



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

**WEDNESDAY, FEBRUARY 8, 2023
10:00 A.M.**

**AGENCY HEADQUARTERS
BOARD ROOM
6075 KIMBALL AVENUE, BUILDING A
CHINO, CALIFORNIA 91708
VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 770 578 953#**

PURSUANT TO AB361 AND RESOLUTION NO. 2023-1-3, ADOPTED BY THE IEUA BOARD OF DIRECTORS ON JANUARY 18, 2023, IEUA BOARD AND COMMITTEE MEETINGS WILL CONTINUE TO BE CONDUCTED THROUGH TELECONFERENCE.

The public may participate and provide public comment during the meeting by dialing the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at dgarzaro@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Board of Directors.

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 prior to the public comment section or request to 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.

*A Municipal Water District

1. **CONSENT ITEMS**

A. **MINUTES**

Approve Minutes of the January 11, 2023 Engineering, Operations, and Water Resources Committee meeting.

B. **RP-1 DEVICENET REPLACEMENT DESIGN CONSULTANT CONTRACT AWARD**

Staff recommends that the Committee/Board:

1. Award a design consultant contract for the RP-1 DeviceNet Replacement, Project No. EN23000, to Eramosa International Inc., for the not-to-exceed amount of \$465,918; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

2. **ACTION ITEM**

A. **RP-1 HEADWORKS BAR SCREEN SYSTEM IMPROVEMENTS DESIGN-BUILD CONTRACT AWARD**

Staff recommends that the Committee/Board:

1. Award a design-build contract for the RP-1 Headworks Bar Screen System Improvements, Project No. EN23111, to GSE Construction Co., Inc. in the amount of \$1,609,900; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

3. **INFORMATION ITEMS**

A. **PLANNING & RESOURCES DEPARTMENT QUARTERLY UPDATE (POWERPOINT)**

B. **SEMI-ANNUAL LABORATORY UPDATE (POWERPOINT)**

C. **RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)**

RECEIVE AND FILE INFORMATION ITEMS

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

4. **GENERAL MANAGER'S COMMENTS**

5. **COMMITTEE MEMBER COMMENTS**

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

ADJOURN

DECLARATION OF POSTING

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or dgarzaro@ieua.org, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

**CONSENT
ITEM
1A**



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

**WEDNESDAY, JANUARY 11, 2023
10:00 A.M.**

COMMITTEE MEMBER PRESENT via Video/Teleconference

Michael Camacho, Chair
Paul Hofer, Director

STAFF PRESENT

Shivaji Deshmukh, P.E., General Manager
Christiana Daisy, P.E., Deputy General Manager
Kristine Day, Assistant General Manager
Adham Almasri, Principal Engineer
Kevin Asprer, Associate Engineer
Amanda Bugarin, Intern
Jerry Burke, Director of Engineering
Robert Delgado, Manager of Maintenance
Lucia Diaz, Manager of Facilities & Water Systems Programs
Julianne Frabizio, Project Manager
Chris Garcia, Environmental Resources Planner II
Denise Garzaro, Board Secretary/Office Manager
Brandon Gonzalez Contreras, Technology Specialist I
Michael Hurley, Director of Planning & Resources
Elizabeth Hurst, Chino Basin Program Manager
Michael Larios, Technology Specialist I
Randy Lee, Acting Director of Finance
Joshua Oelrich, Deputy Manager of Maintenance
Jason Marseilles, Manager of Engineering
Liza Munoz, Senior Engineer
Alyson Piguee, Director of External & Government Affairs
Sandra Salazar, Senior Associate Engineer
Vicky Salazar, Senior Associate Engineer
Steven Smith, Acting Groundwater Recharge Supervisor
James Spears, Senior Engineer
Travis Sprague, Principal Engineer
Megan Trott, P.E., Associate Engineer
Brian Wilson, P.E., CCM, Principal Engineer

STAFF PRESENT via Video/Teleconference

Tony Arellano, Safety Officer
Josh Biesiada, Senior Project Manager
Javier Chagoyen-Lazaro, Director of Finance
Jon Florio, Deputy Manager of Maintenance

Warren Green, Manager of Contracts & Procurement
Don Hamlett, Director of Information Technology
Jennifer Hy-Luk, Executive Assistant
Nolan King, Manager of Information Technology
Cathleen Pieroni, Senior Policy Advisor
Sushmitha Reddy, Manager of Laboratories
Yvonne Taylor, Administrative Assistant II
Jeff Ziegenbein, Acting Director of Operations & Maintenance

CALL TO ORDER

Committee Chair Michael Camacho called the meeting to order at 10:00 a.m. There were no public comments received or additions to the agenda.

1A – 1D. CONSENT ITEMS

The Committee:

- ◆ Approved Minutes of the December 14, 2022 Engineering, Operations, and Water Resources Committee meeting.
- ◆ Recommended that the Board:
 1. Approve the construction contract change order for the RP-1 and RP-4 Generator Retrofits, Project No. EN22034, to Big Sky Electric, for an additional amount of \$158,000, increasing the contract amount to \$333,100 (90%);
 2. Approve a total project budget augmentation in the amount of \$200,000 to the RP-1 and RP-4 Generator Retrofits, Project No. EN22034, increasing the budget from \$240,000 to \$440,000 in the Regional Operations and Maintenance (10800) Fund; and
 3. Authorize the General Manager to execute the change order and total project budget increase, subject to non-substantive changes;
- ◆ and
 1. Award a construction contract for the Preserve Lift Station Improvements, Project No. EN23066, to Tharsos Inc., for the amount of \$781,000;
 2. Approve a total project budget and FY 22/23 project budget augmentation in the amount of \$595,000 to Project No. EN23066 increasing the budget from \$455,000 to \$1,050,000 in the Regional Operations and Maintenance (10800) Fund; and
 3. Authorize the General Manager to execute the construction contract and budget augmentation, subject to non-substantive changes;
- ◆ and
 1. Award a construction contract for the BSS Manhole Upgrades FY 22/23 and RSS Manhole Upgrades FY 22/23, Project Nos. EN23014 and EN23015, to Norstar Plumbing and Engineering in the amount of \$413,000; and
 2. Authorize the General Manager to execute the contract; subject to non-substantive changes;

as a Consent Calendar items on the January 18, 2023 Board meeting agenda.

2A – 2E. ACTION ITEMS

The Committee:

◆ Recommended that the Board:

1. Approve a contract amendment for professional consulting services to Means Consulting, LLC in the amount of \$262,488, increasing the contract from \$239,514 to a not-to-exceed amount of \$502,002; and
2. Authorize the General Manager to execute the contract amendment, subject to non-substantive changes;

◆ and

1. Approve the contract amendment for the centrifuge services with Sentrimax Centrifuge Inc. for three, one-year extensions for a not-to-exceed amount of \$510,000, increasing the contract from \$90,000 to a not to exceed amount of \$600,000; and
2. Authorize the General Manager to execute the contract amendment, subject to non-substantive changes.

◆ and

1. Approve contract awards for the Groundwater Recharge Master Service Contracts to Jeremy Harris Construction, Inc. (Contract No. 4600003196), Hal Hays Construction, Inc. (Contract No. 46000003198), and Mike Bubalo Construction Co., Inc. (Contract No. 4600003197), for Groundwater Recharge Master Services for a not-to-exceed amount of \$1,000,000; and
2. Authorize the General Manager to execute the master service contracts, subject to non-substantive changes;

◆ and

1. Award a consultant contract for the RP-4 Process Improvements Phase II, Project No. EN20057, to Carollo Engineers Inc., for the not-to-exceed amount of \$1,084,943; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes;

as Consent Calendar items on the January 18, 2023 Board meeting agenda.

◆ Recommended that the Board:

1. Award a construction contract for the NSNT Sewer Siphon Replacement, Project No. EN20064, to Ferreira Construction Co., for the amount of \$2,686,640;
2. Approve a total project budget augmentation in the amount of \$1,387,853 to the NSNT Sewer Siphon Replacement, Project No. EN20064, increasing the budget

from \$3,112,147 to \$4,500,000 in the Non-Reclaimable Wastewater (10500) Fund; and

3. Authorize the General Manager to execute the construction contract and budget augmentation, subject to non-substantive changes;

as an Action item on the January 18, 2023 Board meeting agenda.

3A – 3D. INFORMATION ITEMS

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

- ◆ Annual Regional Water Use Efficiency Programs Report – FY 2021/22
- ◆ Operations & Maintenance Department Quarterly Update
- ◆ RP-5 Expansion Project Update
- ◆ Engineering and Construction Management Project Updates

4. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that yesterday's storm was the second of five storms projected through mid/late January. Storms have resulted in Northern California precipitation levels of over 140% of average to date and snow/water content levels of over 180%. Reservoir levels are recovering quickly, but both Lake Oroville and San Luis Reservoir, which are key storage reservoirs in the State Water Project (SWP) system are still below normal levels at 88% and 62% of average for this date, respectively. While it is unquestionably an encouraging start to the year, there is still a great deal of uncertainty remaining. General Manager Deshmukh stated that staff does not expect any change to the SWP allocation until February and improving SWP supply conditions will not be utilized for the exclusive benefit of SWP Dependent Areas. Less than 40% SWP Allocation will require payback of some or all 2022 Human, Health and Safety supplies. Also, operational challenges (e.g., treatment plant minimums) and declining CRA flows will result in pressure to return to more typical operations with higher blended supplies. Staff is still expecting some type of shortage allocation from Metropolitan in 2023.

5. COMMITTEE MEMBER COMMENTS

There were no Committee member comments.

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

There were no Committee member requested 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: FEBRUARY 8, 2023

**CONSENT
ITEM
1B**

Date: February 15, 2023

To: The Honorable Board of Directors

SD
From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

02/08/23

Staff Contact: Christiana Daisy, Deputy General Manager

Subject: RP-1 DeviceNet Replacement Design Consultant Contract Award

Executive Summary:

Through the Supervisory Control and Data Acquisition (SCADA) Enterprise System Project and consistent with the Inland Empire Utilities Agency (IEUA) SCADA Master Plan, the control systems at each IEUA treatment plant have been migrated to the standardized software platform, Rockwell PlantPAx, except at the Regional Recycling Plant No.1 (RP-1) in which DeviceNet is the communication protocol that is currently used. The RP-1 SCADA Migration construction phase will start in Spring 2023, and new technology installed as part of this project will not support DeviceNet. Additionally, DeviceNet is being discontinued by Rockwell, and better protocols, such as Ethernet, are available. The purpose of this project is to develop a design to replace all devices that are using DeviceNet throughout RP-1. These devices include VFD drives, DeviceNet starter auxiliaries, and Electronic Overload Relays located in Motor Control Centers.

On October 12, 2022, IEUA issued a request for proposals to design consultants listed on PlanetBids. On November 30, 2022, IEUA received two proposals. The IEUA evaluation panel determined that the most qualified consultant was Eramosa International Inc., with a design fee of \$465,918.

Staff's Recommendation:

1. Award a design consultant contract for the RP-1 DeviceNet Replacement, Project No. EN23000, to Eramosa International Inc., for the not-to-exceed amount of \$465,918; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

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

Account/Project Name:

EN23000/RP-1 DeviceNet Replacement

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

None.

Environmental Determination:

Not Applicable

Business Goal:

The RP-1 DeviceNet Replacement Project is consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management objective that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainability managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachments:

Attachment 1 - PowerPoint Presentation

Attachment 2 - Contract ([Click to Download](#))

Attachment 1



RP-1 DeviceNet Replacement

Design Consultant Contract Award

Project No. EN23000

Pierre Cayatte, P.E.

Senior Engineer

February 2023

Project Location: Regional Water Recycling Plant No.1



Project Background

- DeviceNet is a communication protocol
 - Interconnects lower-level devices with higher-level devices
 - Such as sensors and flowmeters with Programmable Logic Controllers (PLCs)
- DeviceNet is used throughout RP-1
- RP-1 SCADA Migration project will transition from DeviceNet to new technology
- Replace all devices that are using DeviceNet
 - Approximately 250 devices



Design Services Scope of Work

- Evaluate the age and quality of existing Motor Control Center (MCCs)
 - Determine if the MCCs need to be replaced or only their overloads relays
- Evaluate, recommend and provide complete design
- Evaluate, verify, and update Process Control Narratives (PCNs)
 - Adapt to current conditions for each DeviceNet device that will be upgraded.
- Provide recommendations for programming services for all DeviceNet device upgrades

Consultant Selection

- On November 30, 2022, IEUA received two proposals
- All proposals were carefully reviewed by a committee review panel
- Qualifications Based Selection:
 - Project team qualifications, creative alternatives, consulting related experience, project schedule, man-hour distribution

Consultant	Proposal Fee
Eramosa International, Inc.	\$465,918
GHD, Inc.	Not Opened

Project Budget and Schedule

Description	Estimated Cost
<i>Design Services</i>	\$732,228
Design Services (Action)	\$465,918
IEUA Project Management (10%)	\$266,310
<i>Construction Services</i>	\$332,888
Engineering Services During Construction (8%)	\$213,048
IEUA Construction Services (4.5%)	\$119,840
<i>Construction</i>	\$2,663,100
Construction Contract Estimate	\$2,421,000
Project Contingency (10%)	\$242,100
Total Project Cost:	\$3,728,216
Current Total Project Budget:	\$4,100,000

Project Milestone	Date
<i>Design</i>	
Consultant Design Contract Award	February 2023
Design Completion	November 2023
<i>Construction</i>	
Construction Contract Award	February 2024
Construction Completion	September 2025



Staff's Recommendation

- Award a design contract for the RP-1 DeviceNet Replacement, Project No. EN23000, to Eramosa International, Inc. in the amount of \$465,918; and
- Authorize the General Manager to execute the contract, subject to non-substantive changes.

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

**ACTION
ITEM
2A**

Date: February 15, 2023

To: The Honorable Board of Directors

SD
From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

02/08/23

Staff Contact: Christiana Daisy, Deputy General Manager

Subject: RP-1 Headworks Bar Screen System Improvements Design-Build Contract Award

Executive Summary:

Regional Water Recycling Plant No.1 (RP-1) uses four bar screens with a spacing of 5/8-inch to remove material and debris in the influent headworks process. Staff has observed more issues downstream such as mixers seizing and pumps plugging, resulting in process interruptions, equipment downtime, and additional maintenance costs. This project will install IEUA's new standard multi-rake bar screens which have a 3/8-inch spacing that are estimated to increase the capture rate more than 40% which will reduce operating and maintenance costs.

On August 24, 2022, Inland Empire Utilities Agency (IEUA) pre-qualified four design-build teams to bid on the project. The design-build team will prepare and complete design drawings, specifications, process control narratives, construction, commissioning, startup, testing, and training for the new bar screens.

On November 3, 2022, IEUA issued an invitation for bids to the four pre-qualified design-build teams. On December 20, 2022, IEUA received four construction bids. GSE Construction Co., Inc. was deemed the lowest responsive and responsible bidder, with a bid price of \$1,609,900. The engineer's estimate was \$1,700,000.

Staff's Recommendation:

1. Award a design-build contract for the RP-1 Headworks Bar Screen System Improvements, Project No. EN23111, to GSE Construction Co., Inc. in the amount of \$1,609,900; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

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

Account/Project Name:

EN23111/RP-1 Headworks Bar Screen System Improvements

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

On November 16, 2022, the Board of Directors approved the Standardization and Single Source Procurement of Duperon Bar Screens in the amount of \$1,800,232.

Environmental Determination:

Categorical Exemption

CEQA identifies certain categories of projects as exempt from more detailed environmental review because these categories are deemed to have no potential for significant impact on the environment. The project qualifies for a Categorical Exemption Class 2 as defined in Section 15302 of the State CEQA Guidelines.

Business Goal:

The RP-1 Headworks Bar Screen System Improvements Project is consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management and Water Quality objectives that IEUA will ensure that Agency systems are planned, constructed and managed to protect public health, the environment, and meet anticipated regulatory requirements.

Attachments:

Attachment 1 - PowerPoint Presentation

Attachment 2 - Design-Build Contract

Attachment 1

RP-1 Headworks Bar Screen System Improvements

Design-Build Contract Award

Project No. EN23111

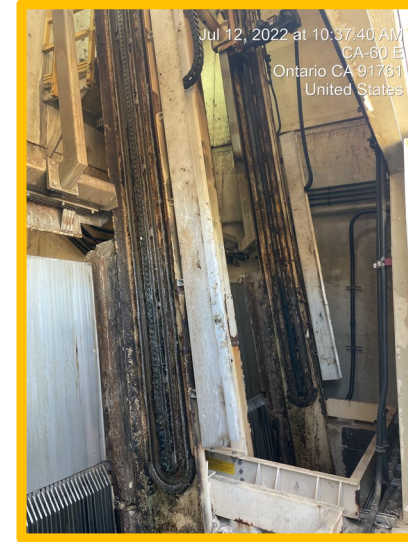
Sandra Salazar, P.E.
Senior Associate Engineer
February 2023

Project Location: Regional Water Recycling Plant No. 1

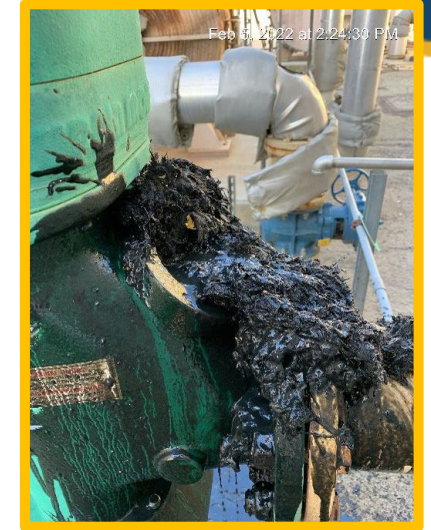


The Project

- Existing bar screens
 - Large screen spacing (5/8-inch)
 - Low capture rate
 - Plugging of downstream pumps
 - Downstream process interruptions
- Scope of Work
 - Prepare design drawings and specifications
 - Install four new multi-rake bar screens
 - Demolish fiberglass bar screen enclosure
 - Integrate new equipment to SCADA



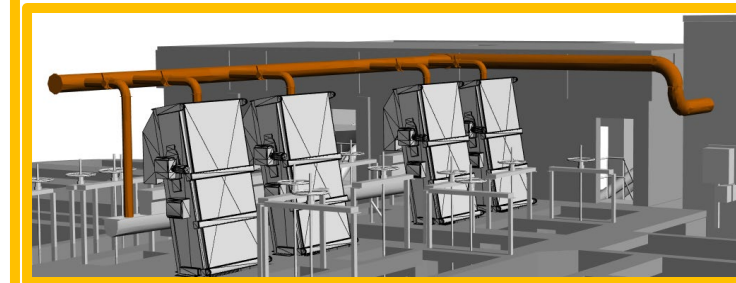
RP-1 Existing Influent Bar Screens



RP-1 Sludge Grinder



Duperon Bar Screens



Sample 3D Model

Contractor Selection

On December 20, 2022, four bids were received:

Design-Build Team	Bid Amount
GSE Construction/MKN Associates	\$1,609,900
J.R. Filanc Construction	\$1,695,165
Garney Pacific/Water Systems Consulting	\$2,223,780
Innovative Construction Solutions/N2W Engineering	\$2,265,000
Engineer's Estimate:	\$1,700,000

Project Budget and Schedule

Description	Estimated Cost
Design Services	\$75,000
Pre-Design & Solicitation (actuals)	\$75,000
Construction Services	\$330,000
Engineering Services During Construction (~10%)	\$165,000
IEUA Construction Services(~10%)	\$165,000
Construction	\$3,410,132
Design-Build Contract (this action)	\$1,609,900
Pre-purchased 4 Duperon Bar Screens	\$1,800,232
Total Project Cost:	\$3,815,132
Current Budget:	\$3,900,000

Project Milestones	Dates
Construction	
Design-Build Contract Award	February 2023
Design Completion	December 2023
Construction Completion	June 2024

Staff's Recommendations

- Award a design-build contract for the RP-1 Headworks Bar Screen System Improvements, Project No. EN23111, to GSE Construction Co., Inc. in the amount of \$1,609,900; and
- Authorize the General Manager to execute the contract, subject to non-substantive changes.

The RP-1 Headworks Bar Screen System Improvements Project is consistent with **IEUA's Business Goal of Wastewater Management**, specifically the Asset Management and Water Quality objectives that IEUA will ensure that Agency systems are planned, constructed and managed to protect public health, the environment, and meet anticipated regulatory requirements.

Attachment 2

4600003231

RP-1 HEADWORKS BAR SCREENS SYSTEM IMPROVEMENTS CONTRACT

THIS CONTRACT, made and entered into this 15 day of February, 2023, by and between GSE Construction Company Inc., hereinafter referred to as "DESIGN BUILD ENTITY," and The Inland Empire Utilities Agency, a Municipal Water District, located in San Bernardino County, California, hereinafter referred to as "IEUA".

WITNESSETH:

That for and in consideration of the promises and agreements hereinafter made and exchanged, IEUA and the DESIGN BUILD ENTITY agree as follows:

- A.** DESIGN BUILD ENTITY agrees to perform and complete in a workmanlike manner, all Work required under these Bid Documents FOR **IFB-JV-22-011, Project EN23111, RP-1 Headworks Bar Screens System Improvements**, in accordance with the Bid Documents, and to furnish at their own expense, all labor, materials, equipment, tools, and services necessary, except such materials, equipment, and services as may be stipulated in said Bid Documents to be furnished by IEUA, and to do everything required by this Contract and the said Bid Documents.
- B.** For furnishing all said labor, materials, equipment, tools, and services, furnishing and removing all plant, temporary structures, tools and equipment, and doing everything required by this Contract and said Bid Documents; also for all loss and damage arising out of the nature of the Work aforesaid, or from the action of the elements, or from any unforeseen difficulties which may arise during the prosecution of the Work until its acceptance by IEUA, and for all risks of every description connected with the Work; also for all expenses resulting from the suspension or discontinuance of Work, except as in the said Bid Documents are expressly stipulated to be borne by IEUA; and for completing the Work in accordance with the requirements of said Bid Documents, IEUA will pay and said DESIGN BUILD ENTITY shall receive, in full compensation therefore, the price(s) set forth in this Contract.
- C.** That IEUA will pay the DESIGN BUILD ENTITY progress payments and the final payment, in accordance with the provisions of the Contract Documents, with warrants drawn on the appropriate fund or funds as required, at the prices bid in the Bidding and Contract Requirements, Section C - BID FORMS and accepted by IEUA, and set forth in this below.

Total Bid Price: \$1,609,900 Dollars and 00 Cents.

If this is not a lump sum bid and the Contract Price is dependent upon the quantities constructed, IEUA will pay and said DESIGN BUILD ENTITY shall receive, in full compensation for the Work the prices named in the Bidding and Contract Requirements, Section C - BID FORMS.

- D. IEUA hereby employs the DESIGN BUILD ENTITY to perform the Work according to the terms of this Contract for the above-mentioned price(s), and agrees to pay the same at the time, in the manner, and upon the conditions stipulated in the said Bid Documents; and the said parties for themselves, their heirs, executors, administrators, successors, and assigns, do hereby agree to the full performance of the covenants herein contained.
- E. The Notice Inviting Bids, Instructions to Bidders, Bid Forms, Information Required of Bidder, Performance Bond, Payment Bond, DESIGN BUILD ENTITY's License Declaration, Specifications, Drawings, all General Conditions, Special Conditions and all Project Requirements, and all Addenda issued by IEUA with respect to the foregoing prior to the opening of bids, are hereby incorporated in and made part of this Contract, as if fully set forth.
- F. The DESIGN BUILD ENTITY agrees to commence Work under this Contract on or before the date to be specified in a written "Notice To Proceed" and to complete said Work to the satisfaction of IEUA **five hundred (500) calendar** days after Award of the Contract. All Work shall be completed before final payment is made.
- G. Time is of the essence on this Contract.
- H. DESIGN BUILD ENTITY agrees that in case the Work is not completed before or upon the expiration of the Contract Time, damage will be sustained by IEUA, and that it is and will be impracticable to determine the actual damage which IEUA will sustain in the event and by reason of such delay, and it is therefore agreed that the DESIGN BUILD ENTITY shall pay to IEUA the amounts as set forth in General Conditions, Section C – CHANGES TO THE CONTRACT for each day of delay, which shall be the period between the expiration of the Contract Time and the date of final acceptance by IEUA, as liquidated damages and not as a penalty. It is further agreed that the amount stipulated for liquidated damages per day of delay is a reasonable estimate of the damages that would be sustained by IEUA, and the DESIGN BUILD ENTITY agrees to pay such liquidated damages as herein provided. In case the liquidated damages are not paid, the DESIGN BUILD ENTITY agrees that IEUA may deduct the amount thereof from any money due or that may become due to the DESIGN BUILD ENTITY by progress payments or otherwise under the Contract, or if said amount is not sufficient, recover the total amount.

- I. In addition to the liquidated damages, which may be imposed if the DESIGN BUILD ENTITY fails to complete the Work within the time agreed upon, IEUA may also deduct from any sums due or to become due to the DESIGN BUILD ENTITY, penalties and fines for violations of applicable local, state, and federal law.
- J. That the DESIGN BUILD ENTITY shall carry Workers' Compensation Insurance and require all subcontractors to carry Workers' Compensation Insurance as required by the California Labor Code.
- K. That the DESIGN BUILD ENTITY shall have furnished, prior to execution of the Contract, two bonds approved by IEUA, one in the amount of one hundred (100) percent of the Contract Price, to guarantee the faithful performance of the Work, and one in the amount of one hundred (100) percent of the Contract Price to guarantee payment of all claims for labor and materials furnished.
- L. The DESIGN BUILD ENTITY hereby agrees to protect, defend, indemnify and hold IEUA and its employees, Engineers, agents, officers, directors, servants and volunteers free and harmless from any and all liability, claims, judgments, costs and demands, including demands arising from injuries or death of persons (including employees of IEUA and the DESIGN BUILD ENTITY) and damage to property, arising directly or indirectly out of the obligation herein undertaken or out of the operations conducted by the DESIGN BUILD ENTITY, its employees agents, representatives or subcontractors under or in connection with this Contract to the fullest extent permitted by law.

The DESIGN BUILD ENTITY further agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands or suit at the sole expense of the DESIGN BUILD ENTITY

IN WITNESS WHEREOF, The DESIGN BUILD ENTITY and the General Manager of Inland Empire Utilities Agency*, thereunto duly authorized, have caused the names of said parties to be affixed hereto, each in duplicate, the day and year first above written.

- M. The DESIGN BUILD ENTITY, by signing the contract does swear under penalty of perjury that no more than one final unappeasable finding of contempt of court by a Federal court has been issued against the DESIGN BUILD ENTITY within the immediately preceding two year period because of the DESIGN BUILD ENTITY's failure to comply with an order of a Federal court which orders the DESIGN BUILD ENTITY to comply with an order of the National Labor Relations Board (Public Contract Code 10296).

Inland Empire Utilities Agency*,
San Bernardino County, California.

By _____
Shivaji Deshmukh
General Manager

DESIGN BUILD ENTITY

DocuSigned by:
By *Dennis Gutierrez* _____
Dennis Gutierrez
28927D0A79964B9

President
Title

* *A Municipal Water District*

INFORMATION
ITEM
3A

Planning & Resources Department Quarterly Update

Pietro Cambiaso

Manager of Compliance and Sustainability

February 2023

Topics

- Optimum Basin Management Program Update (OBMPU)
- Chino Basin Water Bank
- Basin Monitoring Program Task Force

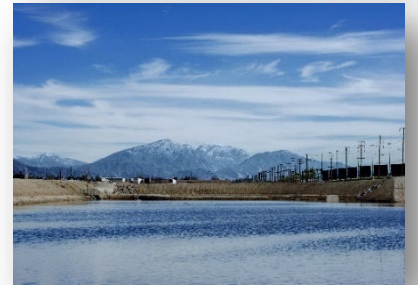
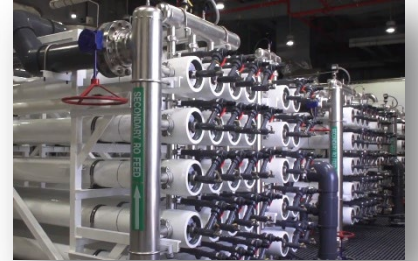
Optimum Basin Management Program (OBMP)

2000 OBMP is a regional water resources and groundwater management program to improve reliability and long-term sustainability of the Chino Basin

- Required component of the Judgment
- Led by Chino Basin Watermaster, in collaboration with Basin stakeholders
- Goals include enhancing basin water supplies, water quality, basin management, and equitably financing the OBMP

OBMP Program Environmental Impact Report (PEIR)

- IEUA Board adopted the OBMP Program Environmental Impact Report as the lead agency in July 2000
- Enabled implementation of water resources programs with significant grant funding and low interest loans



Optimum Basin Management Program Update (OBMPU)

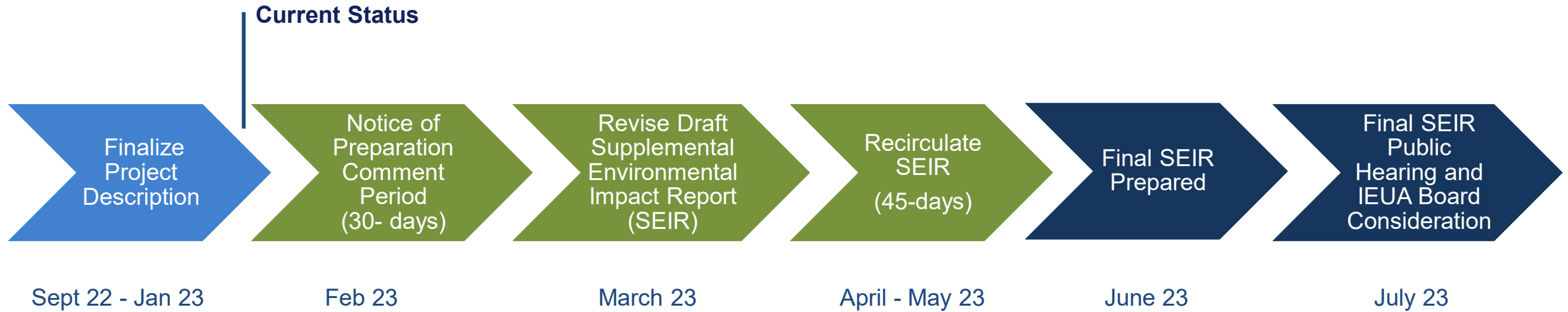
2020 Optimum Basin Management Program Update (OBMPU) is intended to address possible program activities and projects at a programmatic level over the next 30 years

- Many of the programs from the 2000 OBMP have been implemented
- Understanding of Chino Basin hydrology has improved and new challenges in water management have been identified
- OBMPU addresses the new challenges, protects stakeholders' collective interests, and maintains water supply reliability
- OBMPU establishes an appropriate environmental baseline for both new and revised facilities for the near future, which is required by state and federal agencies that provide funding

OBMPU Project Description

- Project Description and exhibits have been revised and finalized
 - Projects proposed by stakeholders were added and categorized by the Program Element
 - Compiled potential projects and associated facilities for each Program Element
 - Identified specific locations where possible
 - Modifications were made of to the summary of all facilities
- Chino Basin Watermaster transmittal of the Project Description to IEUA for consideration and approval (January 2023)

OBMPU CEQA Proposed Schedule



Chino Basin Water Bank

- Coordinated storage and recovery program within the Chino Basin
- Joint Powers Authority established in 2017
 - City of Ontario
 - Cucamonga Valley Water District
 - Monte Vista Water District
 - Inland Empire Utilities Agency
- Work accomplished to date
 - Determining the feasibility of the concepts
 - Identifying and evaluating alternative scenarios ranging in the size of storage, number of participants, and infrastructure needed to support the program
- Next Steps
 - Finalizing the Water Marketing Strategy document (currently in Final Draft)
 - Prepare and submit Final Report to US Bureau of Reclamation (USBR) (April 2023)
 - Receive final grant reimbursement

Basin Monitoring Program Task Force Background

- 20 Agency collaborative effort organized by SAWPA
- Formed in 2004 to address water quality issues in the Santa Ana River Watershed
- Monitors water quality (TDS and Nitrogen) in both surface water and groundwater to determine if standards are being met
- Assesses if assimilative capacity, the ability of the groundwater basin to absorb additional pollutants without violating water quality standards, exists in groundwater basin
- Wasteload allocation report for TDS and N every 5-10 years
 - Provides guidance to the Regional Water Quality Control Board in establishing discharge permits for water recycling plants along the river

Basin Monitoring Program Task Force Update

- Final Groundwater Monitoring Program to the Regional Board (March 2023)
 - Define wells to be monitored and responsible parties
 - Identify data gaps
 - Define actions (and timeline) to improve monitoring networks to fill data gaps
- Initiate Ambient Water Quality Pilot Study (January 2023)
 - Assess current ambient water quality methodology
 - Submit final report by October 2023

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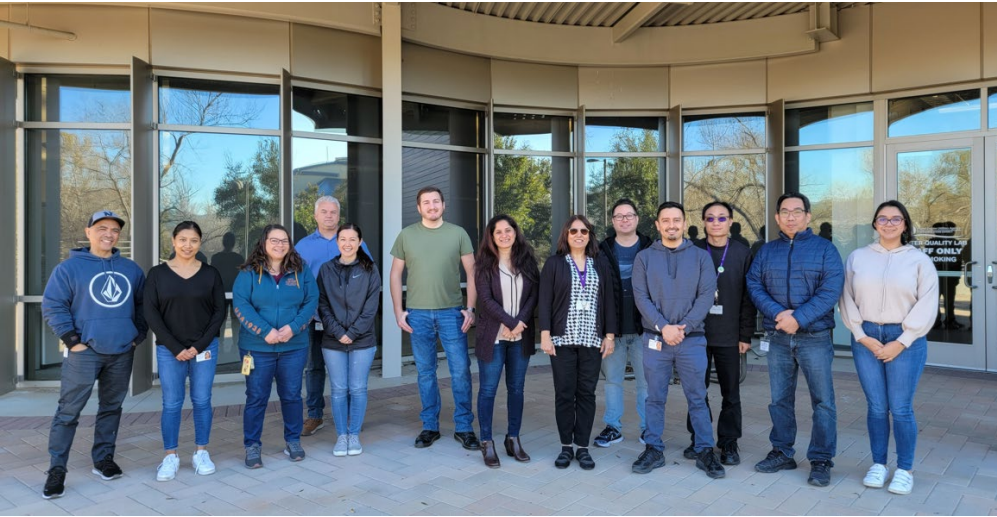


Laboratory Semi-Annual Update



Sushmitha Reddy
Manager of Laboratories
February 2023

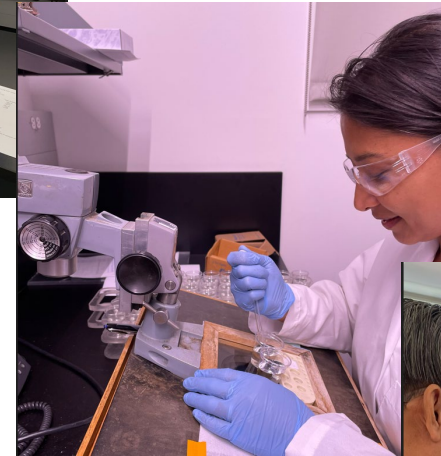
2022 Saw Significant Successes for IEUA Lab



- Renewed Accreditation
 - Onsite Assessment
 - Annual Performance Evaluation Testing
 - November 1,2022 - October 31,2024
- Southern California Coastal Water Research Project (SCCWRP) Toxicity split sample study
- Added Scope of testing
 - PFAS
 - Additional disinfection byproducts
- New National Pollutant Discharge Elimination System (NPDES) permit
- Reappointment of Sushmitha Reddy to Environmental Laboratory Technical Advisory Committee (ELTAC) for an additional term (2022-2024)

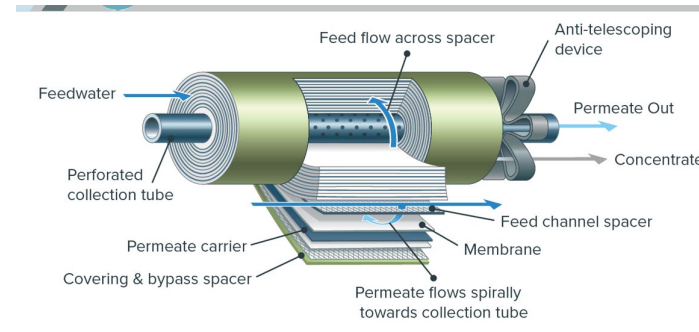
NPDES Challenges Remain Consistent

- Title 22 Parameters
 - No accredited methods or labs for wastewater
- 1,2,3 Trichloropropane (1,2,3 TCP)
 - 5 ng/L, difficult matrix
- Toxicity Provisions
 - Alternate method: Test of Significant Toxicity (TST)
 - Unapproved by EPA and CA
 - Sampling by 15th of each month

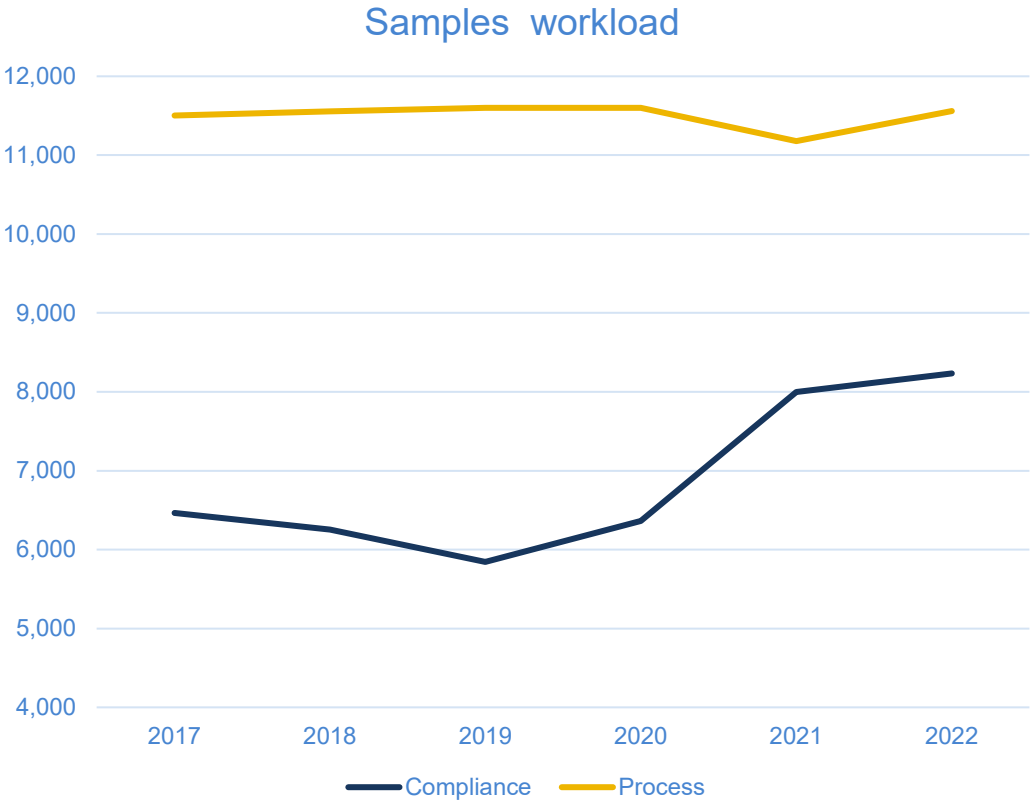
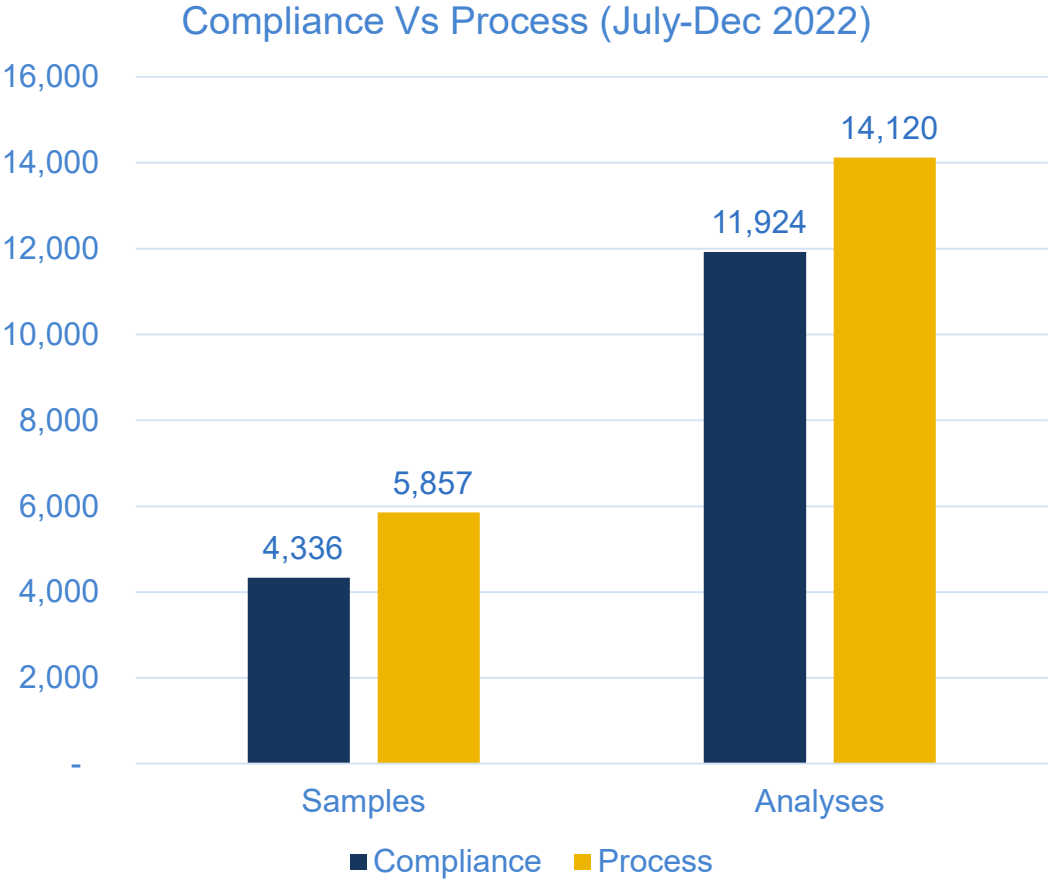


Laboratory Tasked with New Projects in 2022

- 1,2,3 TCP Investigation
- Jar Test
 - Optimize chemical usage for controlling sulfides for reduced solids
- South Archibald Plume TCE Plume
- Advanced Water Treatment Facility (AWTF) - wastewater characterization



Compliance Testing Increased Over Last Five Years



IEUA Laboratory Performance on Target

Key Performance Indicators - 2022

Performance Indicator		Goal	Actual
Sample Turnaround Time	Compliance	18 days	16
	Process Control	1 day	1
Meet sample holding times		99%	>99%
Quality Control Failures		<1%	<1%
ELAP Performance Evaluation sample repeats*		0	NA
Lost time accidents		0	3



*Annual: Estimated time of completion October 2023

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RP-5 Expansion Project Update February 2023

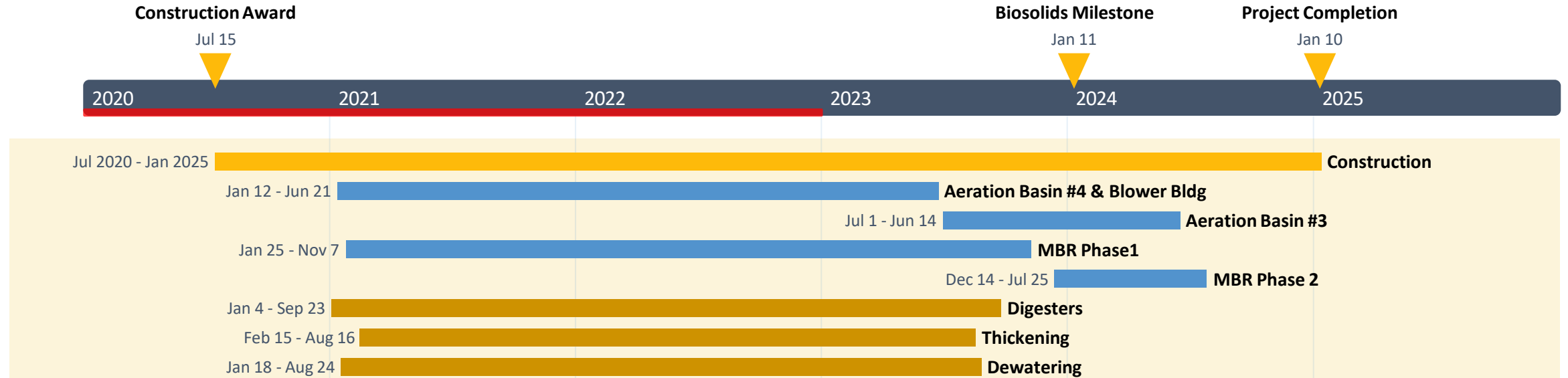
Project Nos. EN19001 and EN19006

Vicky Salazar, Sr. Associate Engineer

February 2023

RP-5: Project Status

Day 930 of 1640 = 57%



Role	Firm	Contract	This Month's Payment	Total Paid	% Complete
Contractor	WM Lyles	\$336,854,218	\$5,731,395	\$196,863,194	58%
Designer	Parsons	\$36,833,185	\$201,678	\$32,588,627	88%
Construction Management	Arcadis	\$21,125,523	\$318,345	\$10,787,039	51%

Data date: 1/31/2022

RP-5: Major Activity Areas



Construction Staff

- WML Craft: 125
- WML Project: 32
- IEUA & CM: 15
- Total: 172

RP-5: Major Activities



Influent Pump Station

RP-5: Major Activities



Grit Chamber



Fine Screens

RP-5: Major Activities



Main Odor Control Facility

RP-5: Major Activities



Aeration Low Pressure (ALP) Line

RP-5: Major Activities



Gas Phase Digesters

RP-5: Major Activities



Gas Phase Digester Building

RP-5: Major Activities



Thickenning Building

RP-5: Major Activities



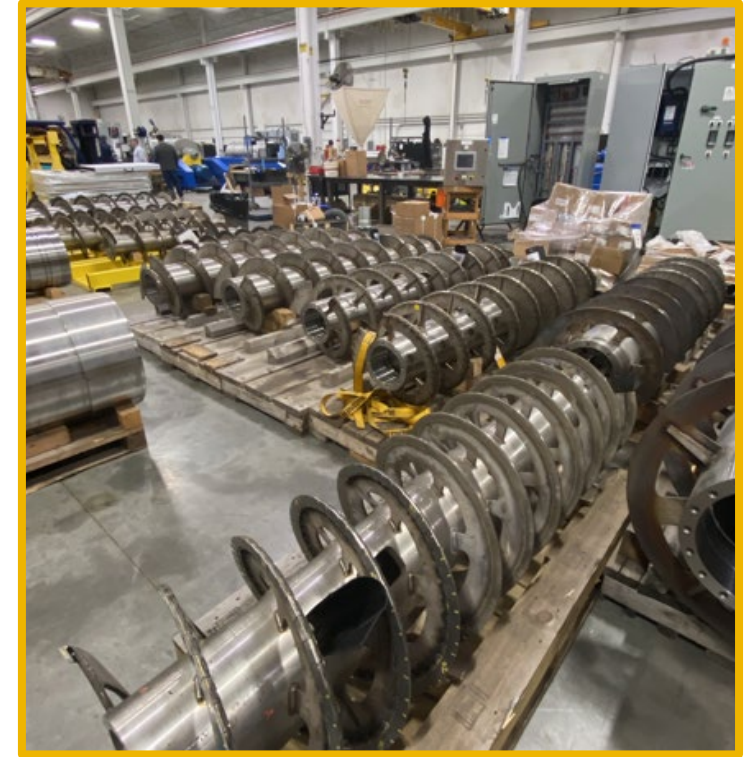
Dewatering Building

RP-5: Major Activities – Centrifuge Factory Testing

- Centrifuge System
 - Manufacturer: Centrisys
 - Total 5 Units
 - Capacity: 250-350 GPM
 - Hydraulic Back Drive (scroll)
 - Total Value: \$4.2M
 - Arrive On-Site Value: \$3.4M
- Factory testing
 - 3 days programming/controls
 - 3 days mechanical
 - Kenosha, Wisconsin



RP-5: Major Activities – Centrifuge Factory Testing



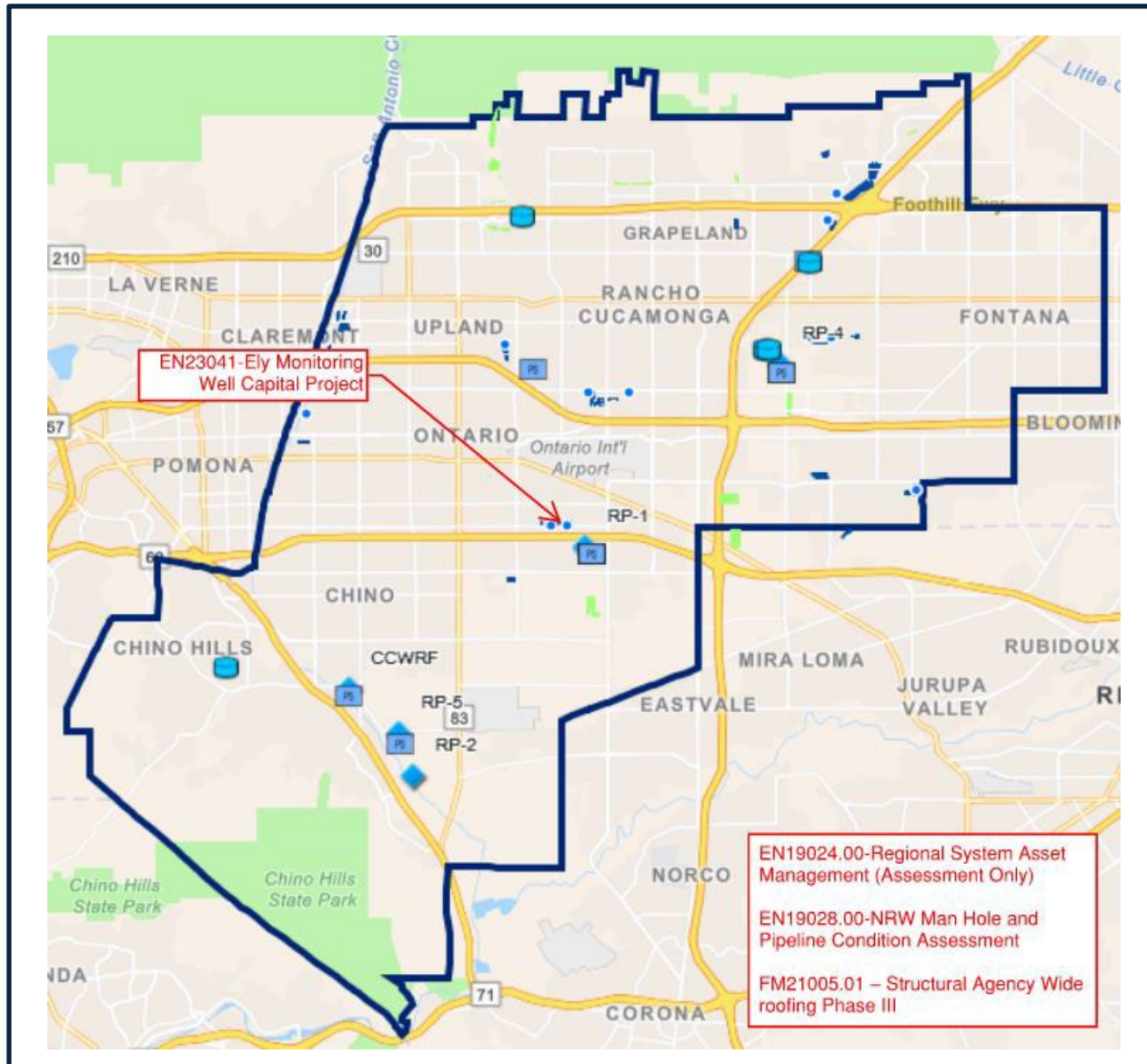
Questions?



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Engineering and Construction Management Project Updates

Jason Marseilles, PE
Manager of Engineering & Construction Management
February 2023



Project Location Map

Collection System Asset Management

Project Goal: Extend Asset Life

Total Project Budget: \$5.1M

Project Completion: February 2023

Condition Assessment Percent Complete: 85%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Condition Assessment	CDM Smith	\$3.6 M	25%
Project Management Team			
Project Manager:	Ignacio, Joel		
Assistant/Associate Engineer:	Ward, Ryan		
Administrative Assistant:	Olsen, Wendy		
Inspector:	GK & Associates		



Sewer Bypass - Above Grade Piping

Ely Monitoring Well Capital Project

Project Goal: Improve Ground Water Quality and Compliance



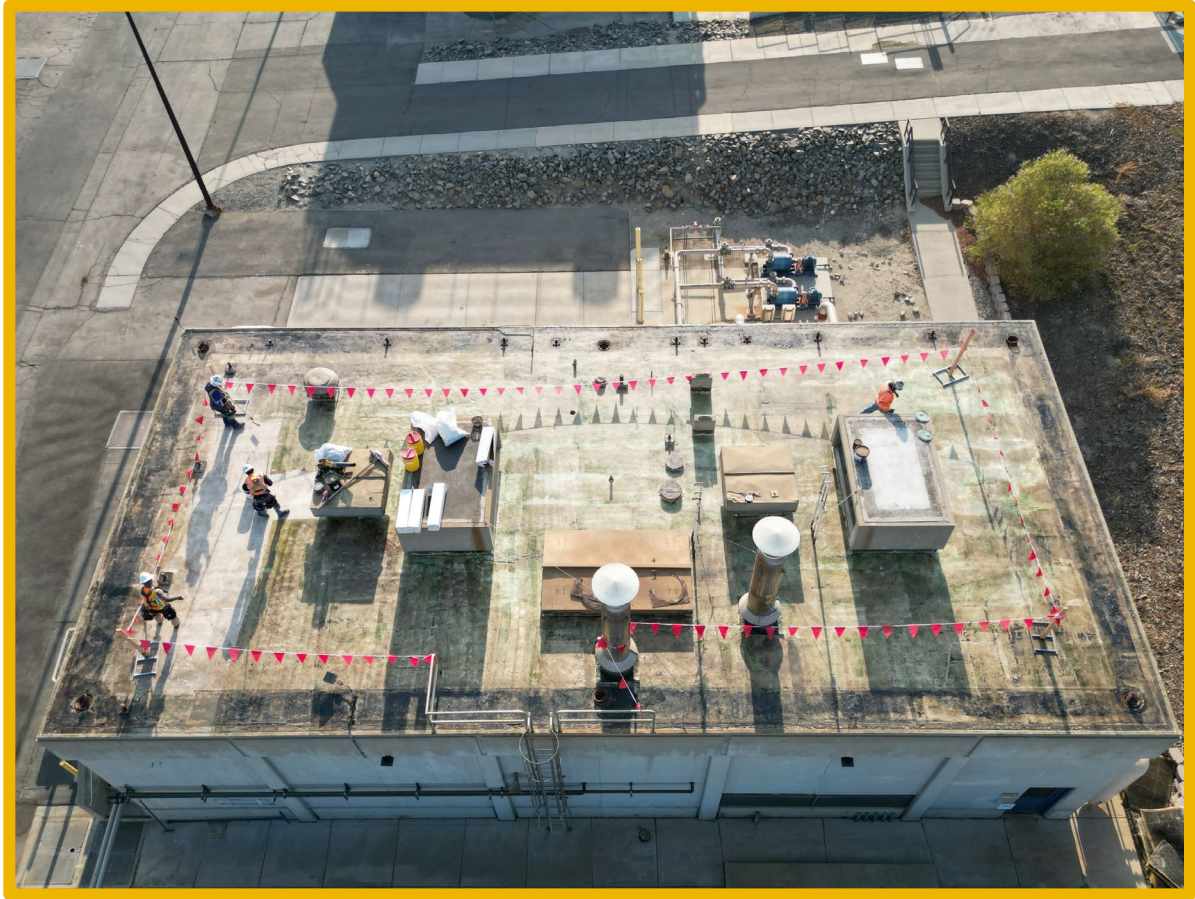
Ely Basin Partial View

Total Project Budget: \$600k
Project Completion: August 2023
Construction Percent Complete: 0%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design	GHD	\$140k	0%
Construction (Current)	Yellow Jacket Drilling	\$394k	0%
Project Management Team			
Project Manager:		Zughbi, Jamal	
Assistant/Associate Engineer:		Gomez, Christian	
Administrative Assistant:		WSP	
Inspector:		MWH Constructors	

Structural Agency Wide Roofing Phase III

Project Goal: Extend Asset Life



RP-1 RAS 1 Building New Roof

Total Project Budget: \$1.9M
Project Completion: February 2023
Construction Percent Complete: 90%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design	GPA	\$86k	0%
Construction (Current)	Best Contracting Svc.	\$1.5M	1.2%
Project Management Team			
Project Manager:		Biesiada, Josh	
Assistant/Associate Engineer:		Frabizio, Julianne	
Administrative Assistant:		Anser Advisory	
Inspector:		GK & Associates	