

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

WEDNESDAY, JANUARY 12, 2022 10:00 A.M.

INLAND EMPIRE UTILITIES AGENCY* VIEW THE MEETING LIVE ONLINE AT IEUA.ORG TELEPHONE ACCESS: <u>(415) 856-9169 / Conf Code: 813 028 107#</u>

PURSUANT TO AB361 AND RESOLUTION NO. 2022-1-1, ADOPTED BY THE IEUA BOARD OF DIRECTORS ON JANUARY 5, 2022, IEUA BOARD AND COMMITTEE MEETINGS WILL CONTINUE TO BE CONDUCTED THROUGH TELECONFERENCE. IN AN EFFORT TO PROTECT PUBLIC HEALTH AND PREVENT THE SPREAD OF COVID-19, THERE WILL BE NO PUBLIC LOCATION AVAILABLE FOR ATTENDING THE MEETING IN PERSON.

The public may participate and provide public comment during the meeting by dialing into the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at <u>dgarzaro@ieua.org</u> 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. <u>Comments will be limited to three minutes per speaker</u>. 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.

Engineering, Operations, & Water Resources Committee January 12, 2022 Page 2

1. <u>CONSENT ITEMS</u>

A. <u>MINUTES</u>

Approve Minutes of the November 10, 2021 Engineering, Operations, and Water Resources Committee meeting.

B. BRINE SEWER SYSTEM AND REGIONAL SEWER SYSTEM MANHOLE UPGRADES CONSTRUCTION CONTRACT AWARD Staff recommends that the Committee/Board

Staff recommends that the Committee/Board:

- 1. Award a construction contract for the BSS Manhole Upgrades, Project Nos. EN22014 and EN22015, to Genesis Construction Co., in the amount of \$367,777; and
- 2. Authorize the General Manager to execute the contract, subject to nonsubstantive changes.

C. <u>PHILADELPHIA FORCE MAIN IMPROVEMENTS CONSULTANT</u> CONTRACT AMENDMENT

Staff recommends that the Board:

- 1. Approve a consultant contract amendment for the Philadelphia Force Main Improvements, Project No. EN23002, to GHD Inc., for the not-toexceed amount of \$163, 277, increasing the contract from \$1,262,002 to \$1,425,279 (11% increase); and
- 2. Authorize the General Manager to execute the consultant contract amendment, subject to non-substantive changes.

2. INFORMATION ITEMS

- A. OPERATIONS DIVISION QUARTERLY UPDATE (POWEROINT)
- B. <u>CITY OF RIALTO PRINCIPLES OF AGREEMENT FOR EXTERNAL</u> <u>RECYCLED WATER SUPPLIES (WRITTEN/POWERPOINT)</u>
- C. <u>2ND QUARTER STRATEGIC PLANNING & RESOURCES UPDATE</u> (POWERPOINT)
- D. <u>RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)</u>

RECEIVE AND FILE INFORMATION ITEMS

E. <u>ENGINEERING AND CONSTRUCTION MANAGEMENT PROJECT</u> <u>UPDATES (POWERPOINT)</u> Engineering, Operations, & Water Resources Committee January 12, 2022 Page 3

3. GENERAL MANAGER'S COMMENTS

4. <u>COMMITTEE MEMBER COMMENTS</u>

5. 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 <u>www.ieua.org</u> 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 <u>dgarzaro@ieua.org</u>, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

Engineering, Operations, and Water Resources Committee

CONSENT ITEM **1A**



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

WEDNESDAY, NOVEMBER 10, 2021 10:00 A.M.

COMMITTEE MEMBERS PRESENT via Video/Teleconference

Michael Camacho, Chair Marco Tule, Director

STAFF PRESENT

Shivaji Deshmukh, General Manager Christiana Daisy, Deputy General Manager Denise Garzaro, Board Secretary/Office Manager Daniel Solorzano, Network Administrator

STAFF PRESENT via Video/Teleconference

Kathy Besser, Executive Manager of External & Government Affairs/AGM Javier Chagoyen-Lazaro, Acting Executive Manager of Finance & Administration/AGM Randy Lee, Executive Manager of Operations/AGM Christina Valencia, Executive Manager of Finance & Administration/AGM Adham Almasri, Principal Engineer Jerry Burke, Manager of Engineering Andrea Carruthers, Manager of External Affairs Lucia Diaz, Deputy Manager of Maintenance Christian Gomez, Associate Engineer Warren Green, Manager of Contracts, Procurement & Risk Services Jennifer Hy-Luk, Acting Executive Assistant Ryan Love, Deputy Manager of Operations Jason Marseilles, Deputy Manager of Engineering Cathleen Pieroni, Manager of Inter-Agency Relations Jeanina Romero, Executive Assistant James Spears, Senior Engineer Frank Sotomayor, Facilities Program Supervisor Travis Sprague, Principal Engineer Yvonne Taylor, Administrative Assistant II Brian Wilson, Senior Engineer Teresa Velarde, Manager of Internal Audit Jamal Zughbi, Senior Engineer/Project Manager P.E.

CALL TO ORDER

Committee Chair Michael Camacho called the meeting to order at 10:02 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.

Engineering, Operations, and Water Resources Committee November 10, 2021 Page 2

1A -1D. CONSENT ITEMS

The Committee:

- Approved Minutes of the October 13, 2021 Engineering, Operations, and Water Resources Committee meeting.
- Recommended that the Board:
 - Approve the award of Contract No. 4600003083 to Priority Building Services, LLC to provide Janitorial Services for a total contract price not-to-exceed amount of \$1,800,000 over five years with a fixed price period of two years with three oneyear options to extend with CPI increases; and
 - 2. Authorize the General Manager to execute the service contract.
- ♦ and
 - 1. Award a construction contract for the Agency-Wide Chemical Containment Rehabilitation Phase 2, Project No. EN22043, to Techno Coating Inc., in the amount of \$238,112; and
 - 2. Authorize the General Manager to execute the construction contract, subject to non-substantive changes.
- and
 - 1. Approve a construction change order for the RP-1 Flare Improvement, Project No. EN18006, to W.M. Lyles Co., for the not-to-exceed amount of \$157,857, increasing the contract from \$5,914,408 to \$6,072,265 (approximately 2.6% increase); and
 - 2. Amend the total project budget for the RP-1 Flare Improvement, Project No. EN18006, in the amount of \$1,550,000, increasing the budget from \$7,650,000 to \$9,200,000 (20% increase) in the Regional Capital Fund; and
 - 3. Authorize the General Manager to execute the change order and the budget amendment, subject to non-substantive changes.

as Consent Calendar items on the November 17, 2021 Board meeting agenda.

2A. ACTION ITEM

The Committee:

- Recommended that the Board:
 - 1. Approve the award of Contract No. 4600003080 to Adam's Falconry Service, LLC to provide RP-5 Bird Abatement Services for a total contract price not-to-exceed amount of \$195,000 over three years with two one-year options to extend; and
 - 2. Authorize the General Manager to execute the service contract.

as a Consent Calendar item on the November 17, 2021 Board meeting agenda.

Engineering, Operations, and Water Resources Committee November 10, 2021 Page 3

3A – 3C. INFORMATION ITEMS

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

- RP-5 Expansion Project Update: November 2021
- Engineering and Construction Management Project Updates
- Strategic Planning & Resources Annual Report Revised for November 2021

4. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that in honor of Veteran's Day, the Agency would like to highlight and recognize all IEUA's veterans and military reserve members for their service. The Agency is honored to have these brave individuals as members of the IEUA team. In addition, on Thursday, veterans Joshua Oelrich, Kyle Jones and Allen Jones will be featured on IEUA's social media channels representing the Agency.

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 10:25 a.m.

Respectfully submitted,

Denise Garzaro Board Secretary/Office Manager

*A Municipal Water District

APPROVED: JANUARY 12, 2022

Engineering, Operations, and Water Resources Committee

CONSENT ITEM **1B**



Date: January 19, 2022

SSD **To:** The Honorable Board of Directors From: Shivaji Deshmukh, General Manager 01/12/22 Committee: Engineering, Operations & Water Resources

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: Brine Sewer System and Regional Sewer System Manhole Upgrades Construction Contract Award

Executive Summary:

Inland Empire Utilities Agency (IEUA) is responsible for operating and maintaining the Brine Sewer System (BSS) and Regional Sewer System (RSS) throughout the cities of Fontana, Upland, Montclair, Rancho Cucamonga, Ontario, and Chino, as well as the unincorporated areas of San Bernardino County. IEUA's collection crews are tasked with maintaining the existing systems via numerous manholes that have been in service for many years. Many of the existing manholes are showing signs of deterioration and sulfide damage. To address the deterioration, IEUA implemented a manhole upgrade program that has spanned several fiscal years and is anticipated to continue until all manholes have been inspected and upgraded, if required. This project will install 61 pre-purchased manhole frames and covers at various locations within the cities of Ontario, Rancho Cucamonga, Fontana, and Chino. The project design was completed in-house via collaboration between the Engineering and Construction Management Department and the Operations Division's Collections Team.

On November 4, 2021, IEUA issued an invitation for bids from the under \$2,000,000 pre-qualified contractors. On December 2, 2021, IEUA received three construction bids. Genesis Construction Co. was the lowest, responsible bidder with a bid price of \$367,777 which was under the Engineer's estimate of \$398,000.

Staff's Recommendation:

1. Award a construction contract for the BSS Manhole Upgrades and RSS Manhole Upgrades, Project No's. EN22014 and EN22015, to Genesis Construction Co., in the amount of \$367,777; 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:

EN22014/BSS Manhole Upgrades FY21/22 EN22015/RSS Manhole Upgrades FY21/22

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

None.

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 BSS Manhole Upgrades and RSS Manhole Upgrades Projects are consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management and Water Quality objectives, that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachments:

Attachment 1 - PowerPoint Attachment 2 - Contract

Attachment 1



Regional and Brine Sewer System Manhole Upgrades Construction Contract Award Projects EN22014 & EN22015

Megan Trott, P.E. Associate Engineer January 2022

Project Locations



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

Project Background/Scope

Background

- 61 deteriorated cast iron manhole frames and covers
- IEUA pre-purchased new composite manhole frames and covers.

EN22014: BSS Manhole Upgrades

- 17 manholes require frame and cover replacement
- 1 manhole requires relining
- 3 manholes will need to be located

EN22015: RSS Manhole Upgrades

- 44 manholes require frame and cover replacement
- 1 manhole requires relining
- 22 manholes will need to be located



nland Empire Utilities Agency

GIS – IEUA Manholes

915 ft Jurupa St urupa St . 899 ft Vanderbilt St Inspection History: 7/9/2020 MANHOLE ID FI-069 STAFF Daniel Jauregui DATE OF INSPECTION 7/9/2020 MAP NOTE TRAFFIC CONTROL No 885 ft SHELF DETAIL Serviceable CHANNEL DETAIL Serviceable DEBRIS DETAIL Clean FLOW DEPTH 1/4" Pipe VERMIN DETAIL 15 COVER/FRAME RATING 5 - Failing (Immediate) INTERIOR RATING 3 - Moderate (3 Years) ...

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT **Contractor Selection**



On December 2, 2021, three bids were received:

Bidder's Name	EN22014	EN22015	Additive Items	Total
Genesis Construction	\$100,316	\$231,397	\$36,064	\$367,777
Ferreira Construction	\$85,000	\$231,400	\$62,200	\$378,600
Norstar Plumbing & Engineering	\$135,000	\$315,000	\$66,000	\$516,000
Engineer's Estimate	\$98,000	\$252,000	\$48,000	\$ 398,000

Project Budget and Schedule

Description	EN22014 Estimated Cost	EN22015 Estimated Cost
Design Services	\$11,997	\$14,252
IEUA Design Services (Actuals)	\$11,997	\$14,252
Construction Services	\$24,900	\$48,655
IEUA Construction Services (20%)	\$24,900	\$48,655
Construction	\$136,950	\$267,605
Construction (This Action)	\$124,500	\$243,277
Contingency (10%)	\$12,450	\$24,328
Total Project Cost	\$173,847	\$330,512
Total Project Budget	\$180,000	\$500,000

Project Milestone	Date
Construction	
Construction Contract Award	January 2022
Construction Completion	May 2022

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

Recommendation



- Award a construction contract for the BSS Manhole Upgrades and RSS Manhole Upgrades, Project No's. EN22014 and EN22015, to Genesis Construction, Co., in the amount of \$367,777; and
- Authorize the General Manager to execute the contract, subject to nonsubstantive changes.

The BSS and RSS Manhole Upgrades Projects are consistent with the *IEUA's Business Goal of Wastewater Management*, specifically the Asset Management and Water Quality objectives that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachment 2

SECTION D - CONTRACT AND RELEVANT DOCUMENTS

1.0 CONTRACT

THIS CONTRACT, made and entered into this <u>19</u> day of <u>January</u>, 20<u>22</u>, by and between <u>Hemet Manufacturing Company</u>, Inc. dba Genesis Construction, hereinafter referred to as "CONTRACTOR," 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 CONTRACTOR agree as follows:

- A. CONTRACTOR agrees to perform and complete in a workmanlike manner, all Work required under these Bid Documents FOR <u>BSS Manhole Upgrades</u> <u>FY21/22 & RSS Manhole Upgrades FY21/22</u>, <u>Project Nos. EN22014/22015</u>, 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 CONTRACTOR shall receive, in full compensation therefore, the price(s) set forth in this Contract.
- **C.** That IEUA will pay the CONTRACTOR 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 for EN22014: <u>\$ One hundred twenty four thousand five hundred</u> Dollars.

and Zero Cents.

Total Bid Price for EN22015: <u>\$_Two hundred</u> forty three thousand two hundred seventy seven Dollars.

and <u>Zero</u> Cents.

- **D.** IEUA hereby employs the CONTRACTOR 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, Contractor's License Declaration, Specifications, Drawings, all General Conditions and 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 CONTRACTOR 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 one hundred and twenty (120) 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. CONTRACTOR 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 CONTRACTOR 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 CONTRACTOR agrees to pay such liquidated damages as herein provided. In case the liquidated damages are not paid, the CONTRACTOR agrees that IEUA may deduct the amount thereof from any money due or that may become due to the CONTRACTOR 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 CONTRACTOR fails to complete the Work within the time agreed upon, IEUA may also deduct from any sums due or to become due to the CONTRACTOR, penalties and fines for violations of applicable local, state, and federal law.
- J. That the CONTRACTOR shall carry Workers' Compensation Insurance and

require all subcontractors to carry Workers' Compensation Insurance as required by the California Labor Code.

- **K.** That the CONTRACTOR 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 CONTRACTOR hereby agrees to protect, defend, indemnify and hold IEUA and its employees, Engineer, 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 CONTRACTOR) and damage to property, arising directly or indirectly out of the obligation herein undertaken or out of the operations conducted by the CONTRACTOR, its employees agents, representatives or subcontractors under or in connection with this Contract to the fullest extent permitted by law.

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

IN WITNESS WHEREOF, The CONTRACTOR 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 CONTRACTOR, 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 CONTRACTOR within the immediately preceding two year period because of the CONTRACTOR's failure to comply with an order of a Federal court which orders the CONTRACTOR to comply with an order of the National Labor Relations Board (Public Contract Code 10296).

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

CONTRACTOR

Hemet Manufacturing Company, Inc. dba Genesis Construction

By __

General Manager Shivaji Deshmukh

* A Municipal Water District

DocuSigned by: andace D. Perry By -0A4E3C9CB9E24C2... Candace D. Perry, President Title

Engineering, Operations, and Water Resources Committee

CONSENT ITEM **1C**



Date: January 19, 2022

To: The Honorable Board of DirectorsFrom: Shivaji Deshmukh, General ManagerCommittee: Engineering, Operations & Water Resources01/12/22

SSD

Executive Contact: Christiana Daisy, Deputy General Manager **Subject:** Philadelphia Force Main Improvements Consultant Contract Amendment

Executive Summary:

In July 2018, the Board of Directors awarded a consultant contract to GHD Inc., for the Philadelphia Force Main Improvements Project. During the 50% design review of the initial alignment, the City of Ontario identified various conflicts with the proposed alignment and their future underground improvements. An amendment was issued in February 2020 for GHD to prepare the design for a new alignment. During the review of the 85% design submittal, consistent with the city's requested alignment, Ontario raised additional concerns related to providing additional separation from the existing and the planned utilities within the city streets and public right-of-way. While the concerns and utilities separation can be addressed, the remaining design services contract funds were fully utilized to provide additional exhibits, design materials, feasibility analysis, and engineering support at several meetings between Inland Empire Utilities Agency (IEUA) and Ontario. As a result, an amendment is requested to complete the design and pothole at 60 additional locations to avoid conflicts during construction.

Staff requests an amendment to GHD, Inc., for the additional engineering services during design in the amount of \$163,277, increasing the contract from \$1,262,002 to \$1,425,279 (11% increase).

Staff's Recommendation:

1. Approve a consultant contract amendment for the Philadelphia Force Main Improvements, Project No. EN23002, to GHD Inc., for the not-to-exceed amount of \$163,277, increasing the contract from \$1,262,002 to \$1,425,279 (11% increase); and

2. Authorize the General Manager to execute the consultant contract amendment, subject to non-substantive changes.

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

Account/Project Name:

EN23002/Philadelphia Force Main Improvements

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

On July 18, 2018 the Board of Directors approved the consultant contract award for the Philadelphia Force Main Improvements Project to GHD, Inc., for the not-to-exceed amount of \$873,696. The original contract amount of includes the design of the subject Project, No. EN23002, in addition to the Regional Force Main Improvements, Project No. EN19025.

On February 19, 2020, the Board of Directors approved the consultant contract amendment for the Philadelphia Force Main Improvements Project for the not-to-exceed amount of \$248.334.

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, 2, and 3 as defined respectively in Section 15301(b), 15302(c), and 15303(d) of the State CEQA Guidelines.

Business Goal:

The Philadelphia Force Main Improvements 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, sustainability managed, and can accommodate changes in regional water use.

Attachments:

Attachment 1 - PowerPoint Attachment 2 - Contract Amendment

Attachment 1



Philadelphia Force Main Improvements Consultant Contract Amendment Project No. EN23002

Josh Biesiada, CCM Senior Project Manager January 2022

Project Location





Project Scope

- Project scope includes:
 - New 18-inch diameter dual force mains
 - Isolation valves
 - Air relief valves and blow-offs
 - Maintenance access vaults
 - Hydraulic analysis of lift station
- Initial alignment rejected due to utility conflict
- GHD's contract amended in 2020 for revised alignment





Philadelphia Lift Station

Project Scope (cont.)

- Ontario requested additional separations from utilities
- Additional separation can be achieved
- Additional funds needed to complete design and potholing



	PHILADELPHIA AVENUE POTHOLE LOCATIONS		
POTHOLE NUMBER	DESCRIPTION	STATUS	
PH54	4" GAS	ADDITIONAL POTHOLE	
PH55	3" GAS	ADDITIONAL POTHOLE	

Inland Empire Utilities Agency

MUNICIPAL WATER DISTRICT

Project Budget and Schedule EN23002

Description	Estimated Cost
Design Services	\$1,224,888
Consultant Design Contract (EN23002)	\$549,379*
Amendment No. 1 (EN23002)	\$14,544
Amendment No. 2 (EN23002)	\$248,334
Amendment No. 4 (EN23002, this action)	\$163,277**
IEUA Design Services (Actuals)	\$249,354
Engineering Services During Construction	\$1,463,433
Design Consultant Construction Services (4%)	\$650,415
IEUA Construction Services (5%)	\$813,018
Construction	\$17,886,402
Construction (estimate for EN23002)	\$16,260,365
Contingency (10%)	\$1,626,037
Total Project Cost:	\$20,574,723
Total Project Budget:	\$19,094,788***
Remaining Budget:	(\$1,479,935)

* The original contract amount of \$873,636 includes the design of the subject Project, No. EN23002, in addition to the Regional Force Main Improvements, Project No. EN19025.

**Amendment No.3 was for GHD to provide construction support services for Project No. EN19025

*** The total project budget will be augmented (if needed) when the construction bids are received.

Project Milestone	Date			
Design				
Consultant Design Contract Award	July 2018			
Design Completion	May 2022			
Construction				
Construction Contract Award	August 2022			
Construction Completion	November 2023			

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

Recommendation



- Approve a consultant contract amendment for the Philadelphia Force Main Improvements, Project No. EN23002, to GHD Inc., for the not-to-exceed amount of \$163,277, increasing the contract from \$1,262,002 to \$1,425,279 (11% increase); and
- Authorize the General Manager to execute the consultant contract amendment, subject to non-substantive changes

The Philadelphia Force Main Improvements Project are 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, sustainability managed, and can accommodate changes in regional water use.

Attachment 2



CONTRACT AMENDMENT NUMBER: 4600002572-004

FOR

DESIGN CONSULTING SERVICES

FOR

PHILADELPHIA FORCE MAIN IMPROVEMENTS, PROJECT NO. EN23002,

AND THE REGIONAL FORCE MAIN IMPROVEMENTS, PROJECT NO. EN19025

THIS CONTRACT AMENDMENT FOUR is made and entered into this _____ day of _____, 2022, 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 interchangeably referred to as "IEUA" and "Agency") and GHD Inc. with offices located in Irvine, California (hereinafter referred to as "Consultant"), for professional design services in support of Projects EN23002 and EN19025, and shall revise the Contract as herein amended:

SECTION FOUR, SCOPE OF WORK AND SERVICES, IS REVISED TO ADD THE FOLLOWING PARAGRAPH: Consultant's additional services and responsibilities shall be in accordance with Exhibit 5, attached hereto, referenced herein and made a part hereof.

<u>SECTION SIX, COMPENSATION, ADDS THE FOLLOWING PARAGRAPH</u>: In compensation for the additional Work represented by this Contract Amendment, Agency shall pay Consultant a **NOT-TO-EXCEED maximum total of \$1,425,279.00** for all services provided. This includes an additional \$163,277.00 in accordance with **Exhibit 5**.

Balance of Contract Remains Unchanged.

Witnesseth, that the Parties hereto have mutually covenanted and agreed as per the above Amendment items, and in doing so have caused this document to become incorporated into the contract documents.

INLAND EMPIRE UTILITIES AGENCY: (A Municipal Water District) <u>Shivaji Deshmukh</u> General Manager GHD INC.: GHD INC.: GHD INC.: GHD INC.: Greg Watanaber Reformation Principal-in-Charge

Exhibit 5



7 December 2021

Joshua Biesiada Inland Empire Utilities Agency 6075 Kimball Avenue, Bldg B Chino, CA 91708

Philadelphia Force Main Improvements Project – Design Amendment #4

Dear Mr. Biesiada

Background

GHD was authorized in July 2018 to complete design of replacement of the force mains receiving flow from the Philadelphia Lift Station in Ontario. The replacement force mains are to be two parallel 18" diameter pipelines constructed of HDPE, with access manhole installations provided periodically along the route. Following initial design in 2019, the City of Ontario expressed concerns regarding the proposed routing. As a result, a change order (#2) was authorized in February 2020 to complete redesign consistent with the City's requested alignment. An 85% design submittal was completed consistent with this authorization in January 2021 and submitted by IEUA to the City for further review.

Review of the 85% design submittal by the City of Ontario raised additional concerns relative to providing additional separation from existing and planned utilities within City streets. This included a planned recycled water pipeline in Philadelphia Street. GHD supported IEUA's negotiations with the City by providing design materials and information to support discussions at several meetings, including investigating the feasibility and associated cost of trenchless installation of portions of the pipeline. Following these meetings, the City staff expressed support routing of the force mains within the previously proposed streets, with revisions in alignment and depth.

IEUA staff authorized GHD to use remaining design funding to provide the services needed to support the negotiations with the City. These funds are now exhausted. The current proposal provides renewed funding to complete the Final Design Phase work, as required to prepare construction bid documents consistent with the force main alignment agreed to by IEUA and the City of Ontario.

Final Design Phase Proposal

Completion of the revised force main design is proposed to be completed in two phases. A 90% submittal will be prepared to reflect the revised alignment. This 90% submittal will be provided for IEUA staff review and comment. It is anticipated IEUA will coordinate final review of this same submittal with the City of Ontario. Once comments are received, minor revisions to address comments will be incorporated and documented as part of a final submittal prepared for bidding.

Prepare 90% (Final)

The 90% phase will include completion of potholing and utility location associated with the revised routing of the force mains. This work is anticipated to include up to 60 pothole excavations, primarily along the proposed route in Philadelphia Street. The City of Ontario has requested one of the force mains be located as close as safe construction will allow to an existing gas main in Philadelphia Street. Where possible location of this gas main will be determined by use of aboveground devices, to limit excavation requirements.

The additional utility results will be used to finalize the force main alignment. Comments previously received from the 85% submittal will also be addressed (where still applicable to the revised alignment) as part of the 90% submittal.


The 90% submittal will include the following and other requirements for the 90% submittal in the existing contract and scope:

- Plan and profile sheets to near 100% completion level showing existing utilities and horizontal alignment and vertical profile
- Detail sheets to near 100% completion level
- Traffic Control Plans to near 100% completion level
- Structural plans and details to near 100% completion level
- Specifications to near 100% completion level
- Final Engineer's Estimate of Probable Construction Cost

GHD will attend a submittal review meeting to discuss IEUA review comments to the 90% submittal. Agenda and meeting notes will be prepared by GHD and submitted to IEUA to document the decisions that were made.

Prepare 100% (Final)

It is anticipated that comments to the 90% submittal will be compiled into a single transmittal to GHD, together with direction on any changes requested. It is anticipated these comments and changes will generally be consistent with the current force main routing and construction methods currently envisioned for the project (i.e., no trenchless installations). Once received, these comments will be addressed and associated revisions provided to the project deliverables. This will constitute the 100% submittal and will be prepared in anticipation of project bidding to contractors. This will include the following:

- 100% Submittal specifications and drawings (signed and stamped)
- 90% comments response log
- Final Engineer's Estimate of Probable Construction Cost

Final Design Schedule

The anticipated schedule for the design period of the project is provided in the attached schedule. This includes anticipated delivery dates of the 90% submittal in March 2022, and the 100% submittal in April 2022.

GHD Design Fees

A detail of the anticipated level of effort and associated fees is provided as Attachment 2. The proposed fee of \$163,277 includes updating rates to reflect those currently approved for GHD on-call work. This amendment is anticipated to incorporate these rates for the balance of design work and support provided during bidding and award.

GHD is pleased to be able to continue to support this important project. Please advise if you have any questions and when we are authorized to proceed.

Regards

2 hund

Greg Watanabe Project Director

(562) 206-7979 Greg.Watanabe@ghd.com

1. A. Ot

Brian Whitaker Senior Project Manager

(213) 788-7805 Brian.Whitaker@ghd.com



IEUA PHILADELPHIA FORCE MAIN IMPROVEMENTS - EN23002 Amendment 4 - Proposed December 2021

	Qualit	y Control	Projec	Manager	Cost E	stimator	Project	Engineer	Staff E	ingineer	Sr Structura	Engineer	Sr Traff Eng	ic Control jineer	CAD	Designer	Traffic S	taff Engineer	Adminis Cler	trative / ical	Subc	onsultant	Direct C	osts	т	otal
	Hrly Rate	\$ 255	Hrly Rate	\$ 235	Hrly Rate \$	5 235	Hrly Rate \$	\$ 255	Hrly Rate \$	5 170	Hrly Rate \$	275	Hrly Rate	\$ 275	Hrly Rate	\$ 120	Hrly Rate	\$ 145	Hrly Rate \$	90	10%	Markup	\$	6.50		
Description	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount
FINAL DESIGN																										
1 - 90% DESIGN																										
1.1 - Provide 90% Plans, Profiles and Details	4	\$ 1,020	8	\$ 1,880	\$	s -	2 \$	\$510	34 \$	5,780	8 \$	2,200	1	\$ 275	43	\$ 5,160	10	\$ 1,450	\$	-	-	\$ -	110 \$	660	110 \$	18,935
1.2 - Traffic Control	-	\$-		\$-	\$	s -	•7	\$ -	- 4	s -	- \$	-	8	\$ 2,200		\$-	32	\$ 4,640	\$	-	-	\$ -	40 \$	240	40 \$	7,080
1.3 - 90% Cost and Technical Specifications	2	\$ 510	4	\$ 940	\$	s -	2 \$	\$ 510	18 \$	3,060	8 \$	2,200	12	\$ 3,300	8	\$ 960	4	\$ 580	\$	-	-	\$-	58 \$	348	58 \$	12,408
1.4 - Client / City / Subcontractor Coordination		\$-	6	\$ 1,410	\$	-	2 \$	\$ 510	6 \$	5 1,020	- \$	-	-	\$-		\$-		\$-	\$	-	-	\$ 77,743	14 \$	84	14 \$	80,767
1.5 - City Exhibits		\$-	1	\$ 235	\$	÷ -	97	ş -	5 \$	\$ 850	- \$	-	-	\$-	19	\$ 2,280		\$-	\$	-	-	\$ -	25 \$	150	25 \$	3,515
1.6 - Subs Exhibits		\$-	1	\$ 235	\$	÷ -	97	ş -	1 \$	5 170	- \$	-	-	\$-	4	\$ 480		\$-	\$	-	-	\$ -	6 \$	36	6 \$	921
Subtotal Task 1	6	\$ 1,530	20	\$ 4,700	0 \$; -	6 \$	\$ 1,530	64 \$	5 10,880	16 \$	4,400	21	\$ 5,775	74	\$ 8,880	46	\$ 6,670	0 \$	-	-	\$ 77,743	253 \$	1,518	253 \$	123,626
2 - 100% DESIGN																										
2.1 - Provide 100% Plans, Profiles and Details	4	\$ 1,020	9	\$ 2,115	\$	s -	2 \$	\$ 510	49 \$	8,330	\$	-	4	\$ 1,100	57	\$ 6,840	22	\$ 3,190	- \$	-	-		147 \$	882	147 \$	23,987
2.2 - Traffic Control	-	\$-		\$-	\$	s -	49	÷ -	47	s -	\$	-		\$-		\$-	-	\$-	- \$	-	-		- \$	-	- 9	-
2.3 - 100% Cost and Technical Specifications	3	\$ 765	9	\$ 2,115	16 \$	3,760	3 \$	\$ 765	30 \$	5,100	4 \$	1,100	4	\$ 1,100	10	\$ 1,200	1	\$ 145	\$	-	-		80 \$	480	64 \$	12,770
2.4 - Client & City Coordination	-	\$-	4	\$ 940	\$	s -	2 \$	\$ 510	8 \$	5 1,360	\$	-		\$-		\$-	-	\$ -	- \$	-	-		14 \$	84	14 \$	2,894
Subtotal Task 2	7	\$ 1,785	22	\$ 5,170	16 \$	5 3,760	7 \$	\$ 1,785	87 \$	5 14,790	4 \$	1,100	8	\$ 2,200	67	\$ 8,040	23	\$ 3,335	0 \$	-	-	\$ -	241 \$	1,446	225 \$	39,651
Total for Work (Task 1, 2)	13	3,315	42	9,870	16	3,760	13	3,315	151	25,670	20	5,500	29	7,975	141	16,920	69	10,005	-	-	-	77,743	494	2,964	478	163,277
GRAND TOTAL (All Tasks) (Not-to-Exceed)	13	\$ 3,315	42	\$ 9,870	16 \$	3,760	13 \$	\$ 3,315	151 \$	\$ 25,670	20 \$	5,500	29	\$ 7,975	141	\$ 16,920	69	\$ 10,005	0 \$	-		\$ 77,743	494 \$	2,964	478 \$	163,277



Engineering, Operations, and Water Resources Committee

INFORMATION ITEM **2A**



Operations Division Quarterly Update

Don Hamlett Acting Deputy Manager of Integrated Systems Services January 2022

IEUA Incident Rates vs. Industry & Total Recordable Injuries



* Estimated incident rate based on past December hours worked

Inland Empire Utilities Agency



Beginning October 2021, Monthly Cybersecurity training courses were assigned to all staff. Each approximately 15 minutes in length, user security awareness concepts including social engineering, web safety, and technology tips are introduced and reinforced.

⊙ ⊭" :

Staff Engagement

Your training completion rate

Your completion rate 62.47%

Industry average completion rate 65.11%

Your average learner training time

Average time per learner (minutes) 15.05

Recommended annual learner training time (minu... 60

Your on time completion

On-time completion 77.57%

Late completion 22.43%

3

Inland Empire Utilities Agency

MUNICIPAL WATER DISTRICT

Q3 Goals

• HQA Firewall Upgrade

- Increased capacity
- Improved security

Cloud Migration SAP Non-Production

- Increased Flexibility
- Secure Access for development team
- Rapid deployment
- Proof of concept

Contract Incident Response Retainer

- Cybersecurity program review
- Risk modeling
- Dedicated Rapid Response



Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

SmartCover Technology Update

A





5



IERCF Reliability Update

- Using laser to digitally align pullies and bearings
- Procured loaders engineered specifically for the waste sector
 - Corrosion resistant
 - -Sealed cabs
 - Center-mounted radiator
 - -Heavy-duty pins
 - -Increased visibility



Industrial wheel loaders



Laser alignment tool



NORTH

ISS

IERCA

SOUTH

Engineering, Operations, and Water Resources Committee

INFORMATION ITEM **2B**



Date: January 19, 2022

To: The Honorable Board of DirectorsFrom: Shivaji Deshmukh, General ManagerCommittee: Engineering, Operations & Water Resources01/12/22

SSD

Executive Contact: Christiana Daisy, Deputy General Manager **Subject:** City of Rialto Principles of Agreement for External Recycled Water Supplies

Executive Summary:

To meet Chino Basin water quality objectives and wastewater permit compliance requirements, IEUA needs to augment its recycled water system when the demands are higher than the available supplies during the months between May and October to provide a constant monthly supply to a proposed advanced water purification facility (AWPF) located at Regional Plant No. 4. The City of Rialto (City) is interested in monetizing its recycled water to achieve ecosystem benefits and financial security and is amenable to engage in a partnership with IEUA to develop terms for their recycled water supplies. The removal of flows from the Santa Ana River generated from the City's treatment plant will reduce adverse impact to native species and a portion of these flows would serve a portion of the AWPF supply.

The principles of agreement was drafted to consolidate the needs of both IEUA and the City. The proposed terms include the design and construction of recycled water facilities, the diversion of 3,500 acre-feet per year (afy) between May and October into the IEUA recycled water system at a rate of \$275 per acre foot for a period of 50 years, and the first right of purchase for any amount above the 3,500 afy or the remaining six months.

Staff's Recommendation:

This is an informational item for the Board of Directors.

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

Account/Project Name: There is no impact to budget with this action.

Fiscal Impact (explain if not budgeted): N/A

Prior Board Action: None

Environmental Determination: Not Applicable

Business Goal:

The IEUA - City of Rialto Principles of Agreement supports IEUA's business goal of Water Reliability, of implementing an integrated water resources management plan providing a reliable and cost-effective water supply and promoting sustainable water use throughout the region.

Attachments:

Attachment 1 - Presentation Attachment 2 - Principles of Agreement



City of Rialto Water Resources Partnership Principles of Agreement

Elizabeth Hurst Senior Environmental Resource Planner January 19, 2022

Background



- The Santa Ana River Multi Species Habitat Conservation Plan (SAR HCP) identified the benefit of removing flows from the City of Rialto wastewater treatment plant during the summer months due to the adverse impact to native species.
- City of Rialto is interested in monetizing its recycled water as an annual revenue source.
- Due to seasonality of recycled water supplies, IEUA needs to augment its recycled water supply during peak demand months between May and October.
- IEUA and City of Rialto initiated water resources partnership discussions in 2019.



Principles of Agreement



- IEUA to design, construct, and operate recycled water facilities with 7,000-acre-foot capacity (i.e., pipeline, pump station, interconnection)
- IEUA to have exclusive rights to divert 3,500 acre-feet of Rialto's recycled water into IEUA system
- IEUA to purchase this amount at a rate of \$275 per acre-feet annually between May and October for a period of 50 years. The annual rate to be adjusted at 2 percent or the CPI index, whichever is higher.
- IEUA and its agencies have first right of purchase for the remaining six months or future expanded flows over the facilities' capacity at a rate of \$375-\$400 per acre-feet

Schedule



- January 27, 2022 Regional Technical Committee presentation
- February 3, 2022 Regional Policy Committee presentation
- February 16, 2022 IEUA Board of Directors approval of the final Principles of Agreement
- February 22, 2022 Rialto City Council approval of the final Principles of Agreement

The City of Rialto Principles of Agreement supports 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.

Water Resource Partnership Objectives

- City of Rialto is interested in monetizing its recycled water asset for the benefit of city by diversifying its water resources and financial security.
- IEUA is interested in securing additional reliable local water supplies to bolster its water resources portfolio to serve its community today, into the future, and under uncertain climate conditions.
- City of Rialto currently has 6.23 MGD of recycled water produced at its wastewater treatment plant that is discharged to the Santa Ana River. As the City grows, it anticipates receiving additional flows up to its maximum treatment plant capacity of 11.7 MGD. City of Rialto currently has a requirement to provide 7 cfs or 3.8 MGD for the benefit of the habitat in the Rialto Channel/ Santa Ana River.
- Valley District is leading the development of the Upper Santa Ana River Multi-Species Habitat Conservation Plan (SAR MSHCP); for the protection of the habitat in the Santa Ana River, the HCP identified that it is desirable to remove flows from the Rialto WWTP during the summer months, when the temperature of the water has an adverse impact on native species; the intent is to provide cold water to the Rialto channel during optimal times of the year to support the habitat.
- IEUA has a desire to augment its recycled water system in the summer months when its recycled water demands are higher than the available supplies and would benefit from such flows from Rialto. IEUA intends to fund the design and construction of an advanced water purification facility and injection facilities to beneficially use the water from Rialto, along with its own supplies to meet water quality objectives of the Chino Basin and its NPDES Permit limitations.
- The City of Rialto and IEUA can mutually agree the interconnection capacity may be upsized to provide additional capacity for future supply from growth within Rialto's service area. Should existing capacity be used to convey flows from other agencies, the City of Rialto and IEUA would be proportionally compensated.
- The value of the proposed project is beyond the above articulated components of water supply and habitat; the partnership could develop broader benefits such as meeting water quality objectives, and salt/nutrient management objectives, and from future use of interconnection capacity by parties other than the Partners.

IEUA, RIALTO, SAN BERNARDINO VALLEY WATER DISTRICT WATER RESESOURCES PARTNERSHIP PRINCIPLES OF AGREEMENT

Proposed Principles of Agreement

- IEUA will fund the design, construction and operation of a pipeline, pump station and interconnection between City of Rialto WWTP and IEUA recycled water distribution system, at an estimated cost of \$45 million (2019 cost estimate) to facilitate the exchange of water from Rialto to IEUA. The current contemplated capacity of the facilities is 11.7 MGD, to match Rialto WWTP's ultimate treatment plant capacity.
- IEUA will fund a maximum of \$1 million (2019 cost estimate) the construction of one groundwater well adjacent to the Santa Ana River or the construction of a gravity pipeline from the bottom of the future Lake Rialto, with a preferred location within the City's property; the purpose of the project is to provide cold water for the benefit of the native species while the Rialto water is diverted to the IEUA recycled water distribution system.
- Rialto and Valley District will fund, design, permit, acquire the necessary property, and construct the well or pipeline as needed for the SAR MSHCP. Rialto and Valley will also fund the permitting, operation and maintenance of the well or pipeline. Rialto and Valley District will work together to identify funding opportunities in the future to design, permit and construct Lake Rialto to provide ecosystem benefits.
- Rialto and Valley District will provide water for environmental/ecosystem benefits in accord with the SAR MSHCP.
- Rialto will secure any needed water diversion permits from the State Water Resources Control Board prior to the start of construction, currently contemplated to be consistent with the Upper Santa Ana River Habitat Conservation Plan.

Proposed Terms of the Agreement

- In exchange for the capital investment and operation of the facilities to secure supplies from Rialto, IEUA will have exclusive rights to divert a constant flow of 7 MGD of Rialto's recycled water into the IEUA system at a rate of \$275 per acre-foot for the summer months commencing May 1 through October 31 of each calendar year, following execution of the agreement and construction of the facilities for a period of 50 years. The rate will be annually adjusted at 2 percent or the CPI index, whichever is higher.
- In consideration of the partnership, IEUA and its agencies shall have first right of purchase of recycled water during the remainder of the six months and/or any future expanded flows over the 6.23 MGD for a period of 50 years, commensurate with the start of the agreement at a rate of \$375-400 per acre-foot, with annual adjustments to the rate (2 percent, CPI index or based on other water index, (such as Metropolitan Water District rates).

IEUA, RIALTO, SAN BERNARDINO VALLEY WATER DISTRICT WATER RESESOURCES PARTNERSHIP PRINCIPLES OF AGREEMENT

- If any of the Facilities Capacity, beyond the current contemplated 6.23 MGD, is used to provide benefits beyond this Partnership, such use of capacity shall be mutually agreed upon by both parties.
- Any future participants which results in added value will be shared equitably as the opportunities arise.

Engineering, Operations, and Water Resources Committee

INFORMATION ITEM **2C**



2nd Quarter Strategic Planning & Resources Update

Eddie Lin, P.E. Senior Engineer January 2022

Topics



- Regulatory Compliance
- Hydraulic Control Mitigation Plan Update
- Recycled Water Rate Study



Regulatory Compliance

- Air Quality Management District
 100% Compliance
- Regional Water Quality Control Board
 - Chronic Toxicity Survival and Reproduction (RP-1)
 - -85 gallons Sanitary Sewer Overflow (SSO) Category 3 (October 23, 2021)
 - Cucamonga Trunk on Haven Ave north of Jurupa Street
- Pretreatment & Source Control
 - Regional Sewerage System
 - Issued 10 Permits and 5 Notices of Violation (4 NOVs resolved)
 - -Non-Reclaimable Wastewater System/Brine Line
 - Issued 3 Permits and 3 Notices of Violation (2 NOVs 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



Hydraulic Control Mitigation Plan Update



- Joint effort between IEUA and CBWM
- Required by the Regional Water Quality Control Board and Maximum Benefit Commitments
- Demonstrate how to address the mitigation for any temporary loss of hydraulic control
 - -Potential challenges for maintaining hydraulic control
 - -Modeling & analysis
 - -Proposed flexible definitions for de minimis outflows and operational flexibility
- Scheduled for completion by Summer 2022

Recycled Water Rate Study Goals



- Financial Resilience
 - -Promote the resiliency and sustainability of the recycled water and recharge program
- Proportionality
 - -Appropriately recover costs based on the services provided, equity, and affordability
- Collaboration
 - -Employ an open, collaborative, and transparent public process
- Compliance with California Law
 - -Ensure that rates adhere to State legal requirements.

Recycled Water Rate Study Fixed Cost Recovery



- Developing fixed cost recovery structure
 - -Projected recycled water supply:
 - 56,000 acre-ft per year
 - -Projected demand assumptions:
 - Direct use = 18,000 acre-ft per year
 - Recharge = 16,000 acre-ft per year
- Seven rate structures considered, narrowed down to three
 - -Option B: Fixed charge based on Equivalent Dwelling Units (EDUs)
 - -Option C: Fixed charge based on 3-year rolling average demands
 - -Option D: Fixed charge based on 3-year rolling average (direct) and EDUs (recharge)

Recycled Water Rate Study Structure Options



Inland Empire Utilities Agency

MUNICIPAL WATER DISTRICT

Inland Empire Utilities Agency **Recycled Water Rate Study Milestones** April 2021 January 2022 July 1, 2022 Implement new rate Kickoff Meeting with Update to Board Consultant **Technical Committee** Member Agencies Meetings/Workshops June 2021 August 2021 November 2021 Refine as needed based Workshop 1 Workshop 2 Workshop 3 on additional input and **Board direction**

Engineering, Operations, and Water Resources Committee

INFORMATION ITEM **2D**



RP-5 Expansion Project Update: January 2022 Project Nos. EN19001 and EN19006

Brian Wilson, P.E. Senior Engineer January 2022



Day 534 of 1640 = 33%



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

RP-5: Project Status Changes

	Amount	Quantity
Original Contact	\$329,982,900	
Change Order (CO)	\$ 1,837,554	63
Request For Deviation (RFD)	\$ 3,411,302	151
Changes Total (CO+RFD)	\$5,248,856	214
% Change of Contract	1.6%	
% of Contingency	15.9%	

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

RP-5: Major Activity Areas

Inland Empire Utilities Agency

Construction Staff

- WML Craft: 177
- WML Project: 34
- IEUA & CM: 16
- Total: 227



RP-5: Major Activities







Influent Pump Station


Influent Pump Station Bypass Valve Install





Influent Pump Station Bypass Valve Install



Primary Clarifiers



Primary Clarifiers



Micro-tunneling

(Overflow pipeline from Influent Pump Station to the Emergency Overflow Pond)

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Inland Empire Utilities Agency

MUNICIPAL WATER DISTRICT



Micro-tunneling

(Overflow pipeline from Influent Pump Station to the Emergency Overflow Pond)



Membrane Bioreactor (MBR) Phase 1

ILe

Acid Phase Digester

Thickening Building Gas Phase Digesters



Thickening Building



Gas Phase Digesters





Gas Phase Digesters



Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

16



Dewatering Building



Emergency Overflow Pond Pump Station

Inland Empire Utilities Agency

Chlorine Contact Basin Out of Compliance Pump Bypass 19



Aeration Basin (Temporary Mix Liquor Return Pumps)



Engineering, Operations, and Water Resources Committee

INFORMATION ITEM 2E



Engineering and Construction Management Project Updates

Jerry Burke, P.E. Manager of Engineering January 2022

JB1



Project Location Map

Collection System Asset Management

Project Goal: Maintain Existing Assets



Remote CCTV Entering MH for Inspection

Total Project Budget: \$3.7 M Project Completion: September 2022 Condition Assessment Percent Complete: 25%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders		
Condition Assessment	CDM Smith	\$2.9 M	2%		
Project Management Team					
Project Manager:		Ignacio, Joel			
Assistant/Associate Engineer:		Ward, Ryan			
Administrative Assistant:		GK & Associates			
Inspector:		GK & Associates			

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CB-11 Turnout Cabinet Repairs Project Goal: Rehabilitate/Repair Existing Assets



Total Project Budget: \$90 K Project Completion: February 2022 Construction Percent Complete: 15%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders		
Design	N/A	N/A	0%		
Construction (Current)	WA Rasic	\$69k	0%		
Project Management Team					
Project Manager:		Trott, Megan			
Assistant/Associate Engineer:		N/A			
Administrative Assistant:		Guthrie, Rosalind			
Inspector:		MWH			



PCC Pad with Cabinets

RP-4 Chlorine Contact Basin Cover Repair & RW Wet Well Passive Overflow Line



Project Goal: Rehabilitate/Repair Existing Assets and Improve Safety



RP-4 Chlorine Contact Basin 2

Total Project Budget: \$4.3M Project Completion: September 2023 Design Percent Complete: 10%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders		
Pre-Design (Current)	GHD	\$144k	0%		
Construction	TBD	\$0	0%		
Project Management Team					
Project Manager:		Zughbi, Jamal			
Assistant/Associate Engineer:		Tao, Justin			
Administrative Assistant:		Wood & Associates			
Inspector:		TBD			

RP-1 Old Effluent Structure Rehabilitation Project Goal: Rehabilitate/Repair Existing Assets

Total Project Budget: \$1.5M Project Completion: March 2024 Design Percent Complete: 30%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders		
Pre-Design (Current)	GHD	\$56k	0%		
Construction	TBD	\$0	0%		
Project Management Team					
Project Manager:		Zughbi, Jamal			
Assistant/Associate Engineer:		Ferrer, Karen			
Administrative Assistant:		Wood & Associates			
Inspector:		TBD			



Unsecured Wood Plank Covers