth Hurst, Senior Environmental Resource Planner
Jennifer Hy-Luk, Administrative Assistant II
Joel Ignacio, Senior Engineer
Sylvie Lee, Manager of Strategic Planning & Resources
Jason Marseilles, Deputy Manager of Engineering
William McDonnell, Environmental Resources Planner I
Scott Oakden, Manager of Operations & Maintenance
Cathleen Pieroni, Manager of Inter-Agency Relations
Sushmitha Reddy, Manager of Laboratories
Travis Sprague, Principal Engineer
Kenneth Tam, Deputy Manager of Strategic Planning & Resources
Teresa Velarde, Manager of Internal Audit
Ryan Ward, Assistant Engineer
Brian Wilson, Senior Engineer

OTHERS PRESENT via Video/Teleconference

Cayla Whiteside, Kennedy-Jenks

CALL TO ORDER

Committee Chair Michael Camacho called the meeting to order at 10:00 a.m. He gave the public the opportunity to comment and provided instructions for unmuting the conference line.

There were no public comments received or additions to the agenda.

1A – 1D. CONSENT ITEMS

The Committee:

- ◆ Approved Minutes of the May 12, 2021 Engineering, Operations, and Water Resources Committee meeting.
 - ◆ Recommended that the Board:
 1. Adopt the Addendum to the Facilities Master Plan Program Environmental Impact Report (SCH No. 2016061064) as the appropriate CEQA environmental determination for the CCWRF Facility Asset Management and Improvement, Project No. EN17006; and
 2. Authorize the certification of the Addendum documentation to be signed by the General Manager;
 - ◆ and
 1. Ratify a construction change order for the RP-1 Mechanical Restoration and Improvements, Project No. EN17082, to Kiewit Infrastructure West Co., for the not-to-exceed amount of \$121,869.34, increasing the contract from \$6,783,342.15 to \$6,905,211.49 (approximately 1.8% increase); and
 2. Authorize the General Manager to execute the change order, subject to non-substantive changes;
 - ◆ and
 1. Approve Contract No. 4600003606 to Jeremy Harris Construction, Inc, for the 8th Street Basin Earthwork and Infiltration Restoration Services for a not-to-exceed amount of \$117,708; and
 2. Authorize the General Manager to execute the contract;
- as Consent Calendar items on the June 16, 2021 Board meeting agenda.

2A – 2D. ACTION ITEMS

The Committee:

- ◆ Recommended that the Board:
 1. Approve the budget augmentation for RW15003.00 from \$19,150,000 to \$24,004,424;

2. Approve the amendment to IEUA and CBWM's Cost Sharing Agreement, Task Order No. 9, with Project No. RW15003.06;
3. Approve the contract amendment for engineering support services during construction of Project No. RW15003.06 to Carollo Engineers, Inc., for an amount of \$397,977, increasing the contracts not-to-exceed amount to \$3,158,230 (a 23% increase);
4. Award the construction contract for the Project No. RW15003.06 to MNR Construction, Inc. in the amount of \$15,480,880; and
5. Authorize the General Manager to execute the contracts, subject to non-substantive changes;

◆ and

1. Approve a construction change order for the RP-4 Process Improvements, Project No. EN17110, to W.M. Lyles Co., for the not-to-exceed amount of \$2,627,436, increasing the contract from \$10,553,000 to \$13,180,436 (approximately 24.9% increase);
2. Approve a budget transfer from the RP-4 Primary Clarifier Rehabilitation, Project EN17043, to the RP-4 Process Improvements, Project EN17110, in the amount of \$2,500,000; and
3. Authorize the General Manager to execute the change order and budget transfer, subject to non-substantive changes;

◆ and adopt Resolution No. 2021-6-9, committing an additional 0.3 MGD of Pipeline and 0.3 MGD of Treatment and Disposal Capacity to the Inland Empire Brine Line Lease Capacity Pool;

◆ and

1. Approve the Inland Empire Brine Line Utilization Program Agreement between IEUA, EMWD, SBVMWD, WMWD, and SAWPA; and
2. Authorize the General Manager to execute the Agreement, subject to non-substantive changes;

as Consent Calendar items on the June 16, 2021 Board meeting agenda.

3A – 3F. INFORMATION ITEMS

The following information items were presented or received and filed by the Committee:

- ◆ 2021 Sewer System Management Plan Audit Report Update
- ◆ Recycled Water Ground Water Recharge Update
- ◆ 2020 Urban Water Management Plan, 2020 Water Shortage Contingency Plan, and 2015 Urban Water Management Plan Addendum
- ◆ Annual Report of the Prado Basin Habitat Sustainability Committee

- ◆ RP-5 Expansion Project Update: June 2021
- ◆ Engineering and Construction Management Project Updates

4. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that on June 15, California is slated to fully reopen its economy if the vaccine supply is sufficient for California residents who wish to be inoculated and if hospitalization rates are stable and low. On June 2, the Governor's office shared that the Executive Order, that has allowed local government agencies Brown Act flexibility to conduct public meetings virtually, will not terminate on June 15 and all local government agencies and Boards can continue to conduct virtual public meetings as needed. The administration has also noted that they will work with cities and other local government stakeholders to provide appropriate notice about the Executive Order's eventual discontinuation, allowing public agencies to adequately prepare and meet Brown Act requirements. Staff will continue to communicate any changes in requirements in the coming months. In regards, to bringing staff back to the office, the Agency is planning on a two-step approach within the next few months.

General Manager Deshmukh gave an update on the steps staff is taking to comply with redistricting requirements. Every 10 years based on census data; a governmental body that uses district elections is required to adjust voting area boundaries. Special districts with a November 8, 2022 election must adopt the new district map no later than 205 days before the election, or April 17, 2022. The California Fair Maps Act of 2019 means there is a different process than 10 years ago when redistricting was done internally. Requirements now include specific outreach, the number of public hearings that must be conducted, and how a Board adopts the new map. Staff is in the process of meeting with consultants who could assist with this process and will be bringing an item to the Board in the future.

General Manager Deshmukh announced that Adel Hagekhalil was selected as MWD's new General Manager at the June 8 Board meeting. Mr. Hagekhalil is a Board-Certified Environmental Engineer who has worked for 32 years in water, environmental and infrastructure management as an executive with Los Angeles' sanitation department and then with its street services department, where he is credited with turning around a troubled culture.

At its meeting on June 7, 2021 MWD's Water Planning & Stewardship Committee MWD staff member Brandon Goshi outlined IEUA's Chino Basin Program and MWD's support to date. He noted how the CBP would improve regional reliability and system flexibility in Metropolitan's service area, MWD highlighted how the new distribution infrastructure would provide an option for developing additional supplies in an otherwise SWP-exclusive area of Metropolitan's system, providing MWD increased operational flexibility that could benefit Metropolitan and its member agencies during shutdowns. A copy of MWD's support letter was provided to the Board.

Also, MWD Board unanimously approved grant funding of \$987,485 for an infrastructure improvement project for the design and construction of upgrades to the existing Montclair Basin (Basin) located in the city of Montclair. The Project is designed to potentially increase the diversion and volume for groundwater recharge of stormwater, dry weather runoff and imported water into the Chino Groundwater Basin by a total of 152 AFY. The funding is made available via MWD's Stormwater for Recharge Pilot Program, which requires that grant recipients quantify stormwater capture and its relationship to water supply yield to contribute towards Metropolitan's evaluation and understanding of the potential water supply benefits delivered by stormwater capture projects throughout the service area.

5. COMMITTEE MEMBER COMMENTS

There were no Committee member comments.

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

There were no Committee member requests for future agenda items.

ADJOURNMENT

With no further business, Committee Chair Camacho adjourned the meeting at 11:01 a.m.

Respectfully submitted,

Denise Garzaro
Board Secretary/Office Manager

*A Municipal Water District

APPROVED: JULY 14, 2021

ACTION
ITEM
2A

Date: July 21, 2021

To: The Honorable Board of Directors

ADD
From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

07/14/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: RP-1 Solids Hot Water Loop Replacement Change Order

Executive Summary:

On October 21, 2020, Inland Empire Utilities Agency (IEUA) awarded a \$996,000 construction contract to Ferreira Construction Company for the RP-1 Solids Hot Water Loop Replacement Project. The scope included replacing 720 feet of hot water loop pipeline that has reached the end of its useful life. The loop supplies the Regional Water Recycling Plant No. 1 (RP-1) digester tanks with heat and maintains the needed temperature for the anaerobic digestion process. During construction, staff requested the contractor to provide cost to replace an additional 100 feet of pipe to complete the replacement of the entire underground hot water system. This scope was not included in the original contract since there had been no prior emergencies in this area. Staff believes this portion of the loop to be in similar condition and that replacing the additional 100 feet will prevent future emergencies and provide a more reliable system. The contractor has submitted a cost of \$180,000 to complete the work, which also accounts for unknown utilities.

Staff found the cost to be fair and reasonable; therefore, recommends approval of the change order with Ferreira Construction Co., in the not-to-exceed amount of \$180,000, to be tracked on time-and-material, increasing the contract from \$996,000 to \$1,176,000 (approximately 18.1% increase).

Staff's Recommendation:

1. Approve a construction change order for the RP-1 Solids Hot Water Loop Replacement, Project No. EN20065, to Ferreira Construction Co., for the not-to-exceed amount of \$180,000 increasing the contract from \$996,000 to \$1,176,000 (approximately 18.1% increase); and
2. Authorize the General Manager to execute the change order, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N):* Y *Amendment (Y/N):* N *Amount for Requested Approval:*

Account/Project Name:

EN20065/RP-1 Solids Hot Water Loop Replacement

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

On October 21, 2020, the Board of Directors awarded a Construction Contract to Ferreira Construction Company for the RP-1 Solids Hot Water Loop Replacement Project for \$996,000 and approved a budget transfer from the future Solids Hot Water Loop Valve Replacement, Project EN21040 to the RP-1 Hot Water Loop and Replacement, Project No. EN20065, in the amount of \$560,000 and advanced the 21/22 Fiscal Year budget for the RP-1 Hot Water Loop and Valves Replacement to the 20/21 Fiscal Year in the amount of \$250,000.

Environmental Determination:

Categorical Exemption

CEQA identifies certain categories of projects as exempt from more detailed environmental review because these categories have been deemed to have no potential for significant impact on the environment. This project qualifies for a Categorical Exemption Class 1 as defined in Section 15301(b) of the State CEQA Guidelines.

Business Goal:

The RP-1 Solids Hot Water Loop Replacement Project is consistent with IEUA's Business Goal of Wastewater Management specifically the Asset Management objective that IEUA will ensure the treatment facilities are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use.

Attachments:

Attachment 1 - PowerPoint

Attachment 1

RP-1 Solids Hot Water Loop Replacement

Construction Change Order

Project EN20065

James Spears, P.E.
Senior Engineer
July 2021

Project Location: Regional Plant 1



The Project

- RP-1 Solids Hot Water Loop Replacement Project
 - Construction Contract Award in October 2020 to Ferreira Construction Co.
- Replacement of 720 Lineal Feet of Pipeline
 - 360 lineal feet for the supply line and 360 lineal feet of the return line
 - Replacement of 15 valves and addition of 11 new valves to improve operations



Removed Corroded Line



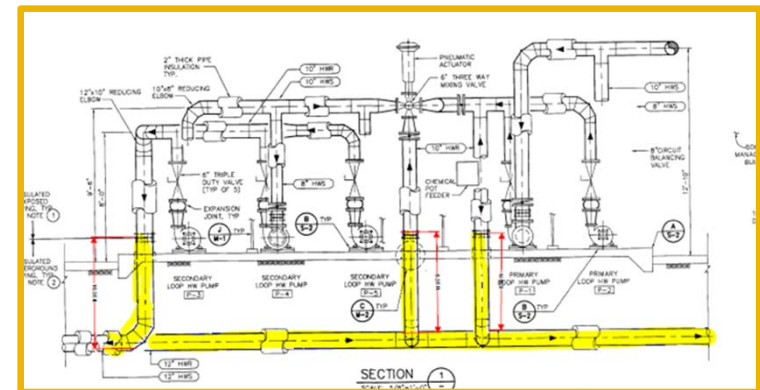
New Hot Water Loop Pipeline

The Problem/Opportunity

- Hot Water Loop Issues:
 - Three emergency projects in the last two years
 - Corrosion occurring in multiple locations
- Opportunity
 - Replace remaining 100 lineal feet of pipeline
 - Likely to fail based on corrosion found downstream
 - Replaces entire underground section
 - Avoids future emergencies and shutdowns
 - Insures a more reliable system



Corrosion on Pipeline



Additional 100 lineal feet to be replaced

Project Budget

| Description | Estimated Cost |
|--|--------------------|
| Design Services | \$49,626 |
| Design Consultant Contract | \$25,000 |
| IEUA Design Services (actuals) | \$24,626 |
| Construction Services | \$125,000 |
| Engineering Services During Construction | \$25,000 |
| IEUA Construction Services | \$100,000 |
| Construction | \$1,303,768 |
| Construction Contract (EN20065) | \$996,000 |
| Contingency (~10%) | \$100,000 |
| Change Order (this action) | \$180,000 |
| Total Change Orders (including this action item) | \$207,768 |
| Total Project Cost: | \$1,478,394 |
| Total Project Budget: | \$1,560,000 |

| Project Milestone | Date |
|-----------------------------|--------------|
| Construction | |
| Construction Contract Award | October 2020 |
| Original Completion | July 2021 |
| New Construction Completion | August 2021 |

Recommendation

- Approve a construction change order for the RP-1 Solids Hot Water Loop Replacement, Project No. EN20065, to Ferreira Construction Co., for the not-to-exceed amount of \$180,000 increasing the contract from \$996,000 to \$1,176,000 (approximately 18.1% increase); and
- Authorize the General Manager to execute the change order, subject to non-substantive changes.

The RP-1 Solids Hot Water Loop Replacement is consistent with **IEUA's Business Goal of Wastewater Management and Water Reliability**, that IEUA is committed to providing a reliable and cost-effective water supply, promoting sustainable water use throughout the region, and is committed to meeting regional demands in an environmentally responsible and cost-effective manner.

ACTION
ITEM
2B

Date: July 21, 2021

To: The Honorable Board of Directors

SD
From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

07/14/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: Chino Basin Program Feasibility Study Contract Amendment

Executive Summary:

In May 2020, the IEUA Board of Directors authorized a sole source contract with Wildermuth Environmental Inc. (WEI) to model the feasibility of the Chino Basin Program's (CBP) storage and recovery program and assess the basin response such as net recharge and pumping sustainability using the Chino Basin Watermaster 2020 Chino Valley Model. In January 2021, WEI was acquired by West Yost & Associates (West Yost) and the evaluation was completed. Since then, modified alternatives are being evaluated in coordination with the California Water Commission, California Fish and Wildlife, Metropolitan Water District of Southern California, and the local stakeholders. The modified alternatives will require additional groundwater modeling to evaluate the potential impacts to the Chino Basin using the 2021 Local Storage Limitation Solution model.

In June 2021, West Yost submitted a proposal for the evaluation and reporting of the model results which will be used in the feasibility study and environmental documentation for the CBP. This effort will require a contract amendment in the amount of \$96,690, a 64% increase from \$149,950 to \$246,640. This effort is part of the CBP feasibility study cost and will be reimbursed by the California Water Commission's Early Funding.

Staff's Recommendation:

1. Approve a contract amendment with West Yost, Contract No. 4600002991, for the Chino Basin Program Feasibility Work in the amount of \$96,690, increasing the contract from \$149,950 to a not-to-exceed amount of \$246,640; and
2. Authorize the General Manager to execute the contract amendment, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y* *Amendment (Y/N): Y* *Amount for Requested Approval:*

Account/Project Name:

PL19005 - Chino Basin Program

Fiscal Impact (explain if not budgeted):

No impact. There is sufficient budget in PL19005 for the contract amendment.

Prior Board Action:

In May 2020, the IEUA Board of Directors authorized the General Manager to enter into a sole source contract with WEI for the Chino Basin Program Feasibility Work.

Environmental Determination:

Not Applicable

Business Goal:

The Chino Basin Program Feasibility Work contract amendment is consistent with IEUA's Business Goal of Water Reliability by implementing an integrated water resources management plan that provides the region with reliable and cost-effective water supply and promotes sustainable water use.

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Attachments:

Attachment 1 - Powerpoint presentation

Attachment 2 - West Yost proposal

Attachment 3 - West Yost contract amendment

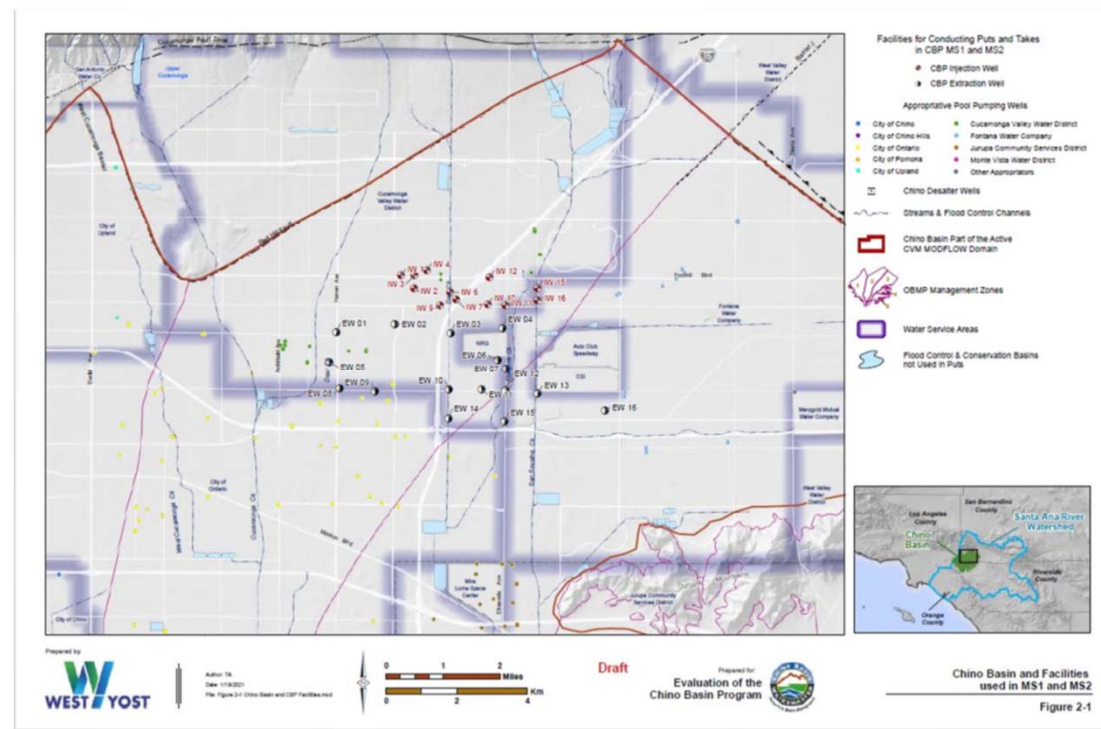


Chino Basin Program Feasibility Study Contract Amendment

Liza Muñoz, PE
Senior Engineer
July 21, 2021

Background

- West Yost began investigation of the Chino Basin Program [CBP] storage and recovery program feasibility in May 2020
- Component of the CBP planning and evaluation phase*:
 - Evaluated the siting of the Chino Basin Program injection and extraction wells
 - Modeled operational scenarios to assess basin response using the 2020 Chino Valley Model
- Reported on model results and impacts to the Chino Basin in January 2021

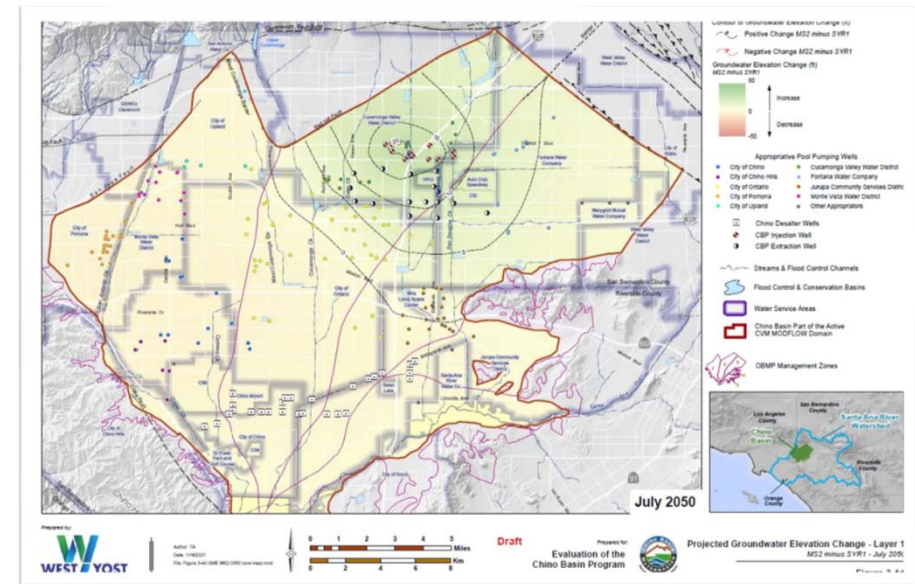


* Feasibility study costs will be reimbursed by the CA Water Commission.

Contract Amendment

Scope of Work

- Model the refined CBP operational scenarios using the 2021 Local Storage Limitation Solution scenario
- Evaluate the refined CBP operational scenarios throughout the 25-year period to assess the basin response
- Report on model results and impacts to the Chino Basin
 - To be used in the CBP Feasibility Study and environmental documentation



| Task | Completion |
|----------------------------------|----------------|
| Chino Basin Groundwater Modeling | August 2021 |
| Feasibility Study Report | September 2021 |
| Environmental Impact Report | October 2021 |

Recommendation

- Approve a contract amendment with West Yost, Contract No. 4600002991, for the Chino Basin Program Feasibility Work in the amount of \$96,690, increasing the contract from \$149,950 to a revised not-to-exceed amount of \$246,640; and
- Authorize the General Manager to execute the contract amendment, subject to non-substantive changes.

The contract amendment is consistent with IEUA's business goal of Water Reliability by implementing an integrated water resources management plan that provides the region with reliable and cost-effective water supply and promotes sustainable water use.



23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

June 24, 2021

Project No.: 945-80-20-01

SENT VIA: EMAIL

Liza Muñoz, PE, QSD
Senior Engineer
Inland Empire Utilities Agency
Chino, CA 91708

SUBJECT: Scope and Budget Proposal for Follow-on Modeling to Support the Water Storage Investment Program

Dear Ms. Muñoz:

This letter proposal is in response to a request by the Inland Empire Utilities Agency (IEUA) to conduct additional modeling to investigate the feasibility of a Storage and Recovery Program in the Chino Basin called the Water Storage Investment Program (WSIP). West Yost was retained by IEUA in 2020 to use the Chino Basin Watermaster's (Watermaster) 2020 Chino Valley Model¹ (CVM) to evaluate the potential impact of various WSIP project alternatives. These initial evaluations are documented in a draft report that was published in January 2021. Since the initial draft report, the following conditions have changed: the baseline condition must now be updated to reflect the Local Storage Limitation Solution scenario (WY, 2021); four (4) new project alternatives are to be evaluated; and the model evaluations of the project alternatives must be tailored to support future documentation for the California Environmental Quality Act (CEQA). Therefore, the IEUA has requested that West Yost prepare a scope, schedule, and budget to complete the requested modeling to support the evaluation of the WSIP.

SCOPE OF WORK

We will use the CVM to evaluate the six (6) WSIP project alternatives that were outlined in an attachment to your email dated June 17, 2021 (Attachment A). These alternative scenarios will be simulated and evaluated compared to a baseline scenario. This baseline scenario is the project scenario that was modeled to evaluate the Local Storage Limitation Solution (WY, 2021) with updated locations of several wells that are yet to be constructed.

We plan to evaluate each project alternative over the planning period of 2028 through 2052 for the five (5) criteria listed below. For each criterion, we propose to generate the following exhibits to describe the model results:

¹ The CVM has been used for recent investigations to recalculate the Safe Yield of the Chino Basin (WEI, 2020) and evaluate the Local Storage Limitation Solution (WY, 2021), and has been accepted by the Court.

- Changes in net recharge to the Chino Basin
 - Time-series chart of net recharge for the baseline and six project alternatives.
- Changes in groundwater levels
 - Maps of the maximum and minimum difference in groundwater levels compared to the baseline scenario over the planning period.
 - Maps of the difference in groundwater levels compared to the baseline scenario for the end of the planning period.
 - Table comparing the maximum and minimum difference in groundwater levels compared to the baseline scenario.
 - Hydrographs of groundwater levels at wells for the baseline scenario and the six project alternatives. These hydrographs will be an appendix and will include the same wells that were evaluated in the January 2021 draft report.
 - Map and table of wells that are projected to have pumping sustainability challenges.
 - Map and table of wells where new land subsidence is projected to occur.
- State of Hydraulic Control
 - Time series chart of groundwater discharge through the Chino Creek Well Field for the baseline and six project alternatives.
- Residence time of injected water
 - Map depicting the locations of injected particles six months and two years after continuous quarterly releases over the planning period for Scenario 1.
 - Table summarizing travel times from the injection location to the nearest municipal supply well for the six project alternatives.
- Movement of known water quality anomalies
 - Map showing projected movement of the water quality anomalies for the baseline and six project alternatives over the planning period.

We will document and describe the exhibits listed above in a technical memorandum (TM). As we complete interim exhibits and analyses, we will meet with staff from Tom Dodson and Associates (TDA) to review interim deliverables and exhibits to support their development of the required environmental documentation pursuant to CEQA.

PROPOSED BUDGET AND SCHEDULE

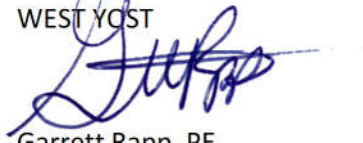
Our proposed budget for the administration, modeling, and documentation of our model results in accordance with the scope described above is \$96,690. Our staff billing rates follow the approved billing rates in Watermaster's Engineering budget for Fiscal Year 2021/2022.

We can complete the documented scope of work within six (6) weeks of the notice to proceed. We plan to submit the draft TM by August 20, 2021. Once IEUA and TDA staff have a chance to review and comment on the draft TM, we will respond to the comments and submit a final report within one week from when we receive all comments.

| Table 1. Proposed Budget for Follow-on Modeling to Support the WSIP | | |
|---|--|-----------------|
| Task | Description | Budget, dollars |
| 1 | Project scoping, meetings, and project management | 25,500 |
| 2 | Updating baseline model (Local Storage Limitation Solution) | 6,500 |
| 3 | Building, running, and post-processing Scenarios 1 through 6 | 42,100 |
| 4 | Developing technical memorandum | 13,800 |
| Total (Plus 10 percent contingency) | | \$96,690 |

We appreciate the opportunity to perform this important work. Please do not hesitate to contact me if you have any questions on the proposed budget or scope.

Sincerely,
WEST YOST

A handwritten signature in blue ink, appearing to read "Garrett Rapp", is written over the typed name.

Garrett Rapp, PE
Associate Engineer II
RCE #86007

Attachment A: Project Alternatives



Attachment A

Project Alternatives

Attachment A. Project Alternative Scenario Descriptions (email from Liza Muñoz 6/17/2021)

CBP/WSIP Modeling Scenarios
Revised 2021.06.17

| No. | GW Modeling Scenario ⁽¹⁾ | Call Year ⁽²⁾ | Extraction (TAFY) | Status | Notes: |
|-----|---|--------------------------|-------------------|--------------------------------------|---|
| 1 | PUT-5 + TAKE-1 (same as PUT-5 + TAKE-3) | Early | 50 | Ready | Update 2021.02.22 modeling effort; revise CVWD ASR well location |
| 2 | PUT-5 + TAKE-1 (same as PUT-5 + TAKE-3) | Late | 50 | Ready | Update 2021.02.22 modeling effort; revise CVWD ASR well location |
| 3 | WSIP | Early | 40 | Adjust pumping plan | All "new" extraction well field remains, adjust pumping plan for 40 TAFY |
| 4 | WSIP | Late | 40 | Adjust pumping plan | All "new" extraction well field remains, adjust pumping plan for 40 TAFY |
| 5 | WSIP-FWC/CH/U | Early | 40 | In progress (FWC)/not started (CH/U) | Modified new extraction well field with (10 TAFY) inactive FWC wells, (1 TAFY) Chino Hills wells, and (1 TAFY) Upland wells |
| 6 | WSIP-FWC/CH/U | Late | 40 | In progress (FWC)/not started (CH/U) | Modified new extraction well field with (10 TAFY) inactive FWC wells, (1 TAFY) Chino Hills wells, and (1 TAFY) Upland wells |

Notes:
(1) TAKE alternatives with pre-delivery are no longer being considered and will not be re-modeled.
(2) Early call year assumes first TAKE cycle concurrent with **start of program in 2028**. Late call years assumes first TAKE cycle seven years after start of program.



CONTRACT AMENDMENT NUMBER: 4600002991-003
FOR
CHINO BASIN PROGRAM PRELIMINARY FEASIBILITY WORK

AMENDMENT NUMBER THREE is made and entered into this ____ day of _____, 2021, by and between the Inland Empire Utilities Agency, a Municipal Water District, organized and existing in the County of San Bernardino under and by virtue of the laws of the State of California (hereinafter referred to as "IEUA" and "Agency") and West Yost & Associates, Inc., with offices located in Davis, California (hereinafter referred to as "Consultant"), shall revise the Contract as follows:

REVISE SECTION 4, SCOPE OF WORK AND SERVICES, ADDING A PARAGRAPH, TO READ: Consultant's additional services and responsibilities shall include and be in accordance with Consultant's Proposal, dated June 24, 2021, **Exhibit A**, which is attached hereto, referenced herein, and made a part hereof.

REVISE SECTION 6, TERM, ADDING A PARAGRAPH, TO READ: With the execution of Contract Amendment Number 4600002991-003, the termination date of this Contract shall be extended to June 30, 2022; unless agreed to by both parties, reduced to writing, and amended in this Contract.

REVISE SECTION 7, COMPENSATION, ADDING A PARAGRAPH, TO READ: In accordance with this Contract Amendment, Agency shall pay Consultant a **NOT-TO-EXCEED MAXIMUM of \$246,640.00** for all services provided. This represents an increase of **\$96,690.00**.

ALL OTHER PROVISIONS OF THIS CONTRACT REMAIN UNCHANGED

The parties hereto have mutually covenanted and agreed as per the above amendment item, and in doing so have caused this document to become incorporated into the Contract Documents.

INLAND EMPIRE UTILITIES AGENCY:
**A MUNICIPAL WATER DISTRICT*

WEST YOST & ASSOCIATES, INC.:

Shivaji Deshmukh
General Manager

(Date)

DocuSigned by:
Charles Duncan
06EB1C90844A435.

Charles Duncan
President & CEO

6/30/2021

(Date)

Exhibit A



23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

June 24, 2021

Project No.: 945-80-20-01
SENT VIA: EMAIL

Liza Muñoz, PE, QSD
Senior Engineer
Inland Empire Utilities Agency
Chino, CA 91708

SUBJECT: Scope and Budget Proposal for Follow-on Modeling to Support the Water Storage Investment Program

Dear Ms. Muñoz:

This letter proposal is in response to a request by the Inland Empire Utilities Agency (IEUA) to conduct additional modeling to investigate the feasibility of a Storage and Recovery Program in the Chino Basin called the Water Storage Investment Program (WSIP). West Yost was retained by IEUA in 2020 to use the Chino Basin Watermaster's (Watermaster) 2020 Chino Valley Model¹ (CVM) to evaluate the potential impact of various WSIP project alternatives. These initial evaluations are documented in a draft report that was published in January 2021. Since the initial draft report, the following conditions have changed: the baseline condition must now be updated to reflect the Local Storage Limitation Solution scenario (WY, 2021); four (4) new project alternatives are to be evaluated; and the model evaluations of the project alternatives must be tailored to support future documentation for the California Environmental Quality Act (CEQA). Therefore, the IEUA has requested that West Yost prepare a scope, schedule, and budget to complete the requested modeling to support the evaluation of the WSIP.

SCOPE OF WORK

We will use the CVM to evaluate the six (6) WSIP project alternatives that were outlined in an attachment to your email dated June 17, 2021 (Attachment A). These alternative scenarios will be simulated and evaluated compared to a baseline scenario. This baseline scenario is the project scenario that was modeled to evaluate the Local Storage Limitation Solution (WY, 2021) with updated locations of several wells that are yet to be constructed.

We plan to evaluate each project alternative over the planning period of 2028 through 2052 for the five (5) criteria listed below. For each criterion, we propose to generate the following exhibits to describe the model results:

¹ The CVM has been used for recent investigations to recalculate the Safe Yield of the Chino Basin (WEI, 2020) and evaluate the Local Storage Limitation Solution (WY, 2021), and has been accepted by the Court.

- Changes in net recharge to the Chino Basin
 - Time-series chart of net recharge for the baseline and six project alternatives.
- Changes in groundwater levels
 - Maps of the maximum and minimum difference in groundwater levels compared to the baseline scenario over the planning period.
 - Maps of the difference in groundwater levels compared to the baseline scenario for the end of the planning period.
 - Table comparing the maximum and minimum difference in groundwater levels compared to the baseline scenario.
 - Hydrographs of groundwater levels at wells for the baseline scenario and the six project alternatives. These hydrographs will be an appendix and will include the same wells that were evaluated in the January 2021 draft report.
 - Map and table of wells that are projected to have pumping sustainability challenges.
 - Map and table of wells where new land subsidence is projected to occur.
- State of Hydraulic Control
 - Time series chart of groundwater discharge through the Chino Creek Well Field for the baseline and six project alternatives.
- Residence time of injected water
 - Map depicting the locations of injected particles six months and two years after continuous quarterly releases over the planning period for Scenario 1.
 - Table summarizing travel times from the injection location to the nearest municipal supply well for the six project alternatives.
- Movement of known water quality anomalies
 - Map showing projected movement of the water quality anomalies for the baseline and six project alternatives over the planning period.

We will document and describe the exhibits listed above in a technical memorandum (TM). As we complete interim exhibits and analyses, we will meet with staff from Tom Dodson and Associates (TDA) to review interim deliverables and exhibits to support their development of the required environmental documentation pursuant to CEQA.

PROPOSED BUDGET AND SCHEDULE

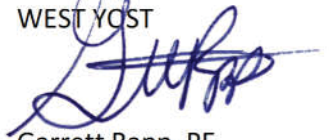
Our proposed budget for the administration, modeling, and documentation of our model results in accordance with the scope described above is \$96,690. Our staff billing rates follow the approved billing rates in Watermaster's Engineering budget for Fiscal Year 2021/2022.

We can complete the documented scope of work within six (6) weeks of the notice to proceed. We plan to submit the draft TM by August 20, 2021. Once IEUA and TDA staff have a chance to review and comment on the draft TM, we will respond to the comments and submit a final report within one week from when we receive all comments.

| Table 1. Proposed Budget for Follow-on Modeling to Support the WSIP | | |
|---|--|-----------------|
| Task | Description | Budget, dollars |
| 1 | Project scoping, meetings, and project management | 25,500 |
| 2 | Updating baseline model (Local Storage Limitation Solution) | 6,500 |
| 3 | Building, running, and post-processing Scenarios 1 through 6 | 42,100 |
| 4 | Developing technical memorandum | 13,800 |
| Total (Plus 10 percent contingency) | | \$96,690 |

We appreciate the opportunity to perform this important work. Please do not hesitate to contact me if you have any questions on the proposed budget or scope.

Sincerely,
WEST YOST



Garrett Rapp, PE
Associate Engineer II
RCE #86007

Attachment A: Project Alternatives



Attachment A

Project Alternatives

Attachment A. Project Alternative Scenario Descriptions (email from Liza Muñoz 6/17/2021)

CBP/WSIP Modeling Scenarios
Revised 2021.06.17

| No. | GW Modeling Scenario ⁽¹⁾ | Call Year ⁽²⁾ | Extraction (TAFY) | Status | Notes: |
|-----|---|--------------------------|-------------------|--------------------------------------|---|
| 1 | PUT-5 + TAKE-1 (same as PUT-5 + TAKE-3) | Early | 50 | Ready | Update 2021.02.22 modeling effort; revise CVWD ASR well location |
| 2 | PUT-5 + TAKE-1 (same as PUT-5 + TAKE-3) | Late | 50 | Ready | Update 2021.02.22 modeling effort; revise CVWD ASR well location |
| 3 | WSIP | Early | 40 | Adjust pumping plan | All "new" extraction well field remains, adjust pumping plan for 40 TAFY |
| 4 | WSIP | Late | 40 | Adjust pumping plan | All "new" extraction well field remains, adjust pumping plan for 40 TAFY |
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| 6 | WSIP-FWC/CH/U | Late | 40 | In progress (FWC)/not started (CH/U) | Modified new extraction well field with (10 TAFY) inactive FWC wells, (1 TAFY) Chino Hills wells, and (1 TAFY) Upland wells |

Notes:

(1) TAKE alternatives with pre-delivery are no longer being considered and will not be re-modeled.

(2) Early call year assumes first TAKE cycle concurrent with **start of program in 2028**. Late call years assumes first TAKE cycle seven years after start of program.

INFORMATION
ITEM
3A



4th Quarter Strategic Planning & Resources Update

Pietro Cambiaso, P.E.

Deputy Manager of Strategic Planning and Resources

July 2021

Topics

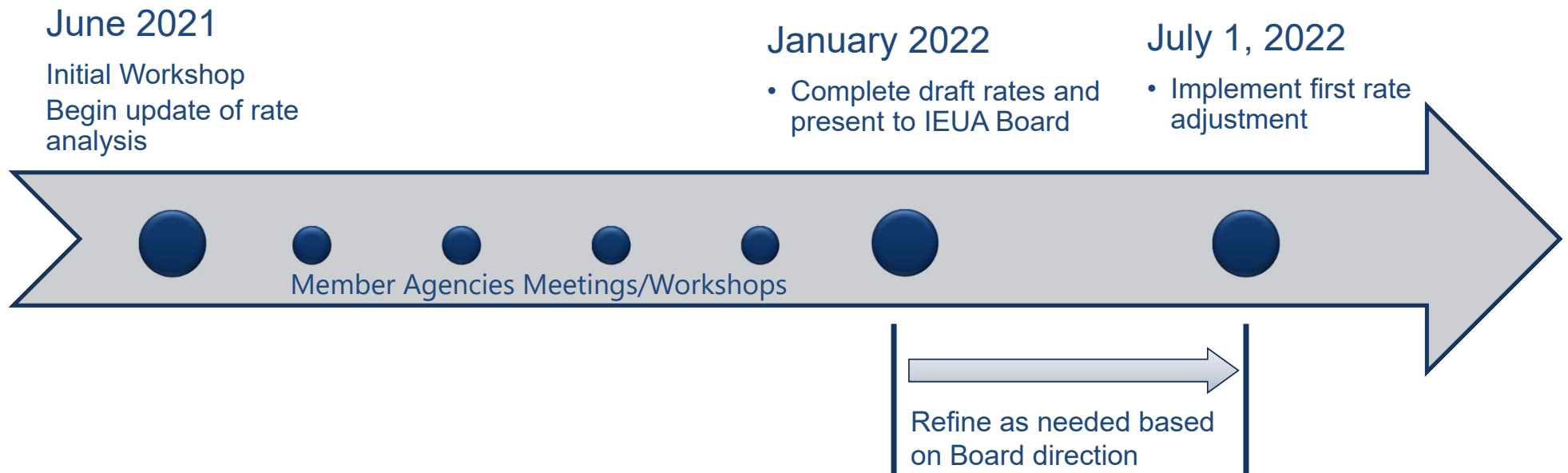
- Regulatory Compliance
- Recycled Water Rate Study
- Return to Sewer Study
- Dry Year Yield [DYY] Program
- Upper Santa Ana River Multiple Species Habitat Conservation Plan
- Direct Potable Reuse [DPR]

Regulatory Compliance

- Air Quality Management District
 - RP-2 Digester gas release
 - RP-1 Inspection
- Regional Water Quality Control Board
 - Chronic Toxicity – Reproduction (RP-1)
- Pretreatment & Source Control
 - Regional Sewerage System
 - Issued 4 Permits and 5 Notices of Violation (2 NOVs resolved)
 - Non-Reclaimable Wastewater System/Brine Line
 - Issued 2 Permits and 2 Notices of Violation (1 NOV resolved)
- Division of Drinking Water
 - Chino Desalter Authority (CDA 1) 100% compliance
 - Groundwater Recharge
 - PFOA Notification Level (NL) exceedance
 - 1,2,3-Trichloropropane (1,2,3-TCP) Maximum Contaminant Level (MCL) exceedance



Recycled Water Rate Study



Return to Sewer Study

Return to Sewer Flows from water consumption demand

- Update the Equivalent Dwelling Unit (EDU) Equation
 - Fair and equitable distribution of costs to rate payers
 - Technically defensible
- Expanded Return to Sewer Study (June 2021 – Feb. 2022)
 - City of Chino, City of Ontario, and Cucamonga Valley Water District service areas
 - Technical Committee unanimous approval (Apr 2021)

Dry Year Yield (DYY) Program

Program provides up to 100,000 acre-feet (AF) of storage in a Metropolitan (MWD) storage account in the Chino Basin

- MWD stored 63,400 AF (June 2017- Jan 2020)
- 40,200 AF of voluntary withdrawals
- 23,200 AF remains in account
 - Partners will withdraw remainder of water from account in FY21/22 and FY22/23



Upper Santa Ana River Multiple Species Habitat Conservation Plan

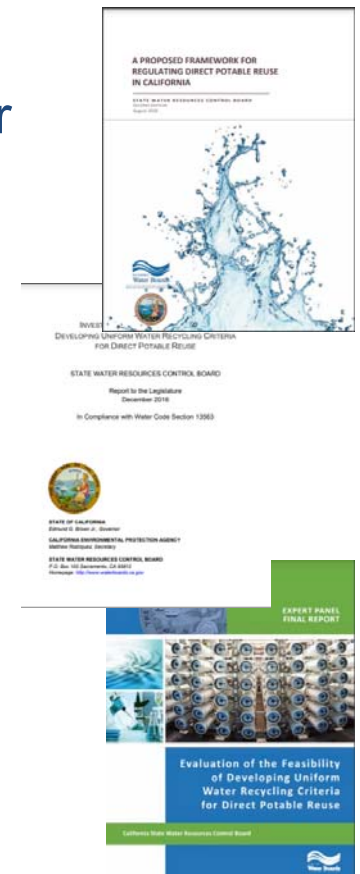
- SAR HCP Planning Document and Environmental Impact Report in 60-day public review
 - Posted to <http://www.uppersarhcp.com>
 - Comments due July 16th
- On-going GM discussions for Joint Powers Authority (JPA) structure



Direct Potable Reuse (DPR)

Introduction of recycled water into a drinking water system, or into a raw water supply immediately upstream a drinking water treatment plant

- Division of Drinking Water DPR Criteria adoption by 2023
- Expert panel assisting in development of DPR regulations
- IEUA participation in the development of the regulations
 - Webinars and regulatory review
 - Coordination with WaterReuse and CASA comment letters



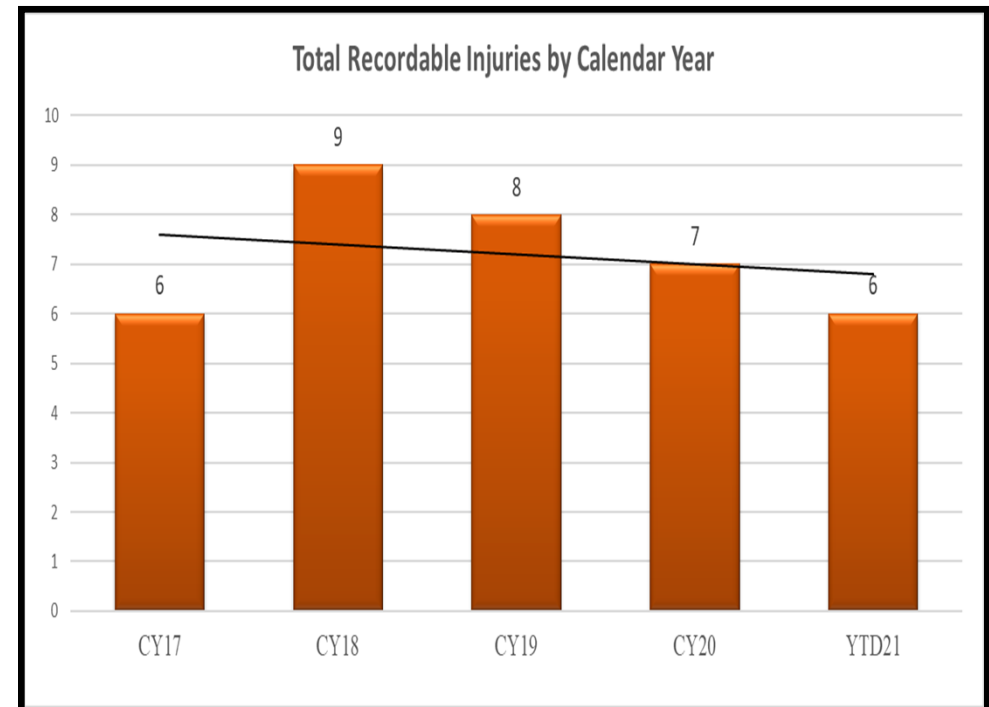
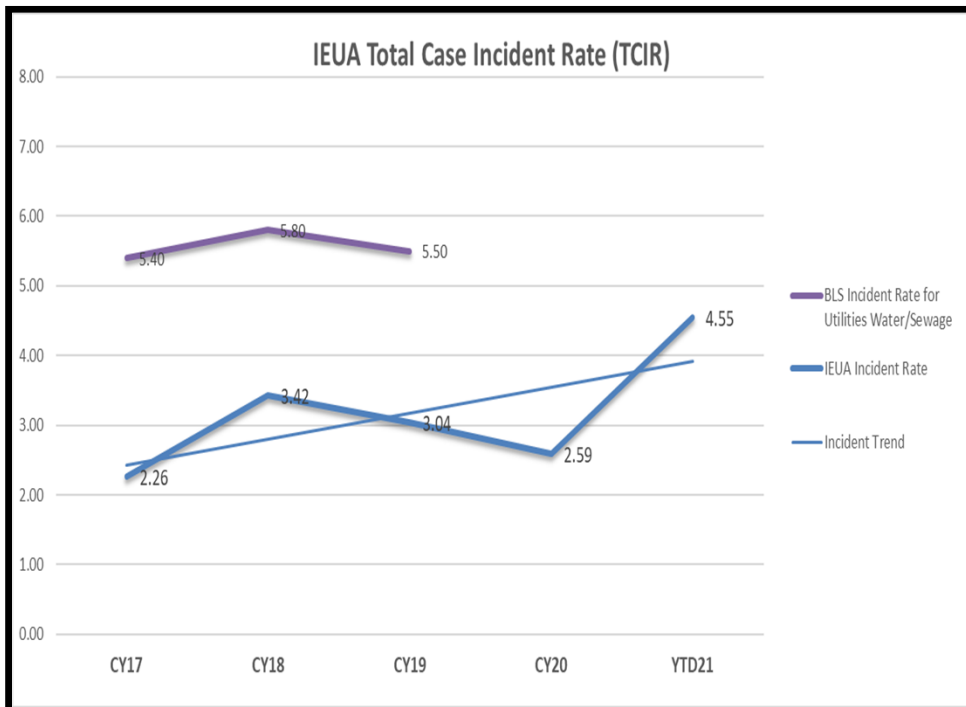
INFORMATION
ITEM
3B



Operations Division Quarterly Update

Scott Lening
Deputy Manager of Operations
July 21, 2021

IEUA Incident Rates vs. Industry & Total Recordable Injuries



* Estimated incident rate based on past June hours worked

Compliance, Inspections, and Tours

- RP-1 Bioassay
- AQMD Inspections
- RP-1 Flare Project
- Plant Tours



RP-1 Tour Samples

RP-1 Capital Projects

- Mechanical Restoration
- SCADA Migration



RP-1 Placing Clarifier Online

RP-4 Capital Projects

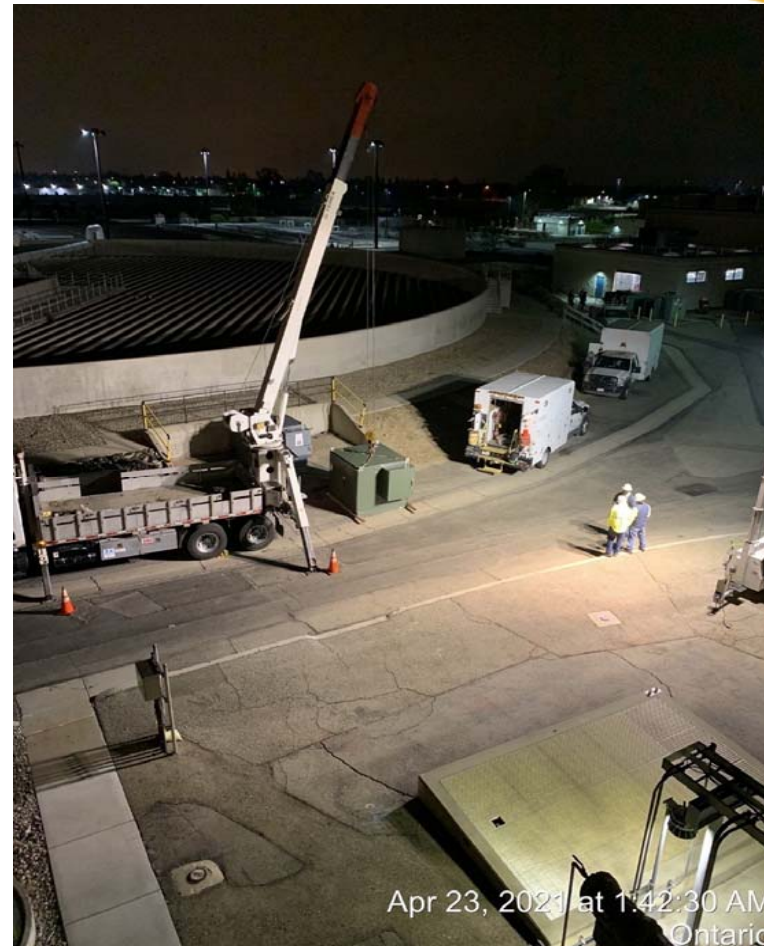
- Aeration Basin Rehabilitation
- Process Improvements



RP-4 Secondary Weir Covers

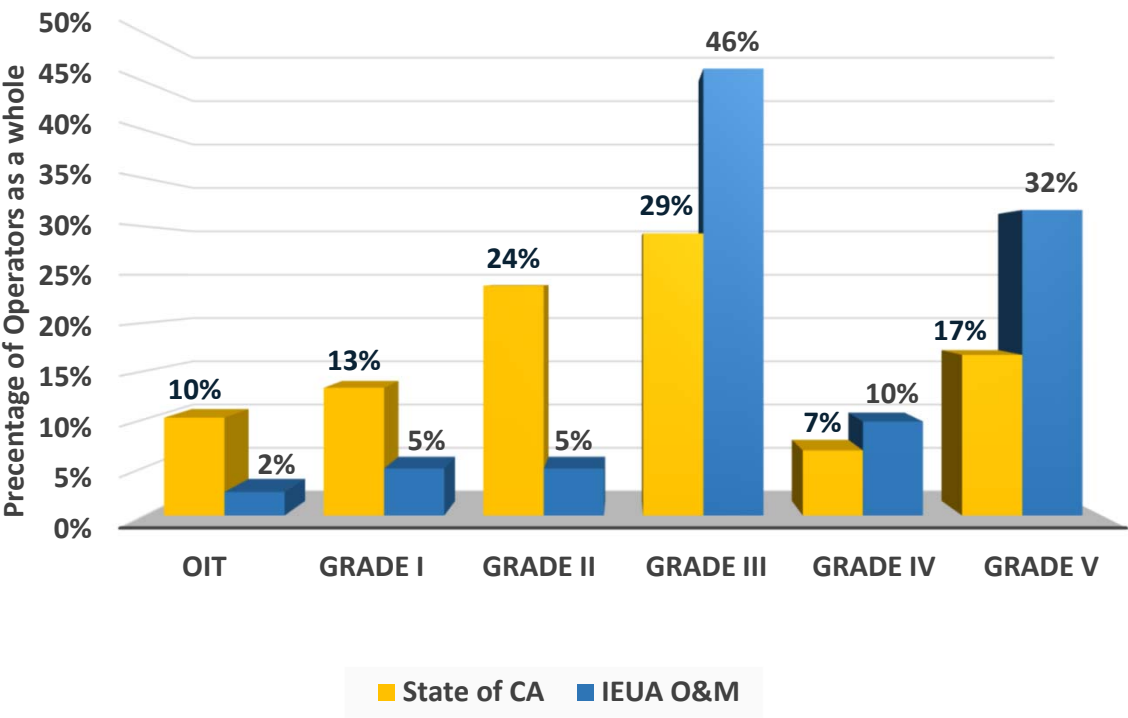
Operations and Maintenance Projects

- RP-4 Power Pole Replacement
- PME Switch Installation

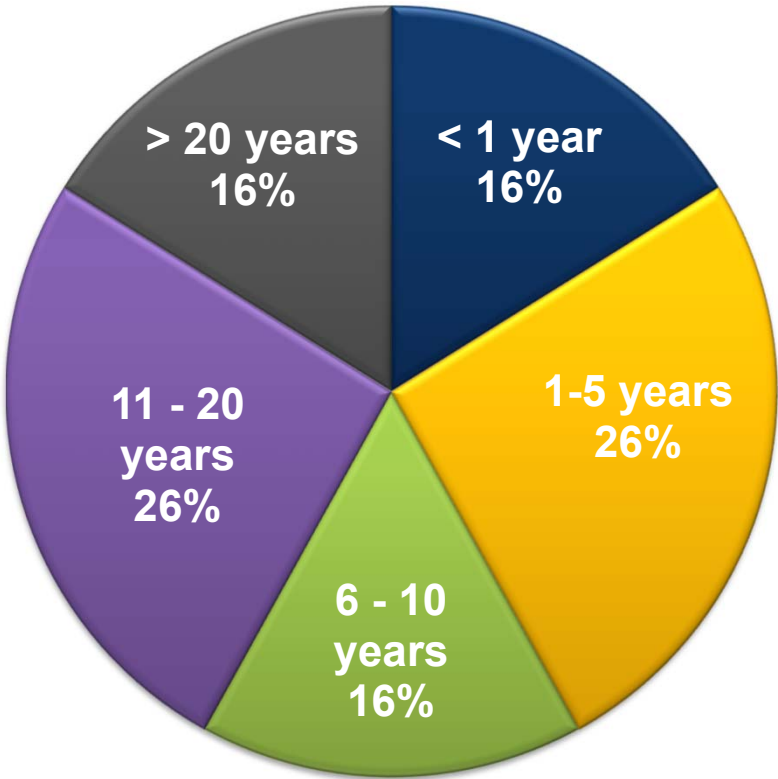


Certification Summary

State of CA versus IEUA Operator Certifications



Years of Service



INFORMATION
ITEM
3C

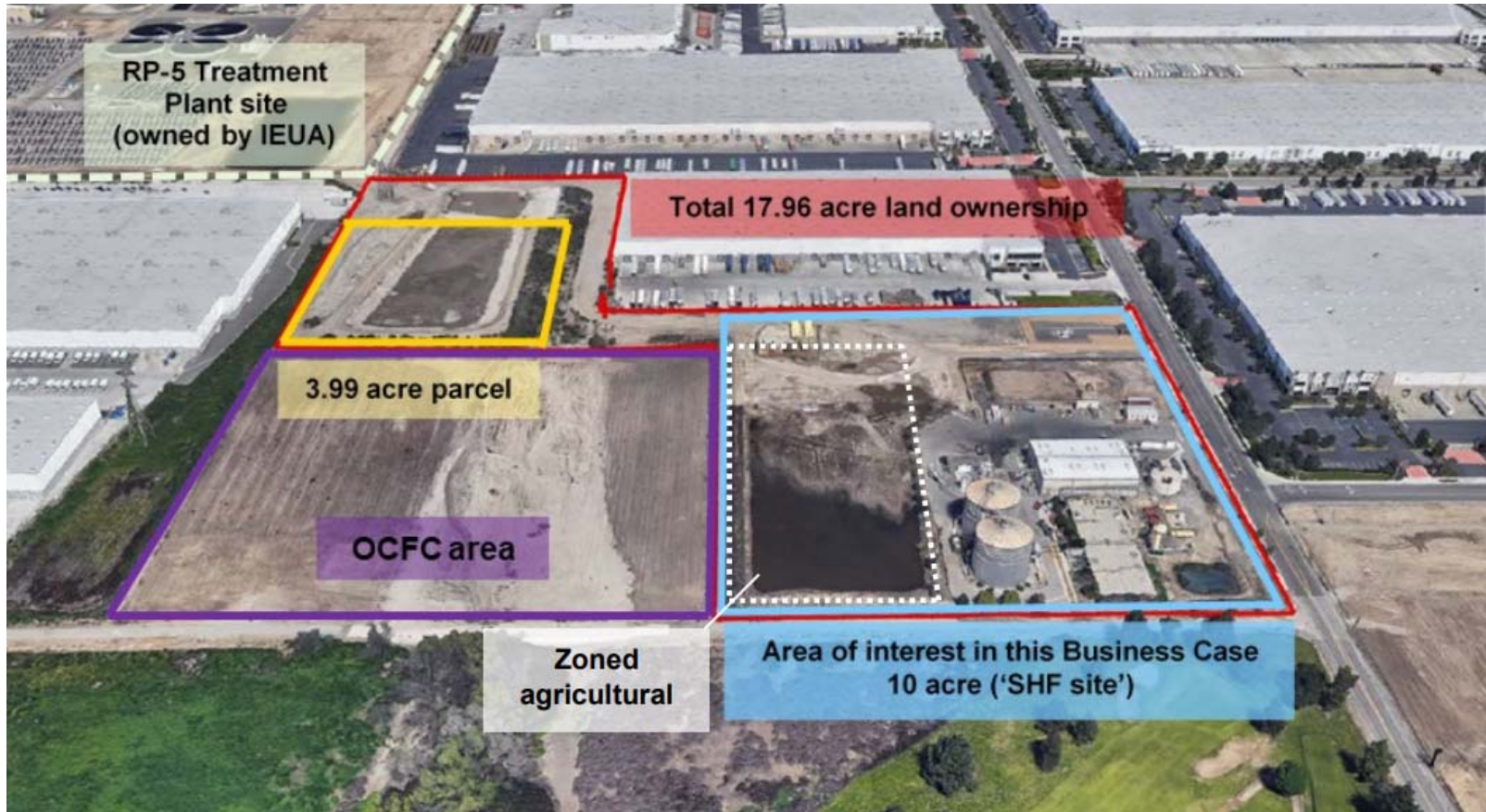


RP-5 Solids Handling Facility Future Uses Evaluation Update

Project No. EN20034.03

Jason Marseilles, P.E.
Deputy Manager of Engineering
July 2021

Project Location



Solids Handling Facility Current Use



- **Current Status**

- RP-5 Solids Handling Facility (SHF) offline since April 2019
- Utilized for the RP-5 Expansion Contractor Laydown and Parking

Evaluation Scope

- **Purpose:** Evaluate options for future use
- **Alternative Development**
 - **Transaction Type:** 20-year lease, 50-year lease, or land sale
 - **Site Size:** Half Site or Full Site
 - **Land Use:** Organics Processing or Logistics Hub
- **Study Approach:** Assessed nine alternatives against several criteria:
 - Economic criteria; calculated quantitatively
 - Environmental, social (community impact), and technical & operational criteria;



Alternative Evaluation Results

With RP-5 Expansion Impacts

| ID | Lease or Sale | Site | Use | Financial Analysis | | Multi-Criteria Analysis (% indicates weighting) | | | | | |
|----|---------------|-----------|---------------|--------------------|-------------|---|---------------------------|--------------------|-------------------------|----------------------|----------|
| | | | | IEUA Upfront Cost* | 25-year NPV | Economic Score (50%) | Environmental Score (15%) | Social Score (15%) | Operational Score (25%) | Total Weighted Score | MCA Rank |
| 1 | Status Quo | | | \$0 | \$0.17 | 2.12 | 0.40 | 0.60 | 1.25 | 4.37 | 1 |
| 2 | 20-yr lease | Full site | Organics | \$8.95 | \$1.75 | 1.78 | 0.30 | 0.15 | 0.25 | 2.48 | 4 |
| 3 | 20-yr lease | Half site | Organics | \$7.62 | \$1.92 | 1.92 | 0.40 | 0.30 | 0.50 | 3.12 | 2 |
| 4 | 50-yr lease | Full site | Logistics hub | \$8.95 | (\$4.92) | 0.31 | 0.30 | 0.75 | 0.25 | 1.61 | 7 |
| 5 | 50-yr lease | Half site | Logistics hub | \$7.62 | (\$0.18) | 1.46 | 0.30 | 0.75 | 0.50 | 3.01 | 3 |
| 6 | Sale | Full site | Organics | \$9.32 | (\$3.47) | 0.60 | 0.30 | 0.15 | 0.25 | 1.30 | 9 |
| 7 | Sale | Half site | Organics | \$7.83 | (\$1.83) | 1.08 | 0.40 | 0.30 | 0.50 | 2.28 | 5 |
| 8 | Sale | Full site | Logistics hub | \$12.94 | (\$3.79) | 0.25 | 0.30 | 0.75 | 0.25 | 1.55 | 8 |
| 9 | Sale | Half site | Logistics hub | \$11.33 | (\$4.34) | 0.25 | 0.30 | 0.75 | 0.50 | 1.80 | 6 |

Notes:

The analysis assumes lease or sale would be executed in 2022. Costs/benefits are all expressed in 2020 USD terms in millions.

* Upfront cost values are relative to Status Quo. Upfront costs are those expected to occur in 2021 and 2022.

Alternative Evaluation Results

Without RP-5 Expansion Impacts

Economic Analysis

| Alternative | Upfront Cost (\$ mil, 2020 USD)* | NPV (\$ mil, 2020 USD)** | NPV relative to 'Do Nothing' (\$ mil, 2020 USD) | NPV-only Rank |
|--|----------------------------------|--------------------------|---|---------------|
| 1 – Status Quo | \$0.13 | \$0.17 | \$0.00 | 9 |
| 2 – 20 year lease for full site (as-is), for organics processing. | \$0.19 | \$11.49 | \$11.33 | 1 |
| 3 – 20 year lease for half site (as-is), for organics processing. | \$0.12 | \$9.27 | \$9.10 | 2 |
| 4 – 50 year lease for full site (demolished), for use as logistics hub | \$0.19 | \$4.82 | \$4.65 | 7 |
| 5 – 50 year lease for half site (demolished), for use as logistics hub | \$0.12 | \$7.18 | \$7.01 | 3 |
| 6 – Sale of full site (as-is), for organics processing. | \$0.56 | \$6.28 | \$6.11 | 4 |
| 7 – Sale of half site (as-is), for organics processing | \$0.33 | \$5.52 | \$5.35 | 6 |
| 8 – Sale of full site (demolished), for use as logistics hub | \$4.19 | \$5.95 | \$5.78 | 5 |
| 9 – Sale of half site (demolished), for use as logistics hub | \$3.83 | \$3.02 | \$2.85 | 8 |

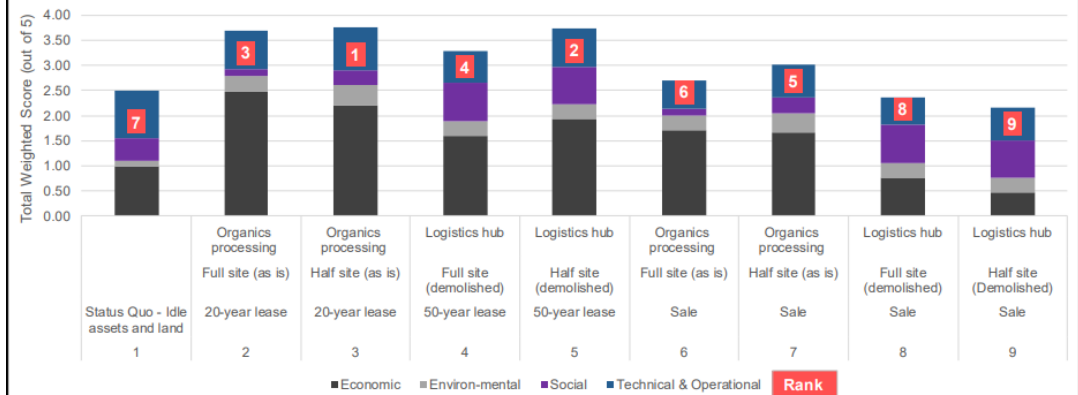
* Represents indicative costs incurred by IEUA in 2024 and 2025, expressed in 2020 USD

** Represents NPV of alternatives discounted back to 2025, expressed in 2020 USD

Multi-Criteria Analysis

| Alt | Lease or Sale | Site Size | Use | RANK | TOTAL SCORE | Economic | Environ-mental | Social | Technical & Operational |
|-----|---------------|------------------------|---------------------|------|-------------|----------|----------------|--------|-------------------------|
| 1 | Status Quo | | | 7 | 2.50 | 1.00 | 0.10 | 0.45 | 0.95 |
| 2 | 20-year lease | Full site (as is) | Organics processing | 3 | 3.68 | 2.48 | 0.30 | 0.15 | 0.75 |
| 3 | 20-year lease | Half site (as is) | Organics processing | 1 | 3.76 | 2.21 | 0.40 | 0.30 | 0.85 |
| 4 | 50-year lease | Full site (demolished) | Logistics hub | 4 | 3.30 | 1.60 | 0.30 | 0.75 | 0.65 |
| 5 | 50-year lease | Half site (demolished) | Logistics hub | 2 | 3.73 | 1.93 | 0.30 | 0.75 | 0.75 |
| 6 | Sale | Full site (as is) | Organics processing | 6 | 2.70 | 1.70 | 0.30 | 0.15 | 0.55 |
| 7 | Sale | Half site (as is) | Organics processing | 5 | 3.01 | 1.66 | 0.40 | 0.30 | 0.65 |
| 8 | Sale | Full site (demolished) | Logistics hub | 8 | 2.37 | 0.77 | 0.30 | 0.75 | 0.55 |
| 9 | Sale | Half site (Demolished) | Logistics hub | 9 | 2.17 | 0.47 | 0.30 | 0.75 | 0.65 |

MCA Results




Next Steps

- **Finalize RP-5 SHF Use Evaluation**
- **WM Lyles maintain use until RP-5 Expansion Complete (2025)**
- **Continue outreach to interested parties**
 - Organics Processors
 - Land Developers
 - City of Chino
- **Further develop top three alternatives**
 - 20-year lease of half site for organics processing
 - 50-year lease of half site for logistics hub
 - 20-year lease of full site for organics processing



INFORMATION
ITEM
3D



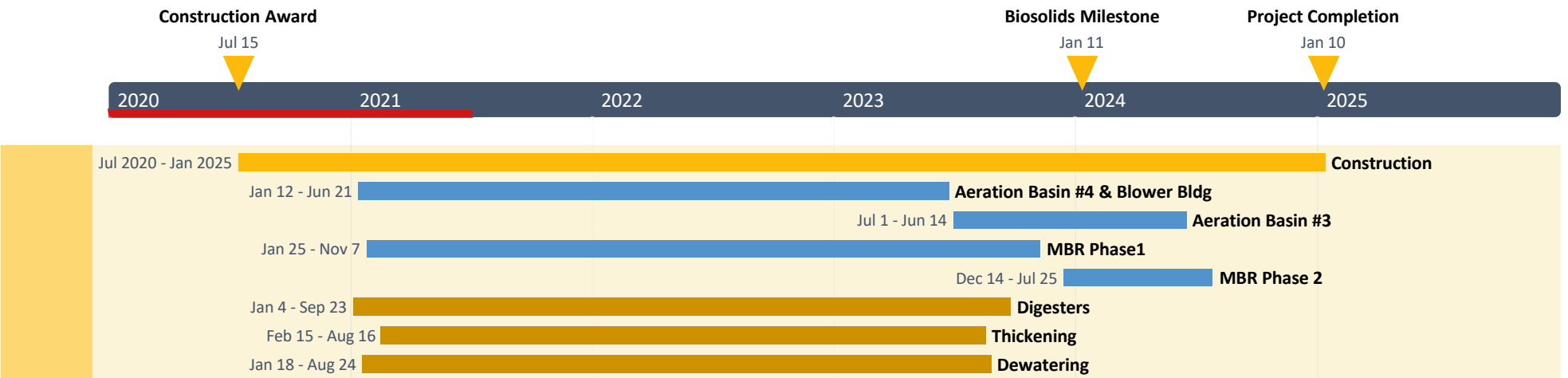
RP-5 Expansion Project Update:

July 2021
Project Nos. EN19001 and EN19006

Brian Wilson, P.E.
Senior Engineer
July 2021

RP-5: Project Status

Day 320 of 1640 = 21.3%



| Role | Firm | Contract | This Month's Payment | Total Paid | % Complete |
|-------------------------|----------|----------------|----------------------|--------------|------------|
| Contractor | WM Lyles | \$ 330,262,017 | \$5,498,127 | \$53,417,083 | 16.2% |
| Designer | Parsons | \$ 33,670,711 | \$374,008 | \$26,906,730 | 79.9% |
| Construction Management | Arcadis | \$ 21,125,523 | \$330,526 | \$4,092,981 | 19.4% |

Data date: 6/30/2021

RP-5: Major Activity Areas

Construction Staff

- WML Craft: 128
- WML Project: 28
- IEUA & CM: 15
- Total: 171



RP-5: Major Activities



Influent Pump Station

RP-5: Major Activities



Power Center 9

Fine Screens

Primary Clarifiers

RP-5: Major Activities



MBR Phase 1

RP-5: Major Activities



Solids June

RP-5: Major Activities



Acid Phase Digester

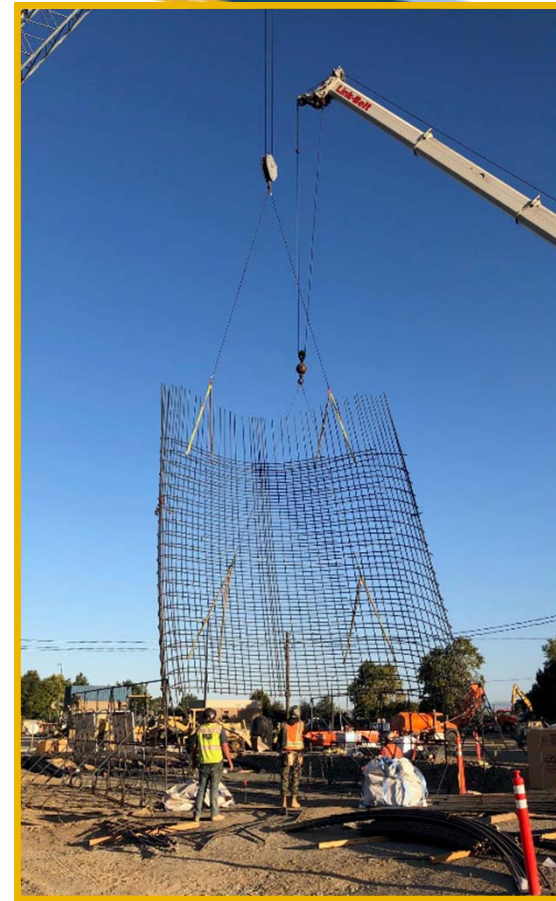
RP-5: Major Activities



**Approx. 15,000 lb
#9 Bar @ 3.4 lb/ft**

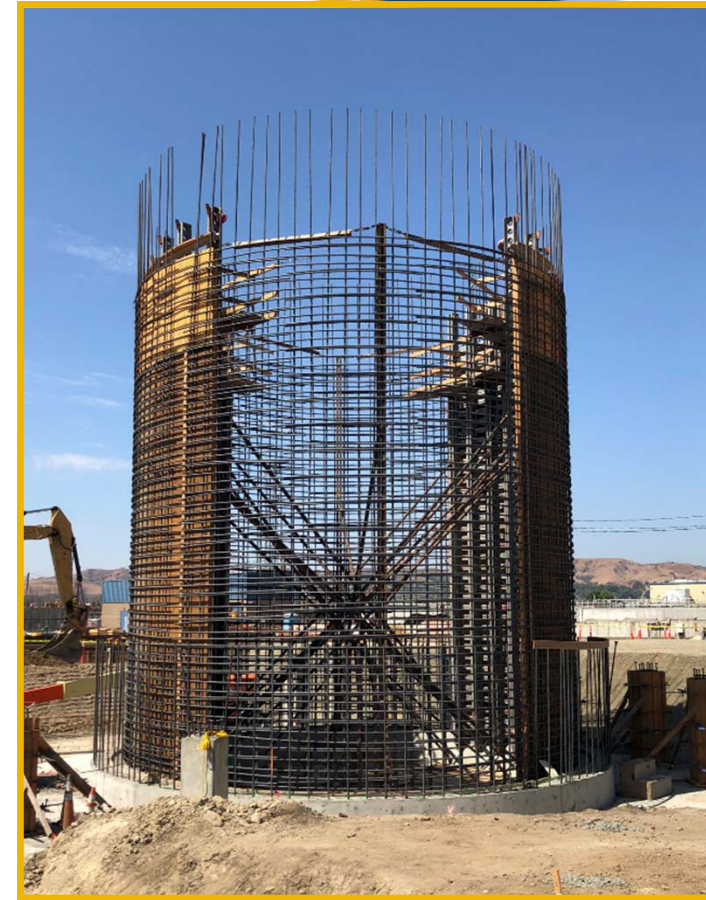
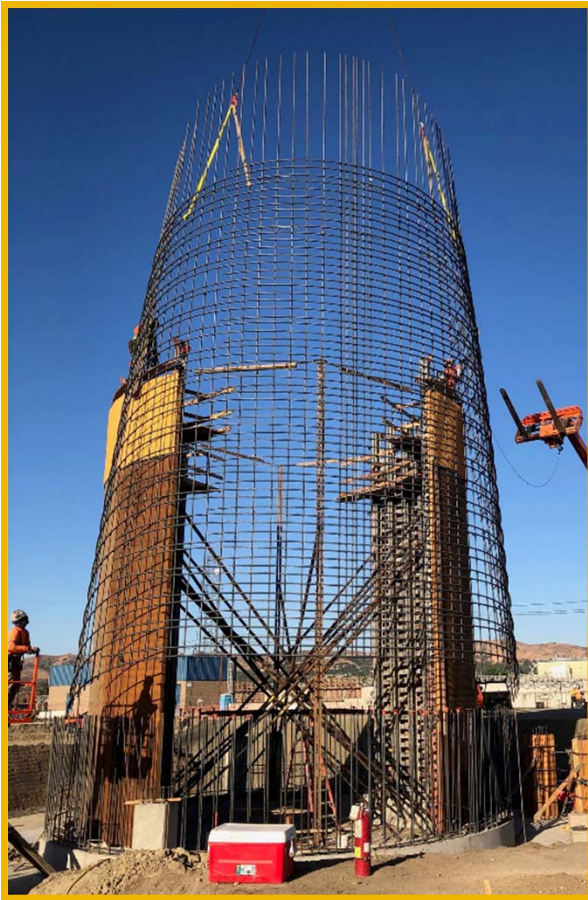
Acid Phase Digester

RP-5: Major Activities



Acid Phase Digester

RP-5: Major Activities



Acid Phase Digester

RP-5: Major Activities



Acid Phase Digester & Dewatering Building

RP-5: Major Activities





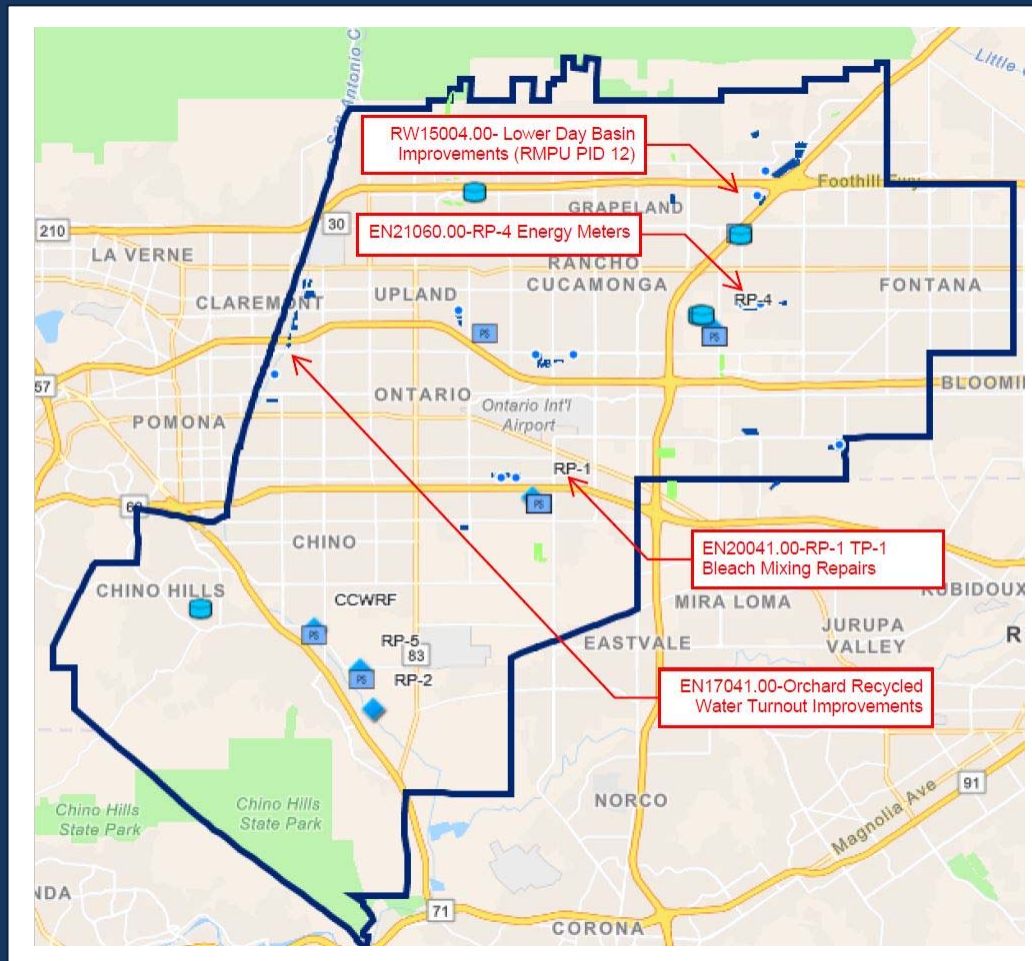
Questions?

INFORMATION
ITEM
3E



Engineering and Construction Management Project Updates

Jerry Burke, PE
Manager of Engineering
July 2021



Project Location Map

Orchard Recycled Water Turnout Improvements

Project Goal: Rehabilitate/Repair Existing Assets



Total Project Budget: \$477 K
Project Completion: June 2021
Construction Percent Complete: 100%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|---------------------------|--------------------------------|---------------------|------------------------------|
| Design | Lee & Ro / ESA | \$81 K | 130% |
| Construction (Current) | Cedro Construction, Inc. | \$128 K | 0% |

RP-4 Energy Meters

Project Goal: Improve Efficiency

Total Project Budget: \$50 K
Project Completion: September 2021
Construction Percent Complete: 75%

| Phase | Consultant/Contractor | Current Contract | Amendments/Change Orders |
|------------------------|------------------------------|------------------|--------------------------|
| Design | In-House | N/A | 0% |
| Construction (Current) | Power Systems Services, Inc. | \$15 K | 0% |



RP-1 TP-1 Bleach Mixing Repairs

Project Goal: Rehabilitate/Repair Existing Assets



Total Project Budget: \$680 K
Project Completion: November 2021
Construction Percent Complete: 5%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|---------------------------|---------------------------|---------------------|------------------------------|
| Design | GHD | \$98 K | 0% |
| Construction (Current) | WA Rasic | \$417 K | 0% |

Lower Day Basin Improvements

Project Goal: Expand Capacity and Increase Groundwater Recharge

Total Project Budget: \$4 M
Project Completion: September 2021
Construction Percent Complete: 95%

| Phase | Consultant/Contractor | Current Contract | Amendments/Change Orders |
|------------------------|-----------------------|------------------|--------------------------|
| Design | Scheevel/Carollo | \$238 K | 2.2% |
| Construction (Current) | Ferreira Construction | \$3 M | -1.5% |

