Regional Sewerage Program
Technical Committee Meeting

AGENDA
Thursday, April 29, 2021
2:00 p.m.
Teleconference Call

PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-25-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 12, 2020, AND EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 17, 2020 ANY COMMITTEE MEMBER MAY CALL INTO THE COMMITTEE MEETING WITHOUT OTHERWISE COMPLYING WITH ALL BROWN ACT'S TELECONFERENCE REQUIREMENTS.

In effort to prevent the spread of COVID-19, the Regional Sewerage Program Policy Committee Meeting will be held remotely by teleconference.

Teleconference: (415) 856-9169/Conference ID: 715 477 121#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling into the number provided above. Alternatively, you may email your public comments to the Recording Secretary Sally H. Lee at shlee@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

Call to Order

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; 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. Comments will be limited to three minutes per speaker.

(Continued)

Additions to the Agenda

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

1. **Action Items**
   A. Meeting Minutes for March 25, 2021
   B. Request by the City of Chino for a Regional Connection Point to the Montclair Interceptor Sewer (Chino Regional Sewer Connection C-43)
   C. Request by the City of Ontario for a Regional Connection Point to the Cucamonga Trunk Sewer (Ontario Regional Connection O-104)
   D. Request by the City of Chino for a Regional Connection Point to the Kimball Interceptor Sewer (Chino Regional Sewer Connection C-42)
   E. Expanded Return to Sewer Study

2. **Informational Items**
   A. Operations Division Quarterly Update
   B. Review of Proposed Biennial Budget for Fiscal Years 2021/22 and 2022/23 for the Regional Wastewater and Recycled Water Programs
   C. External Supply Sources
   D. Operations & Compliance Updates *(Oral)*

3. **Receive and File**
   A. Draft Regional Sewerage Program Policy Committee Meeting Agenda
   B. Building Activity Report
   C. Recycled Water Distribution - Operations Summary

4. **Technical Committee Items Distributed**
   A. Clean Water State Revolving Fund Program Principal Forgiveness

5. **Other Business**
   A. IEUA General Manager's Update
   B. Committee Member Requested Agenda Items for Next Meeting
   C. Committee Member Comments
   D. Next Regular Meeting – May 27, 2021

Adjournment

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Recording Secretary (909) 993-1926, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

I, Sally H. Lee, Executive Assistant of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted to the IEUA Website at www.ieua.org and posted at the Agency's main office at 6075 Kimball Avenue, Building A, Chino, CA, on Thursday, April 22, 2021.

Sally H. Lee

ACTION ITEM

1A

Regional Sewerage Program
Technical Committee Meeting
MINUTES OF MARCH 25, 2021

CALL TO ORDER

A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, March 25, 2021. Committee Chair Nicole deMoet/City of Upland called the meeting to order at 2:00 p.m. Recording Secretary Sally Lee took a roll call and established a quorum was present. There were no public comments.

ATTENDANCE via Teleconference

Committee Members PRESENT:

Dave Crosley	City of Chino
Eduardo Espinoza	Cucamonga Valley Water District (CVWD)
Ron Craig	City of Chino Hills
Armando Martinez	City of Fontana
Noel Castillo	City of Montclair
Courtney Jones	City of Ontario
Nicole deMoet	City of Upland
Shivaji Deshmukh	Inland Empire Utilities Agency (IEUA)

OTHERS PRESENT:

Amanda Coker	City of Chino
Abigail Gomez	City of Fontana
Christopher T. Quach	City of Ontario
Braden Yu	City of Upland
Gidti Ludesirishoti	CVWD
Scott Connor	Unknown
Kathy Besser	Inland Empire Utilities Agency
Christiana Daisy	Inland Empire Utilities Agency
Randy Lee	Inland Empire Utilities Agency
Christina Valencia	Inland Empire Utilities Agency
Jerry Burke	Inland Empire Utilities Agency
Javier Chagoyen-Lazaro	Inland Empire Utilities Agency
Robert Delgado	Inland Empire Utilities Agency
Elizabeth Hurst	Inland Empire Utilities Agency
Sally Lee	Inland Empire Utilities Agency
Sylvie Lee	Inland Empire Utilities Agency
Eddie Lin	Inland Empire Utilities Agency
Liza Munoz	Inland Empire Utilities Agency

Cathleen Pieroni	Inland Empire Utilities Agency
Jesse Pompa	Inland Empire Utilities Agency
Jeanina Romero	Inland Empire Utilities Agency
Ken Tam	Inland Empire Utilities Agency
Teresa Velarde	Inland Empire Utilities Agency

PUBLIC COMMENTS

There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA

There were no additions/changes to the agenda.

1. ACTION ITEM

A. APPROVAL OF THE MEETING MINUTES OF FEBRUARY 25, 2021

Motion: By Eduardo Espinoza/CVWD and seconded by Ron Craig/City of Chino Hills to approve the meeting minutes of the February 25, 2021 Technical Committee meeting.

Motion carried: Ayes: 7; Noes: 0; Absent: 0; Abstained: 1

With the following roll call vote:

Ayes:	Espinoza, Craig, Armando, Crosley, Deshmukh, Jones, deMoet
Noes:	None
Absent:	None
Abstain:	Castillo

2. INFORMATIONAL ITEMS

A. RETURN TO SEWER STUDY UPDATE

Ken Tam/IEUA provided an update on the Return to Sewer Study. He stated that there have been two Technical Subgroup meetings held since the last Technical Committee meeting to discuss the expanded scope of the project. On March 22, 2021, the cities of Chino and Ontario agreed to participate in the expanded study. The remaining interested contracting agency was CVWD. He stated that he and Chris Tull met with CVWD's representative to address any questions or concerns related to the expanded study. CVWD will notify Mr. Tam and Mr. Tull if they plan to participate in the expanded study in the next couple of weeks. Considering these recent updates, he expects to bring an action item regarding the expanded study to the April 29 Technical Committee meeting.

B. GRANT DEPARTMENT SEMI-ANNUAL UPDATE

Jesse Pompa/IEUA provided the semi-annual update of the Grants department. He gave an overview on the grant and loan funding programs for the last two decades, status of grants and loans, Water Infrastructure Finance and Innovation Act (WIFIA) funding, WIFIA Letter of Interest– Regional Wastewater System Improvements Program, and low-interest loan savings.

Courtney Jones/City of Ontario asked if the $942 million awarded included funding for the Chino Basin Program (CBP)|Water Storage Investment Program (WSIP). Mr. Pompa stated that the CBP|WSIP funding is not included in that award.

Mr. Ron Craig/City of Chino Hills stated that in a previous presentation regarding SRF loans that there was a debt forgiveness aspect. He asked if there was any debt forgiveness included in the $689 million grant and loan funds. Mr. Pompa stated that the principal forgiveness amount was placed under the grants category and he further stated that he can provide the total amount of principal forgiveness the Agency has received over the years.

C. FY 2021/22-2030/31 TEN YEAR FORECAST

Jerry Burke/IEUA and Javier Chagoyen-Lazaro/IEUA provided information on the FY 2021/22-2030/31 Ten Year Forecast. Mr. Chagoyen-Lazaro and Mr. Burke gave an overview of the Agency's programs focusing on the Recycled Water and Regional Wastewater Programs, Capital Improvement Projects needed to support asset management, regulatory compliance, member agency growth projections, and the proposed ten-year capital improvement plan for these projects. Mr. Chagoyen-Lazaro also gave an overview of the projected debt service until 2050 and the timeline for the ten-year forecast process.

Mr. Eduardo Espinoza/CVWD asked if the projections used for the EDU forecast were solely derived from information given by member agencies or if there are any adjustments made. Mr. Chagoyen-Lazaro stated that capital improvement project planning was based on information provided by the member agencies. For budget purposes, the projections are conservatively adjusted by the Agency to safeguard against any budget shortage in the event the number of new connections are lower than the member agency forecasts and less funds are received.

D. EXTERNAL SUPPLY SOURCES

Sylvie Lee/IEUA gave an update on the draft proposal of the external water supply acquisition. She provided an overview of the drivers and historical timeline of actions related to securing external supply sources for recycled water systems, the evolving needs of external supply, water resources partnership objectives, external water sources opportunities from Western Riverside County Regional Wastewater Authority (WRCRWA)/Western and City of Rialto, and various storage supplies scenarios.

Amanda Coker/City of Chino asked if much of the environmental work has been completed as a result of the City of Rialto's project was included in the Upper Santa Ana River HCP. Ms. Lee stated that environmental analysis was completed in the cumulative analysis through the environmental impact report.

Mr. Craig stated that he agrees that in general terms it is a good idea to maximize access to supplemental supplies and minimize the loss to the river. On behalf of the City of Chino Hills, he encouraged the Agency to foster these concepts to improve the regions resiliency on imported water interruptions or shutdowns and improve cost certainty.

Ms. Courtney Jones/City of Ontario asked if there was a possibility for only the agencies interested in external water supplies to move forward and how the right of first purchase or right to water would

be allocated amongst the agencies. Ms. Lee expounded on various possible scenarios and explained that the matter will need to be discussed further. Ms. Jones asked if this matter will be brought back to the Technical and Policy Committees later for action. Ms. Lee confirmed that this item will be brought back for action in the future. Ms. Lee expounded on the planned timeline for this process. Ms. Jones stated that the City of Ontario supports exploring external water sources and supports bringing additional supply sources into the basin.

Chair deMoet stated that the City of Upland acknowledges the potential benefits to the region however, they are not supportive of the opportunity because of the potential significant impact to rate payers without receiving direct benefits. She concluded, that while they do not want to prevent other agencies from taking advantage of this opportunity, they want to learn more about how it will be funded.

Mr. Espinoza stated that CVWD is in support of continuing to pursue this opportunity and further develop this concept. Seeking external supplies at a relative cost to imported water and reliability of the region are of importance to the District. He asked for continued transparency and engagement with the contract agencies. He also added concern with how rate payers will be impacted.

Dave Crosley/City of Chino asked if IEUA has considered entering a right of purchase option with either of the two external water sources but without official commitment, with an act of acquisition in the future. Ms. Lee stated that Jurupa Community Services District has expressed interest in a distribution system to receive direct use for their service area. There has been discussion regarding working together to seek opportunities for efficiencies. With the WRCRWA opportunity, there has not been communication regarding the cost to hold the water. She stated that the Agency can consider entering a right of purchase option.

Noel Castillo/City of Montclair expressed support to pursue options that will increase the region's resiliency.

Armando Martinez/City of Fontana stated that the City of Fontana would also like to understand the impact to ratepayers and more information on the process.

Mr. Espinoza asked if IEUA has considered how partner agencies such as Montclair and Fontana play into this decision as water suppliers and if there has been any communication with them. Ms. Lee stated that there has not been communication with them as most of the matters are tied only to recycled water. General Manager Deshmukh stated that this matter has been discussed at the monthly General Managers meetings, which include Monte Vista Water District and the Fontana Water Company.

General Manager Shivaji Deshmukh/IEUA stated that on Tuesday, March 23, the California Department of Water Resources (DWR) announced an adjustment to the initial State Water Project (SWP) allocation for the 2021 water year. The Department now expects to deliver 5 percent of requested supplies this year, instead of the 10 percent announced in December. As a result, the amount of SWP supplies made available to the Metropolitan Water District of Southern California (MWD) as part of their "Table A" allocation is reduced to just 95,575 AF in 2021, which is extremely

low. He added that the 2020 allocation was 20 percent and expressed concern for the trend of low deliveries.

He shared that early on, MWD activated its "Water Supply, Drought Management" plan and is implementing actions such as withdrawing water from storage to assure that there is sufficient water supply and they do not anticipate needing to trigger water restrictions this year. As a region that relies exclusively on SWP supplies, the Agency is working with MWD to fully understand the worst-case scenarios for prolonged, multi-year drought conditions. There has only been two times in recent history when the state has reduced its allocation, in 2013 (40 to 35 percent) and in 2000 (100 to 90 percent). He wanted to alert the Committee to this situation and added that the Agency is continuously discussing concerns with MWD. Christiana Daisy/IEUA stated that this is the second time where the allocation has gone as low as 5 percent, which is significant and concerning. General Manager Deshmukh stated that staff will continue to keep member agencies updated.

Ms. Lee stated that this item will be taken to the IEUA Board of Directors as an information item and IEUA staff will continue to solicit more input from member agencies in the coming weeks.

E. OPERATIONS & COMPLIANCE UPDATES

Mr. Tam reported that for the northern service area, the Agency continues accelerated bi-weekly monitoring as a result of toxicity that occurred at RP-4 in February 2021. Once toxicity monitoring has passed and in order to return to regularly monthly monitoring, there must be two consecutive tests passed. He added that Digester No. 7 at RP-1 was taken offline on March 10 for a rehabilitation project expected to take 18 months and includes structural coating, roof repairs, and equipment replacement. He stated that there were no compliance or operational issues to report for the southern service area.

3. RECEIVE AND FILE

A. DRAFT REGIONAL SEWERAGE PROGRAM POLICY COMMITTEE MEETING AGENDA

The draft Regional Sewerage Program Policy Committee meeting agenda was received and filed by the Committee.

B. BUILDING ACTIVITY REPORT

The Building Activity Report for January 2021 was received and filed by the Committee.

C. RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY

The Recycled Water Distribution – Operations Summary for February 2021 was received and filed by the Committee.

4. TECHNICAL COMMITTEE ITEMS DISTRIBUTED

A. NONE

5. OTHER BUSINESS

A. IEUA GENERAL MANAGER'S UPDATE

General Manager Deshmukh/IEUA stated on March 22, staff distributed a notice to the Technical Committee members regarding the availability of recycled water as groundwater recharge. The

Agency is asking any agencies interested in purchasing available groundwater recharge notify IEUA by Monday, April 19.

He stated that IEUA staff has met with interested general managers of the member agencies as a Steering Committee and has provided a recap at the General Managers meeting earlier this month to discuss the progress staff has made on the WSIP | CBP based on the input and feedback that was received from the agencies. The goal is to reach a decision in summer 2021. The main components: 1) The need for an Advanced Water Purification Facility (AWPF) to address salinity and pending water quality regulations for emerging chemicals in recycled water recharge. As part of the MOU, member agencies will be initiating a contract with Stetson Engineering to do an evaluation on the need, timing and capacity of the AWPF. This effort is anticipated to be completed by July 2021. 2) The source water for the AWPF will be a combination of unused or surplus recycled water supplies within the IEUA service area that does not have an associated demand and external supply sources. Two draft proposals with Western MWD and the City of Rialto were discussed at the Steering Committee and at a special workshop regarding the draft proposals on March 16. 3) The expanded capability to provide options and decision-making authority to the participating agencies, IEUA has been able to negotiate more favorable terms for pumping and using the water locally and also for an incentive to pump into the MWD facility. As a reminder, this current negotiated structure would work like a renewed storage and recovery program with Watermaster, IEUA and MWD. As a reminder, this program is composed of two parts: (1) MWD leaving a portion of its allocated SWP water behind for pulse flows for the State's use and (2) IEUA paying MWD back for their performance on the Agency's behalf. IEUA is also negotiating with the State for WSIP project participants to receive the carriage loss benefits of 20 percent. For IEUA, this will result in 75,000 AF of local agency benefits over the 25-year term. In other words, over the 25-year term, IEUA/MWD perform 300 TAF for the WSIP and 75 TAF for IEUA agencies use/storage losses or general benefit to the Chino Basin. 4) The WSIP | CBP will require its own environmental analysis. 5) Risks for water quality consideration during the 25 years was proposed to be addressed by creating a specific targeted fund that will enable the region to continue to have access to the water.

He shared that staff has been meeting with interested individual agencies to provide further details on the updated modifications. Staff plans to hold issue specific workshops with the IEUA Board which would present the stakeholders input and a staff analysis from a regional perspective of each of the items over the next several months to enable the policy makers in the region to gain a better understanding of the regional issues. He invited all Technical Committee members to listen to those Board meetings and stated staff would gladly meet with any member agencies directly.

B. COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING

There were no Committee member requests for future agenda items.

C. COMMITTEE MEMBER COMMENTS

There were no Committee member comments.

D. NEXT MEETING – APRIL 29, 2021

ADJOURNMENT – Chair deMoet adjourned the meeting at 3:45 p.m.

Transcribed by:

_____

Sally H. Lee, Executive Assistant

ACTION ITEM

1B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 29, 2021

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino for a Regional Connection Point to the Montclair Interceptor Sewer (Chino Regional Sewer Connection C-43)

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Chino for one new connection point to the Montclair Interceptor Sewer (Chino Regional Sewer Connection C-43).

BACKGROUND

On January 25, 2021, Inland Empire Utilities Agency (IEUA) received a request from the City of Chino (Attachment "A") for the approval of a new Regional Connection to the Montclair Interceptor Station 249+30. The connection point is located west of Philadelphia St. and Benson Ave. at manhole no. 42. The proposed connection will serve a living assisted facility, medical suite, and restaurant. The Montclair Interceptor has a pipeline diameter ranging from 21 to 30 inches and a lift station. The Montclair Interceptor conveys flow east to the Regional Water Recycling Plant No. 1 (RP-1) for treatment. The Montclair Diversion Structure (MDS) can convey flows to the Carbon Canyon Water Recycling Facility (CCWRF) through the Western, and Western Relief Interceptors, to RP-1 via the Montclair Interceptor, and had/has the ability to divert flow to the County Sanitary Districts of Los Angeles County (CSDLAC). The current operation has the MDS diverting flows to the CCWRF. Modeling results show the Montclair Interceptor has a capacity of 6.0 million gallons per day (MGD) while maintaining a flow depth to pipe diameter (d/D) ratio of 0.75. Based on hydraulic analysis of existing and future Peak Wet Weather Flow, with current MDS operation, there is enough capacity in the Montclair Interceptor to convey projected flows from the proposed connections.

SUMMARY OF FLOW RATES UTILIZED

Chino Regional Connection C-43: Average Flow Rate = 0 .030MGD (20.8 gpm)
Peak Dry Weather Flow Rate (PDWF) IEUA Formula = 0.075 MGD (52.41 gpm)
Peak Wet Weather Flow (PWWF) Rate IEUA Formula = 0.102 MGD (71.42 gpm)

The Average Flow was evaluated using IEUA's PDWF and PWWF formulas. The proposed additional average flow from C-43 is 0.030 MGD and is within the calculated remaining ultimate flow capacity of 6.98 MGD with the entire Montclair Diversion running to RP-1. This results in a maximum PWWF depth over Diameter of 0.92; however, since flow to this Montclair Interceptor is split between the Western Trunk, and Western Trunk Relief, Interceptors to Carbon Canyon Regional Reclamation Plant flow depth can be maintained at d/D=0.75 at ultimate.

ATTACHMENT A

January 25, 2021, City of Chino Regional Interceptor Request

CITY of CHINO

January 25, 2021

Mr. Matthew A. Poeske
Senior Engineer
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Dear Mr. Poeske,

Subject: Sewer Connection to existing IEUA Sewer Manhole - PL 19-0079/PL 19-0080 Assisted Living/Memory Care Facility and Office Buildings

The City of Chino is hereby requesting one new point of connection. The connection is a new sewer lateral to the existing IEUA sewer manhole on the Montclair Interceptor. The new sewer lateral point of connection is at Sewer Manhole No. 42 in Philadelphia St. (station 249+30.00 per the approved Sewer Plan D4344 located on Sheet P12 of 45).

This proposed connection will serve a commercial site, consisting of an assisted living facility, medical suite buildings and a restaurant building located on the northside of Philadelphia St., west of Benson Avenue. The peak wastewater outflows were provided by AME Design Group, Inc., and GMEP Engineers, on behalf of Chino Villas, LLC. Copy of letters attached and summarized below:

1. The estimated average outflow is 18,125 GPD + 6,480 GPD + 4,050 GPD + 1,350 GPD = **30,005 GPD**.
2. The estimated maximum outflow is 39,875 GPD + 11,250 GPD + 7,875 GPD + 2,000 GPD **= 61,000 GPD**.

If you should need any further information, please contact me at (909) 334-3417 or by email cmagdosku@cityofchino.org.

Sincerely,

Christopher L. Magdosku P.E.
City Engineer

Cc: Robert Chiang, Chino Villas, LLC
Charlie Liu, Focus Engineering, Inc.

Design Group, Inc.

Mechanical, Electrical and Plumbing Engineers
Title 24 energy analysis

Date: January 21, 2021

From: **Ghassan Shreim**
CEO/Managing Principal
AME Design Group, Inc.
2601 Main Street, Suite 730, Irvine CA 92614

Re: Estimated Sewer Discharge: Chino AL and MC Project

To the Plan checker,

AME Design Group, Inc. has prepared the following calculation for the estimated sewer discharge for the proposed building use using the relevant Plumbing Code:

Per Table H 201.1(2) Estimated Waste/Sewage Flow Rates:
Type of Occupancy: Institution Nursing Home: 125 gpd per person

The building consists of 99 Units with 120 Beds, and estimated 25 staff.

Estimated Total:

- 99 Units / 120 Beds:
  - 1 Bed = 78 X 1 person = 78 persons
  - 2 Bed = 21 X 2 persons = 42 persons
  - Total: 120 residents

- Staff: 25 persons
- Total # of persons: 120 + 25 = 145 persons
- **Total Estimated Average Sewer GPD for the Building:**
  145 persons X 125 gpd/person = **18,125 gallons per day**
- **Total Estimated Maximum Sewer GPD for the Building:**
  18,125 gpd X 2.2 (peak factor) = **39,875 gallons per day**

Should you have any questions, please feel free to call us at 949.553.0170

Sincerely,

Ghassan Shreim

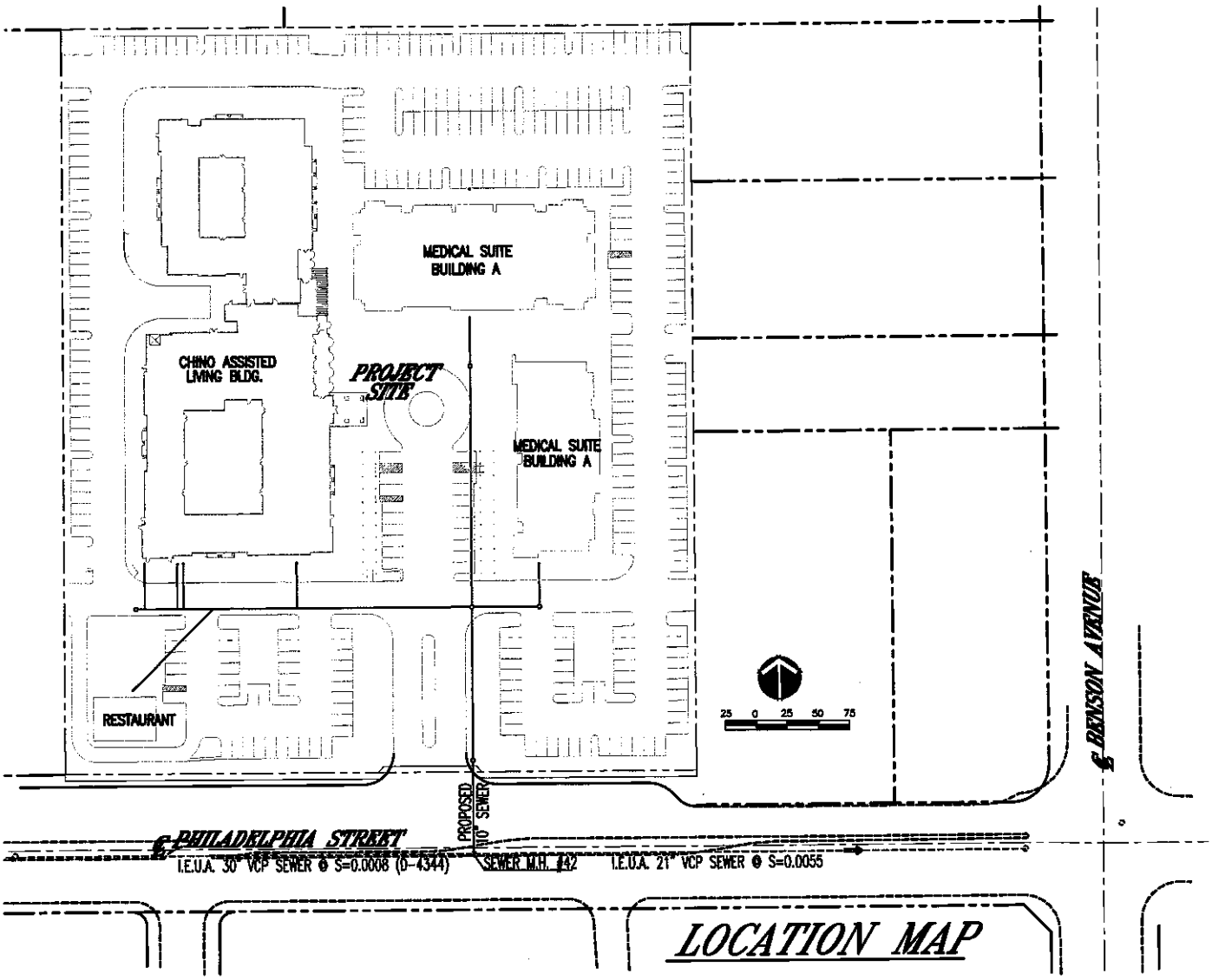
GMEP Engineers
26439 Rancho Parkway S., Ste 120
Lake Forest, CA 92630
Ph: (949)267-9095
www.gmepe.com

January 21, 2021

Project: Chino Medical Offices
Location: Philadelphia St.
Chino, CA

ESTIMATE SEWER USAGE		
UNIT TYPE	SEWER USAGE	
	AVERAGE GALLONS PER DAY	MAX - GALLONS PER DAY
MEDICAL SUITE - BUILDING A	6,480	11,250
MEDICAL SUITE - BUILDING B	4,050	7,875
RESTAURANT	1,350	2,000

Chino Assisted Living and Office Building Sewer Connection - Sewerage Flow Calculation			
(PI19-79 and 79-80)			1/21/2021
		Estimate sewer flows	
		Average	Maximum
Item	Description	GPD	GPD
1	Chino Assisted Living (Per AME Design Group, Inc.)	18125	39875
2	Chino Medical Suite - Building A (Per GMEP Engineers)	6480	11250
3	Chino Medical Suite - Building B (Per GMEP Engineers)	4050	7875
4	Restaruant (Per GMEP Engineers)	1350	2000
	Total from project site	30005	61000



LOCATION MAP

VCP BEDDING TYPE "C" MAX. T.W. 6'-0"
RPM PIPE TYPE "I" NON REINFORCED ENCASEMENT
D.I. PIPE CLASS 1

EXIST. A.C. PVMT. OVER ℄ SEWER

30" SEWER
S=0.0006

INV. 820.86
INV. 820.74

SCHEDULE III

MATCH LINE STA. 260+00 SEE SHEET P-3

CONSTRUCT 30" SEWER
A.C. BERM
VARIES
℄ SURVEY
36'

MATCH LINE STA. 258+00 SEE RIGHT

VERNON AVENUE

36"x24" CMP ARCH
℄ VERNON AVE.
257+30.15 AHD = 257+28.00 BK.
257+28.07 SURV. STA. ℄ PT ℄ = 89°43'27" RT.
CONST. S.M.H. #44
18' C.M.P.

30" SEWER
S=0.0006
INV. 820.74
INV. 820.70
INV. 820.60

VCP BEDDING TYPE "C" MAX. TRENCH WIDTH 6'-0"
RPM PIPE TYPE "I" NON REINFORCED ENCASEMENT
D.I. PIPE CLASS 1

EXIST. A.C. PVM'T. OVER ℄ SEWER

253+30.00 CONST. S.M.H. #43

24" SEWER
S= 0.0038
INV. 819.10
INV. 818.60

30" SEWER
S=0.0008
INV. 818.34

SCHEDULE III

P R O F I L E

MATCH LINE STA. 258+00 SEE LEFT

257+35.18 SURV. ℄ RD. INTER.

℄ VERNON AVE.
VARIES
HEADWALL
36"x24" CMP ARCH
5-12"x8" CMP ARCH
BARRIER
TO BE RELOCATED TO MISS M.H.
BM #10
257+30.15 AHD = 257+28.00 BK.
257+28.07 SURV. STA. ℄ PT ℄ = 89°43'27" RT.
CONST. S.M.H. #44

CONSTRUCT 24" SEWER

253+30.00 CONST. S.M.H. #43

A.C. PAVEMENT
#C-32
℄ SURVEY
CONSTRUCT 30" SEWER

PHILADELPHIA STREET

P L A N

MATCH LINE STA. 250+00 SEE BELOW LEFT

VCP BEDDING TYPE "C" MAX. TRENCH WIDTH 5'-0"
RPM PIPE TYPE "I" NON REINFORCED ENCASEMENT
D.I. PIPE CLASS 1

249+30.00 CONST. S.M.H. #42

FOR BEDDING TYPE SEE ABOVE RIGHT

30" SEWER
S=0.0008
818.48 INV. (N. IN)
INV. 818.34
INV. 818.28
INV. 818.18

(24" FOR D.I.) 21" SEWER
S-24" = 0.0061
S-21" = 0.0055

244+80.00 CONST. S.M.H. #41

EXIST. A.C. PVM'T OVER ℄ SEWER
SEE NOTE #5 SHEET P-1 CAUTION!!

INV. 21" 815.72
INV. 24" 815.45
INV. 814.95

VCP BEDDING TYPE "B" MAX. TRENCH WIDTH 6'-0"
RPM BEDDING TYPE "I" MAX. TRENCH WIDTH 2'-6"
D.I. PIPE CLASS-2

240+30.00 CONST. S.M.H. #40

30" SEWER
S=0.0006
INV. 814.68
INV. 814.60

SCHEDULE III

MATCH LINE STA. 250+00 SEE ABOVE RIGHT

CONSTRUCT 30" SEWER
ONTARIO CITY LIMITS
DITCH
℄ SURVEY
8" S (ONT.)
SEE DETAIL THIS SHT.
249+30.00 CONST. S.M.H. #42
CONSTRUCT 21" SEWER

244+15.13 SURV. ℄ RD. INTER.

℄ BENSON AVE.
CAUTION: HIGH PRESSURE GAS LINE SEE NOTE #5 SHT. P-1
CONSTRUCT 30" SEWER
A.C. PAVEMENT
BM P-22
244+80.00 CONST. S.M.H. #41
60" RCP STORM DRAIN

PHILADELPHIA STREET

CHINO CITY LIMITS

240+30.00 CONST. S.M.H. #40

P L A N

MATCH LINE STA. 239+00 SEE SHEET P-11

NO. 4 BARS 12" O.C. BOTH WAYS
3/4" CRUSHED ROCK BEDDING
FLOWLINE OF 60" RCP
30" C.S.M.W.D. SEWER
NO. 4 BARS (TYP.)

CONCRETE ENCASEMENT DETAIL
NO SCALE

AS BUILT
12-30-77 KP

REV.	DATE	BY	DESCRIPTION
5	5/5/75	DUTCHED	CORRECT GRADE STA. 244+80 TO 249+30
4	12-30-77	T.W.T.	RELOCATED S.M.H. #44 & INDICATED TYPE OF PIPE LAYED.
3	12-17-87	M.M.	ADDED ENCASEMENT DETAIL
2	01-18-21	C. C. L.	ADDED 10" SEWER LATERAL FROM THE NEW DEVELOPMENT SITE
1			

SUBMITTED Project Engineer — #24263 R.E. No. — 1-29-75 Date
RECOMMENDED Engineer — #21239 R.E. No. — 1-30-75 Date

SCALE
HORIZ. 1"=40'
VERT. 1"= 8'

APPROVED General Manager — 1-30-75 Date
APPROVED Chief Engineer — #13413 R.E. No. — 1-30-75 Date

Designed NIJLAND 1-28-75
Drawn DUTCHED REILLY 1-22-75
Checked BREWER OGBUKA 1-22-75 Date

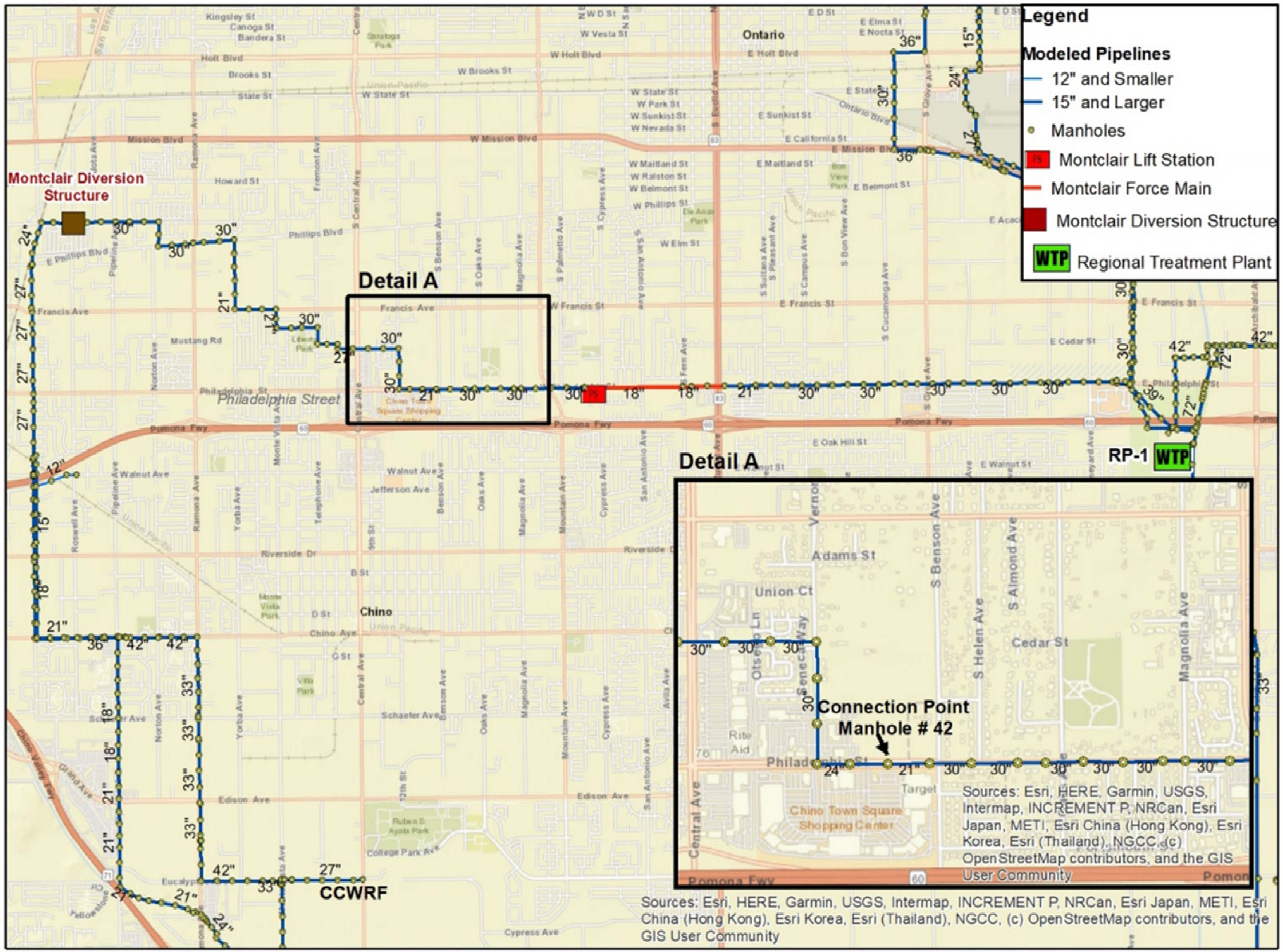
CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

MONTCLAIR INTERCEPTOR
PLAN AND PROFILE
FROM STA. 239+00 TO STA. 260+00

SHEET P-12 OF 45 SHEETS
DWG. NO. D-4344

ATTACHMENT B

General Location for Connection C-43


Legend
Modeled Pipelines
12" and Smaller
15" and Larger
Manholes
Montclair Lift Station
Montclair Force Main
Montclair Diversion Structure
WTP Regional Treatment Plant
Montclair Diversion Structure
Detail A
Detail A
Philadelphia Street
Ontario
Chino
RP-1 WTP
CCWRF
Connection Point
Manhole # 42
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

ACTION ITEM

1C

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 29, 2021

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Ontario for a Regional Connection Point to the Cucamonga Trunk Sewer (Ontario Regional Sewer Connection O-104)

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Ontario for one new connection point to the Cucamonga Trunk Sewer (Ontario Regional Sewer Connection O-104).

BACKGROUND

On February 2, 2021, Inland Empire Utilities Agency (IEUA) received a request from the City of Ontario (Attachment "A") for the approval of a new Regional Connection to the Cucamonga Trunk Sewer, STA 20+34. The connection point is located at Hellman Ave. and Philadelphia St. The proposed connection will divide flows from a supplemental approval for Project No. CW19009.03, received from IEUA on December 4, 2008, to provide a Regional Connection for a new sewer main at Regional Connection O-86. This proposal is meant to remove siphons in the City's Tributary Area and make the collection system safer and more reliable.

SUMMARY OF FLOW RATES UTILIZED FOR O-104

Ontario Regional Connection O-104: Average Flow Rate =0 .074 MGD (51.39 gpm)
Peak Dry Weather Flow (PDWF) Rate IEUA Formula = 0.173 MGD (120.25 gpm)
Peak Wet Weather Flow (PWWF) Rate IEUA Formula = 0.234 MGD (162.40 gpm)

The Average Flow was evaluated using IEUA's PDWF and PWWF formulas. This hydraulic analysis indicates that the proposed connection will not create a capacity deficiency within the Cucamonga Trunk. The proposed additional average flow from O-86 and O-104 is 3.87 MGD and is within the calculated remaining ultimate flow capacity of 16.8 MGD.

ATTACHMENT A

February 2, 2021, City of Ontario Regional Interceptor Request

C I T Y O F O N T A R I O

ONTARIO MUNICIPAL UTILITIES COMPANY

PAUL S. LEON
MAYOR

ALAN D. WAPNER
MAYOR PRO TEM

JIM W. BOWMAN
DEBRA DORST-PORADA
RUBEN VALENCIA
COUNCIL MEMBERS

Scott Ochoa
CITY MANAGER

SHEILA MAUTZ
CITY CLERK

JAMES R. MILHISER
TREASURER

SCOTT BURTON
UTILITIES GENERAL

February 2, 2021

Mr. Matthew Poeske
Senior Engineer
Inland Empire Utility Agency
6075 Kimball Avenue
Chino, CA 91710

Subject: Request for a new Regional Sewer Connection to the 42-inch Cucamonga Interceptor Trunk Sewer at the intersection of Hellman Ave. and Philadelphia St.

The City of Ontario is hereby requesting a new Regional Point of Connection to the Cucamonga Interceptor Trunk Sewer located at the intersection of Hellman Ave. and Philadelphia St.

The City is proposing to connect a new sewer main (size to be determined) to the Cucamonga Interceptor at an existing manhole located within the intersection of Hellman Ave. and Philadelphia St. (per IEUA drawing #D4298, Cucamonga Interceptor at STA 20+34). The connection will require reconstructing the manhole to add a new stub on the northwest side of the manhole (See attached Exhibit 1).

This proposed connection is part CIP No. 4, included in the City of Ontario's Sewer Master Plan (2020 update) to address build-out capacity (ultimate) deficiencies. The project will also eliminate two sewer siphons. The first (Siphon 1) crosses under the Cucamonga Channel between Francis St. and Cedar St., and the second (Siphon 2) crosses under a rectangular storm drain channel that flows into the Cucamonga Channel, adjacent to Philadelphia St, west of Hellman Ave. The Siphon 2 connects to an IEUA interceptor that crosses State Route 60 into IEUA RP-1 for treatment.

The ultimate estimated Average Dry Weather Flow (ADWF) is 0.074 mgd, the Peak Dry Weather Flow (PDWF) is 0.18 mgd, and the Peak Wet Weather Flow (PWWF) is 0.24 mgd. Peaking totals are based on the City's draft 2020 Sewer Master Plan Demand Factors and peaking formulas (PDWF = 1.77(ADWF)^0.893; PWWF = 1.34(PDWF)).

This request supplements the approval for Project No. CW19009.03, received from IEUA on December 4, 2008, to provide a Regional Connection for a new sewer main at Manhole O-86 to

the Cucamonga Interceptor, within the intersection of Cedar St. and Archibald Ave. That approval authorized an average flow rate of 1.858 mgd and peak flow rate of 3.536 mgd. That connection will still be required to accommodate the removal of Siphon 1. At Manhole O-86, the removal of Siphon 1 is estimated to deliver ultimate estimated ADWF of 1.51 mgd, PDWF of 2.55 mgd, and PWWF 3.42 mgd, using the same criteria discussed earlier. The connection at Manhole O-86 will accommodate flows from the City's Sewershed No. 4 (See attached Exhibit 2).

If you should need any further information, please contact Thom Lambertson at (909) 395-2774.

Sincerely,

Dennis Mejia, P.E.
Utilities Engineering Division Manager

EXHIBIT 1 - PROPOSED REGIONAL CONNECTION TRIBUTARY AREA

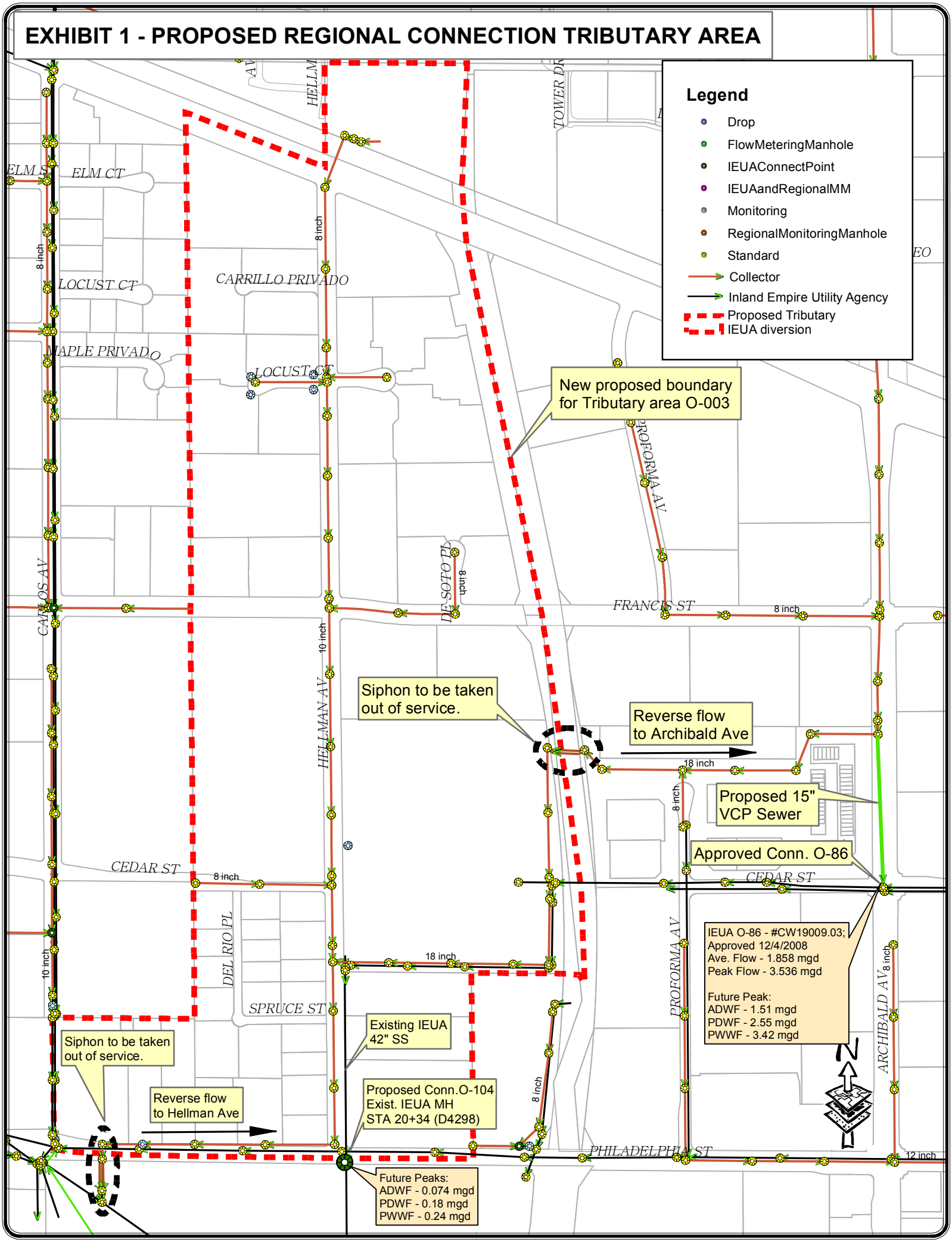
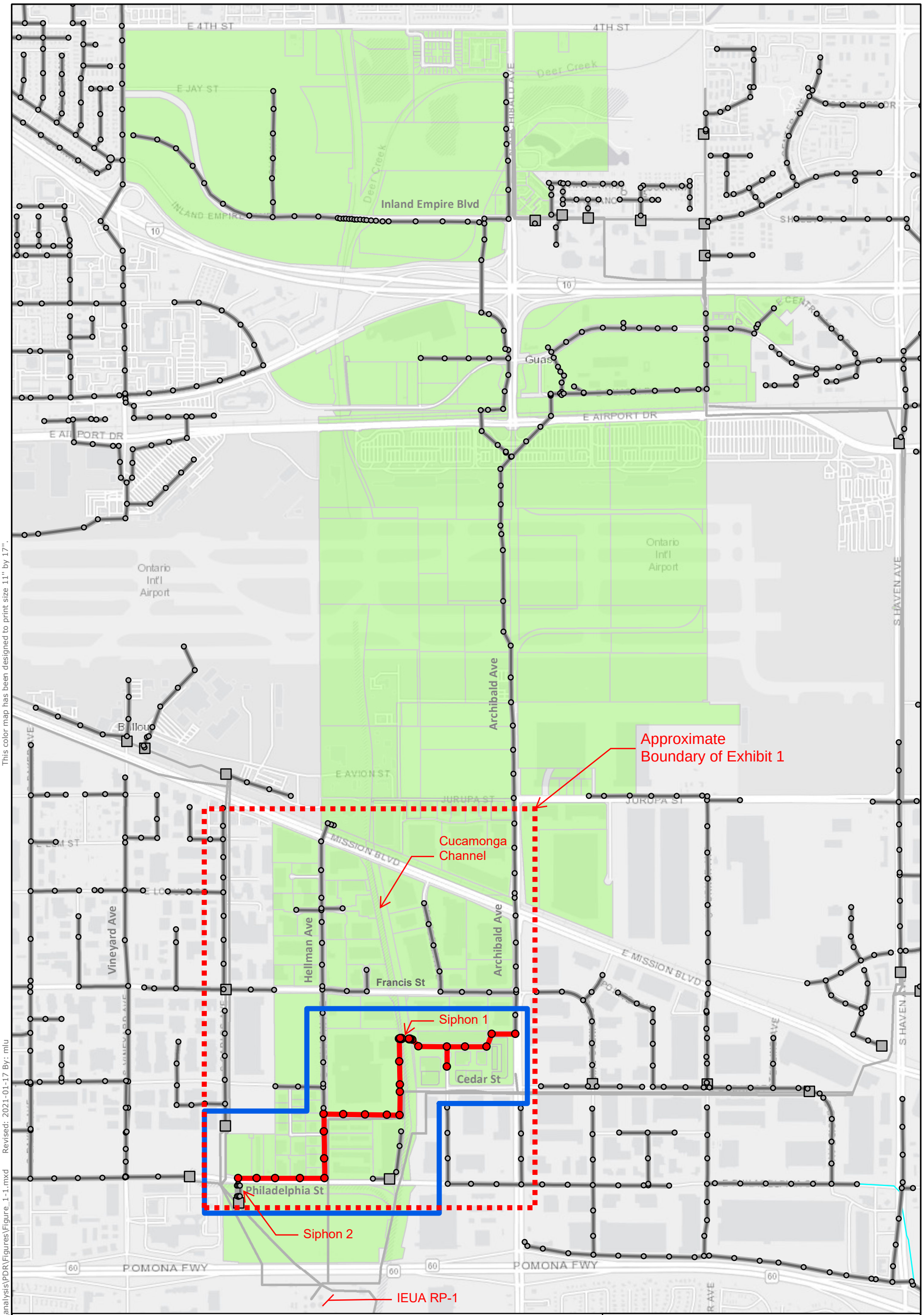


EXHIBIT 2 - EXISTING CONDITIONS SEWERSHED NO. 4



Legend

- Manhole
- Outlet
- Sewershed No. 4
- Study Area Boundary
- Gravity Main (City)
- Gravity Main (2020 SMP Location No. 4)
- IEUA Sewer

N

0 0.4 Miles

Date: 1/17/2021

TITLE: **Figure 1-1 Location No. 4 (2020 SMP), Study Area, Sewer Tributary Area**

PROJECT: Ontario Archibald Sewer Study and Design

COORDINATE SYSTEM: NAD 1983 2011 StatePlane California V FIPS 0405 Ft US

Stantec

This color map has been designed to print size 11" by 17".

Revised: 2021-01-17 By: mlu

V:\1840\active\184031363\design\analysis\PDR\Figures\Figure_1-1.mxd

EXHIBIT 3 - IEUA RECORD DRAWING D4298

ROAD PROFILE
NO SCALE

CUT-OFF WALL DETAIL

PROFILE

PLAN

PROFILE

PLAN

STEEL CASING DETAIL
NO SCALE

SECTION

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PBS&J CANNOT ASSURE ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS DRAWING OR FOR ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT, THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

T.B.M.
SET SPK N. SIDE P.P.# 127627SE
S. SIDE SERVICE RD TO ONTARIO
TREATMENT PLANT. 60'E OF E GATE
ELEV. 823.590 F.B. NO. 21, p. 28

REVISIONS FOR AMENDMENT NO. 1

REV	DATE	BY	DESCRIPTION
A	7/12/73	M.M.	ADDENDUM NO.1 CORRECTIONS
B	7/17/73	M.M.	AMENDMENT NO.1 CORRECTIONS
C	9/4/73	G.H.	AS BUILT

SCALE: HOR. 1"=40' VERT 1"=8'

DESIGNED MJELLEM
DRAWN MJELLEM
CHECKED

SUBMITTED Wilfred J. Langer, PROJECT ENGINEER, 9639 R.E. NO., 4/13/73 DATE
RECOMMENDED R. Clinton Dickson, JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC., 10570 R.E. NO., 9-17-73 DATE

JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.
995 EAST WALNUT STREET PASADENA, CALIFORNIA 91101

APPROVED [signature] 9/18/73 DATE
APPROVED Theo T. Howard 9/13/73 DATE

CHINO BASIN MUNICIPAL WATER DISTRICT
CUCAMONGA INTERCEPTOR
PLAN AND PROFILE, STA. 9+63.28 TO STA. 28+36 AND DETAIL STEEL CASING

SHEET 2 OF 9 SHEETS

FRAME NO. C-10.2
JOB NO. IDENT. NO. 115

D4298

ATTACHMENT B
General Location for Connection O-104

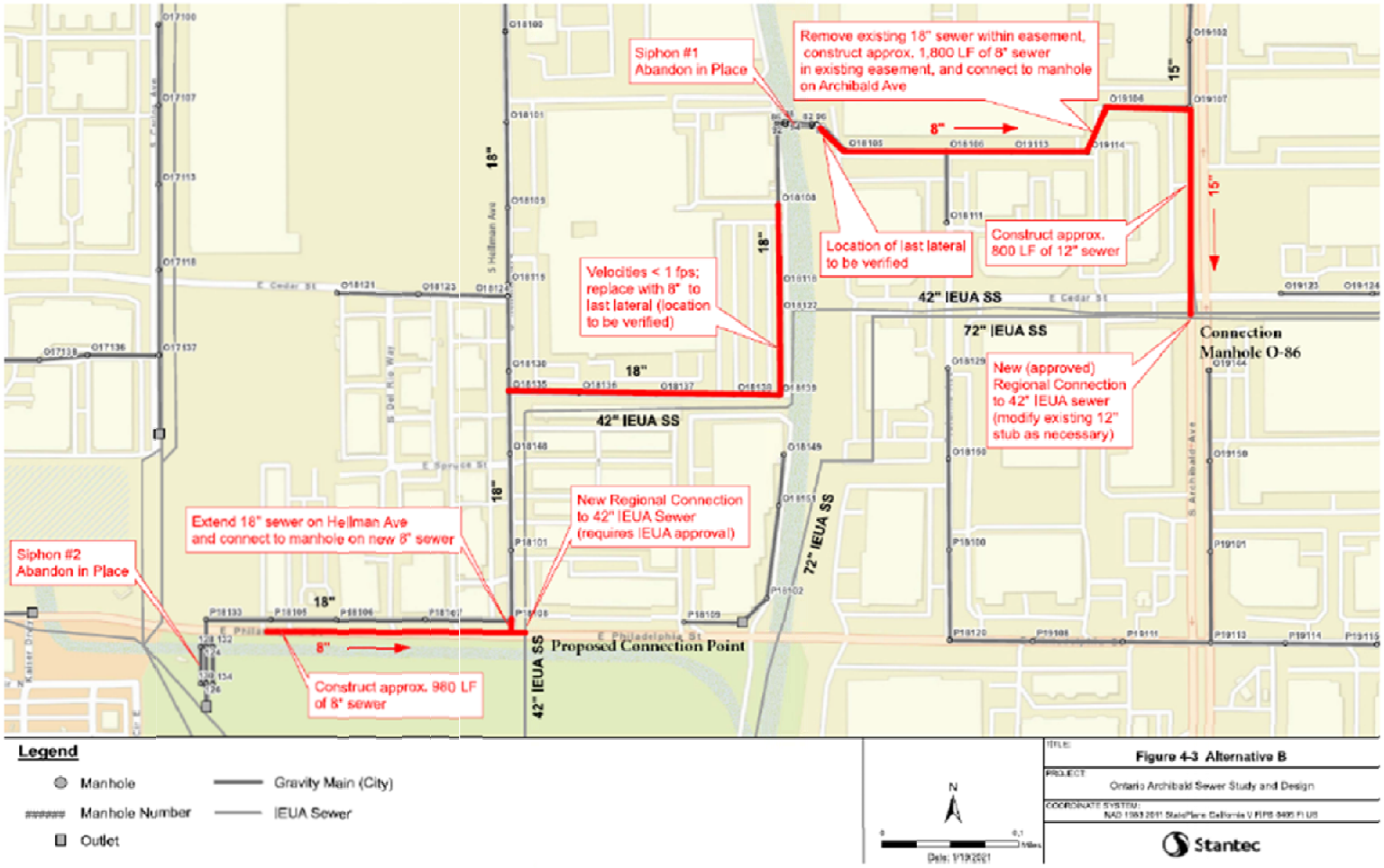


Figure 1 City of Ontario Proposed Regional Connection (Source- Preliminary Design Report by Stantec)

ACTION ITEM

1D

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 29, 2021

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino for a Regional Connection Point to the Kimball Interceptor Sewer (Chino Regional Sewer Connection C-42)

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Chino for one new connection point to the Kimball Interceptor Sewer (Chino Regional Sewer Connection C-42).

BACKGROUND

On February 10, 2021, Inland Empire Utilities Agency (IEUA) received a request from the City of Chino (Attachment "A") for the approval of a new Regional Connection to the Kimball Interceptor at Station 99+44.82 on the existing 15" sewer. The connection point is located to the west of the intersection of Kimball Ave. and Euclid Ave. at manhole no. 16. The Kimball Interceptor increases to 60" on the west side of Euclid Ave. and has sufficient ultimate capacity to accept this minor amount of flow. This connection will serve the existing Arco gas station plus the new commercial construction on the east side of Euclid. This connection was the result of a collaborative effort between IEUA, Chino, and Ontario to allow for Ontario's future O-102 connection.

An overall vicinity map is provided to show where flow will be removed from and to (Attachment "B"). It should be emphasized that this flow is already permitted in the system.

Flows provided by the City for this connection:

SUMMARY OF FLOW RATES UTILIZED

Chino Regional Connection C-42: Average Flow Rate =0 .001MGD (1,000 gpd)
Peak Dry Weather Flow (PDWF) Rate = 0.00257 MGD (3,301 gpd)
Peak Wet Weather Flow (PWWF) Rate =0.0047 MGD (4,655 gpd)

The Average Flow was evaluated using IEUA's PDWF and PWWF formulas. The proposed additional average flow rate of 0.001 MGD is outside of the calculated remaining ultimate flow capacity of 47.7.9 MGD in the Kimball Interceptor. This adds to an ultimate calculated flow estimated to be 49.9 MGD. This creates a depth to Diameter ratio of 0.77 in this 60" line. This miner overage for ultimate PWWF is deemed acceptable, however.

.

ATTACHMENT A

February 10, 2021, City of Chino Regional Interceptor Request

CITY of CHINO

February 10, 2021

Mr. Matthew A. Poeske, PE
Senior Engineer
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Subject: Sewer Connection to existing 60" IEUA sewer in Kimball Avenue at Station 99+44.82 for the REDA project in the City of Ontario.

Dear Mr. Poeske:

The City of Chino is hereby requesting one new point of connection. The connection is a new 15" public sewer lateral to the existing 60" IEUA sewer, connection ID PC-048. The existing connection is at Station 50+34.68, manhole #7, connection ID C-1B and would be relocated to the new sewer lateral's point of connection at Station 99+44.82, manhole #16, on Sheet 5 of 20 of approved Sewer Plan D4606-5.

This proposed connection will serve a regional commercial site, consisting of an existing Arco gas station and a retail center that is currently in construction. The connection is required as the REDA project within the City of Ontario needs to construct a 36" sewer line with a 54" steel casing that also connects to the IEUA line. The existing 15" City of Chino sewer line needs to be relocated to accomplish the connection for the City of Ontario. The peak wastewater flows were provided by WestLand Group, Inc. on behalf of REDA. The sewer discharge is summarized below:

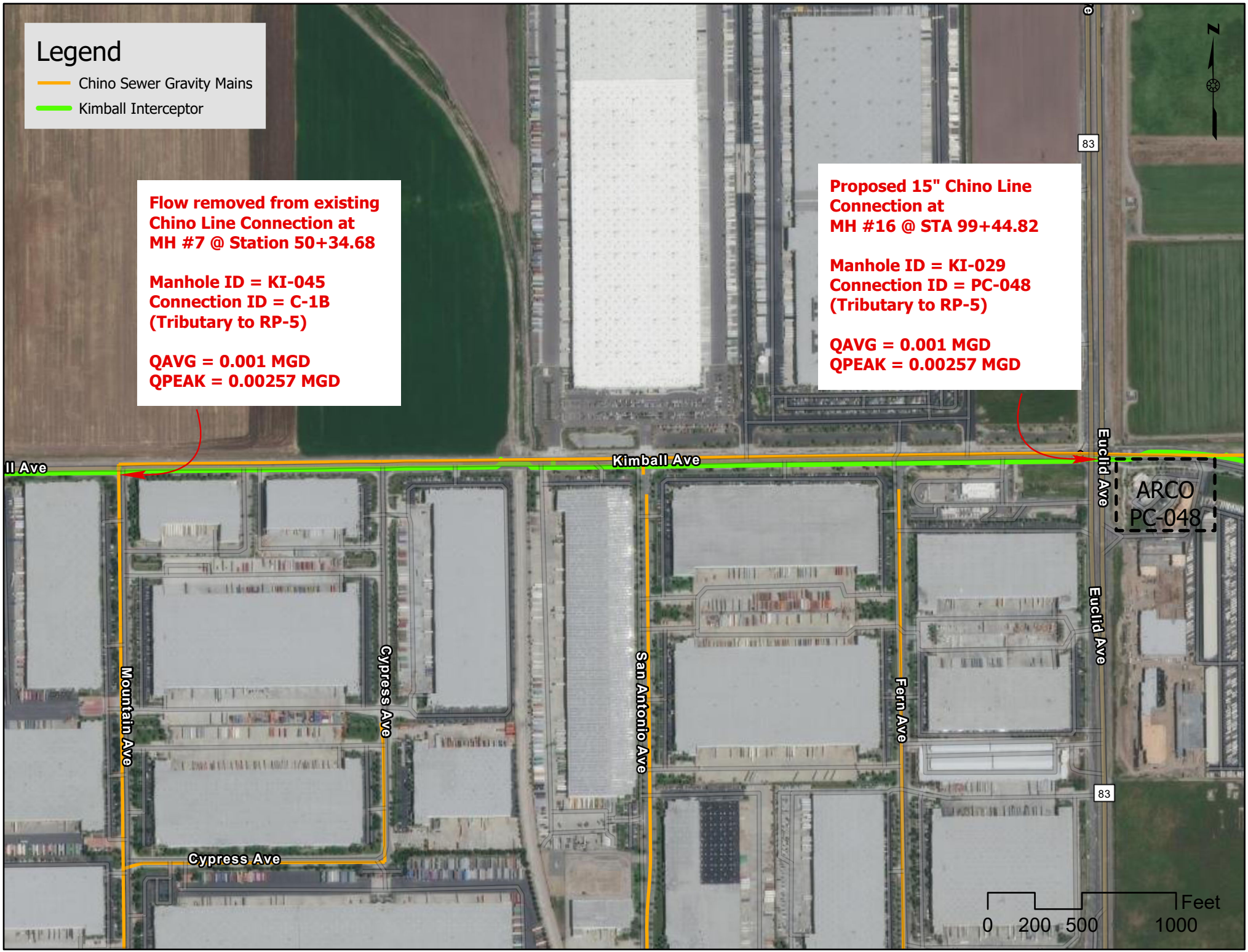
1. The estimated average outflow is 0.001 MGD
2. The estimated maximum outflow is 0.00257 MGD

If you should need any further information, please contact me at (909) 334-3417.

Sincerely,

Christopher L. Magdosku, P.E.
City Engineer

13220 Central Avenue, Chino, California 91710
Mailing Address: P.O. Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org


Legend
Chino Sewer Gravity Mains
Kimball Interceptor
Flow removed from existing Chino Line Connection at MH #7 @ Station 50+34.68
Manhole ID = KI-045
Connection ID = C-1B
(Tributary to RP-5)
QAVG = 0.001 MGD
QPEAK = 0.00257 MGD
Proposed 15" Chino Line Connection at MH #16 @ STA 99+44.82
Manhole ID = KI-029
Connection ID = PC-048
(Tributary to RP-5)
QAVG = 0.001 MGD
QPEAK = 0.00257 MGD
N
83
Kimball Ave
Euclid Ave
ARCO
PC-048
Mountain Ave
Cypress Ave
San Antonio Ave
Fern Ave
Cypress Ave
0 200 500 1000
Feet


Proposed 15" Chino Line
Connection at
MH #16 @ STA 99+44.82
Manhole ID = KI-029
Connection ID = PC-048
(Tributary to RP-5)
QAVG = 0.001 MGD
QPEAK = 0.00257 MGD
Euclid Ave
Euclid Ave
Kimball Ave
Kimball Ave
Chino 15" Sewer Pipeline
IEUA 54" Kimball Interceptor
ARCO
PC-048
83

PROFILE SCALE:
HORIZ. 1"=40'
VERT. 1"=8'

HYDRAULIC DATA

FROM STA. TO STA.	DIAMETER (inch)	DEPTH (ft)	VELOCITY (ft/sec)	d/D	SLOPE
86+00 TO 90+07.61					
Qmin.= 15.12	60"	1.15	6.86	0.23	0.006
Qmax.= 60.28		2.39	10.07	0.48	
Qrec.= 47.73		2.09	9.48	0.42	
90+07.61 TO 99+44.82					
Qmin.= 15.12	60"	1.82	3.61	0.36	0.001
Qmax.= 60.28		FULL	FULL	FULL	
Qrec.= 47.73		3.70	4.74	0.74	
99+44.82 TO 104+00					
Qmin.= 11.82	54"	1.67	3.40	0.37	0.001
Qmax.= 53.68		FULL	FULL	FULL	
Qrec.= 36.89		3.39	4.44	0.75	

* Q's ARE IN MILLION GALLONS PER DAY

CONSTRUCTION NOTES

(11) CONSTRUCT 60-INCH RCP 1700-D WITH 270° T-LOCK LINING

(12) CONSTRUCT 54-INCH RCP 1600-D WITH 270° T-LOCK LINING

(14) CONSTRUCT 6'Ø SEWER MANHOLE PER DETAIL ON SHEET 15

(18) CONSTRUCT 9'Ø SEWER MANHOLE PER DETAIL (7/7)

(19) INSTALL 54-INCH RCP WITH 360° T-LOCK LINING. ALTERNATE METHOD 1 - JACK AND BORE 84" STEEL CASING PER DETAILS SHOWN ON SHEET 2

(23) PROTECT IN PLACE

(24) CONSTRUCT 5'Ø TERMINAL SEWER MANHOLE PER DETAIL ON SHEET 15

DISPOSITION NOTES

[1] GTE SHALL RELOCATE TELPHONE LINE AND THE CONTRACTOR SHALL REIMBURSE GTE

[2] THE GAS COMPANY SHALL RELOCATE GAS LINE AND THE CONTRACTOR SHALL REIMBURSE THE GAS COMPANY

PIPELINE ℄ CURVE DATA

NO.	△	R	L	T	BC	EC
(1)	23°24'56"	90.00	36.78	18.65	101+92.35	102+29.13
(2)	22°22'21"	90.00	35.14	17.84	102+85.44	103+20.58
(3)	1°50'27"	2014.97	64.72	32.37	103+35.28	104+00.00

SCALE IN FEET
1 Inch = 40ft.

AKM CONSULTING ENGINEERS
101 PACIFICA, SUITE 150
IRVINE, CA 92618
(949) 753-7333

REGISTERED PROFESSIONAL ENGINEER JAMES E. MICKEL No. 40958 Exp. 3/31/99 CIVIL STATE OF CALIFORNIA

Designed C.Y./D.M. 8/98
Drawn AB/SWP/BS/JM 8/98
Checked J.E.M. 8/98 Date

REV. NO.	DATE	BY	APRVD	DESCRIPTION

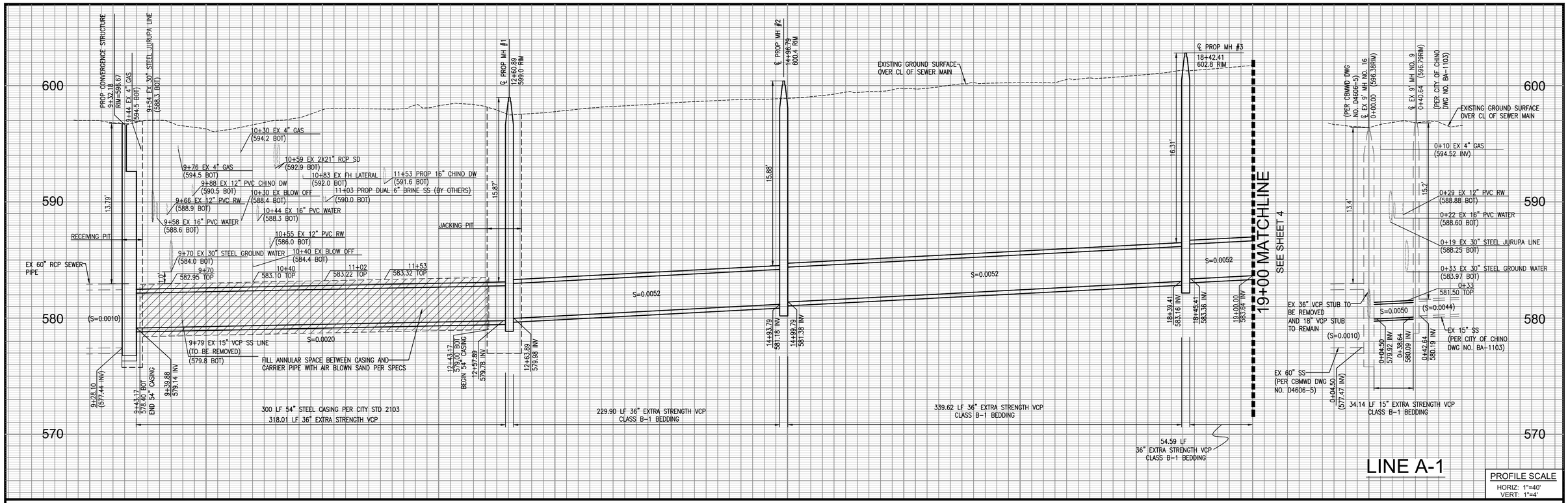
REVIEWED BY:
M. T. Morrison Date 8-20-98
Project Manager for CBMWD

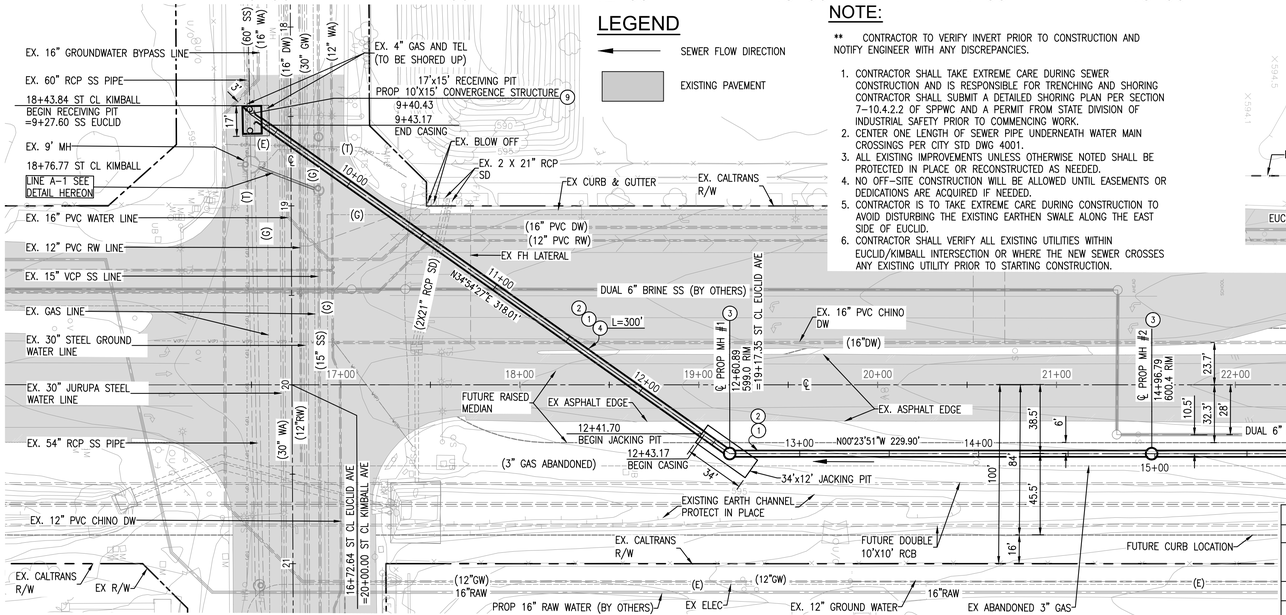
SCALE
AS SHOWN
Bar Scale shown below is one inch on original drawing. If NOT one inch on this sheet, adjust scales accordingly.
0" 1"

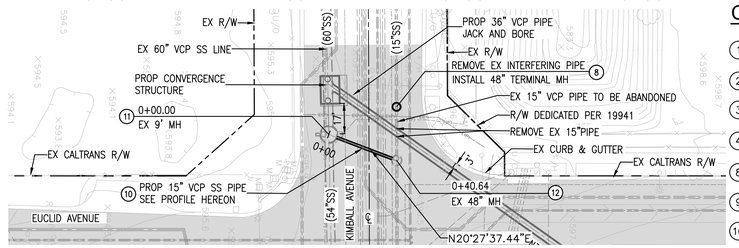
CHINO BASIN MUNICIPAL WATER DISTRICT
LOCATION: 9400 Cherry Avenue, Building A, Fontana, California 92335, Telephone (909) 357-0241
MAILING ADDRESS: Post Office Box 697, Rancho Cucamonga, California 91730

AKM CONSULTING ENGINEERS
KIMBALL INTERCEPTOR
CONTRACT EN97004
GRAVITY SEWER PLAN AND PROFILE
STA. 86+00.00 TO STA. 104+00.00

SHEET NO. 5 OF 20
JOB NO. 690231
DRAWING NO. D4606-5







LEGEND

SEWER FLOW DIRECTION

EXISTING PAVEMENT

NOTE:

** CONTRACTOR TO VERIFY INVERT PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER WITH ANY DISCREPANCIES.

1. CONTRACTOR SHALL TAKE EXTREME CARE DURING SEWER CONSTRUCTION AND IS RESPONSIBLE FOR TRENCHING AND SHORING CONTRACTOR SHALL SUBMIT A DETAILED SHORING PLAN PER SECTION 7-10.4.2.2 OF SPPWC AND A PERMIT FROM STATE DIVISION OF INDUSTRIAL SAFETY PRIOR TO COMMENCING WORK.
2. CENTER ONE LENGTH OF SEWER PIPE UNDERNEATH WATER MAIN CROSSINGS PER CITY STD DWG 4001.
3. ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED SHALL BE PROTECTED IN PLACE OR RECONSTRUCTED AS NEEDED.
4. NO OFF-SITE CONSTRUCTION WILL BE ALLOWED UNTIL EASEMENTS OR DEDICATIONS ARE ACQUIRED IF NEEDED.
5. CONTRACTOR IS TO TAKE EXTREME CARE DURING CONSTRUCTION TO AVOID DISTURBING THE EXISTING EARTHEN SWALE ALONG THE EAST SIDE OF EUCLID.
6. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES WITHIN EUCLID/KIMBALL INTERSECTION OR WHERE THE NEW SEWER CROSSES ANY EXISTING UTILITY PRIOR TO STARTING CONSTRUCTION.

CONSTRUCTION NOTES

1. CONSTRUCT 36" EXTRA STRENGTH VCP SEWER (ASTM C-700) BEDDING CLASS SHOWN ON PROFILE
2. TRENCH & BACKFILL PER CITY OF ONTARIO STD. 2104, 2105, & 1306 AND DETAILS ON SHEET 9
3. CONSTRUCT 72" SEWER MANHOLE PER CITY OF ONTARIO STD. 2001
4. CONSTRUCT 54" STEEL CASING WITH 1/2" WALL THICKNESS BY JACKING AND BORING PER CITY OF ONTARIO STD. 2103 (L PER PLAN)
8. CONSTRUCT 48" SEWER MANHOLE PER CITY OF CHINO STD. PLAN 515 AND DETAIL ON SHEET 9
9. CUT INTO EX 60" RCP PIPE AND CONSTRUCT CONVERGENCE STRUCTURE PER DETAIL ON SHEET 2
10. CONSTRUCT 15" EXTRA STRENGTH VCP SEWER (ASTM C-700) BEDDING CLASS SHOWN ON PROFILE
11. REMOVE EX 36" STUB AND CONNECT INTO EXISTING MANHOLE PER SPPWC STD DWG 208-2, CONNECTION TO MANHOLE PER IEUA REQUIREMENT AND WITH IEUA INSPECTION, DETAIL ON SHEET 9
12. CONNECT INTO EXISTING MANHOLE PER SPPWC STD DWG 208-2, CONNECTION TO MANHOLE PER IEUA REQUIREMENT AND WITH IEUA INSPECTION, DETAIL ON SHEET 9

REMOVAL NOTES

100 REMOVE EXISTING 15" SS PIPE

HYDRAULIC DATA

SEGMENT DESIGN INFORMATION				DESIGN CAPACITY									REQUIRED CAPACITY		
FROM STA – TO STA	LENGTH (LF)	SIZE (IN)	SLOPE	MAX 0.82 FULL		DEFICIENT 0.64 FULL		CLEANSING FLOW		DEPTH TO DIAMETER			PWWF	PDWF	ADWF
				Q_{MAX}	V_{MAX}	Q_{DEF}	V_{DEF}	Q_{CLS}	V_{CLS}	d/D_{PW}	d/D_{PD}	d/D_{AD}	Q_{PW}	Q_{PD}	Q_{AD}
EXISTING 60" IEUA MAIN	–	60	0.0010	34.100	4.00	–	–	–	–	0.77	–	–	49.600	37.010	23.853
9+39.88 TO 12+57.89	318.01	36	0.0020	16.765	4.34	13.165	9.23	0.704	2.00	0.407	0.348	0.264	16.765	12.511	7.337
12+63.89 TO 14+93.79	229.90														
14+99.79 TO 18+39.41	339.62	36	0.0052	16.765	6.93	12.511	6.44	0.0052	2.00	0.523	0.441	0.331	16.765	12.511	7.337
18+45.41 TO 19+00.00	54.59														

* FLOWS (Q) ARE IN MILLION GALLONS PER DAY
** VELOCITIES (V) ARE IN FEET PER SECOND

40' 0' 20' 40' 80'
SCALE: 1" = 40'

KIMBALL AVENUE

EUCLID AVENUE

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: RS
DATE: 6-12-2020
DRAWN BY: RS
DATE: 6-12-2020
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., PRINCIPAL ENGINEER DATE

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER DATE

BENCH MARK No. GG-18-1
ELEV. 635.273' (NAVD '88)
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO EE-38-1," SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No.85559 Exp. 9/30/2020 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. DATE

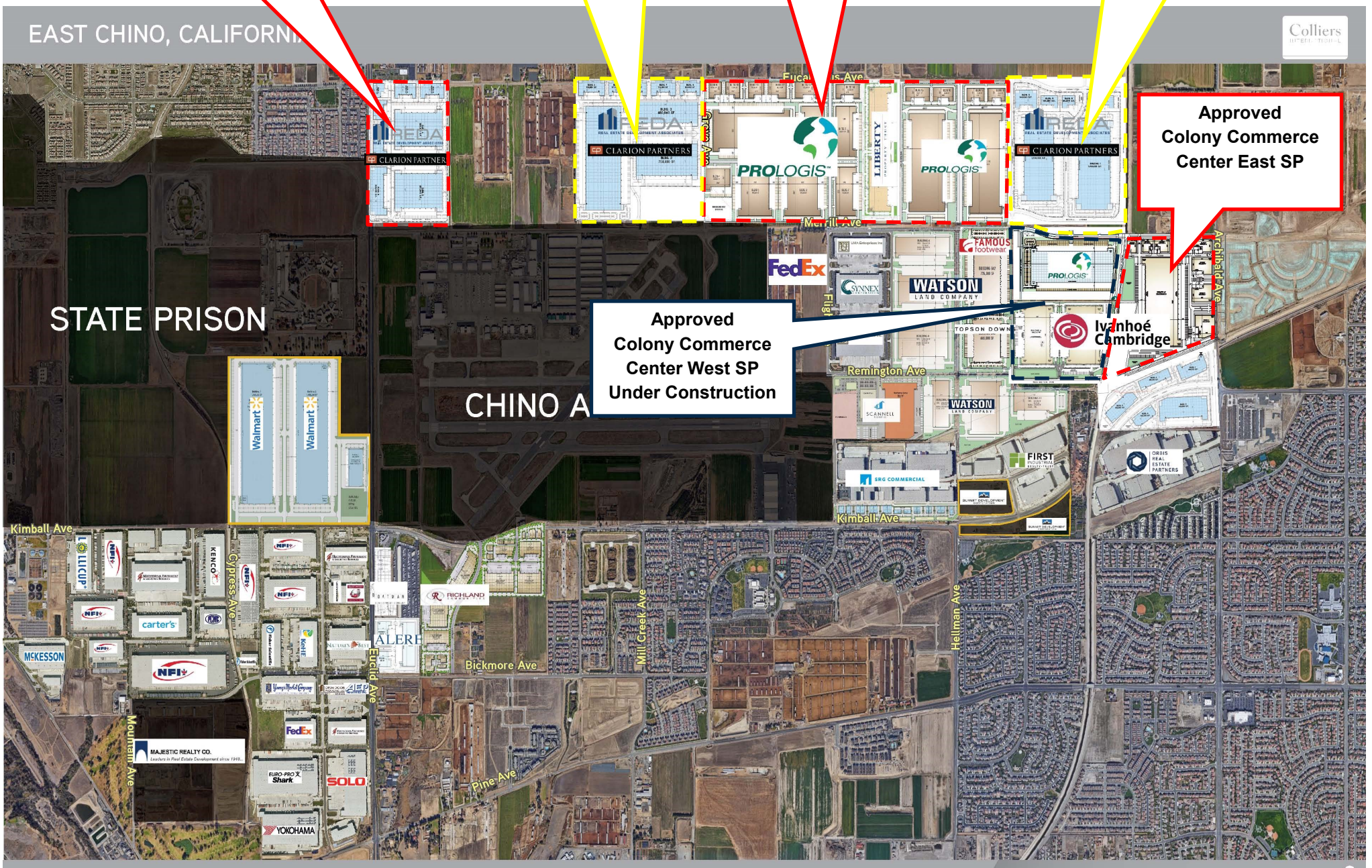
SEWER IMPROVEMENT PLAN AND PROFILE
WESTERN TRUNK SEWER
EUCLID AVENUE
FROM KIMBALL AVENUE TO MERRILL AVENUE
FROM KIMBALL AVE TO 884' NORTH OF KIMBALL AVE

M-1219

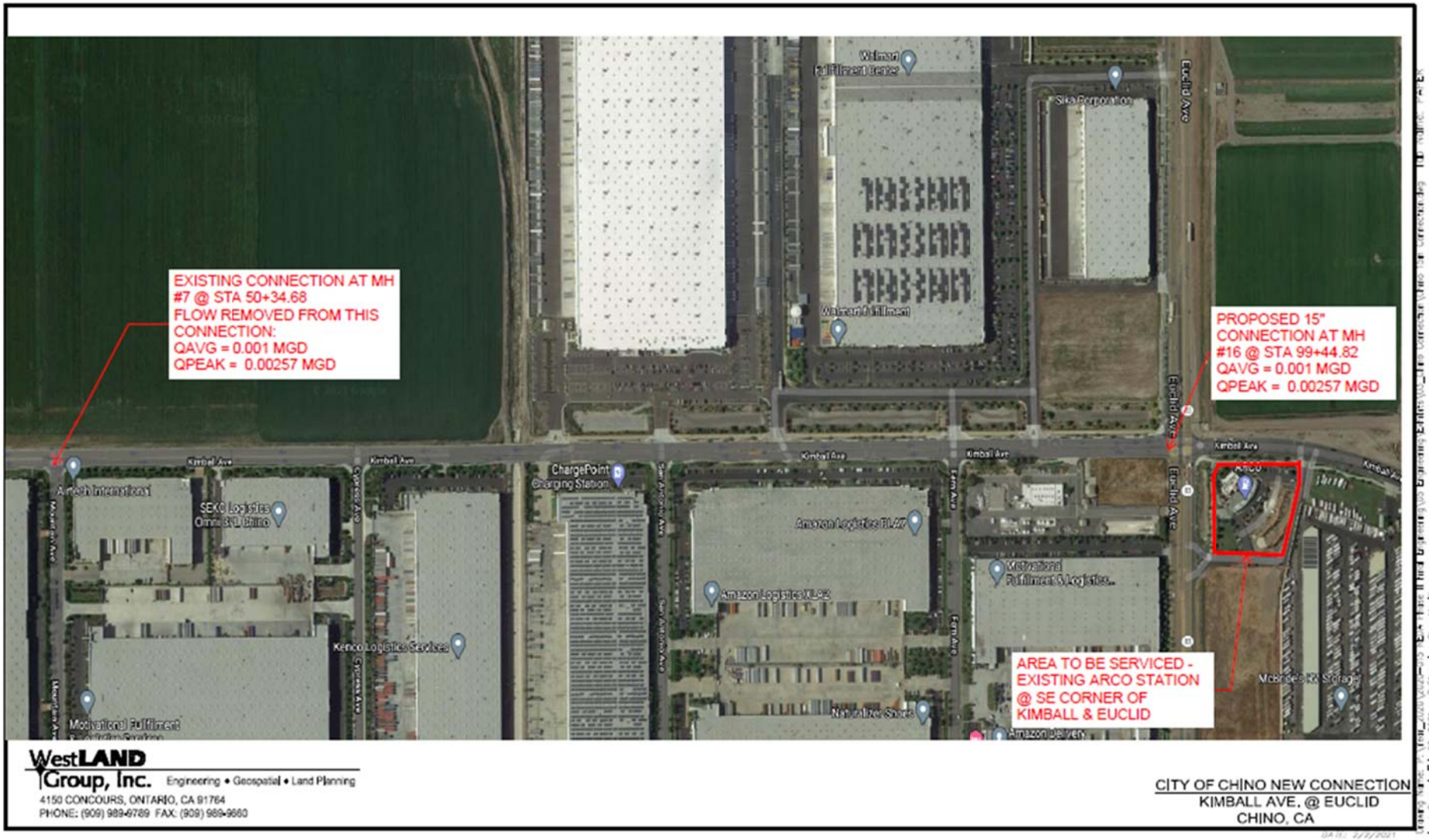
SHEET 3 OF 9
CONTRACT
ACCOUNT
DWG. NO.

Drawing Name: P:\Year...2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\SEWER EUCLID_CALTRANS\03-08_2020-015_SS_CAL.dwg
Last Opened: Dec 08, 2020 - 12:27pm by: rihome.saw

12/08/2020


Ontario Ranch Business Park SP
Both SP and EIR in Process
Grove Avenue Business SP
Both SP and EIR in Process
Merrill Commerce Center SP
Both SP and EIR in Process
Approved
West Ontario Commerce Center SP
Under Construction
Approved
Colony Commerce
Center East SP
Approved
Colony Commerce
Center West SP
Under Construction
EAST CHINO, CALIFORNI
STATE PRISON
CHINO A
Colliers
CLARION PARTNER
CLARION PARTNERS
PROLOGIS
LIBERTY
FedEx
SYNNEX
WATSON
LAND COMPANY
FAMOUS footwear
Ivanhoé Cambridge
TOPSON DOWNS
SCANNELL
SRG COMMERCIAL
FIRST INDUSTRIAL
ORBIS REAL ESTATE PARTNERS
Walmart
Walmart
Kimball Ave
Merrill Ave
Remington Ave
Archibald Ave
Cypress Ave
Mill Creek Ave
Hellman Ave
Bickmore Ave
Pine Ave
Mountain Ave
Euclid Ave
carter's
MCKESSON
NFI
RICHLAND
ALERE
MAJESTIC REALTY CO.
SOLO
YOKOHAMA
10

ATTACHMENT B
General Location for Connection C-42



WestLAND Group, Inc. Engineering • Geospatial • Land Planning
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

CITY OF CHINO NEW CONNECTION
KIMBALL AVE. @ EUCLID
CHINO, CA

ACTION ITEM

1E

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 29, 2021

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Expanded Return to Sewer Study

RECOMMENDATION

It is recommended that the Regional Technical Committee provide its consent for IEUA to initiate the expanded Return to Sewer Study (RTSS) with California Data Collaborative.

BACKGROUND

In January 2020, the Regional Technical Committee authorized the initiation of the Pilot RTSS as part of the ongoing discussions related to growth forecasting and Exhibit J in the Regional Contract Negotiations. The purpose of the Pilot RTSS was to establish a model that could be used to calculate estimated return to sewer flows for residential and non-residential customer classes based on water consumption in the City of Montclair/Monte Vista Water District service area.

A technical subgroup of Regional Contracting Agency and IEUA representatives was established as a technical subgroup to review updates from the project consultant, Advanced Research in Government Operations (ARGO), for the duration of the project. The project commenced on April 22, 2020 and after six months of data analysis and periodic updates, a draft final report was presented to the technical subgroup on November 5, 2020. On December 7, 2020, the final report and results for the Pilot RTSS were presented to the Regional Technical Committee. During that meeting, two options for next steps were discussed which included moving forward with conducting flow and wastewater monitoring in the pilot study service area or performing an expanded RTSS in other Contracting Agency service area(s) while postponing the flow and wastewater monitoring until after pandemic conditions have eased. IEUA advised the Regional Technical Committee that an action item would be brought back for consideration once the technical subgroup had time to evaluate the scope and costs of an expanded study.

On January 11, 2021, the technical subgroup reconvened to further review the next steps of the RTSS that were discussed at the Technical Committee. The technical subgroup members were in support of an expanded study with three members (City of Chino, City of Ontario, and Cucamonga Valley Water District (CVWD)) interested in participating in the next phase. Over the next few months, ARGO, which has since updated their name to the California Data Collaborative (CaDC),

received input from the Technical Subgroup to complete an expanded RTSS scope and study proposal.

Two additional meetings with the technical subgroup were held in March and April 2021 to review the proposal and associated costs. The Cities of Chino and Ontario and Cucamonga Valley Water District agreed to participate in the expanded study. The additional members of the subgroup, Cities of Fontana, Montclair and Upland also support the expanded study.

CALIFORNIA
DATA
COLLABORATIVE

Inland Empire Utilities Agency

Return to Sewer Flow Estimation

Expanded Study

Proposed Scope of Work

March 15, 2021

Project

The California Data Collaborative (CaDC) proposes to expand on the Return to Sewer Flow Pilot Study, conducted for Inland Empire Utilities Agency (IEUA) from April 2020 – January 2021 under our previous name: Applied Research in Government Operations (ARGO)[*]. The CaDC proposes to leverage the methods developed during the pilot study in order to scale to an expanded study area, thereby bringing more data from diverse parts of IEUA's service area to bear on the question of estimating sewer flows from metered billing data. This expanded scale and scope will help to address some of the areas for improvement identified by the pilot study final report, including:

- Determining the impact of building age on sewer flows for customer categories with little variation in the Monte Vista/Montclair service area.
- Improving estimates of sewer flows (or flows per unit) for customer categories with poor representation in the pilot study data set including large multifamily, nursing homes, lodging, gas stations, car washes, etc.
- Looking at variation in sewer flow estimates across different parts of IEUA's service area.
- Preliminary validation of return to sewer estimates against measured sewer flow data.

Background

IEUA contracts with seven agencies (the contracting agencies) to provide wastewater treatment services for more than 800,000 residents in western San Bernardino County. Treatment costs are driven in large part by the total volume of flows into the water recycling plants along with the Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) loads in the wastewater. Since these are the primary driver of costs, they are also the primary components of the regional sewer billing formula that IEUA uses to recover costs.

This regional sewer billing formula holds at its core the concept of an Equivalent Dwelling Unit (EDU) defined in Exhibit J, which is an attachment that is part of the Regional Sewage Service Contract between the contracting agencies and IEUA. The EDU is a numerical value designation where one EDU represents the sewage flow from a single-family residential (SFR) household. Each EDU is defined using an assumption of 270 gallons per day, 230 mg/L BOD, and 220 mg/L TSS for an SFR household.

Since the formula was first developed, water demands per capita have dropped sharply across California due to the spread of water efficient appliances combined with behavioral change driven by severe drought. This reduction in water demands leads to a corresponding reduction in sewer flows from indoor water appliances. Reduced sewer flows combined with presumed higher

[*] The CaDC is essentially the same organization as ARGO in all areas that matter (key staff, operations, etc). The shift from ARGO to CaDC represents changes in our branding as well as a change of our underlying fiscal sponsor from the National Center for Civic Innovation to Social and Environmental Entrepreneurs, both 501(c)(3) nonprofit organizations.

concentrations of BOD/TSS have implications for the EDU equation and other billing procedures. This expanded study contributes to the understanding of sewer return flows to help with this process.

To estimate sewer flows at the level of individual customers and customer categories, the ideal scenario would be to place flow monitors either in the sewer system or directly on water end use appliances that discharge to the sewer. This approach is accurate but costly, and this increased cost means that only a limited number of locations can be monitored. This expanded study, in contrast, will aim to estimate sewer flows using metered water demand data by isolating indoor water demand from outdoor demand using statistical methods. All indoor demand is then assumed to return to the sewer. This approach, that was developed in the previous pilot study, will allow for lower costs and expanded coverage relative to the alternatives.

Project Scope

The CaDC will build on the methods developed during the pilot study to estimate return to sewer flows and will apply these methods within additional contracting agencies in IEUA's service area. These methods are described in detail in the Return to Sewer Flow Estimation Final Report, dated November 30, 2020 produced at the conclusion of the pilot study. The approach is described in brief here.

- Metered water consumption data for each contracting agency choosing to participate in the study will be obtained, cleaned, and standardized through the CaDC's refined onboarding process.
- Retail water customer information will be joined with county assessor parcel data to access information such as the number of units in residential properties.
- Commercial, Industrial, and Institutional customers will be classified according to detailed commercial subcategories.
- All parcel and commercial category data will undergo an extensive manual quality control process to ensure that the subsequent data analysis is high quality.
- Sewer flows will be estimated using several different modeling methods including minimum month and a statistical estimation using a linear regression model.
- Additional analysis of specific commercial subcategories, or geographic regions will be conducted, as appropriate, when requested by IEUA and stakeholders.
- Project updates will be provided to stakeholders at IEUA on a bi-weekly basis, and to stakeholder technical subgroup on a monthly basis or as needed.

- A final report will be provided to stakeholder technical subgroup documenting the methods used and results obtained.

Optional Tasks

Validation of Return to Sewer Estimates Against Measured Flow Data

To demonstrate the accuracy of the CaDC's approach to estimating return to sewer (RTS) flows, measured sewer flow rates can be compared against RTS model estimates. The preferred approach would be to conduct this comparison across the entire study area and take measurements of BOD and TSS in tandem with flow monitoring. Unfortunately, the coronavirus pandemic has led to a drastic shift in residential and commercial water use patterns resulting in flow and BOD/TSS measurements taken during the pandemic that are unrepresentative of a post-pandemic timeframe.

Since the preferred approach is not currently feasible, the CaDC proposes a middle ground approach that would compare flow estimates from the Chino and/or Ontario service area to sewer monitoring measurements previously taken as part of a sewer master plan update or similar process. These measurements are not likely to generalize broadly, but they could be used to compare against sewer flow volumes predicted by CaDC's RTS model. Any substantial deviations found between measured and estimated flows could be fed back into the RTS model to adjust the estimated flows.

Any flow monitoring data taken during the winter will likely be influenced by inflow and infiltration (I&I) into the sewer system. Therefore, the results of sewer flow monitoring would need to be adjusted to subtract out I&I before comparing to RTS measurements.

Timeline and Budget

Timeline

The following timeline provides CaDC staff's estimation of the time required to complete the work. We estimate 9 months to conduct the study beginning in April 2021.

Task	Month:	A	M	J	J	A	S	O	N	D
Onboard new agencies and prepare meter data										
Expand RTS study to include new data										
Sewer flow monitoring data analysis										
Periodic calls, update memos, and presentations										
Final report										

Budget

The table below provides the cost for each proposed task, including subtotals for base costs that do not depend on the participation of different agencies, as well as variable costs that differ depending on which agencies ultimately participate. Costs are listed independently for each interested agency, as well as the combined cost to include all three agencies in the study.

An estimated cost per meter is shown to demonstrate that the marginal cost of including data in the study goes down as more agencies participate. A table of costs for optional tasks is also included.

Project Manager	Data Scientist	GIS Analyst
$130 / hour	$110 / hour	$50 / hour

Base Costs	**Staff**		**Flat Cost**	**Approx. Hours**
Parcel Data Preparation	GIS Analyst(s)		$6,000	120
Data Analysis and RTS Estimation	Data Scientist		$15,000	136
Project Management, Communications, and Deliverables	Project Manager		$18,000	138
Base Subtotal			**$39,000**	

Variable Costs	**Staff**	**Chino only**	**Ontario only**	**Cucamonga Valley only**	**All three**	**Approx. Hours (All three)**
Meter Data Preparation	Data Scientist	$8,000	$8,000	$8,000	$24,000	218
Integrate and Categorize CII Data (depends on # of service connections)	GIS Analyst(s)	$4,000	$7,000 †($1,000)	$10,600	$21,600	432
Variable Subtotal		**$12,000**	**$15,000**	**$18,600**	**$45,600**	
Total Project Cost Excluding Optional Tasks (cost depends on which agencies participate)		**$51,000**	**$54,000 †($48,000)**	**$57,600**	**$84,600 †($78,600)**	
Cost per meter included in the study, shown for comparison purposes only						
Approx. # of Connections		19,048	34,308	53,356	106,712	
Cost per Connection		**$2.68**	**$1.57**	**$1.08**	**$0.79**	

Optional Tasks (described above)	**Flat Cost**
Comparison of Estimated RTS Flows with Measured Sewer Flows for Chino and Ontario	$15,000
Total Project Cost Including Optional Tasks	**$99,600**

† *Costs are if Ontario decides to proceed with Ontario Ranch and Edenglen residential areas*

Outcomes

By working with the CaDC on an expanded return to sewer flow study, IEUA and the regional contracting agencies can operate with the confidence that they have the most granular and up-to-date information on return to sewer flows available. This information in turn will provide the foundational data to support IEUA's upcoming cost of service/rate study.

This expanded study will give also provide IEUA and the regional contracting agencies a well-documented and reproducible methodology to ground its cost of service/rate study in fact, leading to rates that accurately recover the true costs to the system incurred by various types of sewer customers.

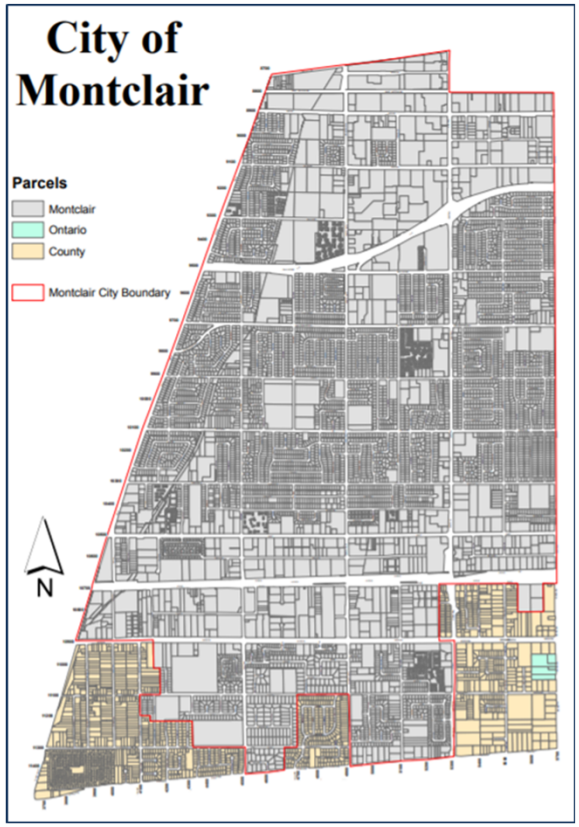
Expanded Return to Sewer Study

Ken Tam
Senior Engineer
Regional Technical Committee
April 29, 2021

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Return to Sewer Study

- Pilot Study completed for the Montclair/Monte Vista Water District Service Area (April through November 2020)
- Model Developed to Calculate Return to Sewer Flows
  - Water demands and subtracting estimated outdoor demands
- January 2021 – Path Forward (Technical Subgroup)
  - City of Chino, City of Ontario, and Cucamonga Valley Water District service areas
- March/April 2021 – Expanded Return to Sewer Study
  - Technical Subgroup members agree to expanded study



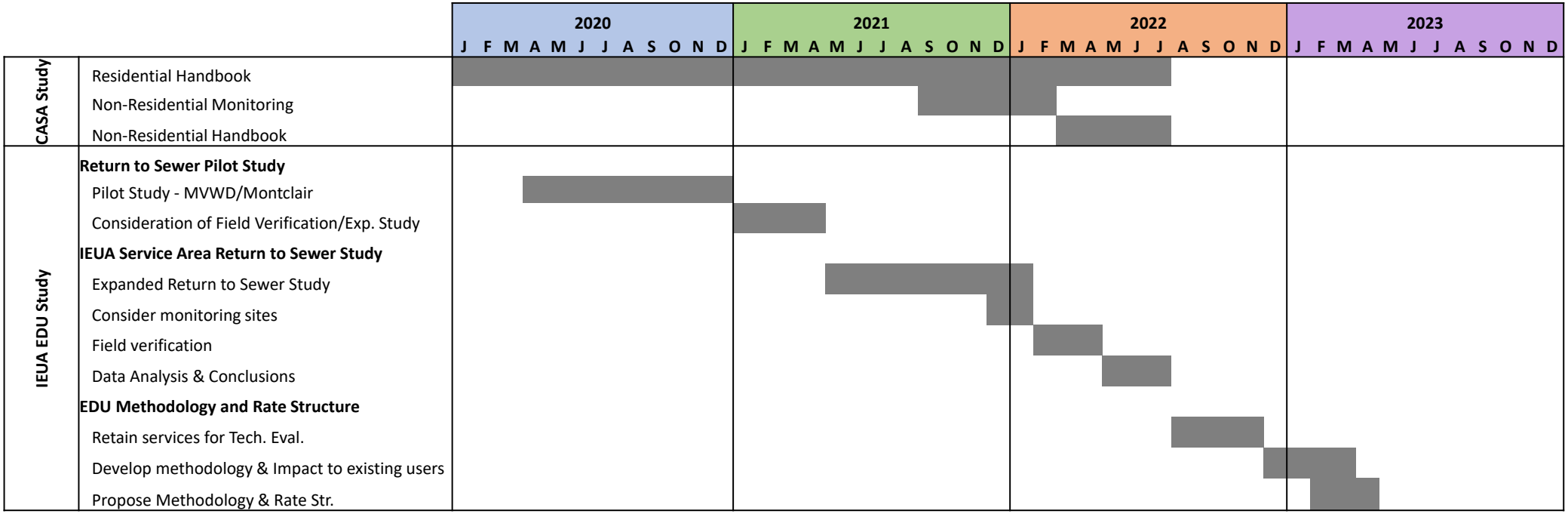
Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Project Budget

Description	Flat Cost
Base Costs	***$39,000***
Parcel Data Preparation, Data Analysis, Project Management, Communications and Deliverables	$39,000
Variable Costs	***$45,600***
Meter Data Preparation, Integrate and Categorize Commercial Data (dependent on # of connections)	
• City of Chino Service Area	$12,000
• City of Ontario Service Area	$15,000
• Cucamonga Valley Water District Service Area	$18,600
Optional Tasks	***$15,000***
Comparison of Return to Sewer Model Flows to Measured Sewer Flows for Chino & Ontario	$15,000
Total Project Cost:	**$99,600**

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

EDU Evaluation Timeline



Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Recommendation

It is recommended that the Regional Technical Committee provide its consent for IEUA to initiate expanded Return to Sewer Study with California Data Collaborative.

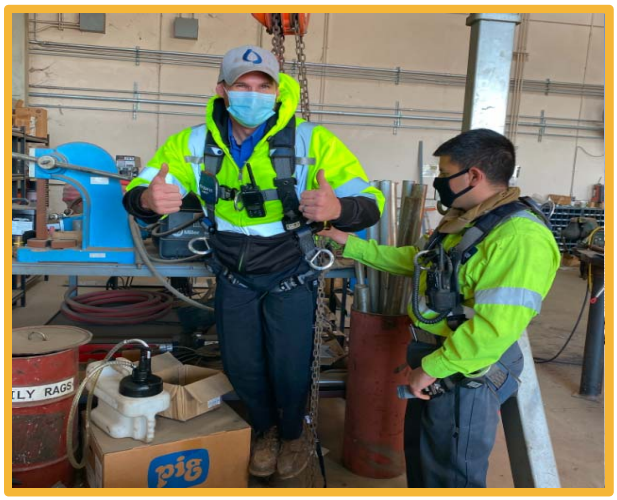
*The Expanded Return to Sewer Study is consistent with the **IEUA's Business Goal of Fiscal Responsibility & Wastewater Management**. The project will specifically support planning efforts related to Equivalent Dwelling Unit equation in Exhibit J and regional growth forecasting.*

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

INFORMATION ITEM

2A

Operations Division Quarterly Update



Inland Empire Utilities Agency
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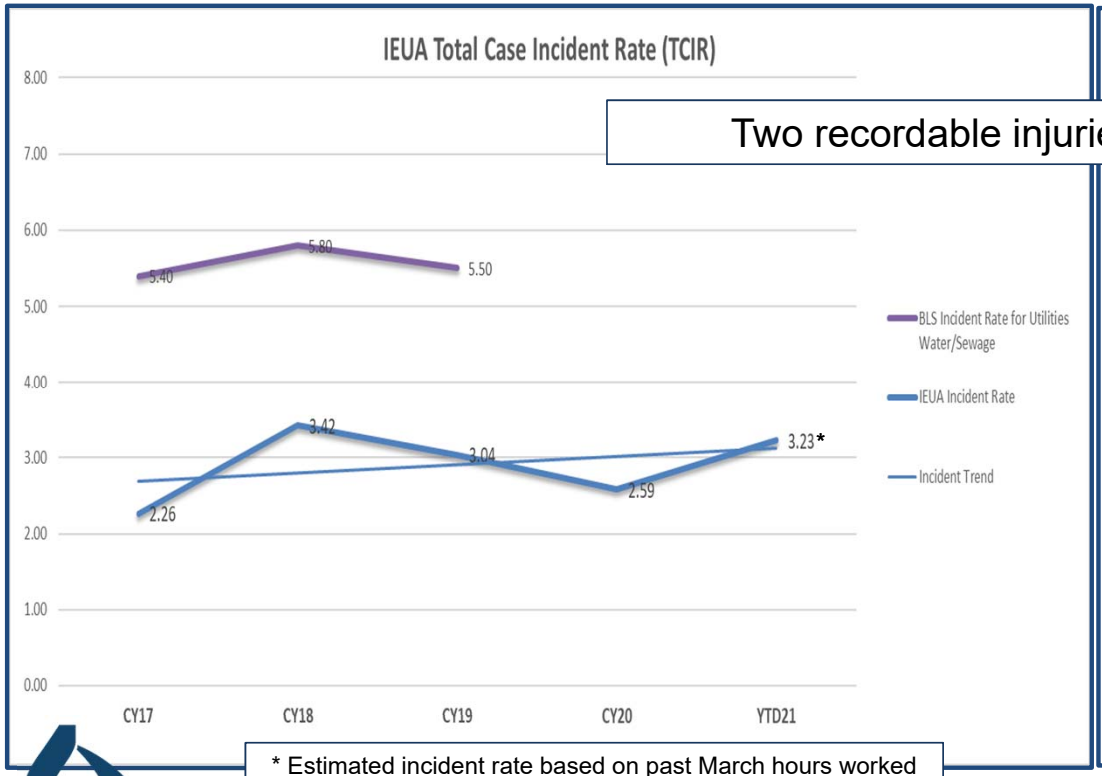
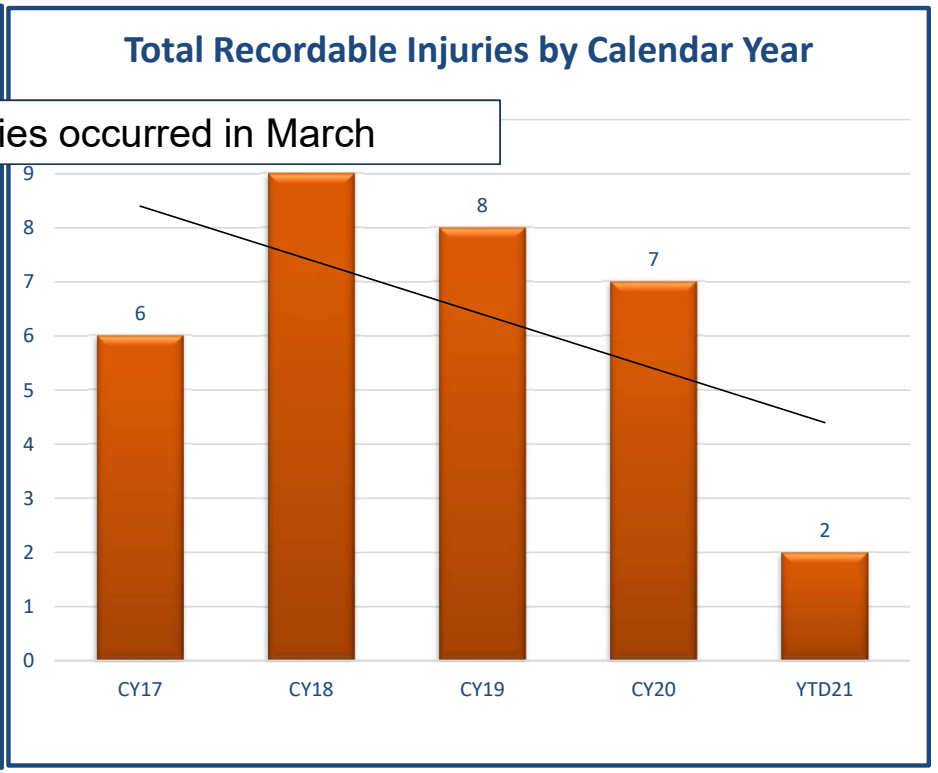
Jeff Ziegenbein
Manager of Regional Compost Authority
April 2021

IEUA Incident Rates vs. Industry & Total Recordable Injuries



Two recordable injuries occurred in March



* Estimated incident rate based on past March hours worked

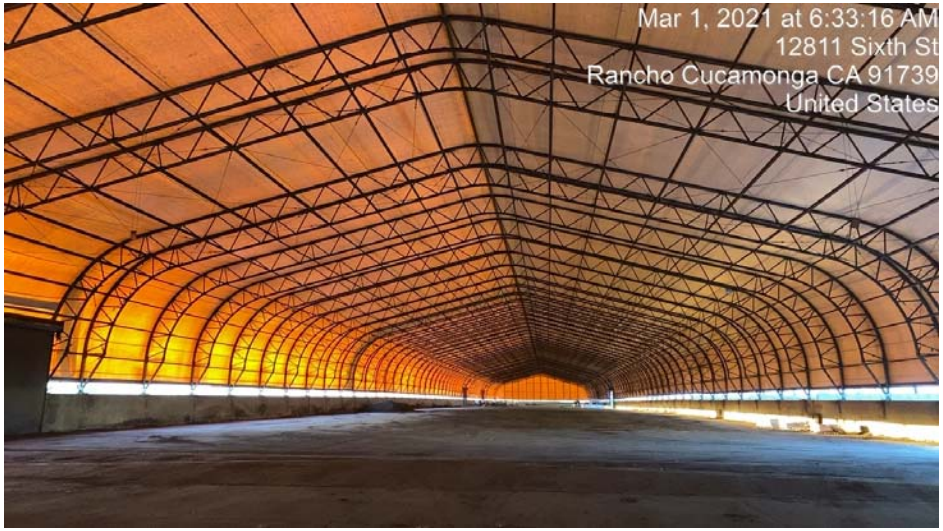
Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

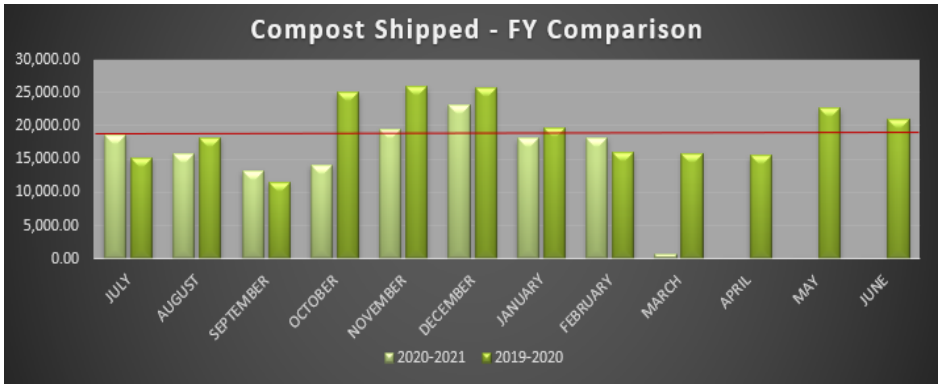
IERCF Risk and Safety

- Over 600 days – no recordable or lost time incidents
  - 22,000 trucks/year over scale
  - >200,000 tons material processed
  - Thousands of wheel loader trips inside tight quarters
  - Mechanics, weld and often work in confined space.

Compost Sales

- Completely sold out of compost (230,000 cubic yards/year)
  - 80% Landscape
  - 15% Agriculture
  - 5% Give back to cities

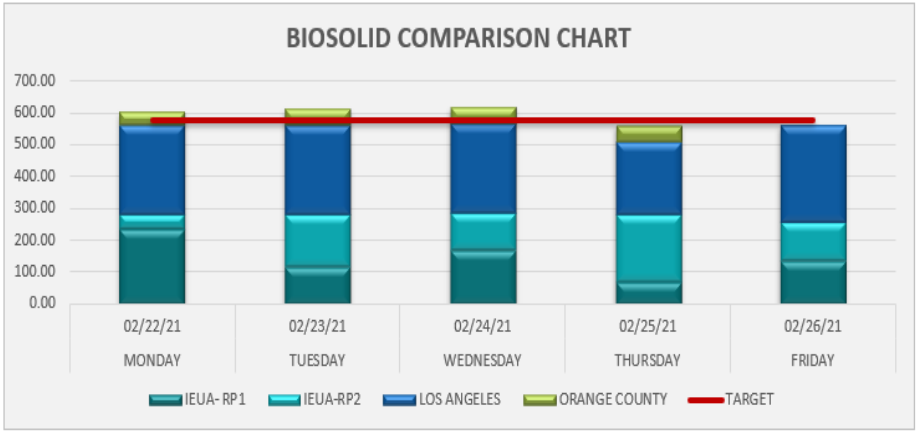




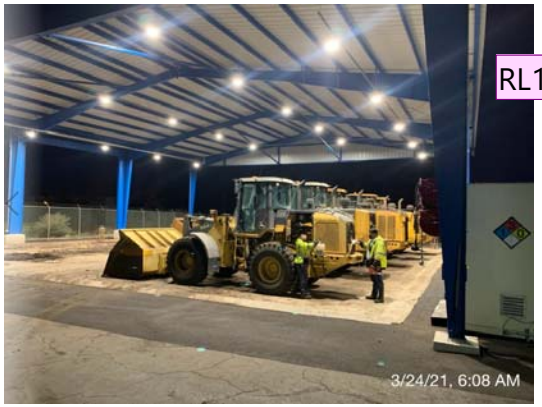
IERCF Operations

Biosolids Received

AGENCY/PLANT	MONDAY 02/22/21	TUESDAY 02/23/21	WEDNESDAY 02/24/21	THURSDAY 02/25/21	FRIDAY 02/26/21	TOTAL	%
IEUA- RP1	182.66	183.47	205.08	114.09	165.02	850.32	29%
IEUA-RP2	96.23	88.86	69.18	165.52	115.67	535.46	18%
LOS ANGELES	276.12	276.26	275.33	276.72	277.58	1382.01	47%
ORANGE COUNTY	49.53	49.74	25.01	49.39	0.00	173.67	6%
	604.54	598.33	574.60	605.72	558.27	2941.46	

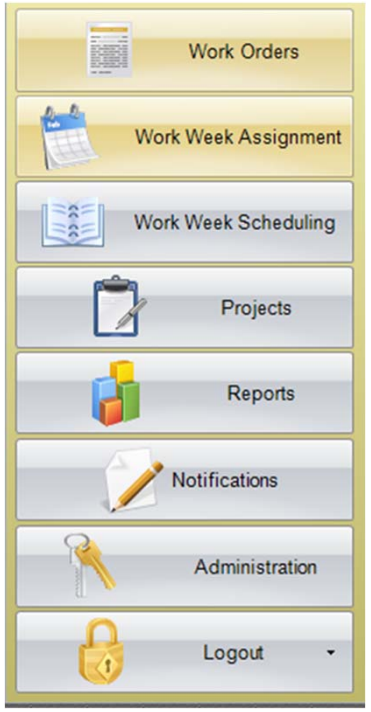


- Maintaining full capacity
  - 800 tons/day biosolids and green waste
- Perfect environmental compliance
- 25 FTEs



Maintenance Scheduling Software

- IEUA procured scheduling software called PaSTA
- Testing at IERCF – then to all IEUA
- Improves efficiency and transparency
- Supports reliability
- Supports Asset Management



Enhanced Scheduling Views

- SAP 1 Week Schedule

Order	Operation short text	Earl.start date	Earl. fin.
3403942	ACTV BC19 skirting bad	03/05/2021	03/05/2021
3403943	ACTV BC19 scapper bad	03/05/2021	
3407835	LUBRICATION O	03/05/2021	
3402520	AH #1 & #2 Curb	03/08/2021	03/14/2021
3407210	Loader 622 Backu	03/01/2021	03/01/2021
3398224	RECV BC 3 Tail pi	03/03/2021	03/03/2021
3408462	SCRN BC29 roller	03/01/2021	03/07/2021
3408491	ACT fire sprinkler leak	03/01/2021	
3408555	BAG house sprinkler leak	03/01/2021	
3402520	AH #1 & #2 Curb needs repair	03/08/2021	03/14/2021

Requires daily exporting data to Excel

WO#	Task Description	Scheduled Start	Scheduled Finish	Priority	Scheduled Hours	Status
3403937	Replace 2 troughing rollers SCRN BC 23	02/08/2021	02/08/2021	Low	2.0	NTST
3406386	Replace3 Rollers SCRN BC23	02/08/2021	02/08/2021	Urgent	2.0	NTST
3406696	ACTIVE OXYGEN SENSORS (2W)	02/08/2021	02/08/2021	Medium	0.5	NTST
3406781	SKID STEER EQUIPMENT	02/08/2021	02/08/2021	Medium	4.0	NTST
3406865	BIOFILTER DRAIN PUMPS	02/08/2021	02/08/2021	Medium	2.0	NTST
3407207	East washpad hose nozle leaking	02/08/2021	02/08/2021	Medium	1.0	NTST
3407276	MONDAYS LOADER PM	02/08/2021	02/08/2021	Medium	2.0	NTST
3407281	MONDAY ACTIVE PROBE INSP				1.0	NTST
3407326	ACTV Conveyors unused P				2.0	NTST
3407327	Loader 0624 LED light bar is fli				2.0	NTST
3405859	ROOF SUPPLY FANS 5-8 (				7.0	NTST
3406077	SCRN BC20 Return rolle				1.0	NTST
3406226	RECEIVING SCREW PREDICTIV				4.0	NTST
3406393	Repair Hand-Rail in Receiv				2.0	NTST
3406582	RECV BC 6 worn return roller on trainer	02/09/2021	02/09/2021	Low	1.0	NTST
3406765	SOUTH CURING FANS	02/09/2021	02/09/2021	Medium	7.0	NTST
3407210	Loader 622 Backup camera, Washer fluid,	02/09/2021	02/09/2021	Urgent	4.0	NTST
3407275	HUMIDIFICATION FILTER CHANGE (TUESDAY)	02/09/2021	02/09/2021	Medium	1.0	NTST
3407277	TUESDAY'S LOADER PM	02/09/2021	02/09/2021	Medium	2.0	NTST
3406247	Repair SCRN EF5 Dampeners	02/10/2021	02/10/2021	Urgent	4.0	NTST
3406600	NORTH ACTIVE FANS	02/10/2021	02/10/2021	Medium	7.0	NTST

2/8 2/9 2/10 2/11 2/12

- New software 4-week Schedule
  - Work order automatically downloaded to software
  - Ease of use, drag and drop, auto populate
  - Automatic KPI reports

T: 0 — Week of: 03/01/2021 37 records

WO ID	T	TASK DETAILS	PW Hrs	PROG	EARLIEST_SCHED_STAR	EARLIE
3407975	1	Remove S. Loadout Door Rubber Stripping	0	C	3/1/2021 12:00:00 AM	3/7/202
3407970	2	ACTV PF3 Tear Down	1.5	C	3/1/2021 12:00:00 AM	3/7/202
3407544	2	ACTV-NORTH Pf3 belt tension 5 pounds	4	C	3/1/2021 12:00:00 AM	3/7/202
3408462	1	SCRN BC29 roller is hanging	0		3/1/2021 12:00:00 AM	3/7/202
3408491	1	ACT fire sprinkler leak	0		3/1/2021 12:00:00 AM	3/7/202
3408555	1	BAG house sprinkler leak	0		3/1/2021 12:00:00 AM	3/7/202
3407303	1	ACTV-NORTH PF #4 sheaves dished	3	C	3/1/2021 6:00:00 AM	3/1/202
3407917	1					

T: -1 — Week of: 03/08/2021 31 records

WO ID	T	TASK DETAILS	PW Hrs	PROG	EARLIEST_SCHED_START	EARLIE
3400461	1	Replace Gearbox BH1	4		3/8/2021 12:00:00 AM	3/14/20
3400461	2	Replace Gearbox BH1	4		3/8/2021 12:00:00 AM	3/14/20
3400461	3	Lift support to replace Gearbox BH1	4		3/8/2021 12:00:00 AM	3/14/20
3402520	1	AH #1 & #2 Curb needs repair	3		3/8/2021 12:00:00 AM	3/14/20
3402520	2	needs repair			00 AM	3/14/20
3404693	1	Install new Dir onal Plow ACTV BC12	2		021 12:00:00	3/14/20
3407	1	Hanrail Repair orth MCC)	5		021 12:00:00	3/14/20

T: -2 — Week of: 03/15/2021 reco

WO I	T	TASK DETAILS	PW Hrs	OG	RLIE SCHED_START	RLIE
3390864	1	SCRN #1 Dis-chute needs UHMW	6		3/15/2021 12:00:00 AM	3/21/20
3391934	1	RECV BH#3 Build parts list for grate	3		3/15/2021 12:00:00 AM	3/21/20
3391935	1	RECV BH#2 build parts list for grate	3		3/15/2021 12:00:00 AM	3/21/20
3402888	1	clean the maintenance shop	5		3/15/2021 12:00:00 AM	3/21/20
3402888	2	clean the maintenance shop	5		3/15/2021 12:00:00 AM	3/21/20
3403492	1	OPS front entrance ceiling hole	4		3/15/2021 12:00:00 AM	3/21/20
3403493	1	ACTV hopper belt 12 \fiber	2		3/15/2021 12:00:00 AM	3/21/20
3403938	1					

T: -3 — Week of: 03/22/2021 6 records

WO ID	T	TASK DETAILS	PW Hrs	PROG	EARLIEST_SCHED_START	EARLIEST
3401437	1	Bag house dust bin tarp redesign	30		3/22/2021 12:00:00 AM	3/28/2021 1
3404697	1	Load out ceiling hole	2		3/22/2021 12:00:00 AM	3/28/2021 1
3406261	1	Loader 0626 needs 500/1000 Hour service	4		3/22/2021 12:00:00 AM	3/28/2021 1
3407458	2	Replace bearings and belt SF17	4		3/22/2021 12:00:00 AM	3/28/2021 1
3407914	2	ACTV EF 3 Repair	3		3/22/2021 12:00:00 AM	3/28/2021 1
3407944	1	RECV BC9 drive belt fatigue	1		3/22/2021 12:00:00 AM	3/28/2021 1

INFORMATION ITEM

2B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date:	April 29,2021/May 6, 2021
To:	Regional Committees
From:	Inland Empire Utilities Agency
Subject:	Review of Proposed Biennial Budget for Fiscal Years 2021/22 and 2022/23 for the Regional Wastewater and Recycled Water Programs

RECOMMENDATION

This is an information item for the Regional Committees to review.

BACKGROUND

This time was presented as an information item at the IEUA Board of Directors meeting on April 21, 2021.

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 21, 2021

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Finance & Administration

04/14/21

Executive Contact: Christina Valencia, Executive Manager of Finance & Administration/AGM

Subject: Review of Proposed Biennial Budget for Fiscal Years 2021/22 and 2022/23 for Regional Wastewater and Recycled Water Funds

Executive Summary:

The Agency's proposed biennial budget for fiscal year (FYs) 2021/22 and 2022/23 is consistent with the the Agency's long-term planning documents and Board-adopted business goals of fiscal responsibility, work environment, water reliability, and wastewater management. A Board workshop was held on April 7, 2021 on the proposed consolidated biennial budget for all Agency funds. The focus of this review is the proposed biennial budget for the Regional Wastewater and Recycled Water programs. The proposed budget will be presented to the Regional Technical and Regional Policy Committees on April 29, and May 6, 2021, respectively.

As highlighted in the Background document, no changes are proposed to the adopted rates for FY 2021/22. FY 2022/23 assume a minor rate adjustment, between 2 percent - 4 percent, to support projected expenses related to higher utility costs due to rate increases from Southern California Edison, and the implementation of succession planning. The recommendation to adopt rates for FY 2022/23 will be provided to the Board and Regional Committees during the mid-year review cycled of the biennial budget.

Staff's Recommendation:

This is an information item for the Board of Directors to review and provide comments.

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

Account/Project Name:

Fiscal Impact (explain if not budgeted):

Full account coding (internal AP purposes only): - - - - - - Project No.:

Prior Board Action:

On June 17, 2020, the Board approved budget amendments to the Agency's FY 2020/21 adopted budget approved in 2019.
On June 19, 2019, the Board approved the Agency's biennial budget for FYs 2019/20 and 2020/21.

Environmental Determination:

Not Applicable

Business Goal:

The proposed budget for these programs is consistent with the IEUA Business Goals of Fiscal Responsibility, Water Reliability, Wastewater Management, Environmental Stewardship, and Business Practices.

Attachments:

Attachment 1 - Background
Attachment 2 - Powerpoint

Background

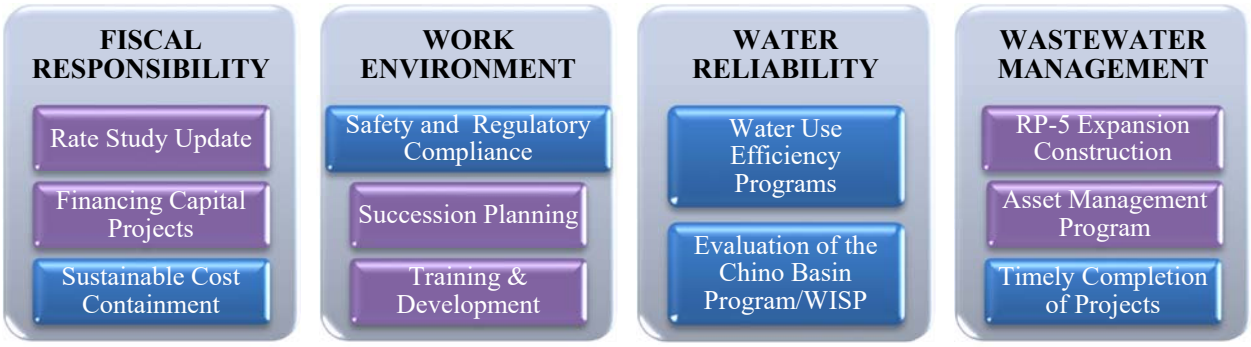
Subject: Review of Proposed Biennial Budget for Fiscal Years 2021/22 and 2022/23 for the Regional Wastewater and Recycled Water Programs

No one could have predicted the impact of the COVID-19 pandemic to our communities and our day-to-day lives. In response to Governor Newsom's Order issued on March 17, 2020, swift changes had to be implemented to keep our employees and our communities safe. More than half of our employees, our operators, maintenance staff, laboratory staff, project managers, and other Agency staff continued to come to work under stringent COVID-19 guidelines. The remainder of the employees successfully transitioned to remote work status. Decades of fiscal discipline positioned the Agency well to successfully deal with such an unprecedented event and continue to provide high quality critical services to our customers and the communities that we serve.

The successful mobilization and transition of many of our employees to remote work status has provided management an opportunity to adjust business processes to further leverage online services where it is practical to do so. While the pace of economic activity has moderated in the recent months, a return to pre-pandemic levels will depend significantly on the course of the virus and the progress on vaccinations. One year later, we remain committed to safeguarding the health of our employees and our community.

The proposed biennial budget for Fiscal Years (FYs) 2021/22 and 2022/23 (Proposed Budget) and the Ten-Year Capital Improvement Plan (TYCIP) for FYs 2021/22 – 2030/31 are based on cautious optimism of a return to new "normal" conditions. The proposed TYCIP was presented to the IEUA Board of Directors (Board) on March 3, 2021. The capital projects planned over the next ten fiscal years for the Regional Wastewater and Recycled Water programs were presented to the Regional Technical and Regional Policy Committees on March 25, 2021, and April 1, 2021, respectively as part of the Ten Year Forecast (TYF) consistent with the Regional Sewerage Service Contract (Regional Contract).

The proposed Budget and TYCIP are consistent with the Agency's long-term planning documents, and the Board-adopted 2016 Business Goals of fiscal responsibility, work environment, water reliability, and wastewater management. Some of the key objectives of the proposed biennial budget include:



Key Objective Highlights

Succession Planning: In the last seven years, an average of almost 10 employees have retired each year. The trendline is steadily increasing with 13 retirements in FY 2019/20. Today, 25 percent of full-time employees (FTEs) will be eligible to retire. The number jumps to 41 percent by 2025. Collectively, these employees have hundreds of years expertise and vast institutional knowledge that will take years to replace.

To preserve institutional knowledge, the Agency's succession planning supports the early recruitment of critical positions. Some of these critical positions include operators, electrical and instrumentation technicians, mechanics, control system analysts, and groundwater recharge/recycled water operators. For certain critical positions, such as operators, it takes between one to four years to attain an Operator Grade III certification and between four and ten years for a Grade V depending on experience and education. State regulations require a minimum Grade III certification to serve as the Designated Operator-in-Charge and a Grade V to serve as the Chief Operator based on the size of our treatment plants. Of the Agency's 28 Operators, 26 hold a Grade III or higher Operator certification and approximately 31 percent are eligible to retire within the next three years.

The percentage of operators who are eligible to retire is not unique to IEUA, as other water/ wastewater agencies across the State are dealing with the same challenge. Early recruitment of such critical positions is essential to ensure the sustainable operation of the Agency facilities and service our community. However, due to two primary factors, early recruitment has only been possible on a limited basis.

One factor is the shrinking pool of qualified candidates due to industry wide retirements and pension reform which disincentivizes experienced candidates from moving to another agency due to a loss in benefits. Agencies across state are competing for the same pool of limited qualified candidates.

The second factor is the currently authorized number of 290 FTEs. The authorized number of 290 FTEs has remained unchanged since FY 2013/14 when it was reduced from 295 as part of the Agency's cost containment efforts. While the average number of active FTEs is usually below the authorized level, all 290 authorized positions are either filled or currently in recruitment, making it difficult to fully engage in succession planning by recruiting early for positions that we know will soon be vacated, such as operators, beyond the authorized 290 FTEs level.

In some cases, limited term (LTs) employees, contracted workers, and interns have been retained to provide needed resources when an FTE position is not available. In addition to the authorized 290 FTEs, the adopted budget for FY 2020/21 includes 18 LTs, for a total of 308 positions. However, the limited nature of the LT position diminishes interest of qualified candidates who prefer the security of a full-time position. Additionally, reliance on LT positions, contracted workers, and interns for non-project work hinders the Agency's ability to engage in long-term, strategic planning.

In order to secure the critical resources needed to support continuity of critical Agency operations through the ability to engage in the necessary succession planning over the next five years, an increase in total staffing from 308 (290 FTEs + 18 LTs) to 312 (302 FTEs + 10 LTs) is proposed

for FY 2021/22. The proposed staffing level will provide management more flexibility and allow for early recruitment of certain critical positions to support preservation of critical skills and institutional knowledge transfer needed to support operations.

The focus of this review is the proposed biennial budget for the Regional Wastewater and the Recycled Water programs. These will be presented to the Regional Technical and Regional Policy Committees on April 29, and May 6, 2021, respectively.

Property Tax Re-Allocation

The current allocation of property taxes amongst Agency funds was adopted by the Board in 2016. At that time, funding was needed to support investments in regional water resource projects consistent with the Integrated Water Resources Plan (IRP) approved by the Board in November 2015 and developed in collaboration with regional member agencies. The IRP supported water supply strategies, including:

- **Groundwater:** Acquire additional supplemental water to enhance groundwater recharge, sustain production, and reduce basin salinity.
- **Imported Water**: Strategically maximize the purchase of imported water for recharge or in-lieu when available.
- **Supplemental Water**: Pursue external water supplies including exchanges, storage, and water transfers to augment groundwater recharge and recycled water programs. External supplies include surface, imported, and non-potable water.

As summarized in Table 1, the 65 percent allocation for the Regional Wastewater Capital Improvement (Wastewater Capital) fund remained unchanged. An annual fixed amount was set for the Regional Wastewater Operations and Maintenance (Wastewater Operations), the Recycled Water, and Administrative Services funds. The remaining balance was re-allocated to the Water Resources fund to support the IRP strategies not supported by the monthly meter equivalent unit (MEU) rate.

Over the last five years, the property tax allocated to the Water Resources fund has helped to support various project costs, including some at the request of member agencies:

- Seven-year phase in of the MWD Readiness-to-Serve (RTS) pass-through costs to member agencies as part of the Water Resources program rate restructuring (FYs 2016/17 – 2022/23),
- SARCCUP participation to complete the CEQA evaluation.
- Purchase of supplemental water from Cucamonga Valley Water District, and
- Evaluation of the Chino Basin Program.

While regional water resource programs continue to be a key initiative, the expansion and upkeep of Agency facilities and infrastructure will be a primary focus over the next few years. The capital projects included in the proposed TYCIP of $837 million are needed to support an increase in services from future growth as projected by member agencies, asset management for timely upkeep and improvement of aging assets, and to maintain compliance with changing regulatory and safety requirements. Nearly 74 percent of the proposed capital projects are planned for the

first four years. The financing plan for proposed TYCIP is almost evenly supported by new debt borrowings of 48 percent and pay-go of 51 percent which includes connection fees, rates, and property taxes. The remaining one percent is a conservative estimate in grant funding.

The proposed re-allocation of property taxes is summarized in Table 1.

Table 1: Property Tax Allocation by Fund ($ Millions)

Fund	Purpose	Current Allocation	FY 2020/21 Projections	Proposed Re-Allocation	FY 2021/22 Projections
Regional Wastewater Capital Improvement	Supports debt service costs for acquisition, improvement, replacement and expansion of regional wastewater facilities.	65% of total tax receipts	$36.8	No Change 65% of total tax receipts	$37.4
Regional Wastewater Operations & Maintenance	Supports capital replacements and rehabilitation cost and any operation costs not fully recovered by rates.	Fixed Annual Amount	$9.5	23%	$13.2
Recycled Water	Supports debt service costs for acquisition, improvement, replacement and expansion of regional recycled water facilities.	Fixed Annual Amount	$2.2	4.0%	$2.3
Administrative Services	Supports agency-wide costs not allocated to other Agency funds.	Fixed Annual Amount	$2.0	4.5%	$2.6
Water Resources	Supports regional water supply strategies.	Net remaining balance	$6.1	3.5%	$2.0
TOTAL			**$56.6**		**$57.5**

Regional Wastewater Program

In accordance with the Regional Contract, the Regional Wastewater Program is comprised of two funds; the Regional Wastewater Capital Improvement (Wastewater Capital) fund and the Regional Wastewater Operations and Maintenance (Wastewater Operations) fund, components of each fund are shown below in Table 2.

Table 2: Regional Wastewater Program Components

Description	Wastewater Capital	Wastewater Operations
Accounts for the Agency's regional wastewater systems	Acquisitions, construction, improvement, and expansion.	Collection, treatment, and disposal of domestic sewage treatment for the contracting agencies, capital replacement and rehabilitation costs, and organics management.
Primary Revenues & Other Funding Sources	New EDU* connection fees, property taxes, debt proceeds, and grant receipts.	Monthly EDU* sewer rate, property taxes, and contract reimbursements.
Primary Expenses and Other Uses of Funds	Capital project costs, debt service, and program support.	O&M costs including employment, chemicals, utilities, materials & supplies, etc.

**EDU = Equivalent dwelling unit is the estimated volumetric impact of a single residence.*

Regional Wastewater Capital Improvement Fund (Wastewater Capital Fund)

Total revenues and other funding sources in the Wastewater Capital fund are estimated at $77.3 million and $124.9 million for FYs 2021/22 and 2022/23, respectively. State Revolving Fund (SRF) and WIFIA loan proceeds of $0.7 million in FY 2021/22, and $44.7 million in FY 2022/23 are projected. The proceeds are to support construction of the RP-5 Expansion and other Regional Capital projects. Table 3 below summarizes the major funding sources for the Regional Wastewater Capital Improvement Fund.

Wastewater Connection Fee

New equivalent dwelling unit (EDU) connections are projected to be 4,000 each year. This projection is lower than the member agencies forecast of 8,992 and 8,563 units for FY 2021/22 and FY 2022/23, respectively. Projected connections and rates are shown in Appendix Table A3. While the Agency applies member agencies growth forecasts to plan expansion of its facilities, a lower growth forecast is applied to revenue forecasts. This conservative approach ensures facilities are ready to meet the increased service demands from future growth and provides flexibility in financing options. Revenues from wastewater connection fees are estimated at $29.5 million in FY 2021/22, and $30.4 million in FY 2022/23.

Wastewater Property Tax Receipts

Property tax receipts allocated to the Wastewater Capital fund first support annual debt service costs, then capital project expenditures. An increase of two percent in assessed valuations is assumed for property tax receipts projected for each of the next two fiscal years. FYs 2021/22 and 2022/23 projected property tax receipts are $37.4 million and $38.0 million, respectively.

Table 3: Wastewater Capital Fund Major Funding Sources

Major Funding Sources ($Millions)	FY 2021/22	FY 2022/23	Key Assumptions
Wastewater Connection Fees	$29.5	$30.4	4,000 new EDU connections at an adopted fee of $7,379 per EDU in FY 2021/22 and 4,000 new EDU connections at a projected fee of $7,600 for FY 2022/23.
Property Tax	37.4	38.0	Annual allocation of total property taxes to the Wastewater Capital fund will continue at 65% of total property tax receipts.
Debt and Grant Proceeds	0.8	44.7	SRF and WIFIA loan proceeds for the RP-5 Liquid and Solid Treatment capacity expansion and various other projects.
Inter-Fund Transfers and Other	9.6	11.8	Interfund transfer from Wastewater Operations fund to support the RP-5 Solids Treatment expansion and the CCWRF* Asset Management Improvement project, inter-fund loan reimbursement and interest revenues.
Total	**$77.3**	**$124.9**	

**CCWRF- Carbon Canyon Water Recycling Facility*

As reported in Table 4, a major expenditure in the Wastewater Capital fund is the capital investment plan (CIP) which accounts for approximately 88 percent of proposed budget. A total of $202.3 million in capital project costs is budgeted in FY 2021/22 and $154.7 million in FY 2022/23. The main driver of the proposed CIP budget is construction of the RP-5 Expansion project. Other major projects are summarized in Table 5.

Table 4: Wastewater Capital Fund Major Expenses and Other Uses of Funds

Major Uses of Funds ($Millions)	FY 2021/22	FY 2022/23	Key Assumptions
Program Support	$6.8	$6.9	Includes employment, professional services, etc. in support of CIP.
Capital Improvement Plan (CIP)	202.3	154.7	Major capital projects and the Agency's share of capital investment in IERCA as summarized in Table 5.
Debt Service	7.2	7.0	Includes principal and interest for the 2017A, and 2020A bonds, 2020B Revenue Notes and various SRF loans.
Investment in IERCA	1.0	0.8	Includes the Agency's share of capital investment in the Inland Empire Regional Composting Authority (IERCA).
Other	13.3	8.1	Inter-fund transfers for capital and debt service support to other funds.
Total	**$230.6**	**$177.5**	

Table 5: Wastewater Capital Fund Major Capital Projects

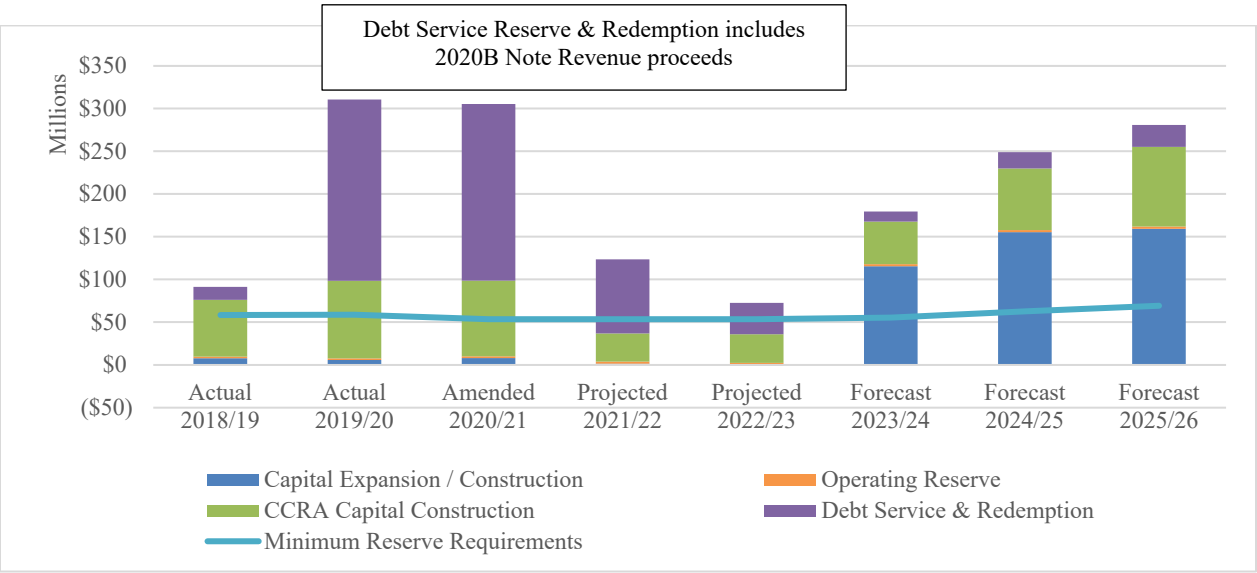
Major Projects ($Millions)	FY 2021/22	FY 2022/23	FY 2023/24 to FY 2030/31	TYCIP Total
RP-5 Expansion Construction	$177.0	$113.0	$60.2	$350.2
RP-1 Thickening Bldg. & Acid Phase Digester	12.0	13.0	75.0	100.0
Asset Management Improvements	0.2	0.3	50.6	51.1
*CCWRF Asset Management Improvements	3.0	13.0	0.7	16.7
RP-1 Solids & Liquid Treatment Expansion			55.0	55.0
All Other Capital Projects	9.1	14.6	13.8	37.5
Investment in IERCA**	1.0	0.8	6.7	8.5
Total Capital Projects	**$202.3**	**$154.7**	**$262.0**	**$619.0**

**CCWRF- Carbon Canyon Water Recycling Facility*
***IERCA – Inland Empire Regional Composting Authority*

Wastewater Capital Fund Balance

The Wastewater Capital ending fund balance for FY 2021/22 is estimated at $123.4 million, and $71.5 million for FY 2022/23 as shown in Figure 1. The estimated decrease for both fiscal years is the use of bond proceeds, included in Debt Service & Redemption reserves, to support construction of the RP-5 Expansion projects.

Figure 1: Wastewater Capital Fund Reserve by Type



Regional Wastewater Operations & Maintenance Fund (Wastewater Operations)

Total revenues and other funding sources in the Wastewater Operations fund are estimated at $102.6 million and $98.3 million for FYs 2021/22 and 2022/23, respectively. This includes $5.8 million of grant receipts in FY 2021/22 for the South Archibald Trichloroethylene (TCE) Plume Clean-Up project. Table 6 summarizes the Wastewater Operations fund proposed major revenues and other funding sources for FYs 2021/22 and 2022/23. Starting in FY 2021/22 the proposed amount of property taxes allocated to the Wastewater Operations & Maintenance Fund increased from a fixed amount of $9.5 million to 23 percent of the property taxes collected by the Agency. The additional property taxes will support the implementation of additional replacement and rehabilitation projects that are not covered with the current rates.

Table 6: Wastewater Operations Fund Major Revenues and Other Funding Sources

Major Funding Sources ($Millions)	FY 2021/22	FY 2022/23	Key Assumptions
Monthly EDU	$73.0	$76.2	Includes EDU rate of $21.22 in FY 2021/22 and $22.07 or 4% increase in FY 2022/23.
Grants	5.8	0.3	Grant proceeds for the South Archibald TCE Plume Clean-Up project.
Property Tax	13.2	13.4	Annual allocation of property taxes increased from a fixed annual amount of $9.5 million to 23% of total property tax receipts starting in FY 2021/22.
Cost Reimbursement from IERCA*	4.5	4.6	Reimbursement of the IERCA labor costs.
Other	6.1	3.8	Includes interfund-transfers from water connection fees to support capital projects; interest revenue, contract cost reimbursement, and lease revenue.
Total	**$102.6**	**$98.3**	

**Inland Empire Regional Composting Authority*

Total expenses and other uses of funds are $103.2 million in FY 2021/22 and $96.7 million in FY 2022/23. Proposed expenses and other uses of funds for FYs 2021/22 and 2022/23 are shown in Table 7.

Major expenses in the Wastewater Operations fund include operating and maintenance (O&M) expenses, capital R&R project costs, organic management activities, and debt service costs. Included in O&M expenses are employment costs which include the proposed staffing plan to support early recruitment of critical positions. The projected O&M expenses also include anticipated increases in electricity rates from Southern California Edison.

Table 7: Wastewater Operations Fund Major Expenses & Other Uses of Funds

Major Uses of Funds ($Millions)	FY 2021/22	FY 2022/23	Key Assumptions
Operations & Maintenance (O&M)	$68.5	$71.7	Includes employment, chemicals utilities, professional and contract labor costs, and other O&M costs.
O&M project costs	6.9	4.2	Includes the South Archibald TCE Plume Clean-Up project.
Capital Rehabilitation & Replacement (R&R) project costs	16.3	9.6	Major R&R projects summarize in Table 8.
Debt Service	1.4	1.4	Includes principal and interest for the 2017A bonds and SRF loan for the water quality laboratory.
Other	10.1	9.8	Inter-fund transfers for capital project support to the Administrative. Services and share of the RP-5 Expansion project and CCWRF Asset Management Improvement project.
Total	**$103.2**	**$96.7**	

A total of $16.3 million in capital project costs is budgeted in FY 2021/22 and $9.6 million is projected for FY 2022/23. Major capital projects are listed in Table 8.

Table 8: Wastewater Operations Fund Major Capital Projects

Major Projects ($Millions)	FY 2021/22	FY 2022/23	FY 2023/24 to FY 2030/31	TYCIP Total
RP-4 Process Improvements	$5.0			$5.0
RP-4 Primary Clarifier Rehabilitation	3.5			3.5
Digester 6 and 7 Roof Repairs	2.5	0.3		2.8
SCADA Enterprise System	1.3	5.3	3.4	10.0
North Major Facilities Repair	0.6	0.6	4.8	6.0
RP-1 Effluent Structure Rehabilitation	0.4	1.0		1.4
Advanced Water Purification Facility			21.3	21.3
RP-4 Process Improvement Phase II			8.3	8.3
All Other Capital Projects	3.0	2.4	28.7	34.1
Total	**$16.3**	**$9.6**	**$66.5**	**$92.4**

Monthly EDU Sewer Rate

At the request of member agencies, and as unanimously recommended by the Regional Committees, the Board adopted the monthly Wastewater Equivalent Dwelling Unit (EDU) Rate of $20.60 and $21.22 for Fiscal Years 2020/21 and 2021/22, respectively on November 20, 2019.

On May 6, 2020 the Board approved the deferral of the increase to the monthly EDU sewer rate, from $20.60 to $20.00, for FY 2020/21 in an effort to mitigate the fiscal impact of the COVID-19 pandemic to our ratepayers, and address concerns raised by some of our member agencies.

Shown on Table 9 is the adopted rate for FYs 2020/21, and projected rates for FYs 2022/23 thru 2024/25 subject to completion of the Return to Sewer Rate Study and development of a new EDU methodology which is the basis for the monthly sewer rates and wastewater connection fees. Based on the current timeline, the development of the new EDU methodology is not anticipated to be completed until April 2023. Given the recently announced increase in electricity rates by Southern California Edison (SCE) and the proposed increase in staffing to support early recruitment of critical positions, an adjustment to the monthly EDU rate may be needed for FY 2022/23. Based on current assumptions, an adjustment of four percent may be needed to support higher operating costs as shown in Table 9. Should an adjustment to the EDU rate be needed for FY 2022/23, a recommendation for approval will be provided to the IEUA Board and the Regional Committees.

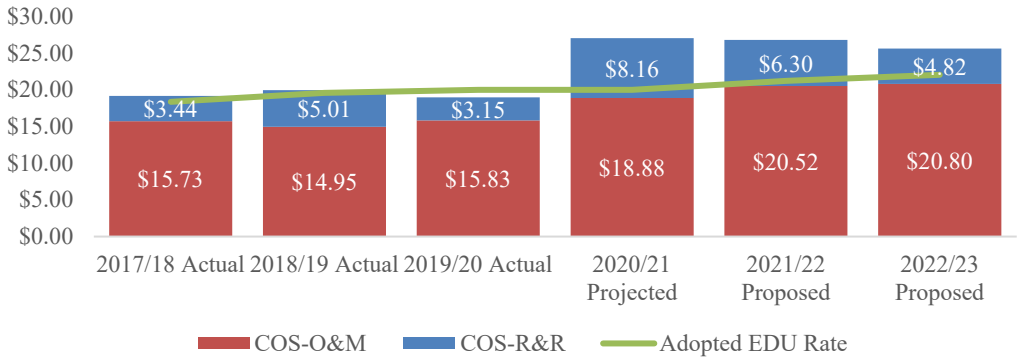
Table 9: Adopted Monthly EDU Sewage Rates

Rate Description	FY 2020/21 Adopted	FY 2021/22 Adopted	FY 2022/23 Projected	FY 2023/24 Projected	FY 2024/25 Projected
EDU Volumetric Rate	$20.00	$21.22	$22.07	$22.95	$23.87
Effective Date	7/01/21	7/01/22	To be reviewed based on sewer use evaluation results		

The key Board objective is to establish rates that fully recover the cost of providing the service. Pursuant to the Regional Contract, the monthly EDU rate supports O&M costs, repair and replacement of assets, and fund reserves.

Figure 2 shows actual cost of service for the Wastewater Operations fund and projections when the FY 2020/21 budget was adopted. The proposed rates for FY 2021/22 at $21.22 will partially support capital replacements and rehabilitation cost and operational costs. Property taxes will be used to subsidize for costs not fully recovered by the rates.

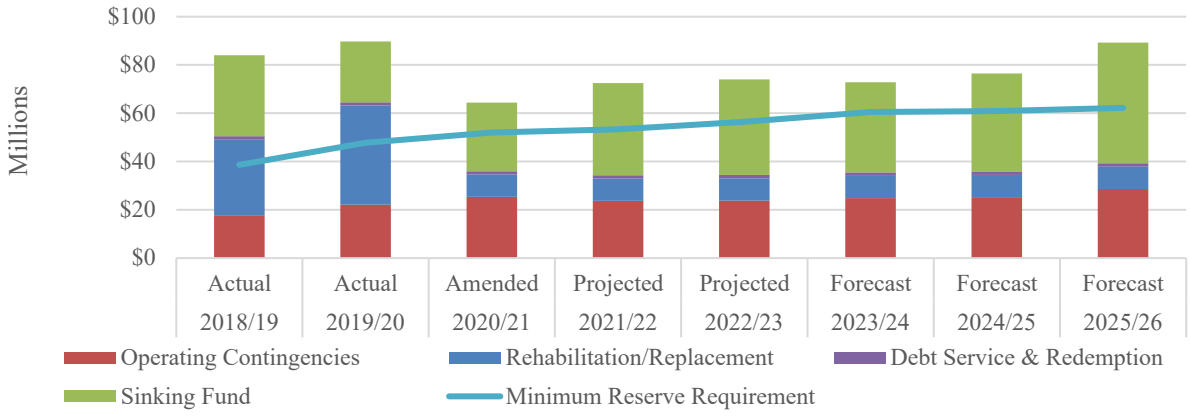
Figure 2: Monthly EDU Sewage Cost of Service



Wastewater Operations Fund Balance

The projected Wastewater Operations fund ending fund balance is estimated at $72.5 million and $74.0 million for FYs 2021/22 and 2022/23, respectively. The projected change in fund balance is due to the re-allocation of property tax receipts and contributions (inter-fund transfers) to the Wastewater Capital fund to support the for the Wastewater Operations fund share of the RP-5 Expansion and planned R&R projects, such as the CCWRF Asset Management and Improvements project costs.

Figure 3: Wastewater Operations Fund Reserves by Type



Recycled Water Fund

Total revenues and other funding sources in the Recycled Water fund are estimated at $31.1 million and $31.8 million for FYs 2021/22 and 2022/23, respectively. The Recycled Water fund receives a portion of Agency property tax receipts. The proposed re-allocation of property taxes to the Recycled Water fund from a fixed annual amount to 4 percent of total property tax receipts is projected to increase annual allocations going forward. Other sources of funds include interest earnings, miscellaneous reimbursements, and inter-fund debt service support for the 2017A Revenue bonds. Revenues and other funding sources of the Recycled Water fund are summarized in Table 10.

Recycled Water Rates

A conservative projection of 32,000-acre feet (AF) of regional recycled water deliveries are projected for each budget year. Recycled Water sales is estimated to generate revenues of $17.3 million and $17.6 million, respectively. A rate study is currently underway to evaluate recycled water program requirements, alternate rate structures, and long-term program sustainability. The rate study is projected to be complete by April 2022. Budgeted acre-feet and rates are summarized in Appendix Table A5.

One Water Connection Fee

Water connection fee revenues, collected to support capital investments in the Agency's regional water distribution system for FY 2021/22, are projected to be $8.4 million and $8.7 million for FY 2022/23. Water connection fee rates are set per meter equivalent unit (MEU). One MEU is equivalent to a 5/8" and 3/4" meter size (standard residential meter size). One Water Connection Fee rates are reported in Appendix Table A6.

Table 10: Recycled Water Fund Major Revenues & Other Funding Sources

Major Funding Sources ($Millions)	FY 2021/22	FY 2022/23	Key Assumptions
Recycled Water Sales	$17.3	$17.6	FY 2021/22 adopted direct rate of $520/AF and Groundwater Recharge (GWR) rate of $580/AF FY 2022/23 projected direct rate is $530/AF and GWR projected rate is $590/AF.
Water Connection Fees	8.4	8.7	4,700 new MEU connections are projected for FY 2021/22 and FY 2022/23. The adopted rate is $1,787/MEU and $1,841/MEU for FY 2021/22 and 2022/23 respectively.
Property Tax	2.3	2.3	Projected property tax receipts increased from a fixed annual amount of $2.2 million to 4% of total property tax receipts starting in FY 2021/22.
Other	3.1	3.2	Includes interest, miscellaneous reimbursements, and inter-fund debt service support for the 2017A Revenue bonds.
Total	**$31.1**	**$31.8**	

Total expense in FY 2021/22 and FY 2022/23 are projected to be $31.7 and $37.0 million, respectively. Major expenses for the Recycled Water fund include debt service, operating costs, and capital project expense. Operating costs include employment, pumping costs, O&M projects, and a portion of the groundwater recharge O&M costs not reimbursed by Chino Basin Watermaster (CBWM). The projected biennial expense and other uses of funds for the Recycled Water fund are summarized in Table 11.

Table 11: Recycled Water Fund Major Expenses & Other Uses of Funds

Major Uses of Funds ($Millions)	FY 2021/22	FY 2022/23	Key Assumptions
Operating Expenses	$13.7	$13.9	Includes employment, professional fees, materials and supplies, pumping costs, a portion of the groundwater recharge operations expense, and O&M project costs.
Capital Improvement Plan (CIP)	2.5	5.6	See Table 11 for a summary of major capital projects.
Debt Service	12.2	14.3	Includes principal and interest costs for outstanding bonds and SRF loans and interfund loan repayments to the Non-Reclaimable Wastewater fund.
Other	3.3	3.2	Inter-fund transfers for water connection fees in support of the RRWDS*, and capital and operating support to the Administrative Services and Recharge Water funds.
Total	**$31.7**	**$37.0**	

**Regional Recycled Water Distribution System*

Annual debt service costs include principal, interest, and financial fees for SRF loans, 2017A and 2020A Revenue Bonds, and interfund loan repayment to the Non-Reclaimable (NRW) and Regional Wastewater Capital funds. Debt service is estimated to be $12.2 million in FY 2021/22 and $14.3 million in FY 2022/23. The annual interfund loan repayment, which began in FY 2018/19, will first be applied to the $6 million due to the NRW fund. Payments towards the $13.5 million due to the Regional Wastewater Capital fund are budgeted to begin in FY 2022/23. The final re-payment of inter-fund loans is scheduled for FY 2024/25. A summary of inter-fund loans and repayment schedules is provided in Appendix Table A7.

Table 12: Recycled Water Fund Major Capital Projects

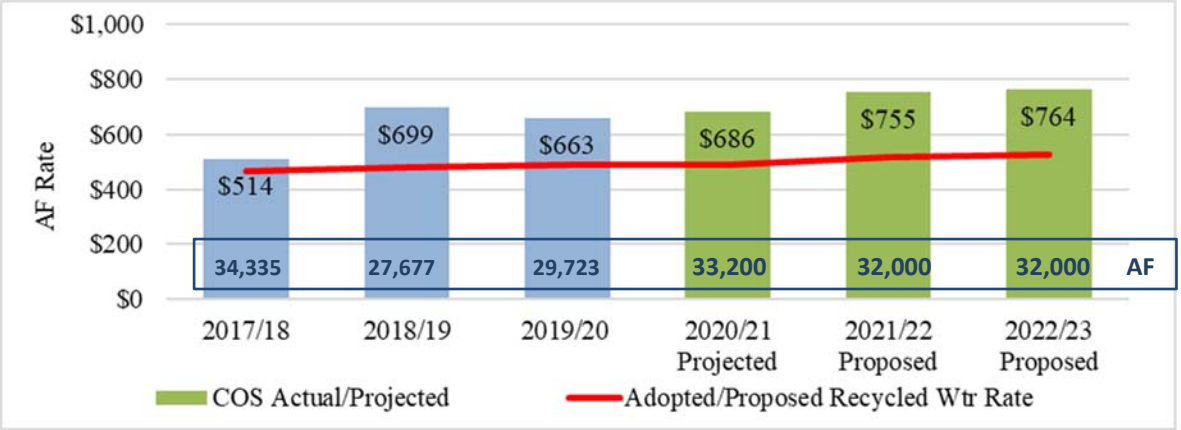
Major Projects ($Millions)	FY 2021/22	FY 2022/23	FY 2023/24 to FY 2030/31	TYCIP Total
Asset Management Projects	$0.5	$1.0	$52.6	$54.1
RP-4 Contact Basin Cover & Wet Well Pass	0.7	3.5	-	4.2
8th Street Recycled Water Turnout Connection	0.6	0.9	-	1.5
All Other Capital Projects	0.7	0.2	0.1	1.0
Total	**$2.5**	**$5.6**	**$52.7**	**$60.8**

Cost of Service Review

A key objective of the Board is to establish rates that fully recover the cost of providing the service. The 2022 Rate Study currently underway includes a comprehensive analysis of the Recycled Water program requirements to evaluate funding strategies that will provide long-term fiscal sustainability, including modification of the current rate structure.

As shown in Figure 4 the estimated cost of service of $755/AF in FY 2021/22 is projected to exceed the adopted rate of $520/AF. A key driver for the higher projected AF cost of service rate are the lower recycled water deliveries. Projections and underlying assumptions are reviewed and updated each year as part of the budget process.

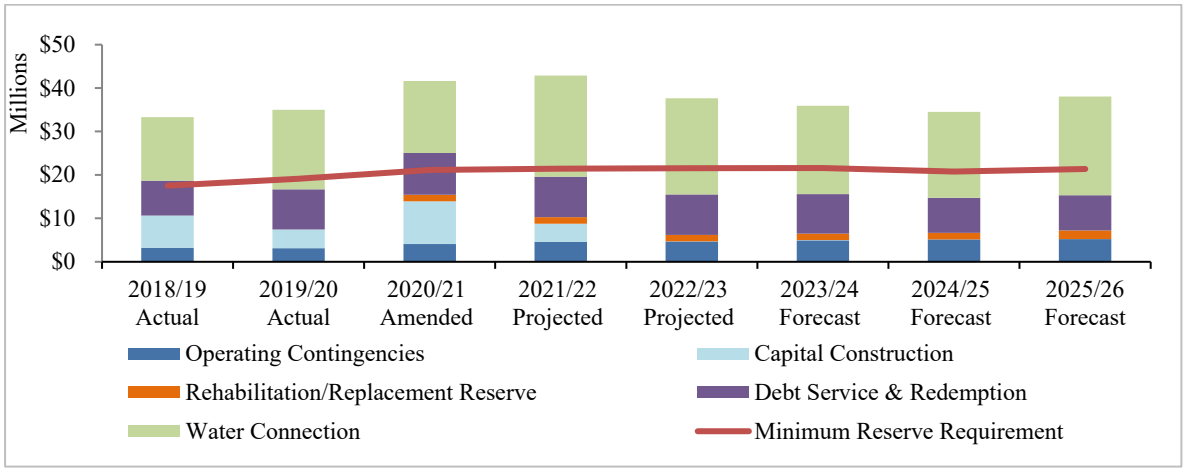
Figure 4: Recycled Water Cost of Service



The Recycled Water fund projected ending fund balances for FY 2021/22 and FY 2022/23 is $42.8 million and $37.6 million, respectively. The projected reserve balance decrease is largely due to increasing debt service costs, primarily repayment of the inter-fund loans to the Regional Capital and Non-Reclaimable Wastewater funds. Projected ending fund balances are reported below in Figure 5.

Recycled Water Fund Reserves

Figure 5: Recycled Water Fund Reserve by Type



Conclusion

Over the next two fiscal years the proposed budget reflects a cautious optimism of a return to normal. One of the main drivers of the budget is the implementation of the capital program with

the execution of critical projects, like the RP-5 Expansion, supported with low interest federal and state loans as the main financing strategy. During this period the Agency will work to complete the return to sewer study that will set up the parameters to adjust EDU monthly rate and the wastewater connection fees, and the evaluation of the Recycled Water Program to create a sustainable rate structure. The budgets also support the implementation of succession planning for timely recruitment to fill in critical positions ensuring timely transfer of knowledge and expertise to the next generation of Agency employees. Achieving these objectives will ensure the Agency is positioned to continue its commitment to delivering essential high-quality services in a cost-effective manner, supporting the region's economic development and maintaining the Agency's fiscal health.

Additional Background Information

Appendix A – Sources and Uses of Funds: Regional Wastewater Capital, Regional Wastewater O&M, and Recycled Water funds.
Appendix Table A1 – Acronyms
Appendix Table A2 – Key assumptions for FYs 2021/22 and 2022/23 budget
Appendix Table A3 – Wastewater connection fees
Appendix Table A4 – EDU volumetric rates
Appendix Table A5 – Recycled water rates
Appendix Table A6 – Water connection fees
Appendix Table A7 – Inter-fund loan repayment schedule

Appendix A

INLAND EMPIRE UTILITIES AGENCY
FISCAL YEARS 2021/22 & 2022/23 BIENNIAL BUDGET
REGIONAL WASTEWATER CAPITAL IMPROVEMENT FUND - SOURCES AND USES OF FUNDS (In Thousands)

	2018/2019	2019/2020	2020/2021	2021/22	2022/23	2023/24	2024/25	2025/26
	ACTUAL	ACTUAL	AMENDED BUDGET	PROPOSED BUDGET	PROPOSED BUDGET		FORECAST	
REVENUES								
Interest Revenue	$838	$836	$826	$592	$700	$838	$721	$436
TOTAL REVENUES	**$838**	**$836**	**$826**	**$592**	**$700**	**$838**	**$721**	**$436**
OTHER FINANCING SOURCES								
Property Tax - Debt and Capital	$34,476	$36,148	$35,058	$37,366	$37,991	$38,628	$39,275	$39,935
Regional System Connection Fees	22,435	24,259	27,820	29,514	30,400	31,312	32,251	33,219
Debt Proceeds	0	196,436	0	761	13,807	33,046	31,000	198,508
State Loans	0	0	65,293	0	30,906	108,988	23,750	4,776
Grants	0	123	0	0	0	0	0	0
Other Revenues	23	1,052	1	1	1	1	1	1
Inter Fund Loan	0	0	0	0	2,000	6,000	5,500	0
TOTAL OTHER FINANCING SOURCES	**$56,938**	**$258,018**	**$128,172**	**$67,643**	**$115,105**	**$217,974**	**$131,777**	**$276,439**
EXPENSES								
Employment Expenses	$3,899	$3,452	$3,743	$4,016	$4,183	$4,330	$4,476	$4,624
Contract Work/Special Projects	134	253	0	0	0	0	0	0
Operating Fees	263	267	275	281	289	298	307	316
Professional Fees and Services	295	821	420	654	546	605	615	624
Other Expenses	969	879	1,535	1,869	1,889	2,127	2,094	2,191
TOTAL EXPENSES	**$5,560**	**$5,672**	**$5,973**	**$6,820**	**$6,907**	**$7,360**	**$7,491**	**$7,755**
CAPITAL PROGRAM								
Work In Progress	$24,845	$13,813	$98,645	$201,296	$153,927	$96,608	$49,583	$21,850
IERCA investment	0	0	500	1,000	750	750	750	750
TOTAL CAPITAL PROGRAM	**$24,845**	**$13,813**	**$99,145**	**$202,296**	**$154,677**	**$97,358**	**$50,333**	**$22,600**
DEBT SERVICE								
Financial Expenses	$211	$316	$256	$9	$8	$9	$14	$10
Interest	2,786	3,360	2,656	2,669	2,350	1,965	3,076	7,552
Principal	8,922	9,370	9,630	4,540	4,672	4,988	5,566	204,762
TOTAL DEBT SERVICE	**$11,919**	**$13,046**	**$12,543**	**$7,219**	**$7,030**	**$6,962**	**$8,656**	**$212,324**
TRANSFERS IN (OUT)								
Capital Contribution	$4,426	($1,062)	($737)	$7,601	$8,385	$6,847	$8,114	$2,295
Debt Service	(3,174)	(3,119)	(3,192)	(3,138)	(3,136)	(3,268)	(2,886)	(2,886)
Capital - Connection Fees Allocation	(5,008)	(2,938)	(12,501)	(8,679)	(4,295)	(2,740)	(1,835)	(1,680)
TOTAL INTERFUND TRANSFERS IN (OUT)	**($3,755)**	**($7,119)**	**($16,430)**	**($4,217)**	**$954**	**$839**	**$3,392**	**($2,271)**
FUND BALANCE								
Net Income (Loss)	$11,697	$219,204	($5,093)	($152,318)	($51,856)	$107,971	$69,411	$31,925
Beginning Fund Balance July 01	79,611	91,308	106,523	275,709	123,392	71,536	179,507	248,918
ENDING FUND BALANCE AT JUNE 30*	**$91,308**	**$310,512**	**$101,429**	**$123,392**	**$71,536**	**$179,507**	**$248,918**	**$280,843**
RESERVE BALANCE SUMMARY								
Capital Construction	$9,539	$7,608	$13,018	$3,722	$1,403	$117,807	$157,734	$161,899
CCRA Capital Construction	66,474	90,733	73,114	33,067	33,467	49,778	72,029	93,248
Debt Service & Redemption	15,295	212,171	15,298	86,603	36,666	11,922	19,154	25,696
ENDING BALANCE AT JUNE 30	**$91,308**	**$310,512**	**$101,429**	**$123,392**	**$71,536**	**$179,507**	**$248,918**	**$280,843**

**Numbers may not tie due to rounding*

INLAND EMPIRE UTILITIES AGENCY
FISCAL YEAR 2021/22 & 2022/23 BIENNIAL BUDGET
REGIONAL WASTEWATER OPERATIONS & MAINTENANCE FUND - SOURCES AND USES OF FUNDS (In Thousands)

	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026
	ACTUAL	ACTUAL	AMENDED BUDGET	PROPOSED BUDGET	PROPOSED BUDGET		FORECAST	
REVENUES								
User Charges	$66,499	$68,506	$68,327	$72,924	$76,203	$79,618	$83,203	$86,927
Cost Reimbursement JPA	4,024	4,269	4,227	4,461	4,595	4,733	4,875	5,021
Contract Cost Reimbursement	111	92	66	75	75	75	75	75
Interest Revenue	1,667	1,791	1,300	1,200	1,200	1,100	1,300	1,400
TOTAL REVENUES	**$72,301**	**$74,658**	**$73,920**	**$78,660**	**$82,073**	**$85,526**	**$89,453**	**$93,423**
OTHER FINANCING SOURCES								
Property Tax Revenues - Debt/Capital	$9,549	$9,549	$9,549	$13,222	$13,443	$13,668	$13,897	$14,131
State Loans	2,519	217	0	0	0	0	0	0
Grants	712	3,597	3,794	5,793	283	0	0	0
Other Revenues	385	281	909	80	80	80	80	80
TOTAL OTHER FINANCING SOURCES	**$13,164**	**$13,643**	**$14,252**	**$19,095**	**$13,806**	**$13,748**	**$13,977**	**$14,211**
EXPENSES								
Employment Expenses	$28,726	$33,497	$35,261	$35,662	$37,142	$38,455	$39,759	$41,072
Contract Work/Special Projects	4,744	13,075	14,483	6,942	4,220	4,385	3,600	5,289
Utilities	5,318	5,224	6,616	8,283	9,288	9,567	9,854	10,149
Operating Fees	1,613	1,499	2,114	2,404	2,497	2,597	2,674	2,776
Chemicals	4,572	5,074	5,284	6,004	6,184	6,369	6,560	6,757
Professional Fees and Services	2,971	2,698	5,612	4,233	4,463	4,784	4,903	5,043
Biosolids Recycling	4,305	4,604	4,723	4,733	4,875	5,022	5,172	5,327
Materials & Supplies	2,074	2,185	2,188	2,010	2,048	2,110	2,173	2,238
Other Expenses	2,728	2,532	3,962	5,170	5,233	5,876	5,792	6,058
TOTAL EXPENSES	**$57,052**	**$70,400**	**$80,246**	**$75,446**	**$75,954**	**$79,168**	**$80,490**	**$84,712**
CAPITAL PROGRAM								
Capital Construction & Expansion (WIF	$20,629	$13,352	$40,689	$16,292	$9,610	$13,847	$8,364	$6,426
TOTAL CAPITAL PROGRAM	**$20,629**	**$13,352**	**$40,689**	**$16,292**	**$9,610**	**$13,847**	**$8,364**	**$6,426**
DEBT SERVICE								
Financial Expenses	$0	$0	$0	$1	$0	$0	$0	$1
Interest	819	593	627	614	591	568	543	517
Principal	728	755	754	784	806	849	874	900
TOTAL DEBT SERVICE	**$1,548**	**$1,349**	**$1,381**	**$1,398**	**$1,398**	**$1,417**	**$1,417**	**$1,417**
TRANSFERS IN (OUT)								
Capital Contribution	($3,559)	$132	($1,368)	($9,056)	($9,056)	($7,056)	($8,497)	($3,120)
Debt Service	306	250	110	114	114	114	(265)	(265)
Operation Support	(320)	(277)	(298)	(1,092)	(744)	(1,035)	(1,627)	(39)
Capital - Connection Fees Allocation	4,481	2,419	10,378	4,769	2,291	1,969	875	1,108
TOTAL INTERFUND TRANSFERS IN (OUT)	**$909**	**$2,524**	**$8,822**	**($5,264)**	**($7,394)**	**($6,007)**	**($9,515)**	**($2,316)**
FUND BALANCE								
Net Income (Loss)	$7,163	$5,724	($25,322)	($645)	$1,522	($1,166)	$3,644	$12,764
Beginning Fund Balance July 01	76,837	84,000	89,725	73,118	72,472	73,995	72,829	76,473
ENDING FUND BALANCE JUNE 30*	**$84,000**	**$89,725**	**$64,403**	**$72,472**	**$73,995**	**$72,829**	**$76,473**	**$89,236**
RESERVE BALANCE SUMMARY								
Operating Contingies	$17,701	$22,097	$25,340	$23,662	$23,786	$24,812	$25,205	$28,583
Rehabilitation/Replacement	27,331	41,004	9,236	9,236	9,236	9,236	9,236	9,236
Debt Service	1,412	1,398	1,398	1,398	1,417	1,417	1,417	1,417
Sinking Fund	37,557	25,226	28,429	38,176	39,555	37,364	40,614	50,000
ENDING BALANCE AT JUNE 30	**$84,000**	**$89,725**	**$64,403**	**$72,472**	**$73,995**	**$72,829**	**$76,473**	**$89,236**

** Numbers may not tie due to rounding*

INLAND EMPIRE UTILITIES AGENCY
FISCAL YEARS 2021/22 & 2022/23 BIENNIAL BUDGET
RECYCLED WATER FUND - SOURCES AND USES OF FUNDS (In Thousands)

	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026
	ACTUAL	ACTUAL	AMENDED MID-YEAR	PROPOSED BUDGET	PROPOSED BUDGET		FORECAST	
REVENUES								
Interest Revenue	$769	$452	$708	$533	$540	$554	$573	$620
Water Sales	13,902	15,349	16,155	17,290	17,610	17,962	18,564	18,916
TOTAL REVENUES	**$14,670**	**$15,800**	**$16,863**	**$17,823**	**$18,150**	**$18,516**	**$19,137**	**$19,536**
OTHER FINANCING SOURCES								
Property Tax - Debt/Capital	$2,170	$2,170	$2,170	$2,299	$2,338	$2,377	$2,417	$2,458
Connection Fees	5,916	8,048	7,915	8,399	8,653	8,911	9,179	9,363
State Loans	2,373	10,954	5,554	0	0	0	0	0
Grants	753	156	3,120	0	0	0	0	0
Capital Contract Reimbursement	88	4,038	1,875	92	93	94	96	97
Other Revenues	24	10	0	0	0	0	0	0
TOTAL OTHER FINANCING SOURCES	**$ 11,324**	**$ 25,377**	**$ 20,633**	**$ 10,790**	**$ 11,084**	**$ 11,383**	**$ 11,692**	**$ 11,918**
EXPENSES								
Employment Expenses	$4,451	$5,060	$5,370	$6,034	$6,284	$6,506	$6,727	$6,949
Contract Work/Special Projects	1,333	621	1,990	1,215	710	840	1,050	820
Utilities	2,240	1,944	2,885	3,554	4,086	4,208	4,334	4,464
Operating Fees	3	2	10	10	10	11	11	11
Professional Fees and Services	641	814	632	1,322	1,348	1,502	1,531	1,562
Office and Administrative expenses	4	1	3	38	39	40	41	42
Materials & Supplies	141	209	174	109	113	116	120	123
Other Expenses	805	698	1,106	1,382	1,404	1,565	1,548	1,617
TOTAL EXPENSES	**$9,619**	**$9,349**	**$12,170**	**$13,664**	**$13,993**	**$14,788**	**$15,362**	**$15,589**
CAPITAL PROGRAM								
Work In Progress	$6,636	$19,298	$3,570	$2,480	$5,550	$2,150	$3,000	$5,000
TOTAL CAPITAL PROGRAM	**$6,636**	**$19,298**	**$3,570**	**$2,480**	**$5,550**	**$2,150**	**$3,000**	**$5,000**
DEBT SERVICE								
Financial Expenses	$2	$66	$3	$5	$5	$5	$7	$6
Interest	2,870	3,747	2,933	3,231	3,011	2,673	2,301	1,925
Principal	5,256	5,076	6,309	6,025	6,200	6,596	6,744	6,118
Short Term Inter-Fund Loan	3,000	2,000	3,000	3,000	5,000	6,000	5,500	0
TOTAL DEBT SERVICE	**$11,129**	**$10,890**	**$12,245**	**$12,261**	**$14,216**	**$15,274**	**$14,552**	**$8,049**
TRANSFERS IN (OUT)								
Capital Contribution	($1,873)	($170)	($517)	($291)	($362)	($323)	($206)	($223)
Debt Service	2,394	2,392	2,547	2,546	2,546	2,675	2,673	2,673
Operation support	(526)	(1,471)	(533)	(1,213)	(1,137)	(1,261)	(1,320)	(1,303)
Water Connection Allocation	(454)	(703)	(1,473)	(1,802)	(1,655)	(484)	(430)	(392)
TOTAL INTERFUND TRANSFERS IN (OUT)	**($459)**	**$47**	**$24**	**($760)**	**($608)**	**$608**	**$717**	**$756**
FUND BALANCE								
Net Income (Loss)	($1,848)	$1,687	$9,536	($553)	($5,133)	($1,705)	($1,369)	$3,571
Beginning Fund Balance July 01	35,135	33,287	32,064	43,416	42,863	37,730	36,025	34,656
ENDING BALANCE AT JUNE 30	**$33,287**	**$34,974**	**$41,600**	**$42,863**	**$37,730**	**$36,025**	**$34,656**	**$38,227**
RESERVE BALANCE SUMMARY								
Operating Contingency	$3,206	$3,116	$4,057	$4,555	$4,664	$4,929	$5,121	$5,196
Capital Construction	7,439	4,303	9,853	4,302	7	48	31	47
Water Connection	14,615	18,311	16,548	23,291	22,284	20,495	19,955	22,931
Rehabilitation/Replacement (R&R)	0	0	1,500	1,500	1,500	1,500	1,500	2,000
Debt Service	8,027	9,245	9,643	9,216	9,274	9,052	8,049	8,052
ENDING BALANCE AT JUNE 30	**$33,287**	**$34,974**	**$41,600**	**$42,863**	**$37,730**	**$36,025**	**$34,656**	**$38,227**

** Numbers may not total due to rounding*

Appendix Table A1: Acronyms

Acronyms	
AF	Acre Foot
CBFIP	Chino Basin Facilities Improvement Project
CBP	Chino Basin Program
CBWM	Chino Basin Water Master
CCWRF	Carbon Canyon Wastewater Reclamation Facility
CIP	Capital Improvement Plan
EDU	Equivalent Dwelling Unit
FTE	Full Time Equivalent
FY	Fiscal Year
GG	Administrative Services Program
GWR	Groundwater Recharge
IERCA	Inland Empire Regional Composting Authority
kWh	Kilowatt hour
MEU	Meter Equivalent Unit
NC	Non-Reclaimable Wastewater Program
NRW	Non-Reclaimable Wastewater
O&M	Operations & Maintenance
R&R	Replacement & Rehabilitation
RC	Regional Wastewater Capital Improvement Program
RMPU	Recharge Master Plan Update
RO	Regional Wastewater Operations and Maintenance Program
RP-1	Regional Water Reclamation Facility (Plant) in the City of Ontario
RP-2	Regional Water Reclamation Facility (Plant) in the City of Chino
RP-3	Old Regional Water Reclamation Facility (Plant) in the City of Fontana rebuilt into a recharge facility with 4 recharge basins or cells.
RP-4	Regional Water Reclamation Facility (Plant) in the City of Rancho Cucamonga
RP-5	Regional Water Reclamation Facility (Plant) in the City of Chino
RRWDS	Regional Recycled Water Distribution System
RW	Recharge Water Program
SBCFCD	San Bernardino County Flood Control District
SCADA	Supervisory Control and Data Acquisition
SRF	State Revolving Fund
TCE	Trichloroethylene
TYCIP	Ten Year Capital Improvement Plan
WW	Water Resources Program

Appendix Table A2: Key Assumptions for FYs 2021/22 and 2022/23 Budget

Revenues and Other Funding Sources	Expenses and Other Uses of Funds
4,000 new wastewater connections per year	3% average CPI for O&M expenses
4% increase in EDU rate starting in FY 2022/23 and 3.4 million volumetric EDU @ 0.50% annual growth	Eliminates vacancy factor in staffing to support succession plan
Recycled Water Deliveries: FY 2019/20 35,800 AF FY 2020/21 36,000 AF	Addition of several major construction projects within the next two-year period
4,700 and 4,630 new water connections (MEU) for FY 2019/20 & FY 2020/21, respectively	Leverage professional services to achieve effective maintenance approach
2% average growth in property tax receipts. The property tax allocated to Regional Capital fund remains at 65% of total property tax. Allocation from "fixed amount" to "fixed percentage" of the total property tax receipts will change for Regional O&M at 23%, Recycled Water at 4%, Water Fund at 3.5% and Administrative Service at 4.5% funds effective in FY 2021/22.	
Capital Improvement Plan (CIP) partially funded by low interest SRF loans and grants	

Appendix Table A3: Wastewater Connection Fees

Rate Description	FY 2020/21 Adopted	FY 2021/22 Adopted	FY 2022/23 Projected	FY 2023/24 Projected	FY 2024/25 Projected
Projected New Connections	4,000	4,000	4,000	4,000	4,000
Wastewater Connection Fee	$6,955	$7,379	$7,600	$7,828	$8,063
Rate change	0%	3%	3%	3%	3%
Effective Date	7/01/21	7/01/22	7/01/23	7/01/24	7/01/25

Appendix Table A4: Monthly EDU Sewage Rates

	FY 2020/21 Adopted	FY 2021/22 Adopted	FY 2022/23 Projected	FY 2023/24 Projected	FY 2024/25 Projected
EDU Volumetric Rate	$20.00	$21.22	$22.07	$22.95	$23.87
Rate Change	$0	$1.22	$0.85	$0.88	$0.92
Effective Date	7/01/21	7/01/22	To be reviewed based on sewer use evaluation results		

Appendix Table A5: Recycled Water Rates

Rate Description	FY 2020/21 Adopted	FY 2021/22 Proposed	FY 2022/23 Projected	FY 2023/24 Projected	FY 2024/25 Projected
Projected Acre Feet (AF)	33,200	32,000	32,000	32,000	32,000
Direct AF Rate	$490	$520	$530	$540	$550
Groundwater Recharge AF Rate	$550	$580	$590	$600	$610
Effective Date	7/01/21	7/01/22	Rates and effective dates to be determined by rate study		

Appendix Table A6: Water Connection Fees

Rate Description	FY 2020/21 Adopted	FY 2021/22 Adopted	FY 2022/23 Projected	FY 2023/24 Projected	FY 2024/25 Projected
Projected Meter Equivalent Units (MEUs)	4,700	4,700	4,700	4,700	4,700
One Water Connection Fee (for 5/8" and 3/4" meter size)	$1,684	$1,787	$1,841	$1,896	$1,953
Effective Date	7/01/20	7/01/21	7/01/22	7/01/23	7/01/24

Appendix Table A7: Inter-Fund Loan Repayment Schedule

Inter Fund Loans Issued	Due to	Loan Amount ($Millions)	Repayment Schedule ($ Millions)
FY 2007/08	Regional Wastewater Capital (RC) Fund	3.0	2022/23 $1.0 2023/24-2024/25 $2.0 Total $3.0
FY 2009/10	Non-Reclaimable Wastewater (NRW) Fund	6.0	2021/22 $3.0 2022/23 $3.0 Total $6.0
FY 2014/15	Regional Wastewater Capital Improvement (RC) Fund	10.5	2022/23 $1.0 2023/24 $5.0 2024/25 $4.5 Total $10.5
Total	**Grand Total**	**$19.5**	**$19.5**

Inland Empire Utilities Agency
Ten Year Forecast (TYF) Fiscal Year
2021/22 - 2030/31

Fund	Project Number	Project Description	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	Total TYCIP 2022-2031
Recycled Water Fund	EN14042	1158 RWPS Upgrades	20,000	-	-	-	-	-	-	-	-	-	20,000
	EN15002	1158 Reservoir Site Cleanup	100,000	-	-	-	-	-	-	-	-	-	100,000
	EN20022	1299 Reservoir Paint/Coating Repairs and	200,000	-	-	-	-	-	-	-	-	-	200,000
	EN21041	RP-4 Contact Basin Cover & Wet Well Pass	700,000	3,500,000	-	-	-	-	-	-	-	-	4,200,000
	EN21050	8th Street RW Turnout Connection to the	600,000	900,000	-	-	-	-	-	-	-	-	1,500,000
	EN22009	WC Asset Managment Project	500,000	1,000,000	2,000,000	3,000,000	5,000,000	7,000,000	8,900,000	8,900,000	8,900,000	8,900,000	54,100,000
	EN22023	Prado Dechlor Sump Pump Replacement	360,000	-	-	-	-	-	-	-	-	-	360,000
	EN24005	1630 West Reservoir Paint/Coating Repair	-	150,000	-	-	-	-	-	-	-	-	150,000
	EN24006	930 Reservoir Paint/Coating Repairs and	-	-	150,000	-	-	-	-	-	-	-	150,000
Recycled Water Fund Total			**2,480,000**	**5,550,000**	**2,150,000**	**3,000,000**	**5,000,000**	**7,000,000**	**8,900,000**	**8,900,000**	**8,900,000**	**8,900,000**	**60,780,000**
Regional Wastewater Operations & Maintenance Fund	EN13016	SCADA Enterprise System	1,300,000	5,250,000	3,350,000	-	-	-	-	-	-	-	9,900,000
	EN17042	Digester 6 and 7 Roof Repairs	2,500,000	300,000	-	-	-	-	-	-	-	-	2,800,000
	EN17043	RP4 Primary Clarifier Rehab	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000
	EN17110	RP-4 Process Improvements	5,000,000	-	-	-	-	-	-	-	-	-	5,000,000
	EN18025	RP-1 Secondary System Rehabilitation	-	-	250,000	1,100,000	1,950,000	2,000,000	1,000,000	1,000,000	1,000,000	-	8,300,000
	EN19009	RP-1 Energy Recovery	200,000	-	-	-	-	-	-	-	-	-	200,000
	EN20041	RP-1 TP-1 Bleach Mixing Repairs	150,000	-	-	-	-	-	-	-	-	-	150,000
	EN20044	RP-1 Plant 3 Primary Cover Replacement	-	200,000	400,000	-	-	-	-	-	-	-	600,000
	EN20045	RP-1 TP-1 Level Sensor Replacement	-	500,000	-	-	-	-	-	-	-	-	500,000
	EN20051	RP-1 MCB and Old Lab Building Rehab	506,000	110,000	1,905,000	-	-	-	-	-	-	-	2,521,000
	EN20057	RP-4 Process Improvements Phase II	-	500,000	4,000,000	3,500,000	-	-	-	-	-	-	8,000,000
	EN21042	RP-1 East Influent Gate Replacement	400,000	-	-	-	-	-	-	-	-	-	400,000
	EN21044	RP-1 Dewatering Centrate and Drainage Va	320,000	-	-	-	-	-	-	-	-	-	320,000
	EN21053	RP-1 Old Effluent Structure Rehabilitati	400,000	1,000,000	-	-	-	-	-	-	-	-	1,400,000
	EN21056	RP-1 Evaporative Cooling for Aeration Bl	400,000	50,000	-	-	-	-	-	-	-	-	450,000
	EN22005	RO Asset Managment	50,000	50,000	50,000	300,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,450,000
	EN22021	RP-1 Digester Area Utility Water (UW) Li	100,000	-	-	-	-	-	-	-	-	-	100,000
	EN22025	RP-1 Dump Station	-	-	64,000	95,400	1,855,600	106,100	-	-	-	-	2,121,100
	EN22027	RP-1 Repurpose Lab	-	-	228,400	1,619,000	-	-	-	-	-	-	1,847,400
	EN22031	RP-1 Influent Pump Station Electrical Im	200,000	400,000	1,400,000	-	-	-	-	-	-	-	2,000,000
	EN23024	RP-1 TP-1 Stormwater Drainage Upgrades	-	250,000	1,000,000	50,000	-	-	-	-	-	-	1,300,000
	EN24020	RP-1 Dewatering Centrate Pumps	-	-	200,000	500,000	120,000	-	-	-	-	-	820,000
	EN25020	RP-1 Digester Cleaning Lagoon (DCL) Lini	-	-	-	200,000	-	-	-	-	-	-	200,000
	EN26021	Regional Conveyance AMP	-	-	-	-	500,000	-	-	-	-	-	500,000
	EN27001	RP-1 Equilization Basin #1 Access Ramp	-	-	-	-	-	35,000	106,500	300,000	-	-	441,500
	EN22033	RP-5 Emergency Generator Load Bank Installation	120,000	-	-	-	-	-	-	-	-	-	120,000
	EN22034	Generator Retrofit RP-1	85,000	-	-	-	-	-	-	-	-	-	85,000
	EN22035	Generator Retrofit RP-4	50,000	-	-	-	-	-	-	-	-	-	50,000
	EN22036	RP-1 Centrate Pipeline Assessment	11,000	-	-	-	-	-	-	-	-	-	11,000
	EP21002	North Major Facilities Repair/Replacemnt	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	6,000,000
	EP21003	South Major Facilities Repair/Replacemen	400,000	400,000	400,000	400,000	400,000	600,000	600,000	600,000	600,000	600,000	5,000,000
	PL26001	Advanced Water Purification Facility								5,000,000	5,000,000	11,276,500	21,276,500
Regional Wastewater Operations & Maintenance Fund Total			**16,292,000**	**9,610,000**	**13,847,400**	**8,364,400**	**6,425,600**	**4,341,100**	**3,306,500**	**8,500,000**	**8,200,000**	**13,476,500**	**92,363,500**

Inland Empire Utilities Agency
Ten Year Forecast (TYF) Fiscal Year
2021/22 - 2030/31

Fund	Project Number	Project Description	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	Total TYCIP 2022-2031
Regional Wastewater Capital Improvement Fund	EN11039	RP-1 Disinfection Pump Improvements	2,400,000	4,660,000	350,000	-	-	-	-	-	-	-	7,410,000
	EN17006	CCWRF Asset Management and Improvements	3,000,000	13,000,000	50,000	650,000	-	-	-	-	-	-	16,700,000
	EN18006	RP-1 Flare Improvements	2,500,000	100,000	-	-	-	-	-	-	-	-	2,600,000
	EN18036	CCWRF Asset Mgmt and Imprvmnt Pkg. III	-	200,000	500,000	300,000	-	-	-	-	-	-	1,000,000
	EN19001	RP-5 Expansion to 30 mgd	72,000,000	50,000,000	37,600,000	7,803,147	-	-	-	-	-	-	167,403,147
	EN19006	RP-5 Biosolids Facility	105,000,000	63,000,000	14,758,090	-	-	-	-	-	-	-	182,758,090
	EN21015	Collection System Upgrades FY 20/21	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
	EN21045	Montclair Force Main Improvements	800,000	5,500,000	-	-	-	-	-	-	-	-	6,300,000
	EN22006	RC Asset Managment	250,000	250,000	250,000	2,400,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	51,150,000
	EN22022	RP-1 Air Compressor Upgrades	250,000	1,500,000	-	-	-	-	-	-	-	-	1,750,000
	EN24001	RP-1 Liquid Treatment Capacity Recovery	-	-	-	-	-	-	-	-	15,000,000	20,000,000	35,000,000
	EN24002	RP-1 Solids Treatment Expansion	-	-	-	4,000,000	8,000,000	8,000,000	-	-	-	-	20,000,000
	EN23025	Agency Power Monitor	-	250,000	280,000	-	-	-	-	-	-	-	530,000
	EN22039	RP4 SCADA Improvements	100,000	912,000	-	-	-	-	-	-	-	-	1,012,000
	EN22040	NFPA 70E required labels	105,000	105,000	-	-	-	-	-	-	-	-	210,000
	EN22041	RP-1 Aeration Basins UW System Improvements	141,000	-	-	-	-	-	-	-	-	-	141,000
	EN22042	RP-4 Ammonia Analyzers and Support System	500,000	-	-	-	-	-	-	-	-	-	500,000
	EN22043	Chemical Contrainment Area Rehab Phase 2	505,000	-	-	-	-	-	-	-	-	-	505,000
	EN24021	Chemical Contrainment Area Rehab Phase 3	-	-	870,000	-	-	-	-	-	-	-	870,000
	EN25001	TP-1 Wire ReplacementT PLANT	-	-	-	80,000	-	-	-	-	-	-	80,000
	EN22044	RP-1 Thickening Building & Acid Phase Digester	12,000,000	13,000,000	40,000,000	30,000,000	5,000,000	-	-	-	-	-	100,000,000
	EN22045	New Regional Project PDR's	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
	EN22046	New NRW Project PDR's	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
	EN22047	New NRW Project PDR's	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
	IS22006	SCADA Network Infrastructure Replacement	335,000	300,000									635,000
	IS22007	RP-1 and RP-2 DCS Upgrade	420,000										420,000
	IS22008	Operation Electronic Log Book	140,000										140,000
	PL17002	HQ Solar Photovoltaic Power Plants Ph. 2		300,000	1,100,000								1,400,000
	PL19001	Purchase Existing Solar Installation				3,500,000							3,500,000
Regional Wastewater Capital Improvement Fund Total			**201,296,000**	**153,927,000**	**96,608,090**	**49,583,147**	**21,850,000**	**16,850,000**	**8,850,000**	**8,850,000**	**23,850,000**	**28,850,000**	**610,514,237**

FY 2021/22 and 2022/23 Biennial Budget Overview Regional Wastewater and Recycled Water Programs

Inland Empire Utilities Agency
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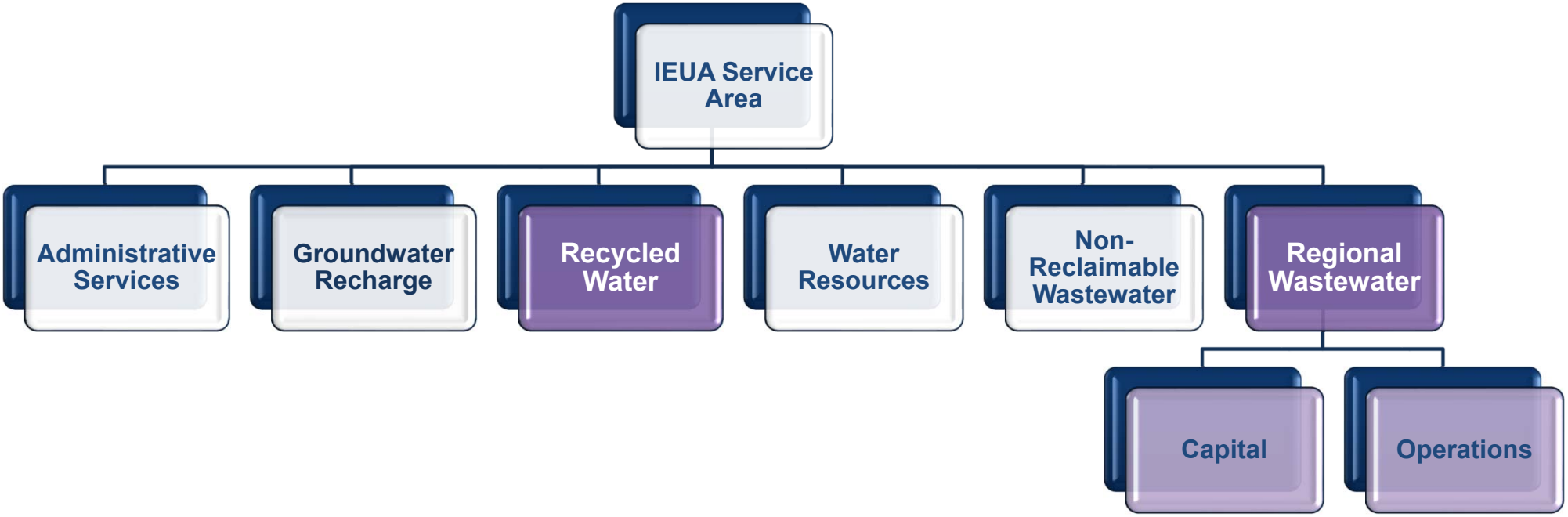
Javier Chagoyen-Lazaro
Manager of Finance and Accounting
April 2021

Fund Structure



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Key Assumptions

- Cautious optimism of a return to more “normal conditions”
- Increase in staffing to support early recruitment of critical positions
- Re-allocation of property taxes to support regional wastewater capital investments
- Capital projects based on the Proposed Ten-Year Forecast (TYF) FYs 2022- 2031
  - Support growth, asset management and regulatory compliance
  - Financing with low interest federal and state loans, while pursuing grant opportunities

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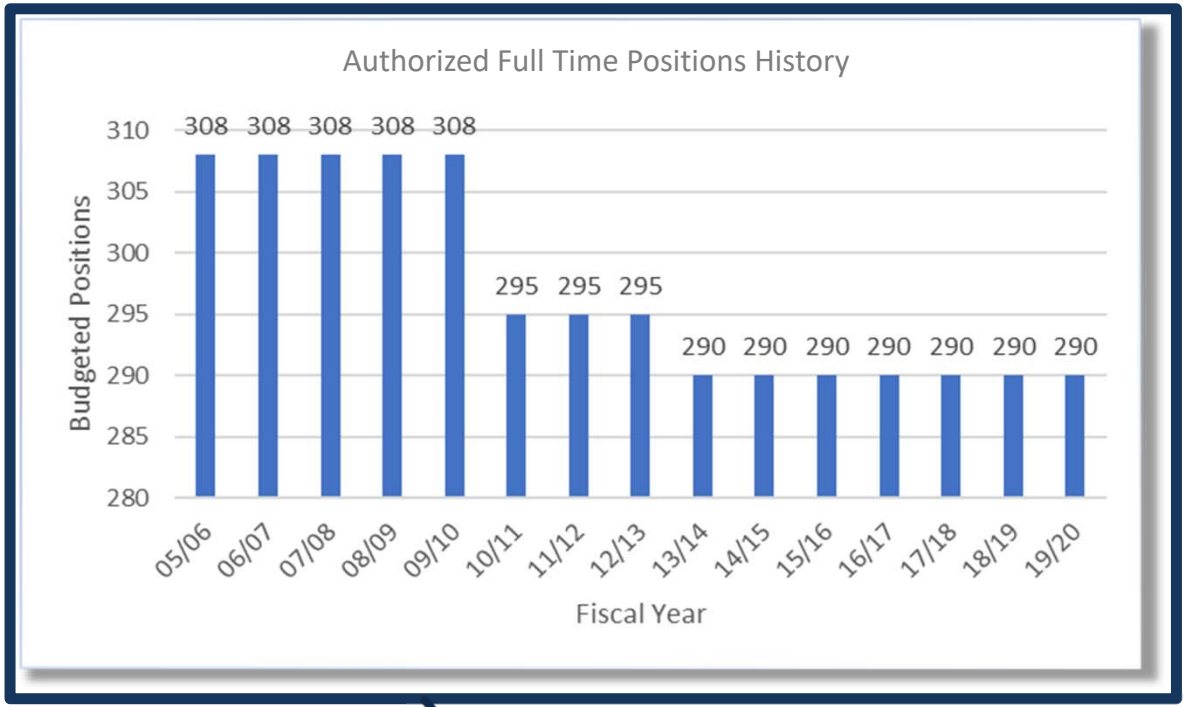
Staffing: Current State



- 290 Full-Time Employees (FTEs)
  - 27 Vacancies
    - 22 Positions in Recruitment
    - 5 Positions Pending Recruitment
- 11 Limited-Term Employees
- 10 Contracted Workers
- 22 Interns

It takes 311 individuals and 22 interns to operate the Agency in the current state.

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Proposed Positions FY 2021/22 and FY 2022/23

Type	Current Approved Level	Proposed Level
FTEs	290	302
LTEs	18	10
Total	**308**	**312**

- Continuity of Agency Operations
- Aging Assets and Infrastructure
- Planned Projects
- Regulatory Compliance
- Preservation of Critical Skills and Knowledge
- Impending Retirements
- Employee Engagement
- Long-Term Departmental Planning

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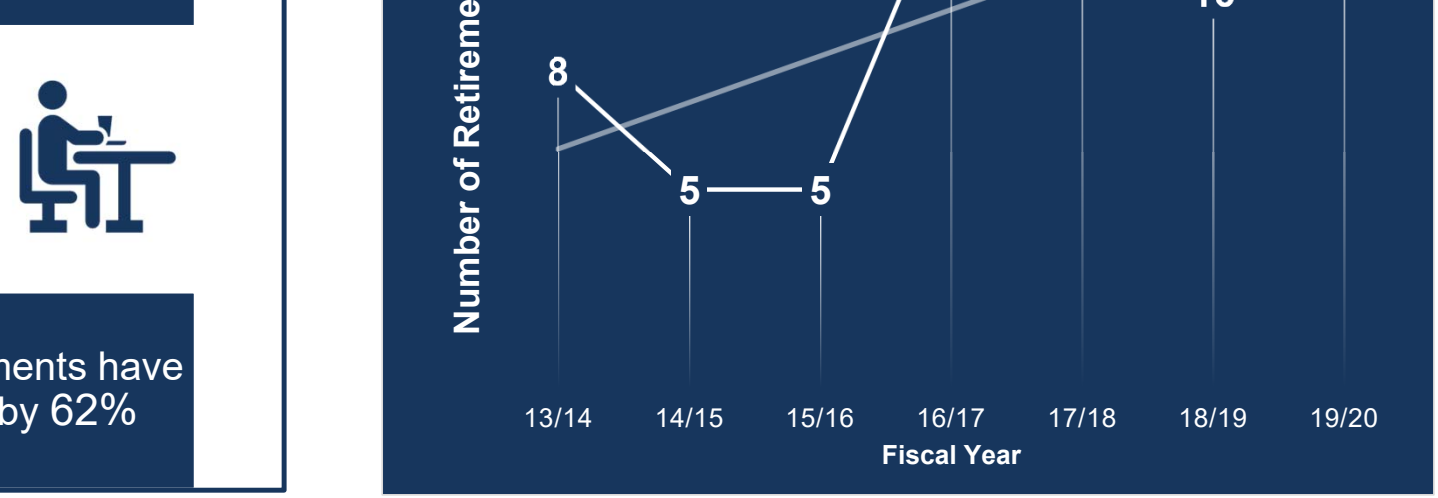
Staffing: Risks and Challenges

Succession Planning

25% of FTEs are currently eligible to retire

41% of FTEs will be eligible to retire in 2025

Yearly retirements have increased by 62%



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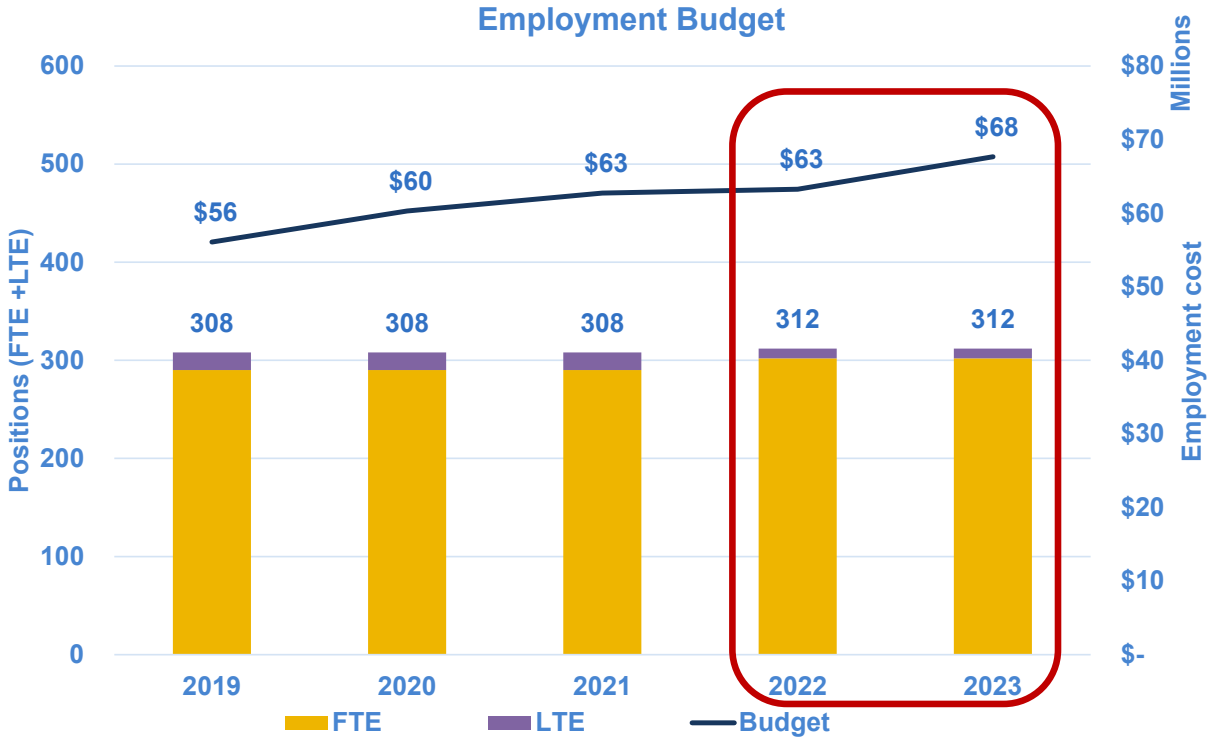
Staffing: Future State

- ~85% of employment budget supports Regional Wastewater and Recycled Water Programs



Minimal Fiscal Impact

- **Prudent Vacancy factor**
  - **FY 2022 5%**
  - **FY 2023 3%**
- **Hiring at lower salary step**
- **Utilizing lower classification, where appropriate**

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Rates and Fees

Fund	Wastewater Operations	Wastewater Capital	Recycled Water			Water Resources	
As of July 1	Monthly Sewer (EDU)	Wastewater Connection Fee (EDU)	Recycled Water Direct Use (AF)	Recycled Water Recharge (AF)	One Water Connection Fee (MEU)	Meter Equivalent Units (MEU)	MWD RTS Pass-through
FY 2019/20	$20.00	$6,955	$490	$550	$1,684	$1.04	60%
FY 2020/21	**$20.00**	**$6,955**	**$490**	**$550**	**$1,684**	**$1.04**	**75%**
FY 2021/22	**$21.22**	**$7,379**	**$520**	**$580**	**$1,787**	**$1.08**	**90%**
FY 2022/23	To be reviewed based on the sewer use evaluation results		To be determined after additional evaluation to ensure long-term program sustainability		**$1,841**	**$1.10**	**100%**
FY 2023/24					**$1,896**	**$1.12**	**100%**
FY 2024/25					**$1,953**	**$1.14**	**100%**

Adopted Estimated Projections

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Proposed Re-Allocation of Property Taxes

- Re-allocation needed to support capital investment in regional facilities

Fund	Prior to 2016 Fixed %	Since 2016 Fixed %, Fixed $, Balance	Proposed for 2022 Fixed %
Regional Wastewater Capital	65%	65%	65%
Regional Wastewater Operations	22%	$9.5M	23%
Recycled Water	5%	$2.2M	4%
Administrative Services	8%	$2.0M	4.5%
Water Resources	0%	Balance	3.5%
Total			

- Timely expansion, improvement, and upkeep of regional facilities to meet customer needs:
  - **RP-1 Thickening**
  - **RP-5 Expansion**
  - **Asset Management**
  - **Advance Water Purification Facility**
- Increasing debt service costs to support capital investment
- Completion of Chino Basin Program evaluation
- Completion of 7-year phase-in recovery of MWD RTS pass-through
- Sustainability of Recycled Water program
- Maintain fund reserve levels as required by the with Board-adopted Reserve Policy

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Proposed Re-Allocation of Property Taxes

Fund	Prior to 2015 Fixed %	Since 2016 Fixed %, Fixed $, Balance	FY 2020/21 Projected Allocation	Proposed for 2022 Fixed %	FY 2021/22 Projected Allocation
Regional Wastewater Capital	65%	65%	$36.8M	65%	$37.4M
Regional Wastewater Operations	22%	$9.5M	$9.5M	23%	$13.2M
Recycled Water	5%	$2.2M	$2.2M	4%	$2.3M
Administrative Services	8%	$2.0M	$2.0M	4.5%	$2.6M
Water Resources	0%	Balance	$6.1M	3.5%	$2.0M
Total			$56.6M		$57.5M

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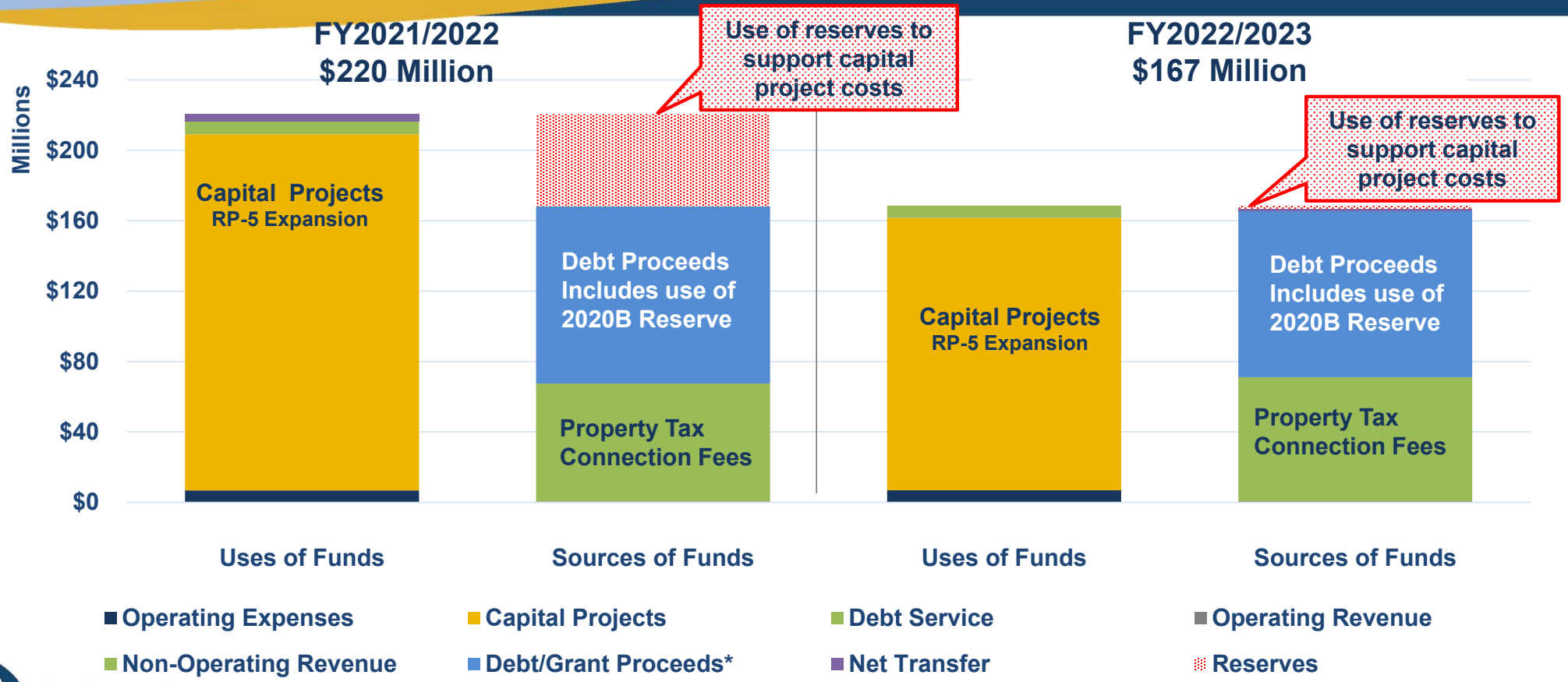
Wastewater Capital Improvement Fund
Total Sources and Uses of Funds



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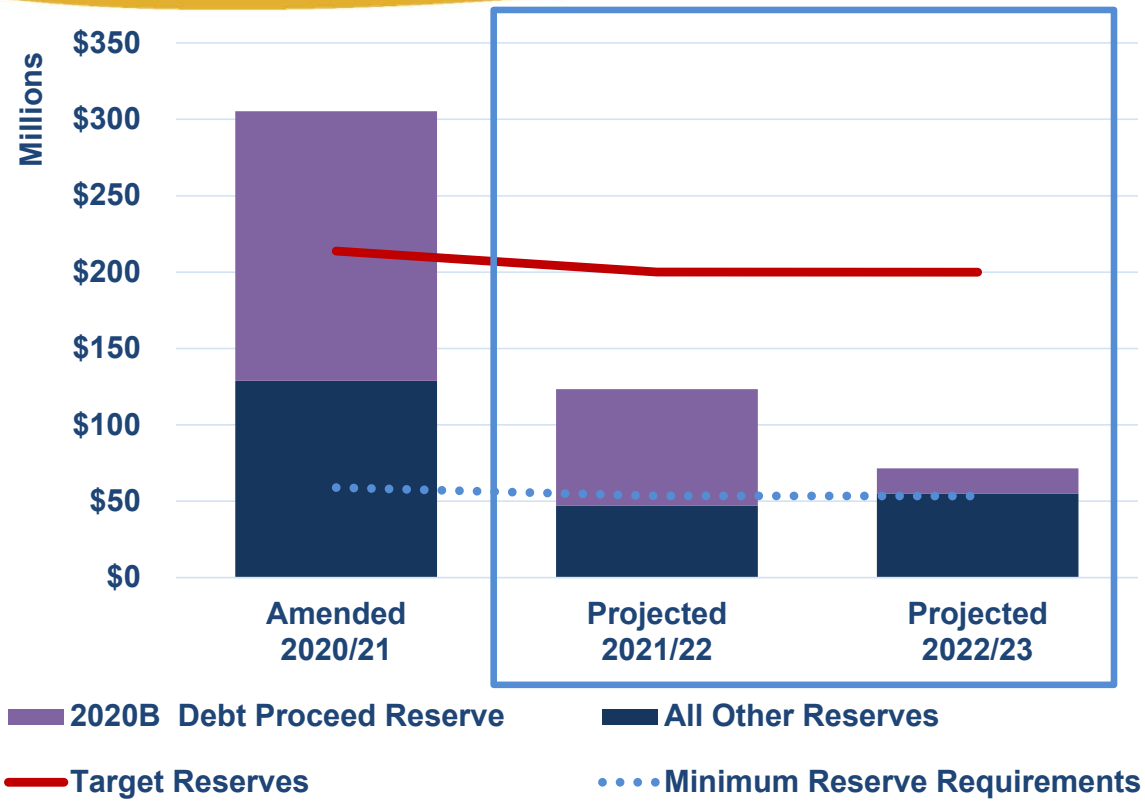
Wastewater Capital Improvement Fund Reserves



Projected decrease from planned capital project expenditures:

- **Use of 2020B Revenue Notes (RP-5 Expansion)**
- **Use of connection fees**

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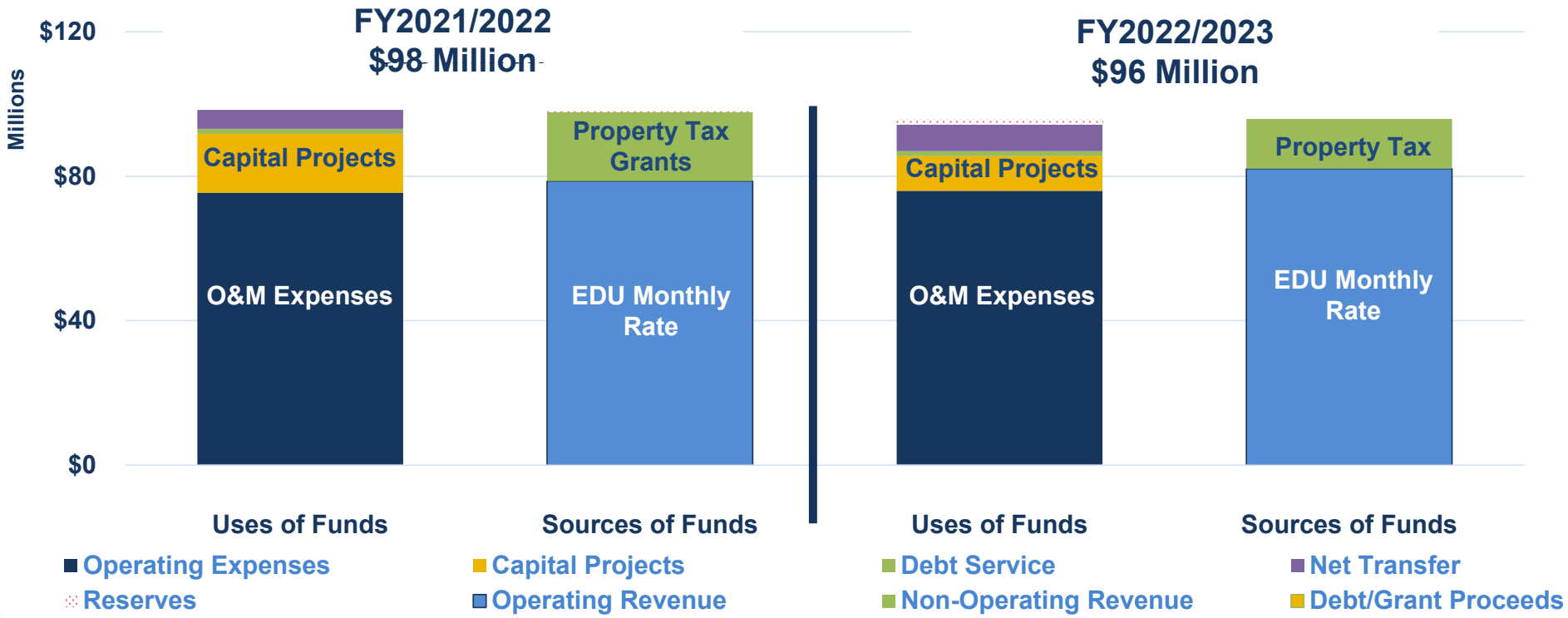
Wastewater Operations & Maintenance Fund
Total Sources and Uses of Funds



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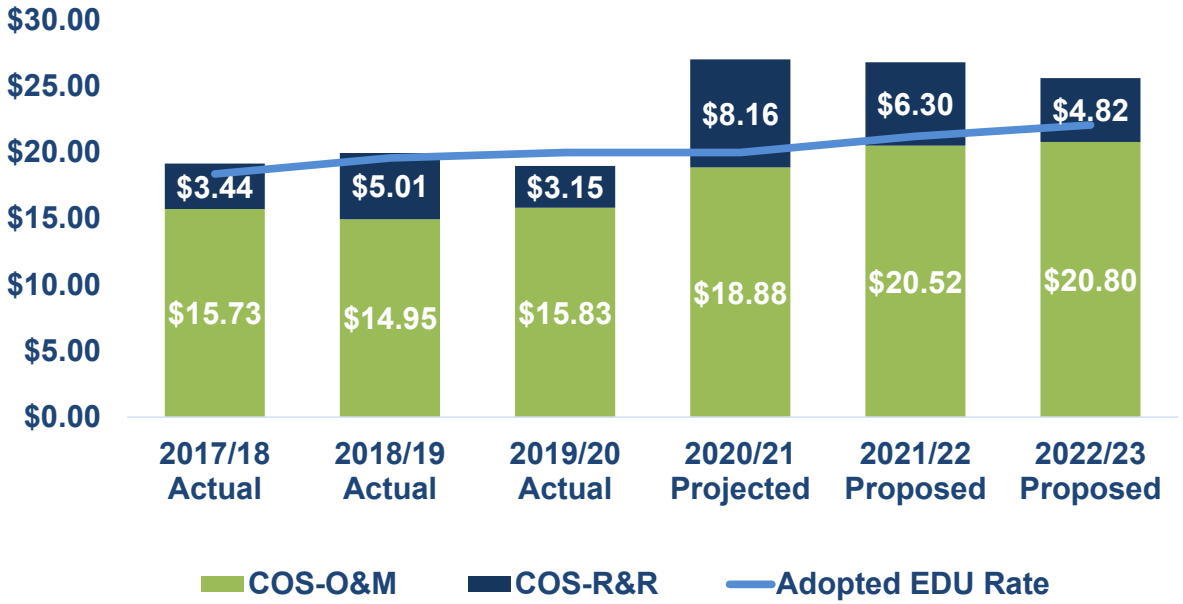
Wastewater Operations & Maintenance Fund
Cost of Service/EDU

	2020/21 Adopted	2021/22 Adopted	2022/23 Proposed
Monthly EDU Rate	$20.00	$21.22	$22.07



- COS components include O&M, R&R Projects, and Debt Service
- Sewer use study underway
- Replacement and rehabilitation (R&R) project costs not recovered by rates will be supported by property taxes and reserves

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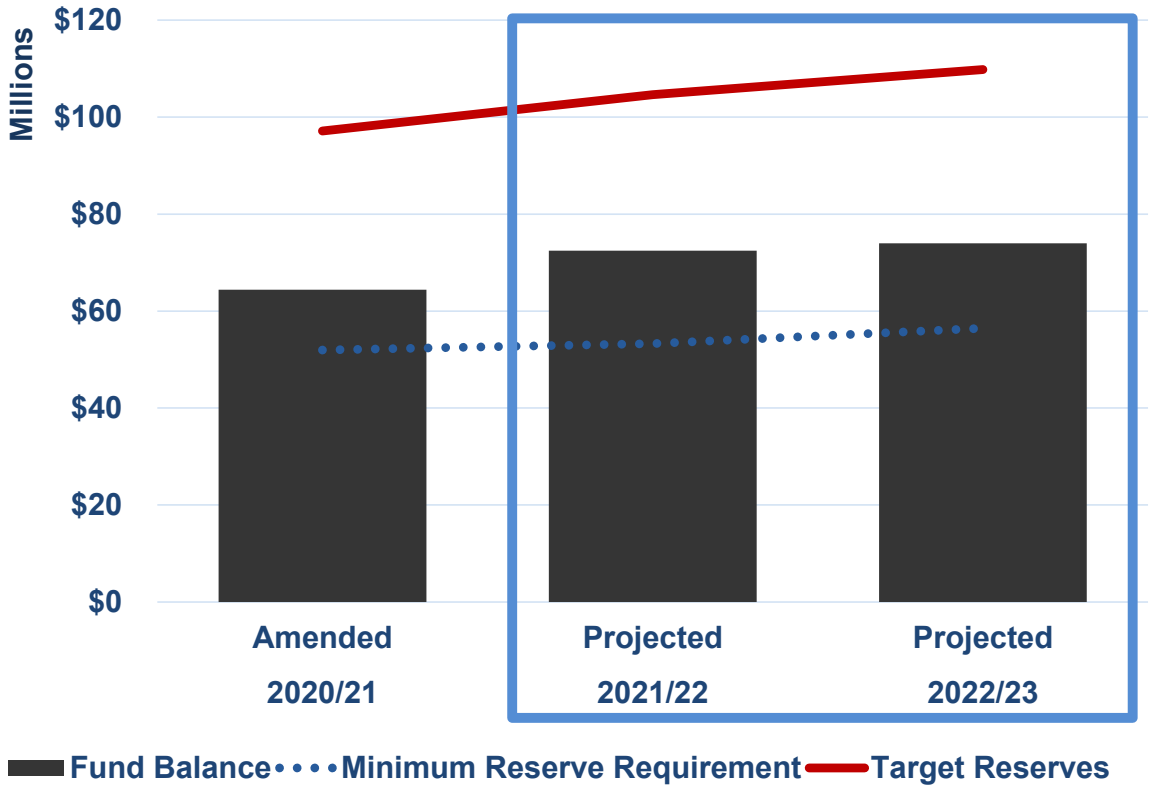
Wastewater Operations & Maintenance Fund Reserves



Stable reserves after reallocation of property taxes to support planned capital (R&R) projects

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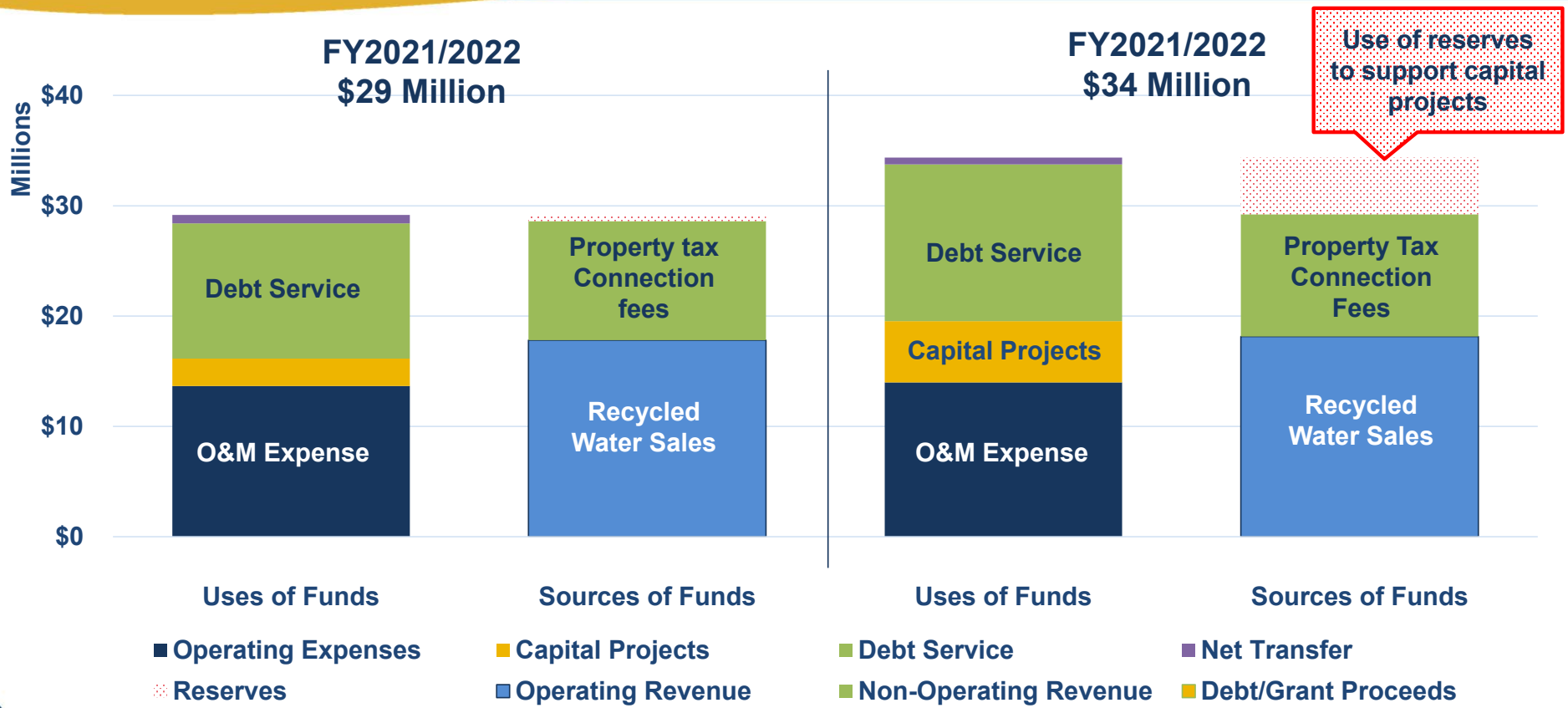
Recycled Water Fund
Total Sources and Uses of Funds



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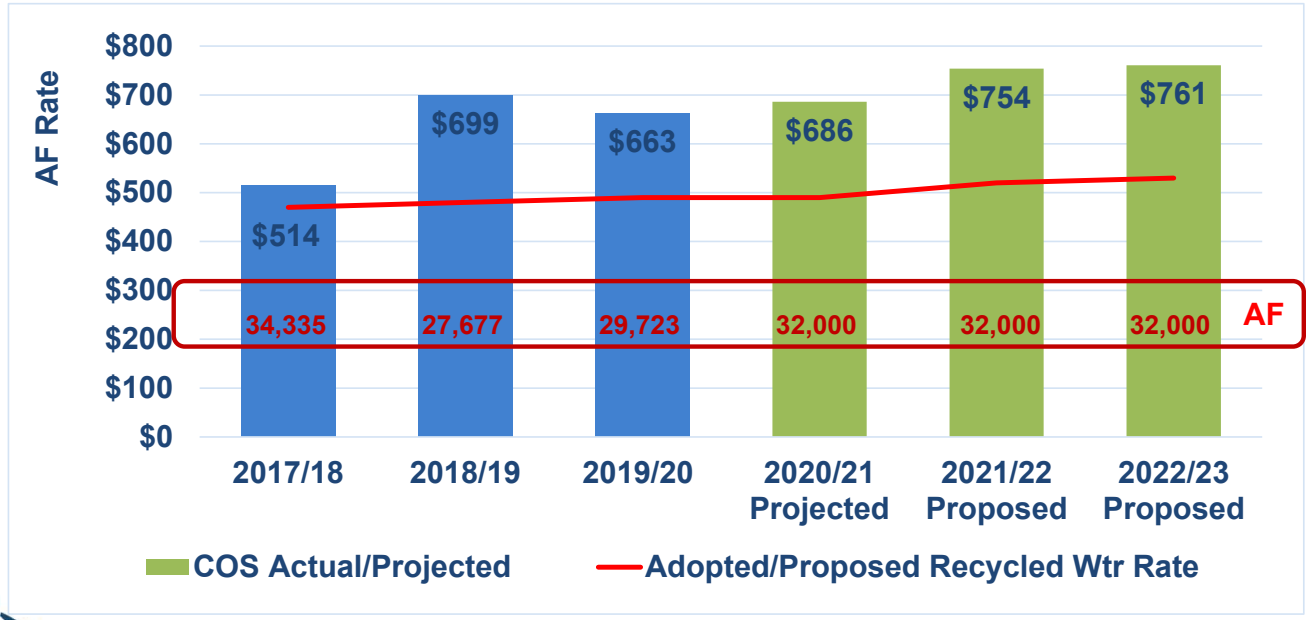
Recycled Water Fund
Cost of Service/AF

Recycled Water Acre Foot Rate	2020/21 Adopted	2021/22 Adopted	2022/23 Projected
Direct Delivery	$490	$520	$530
Groundwater Recharge	$550	$580	$590



- COS components include O&M, R&R projects, and Debt Service
- 2022 Recycled Water Rate study underway to evaluate
  - Program requirements
  - Alternate rate structures
  - Long-term fiscal sustainability
- COS shortfall is supported by property taxes, grants, connection fees reserves

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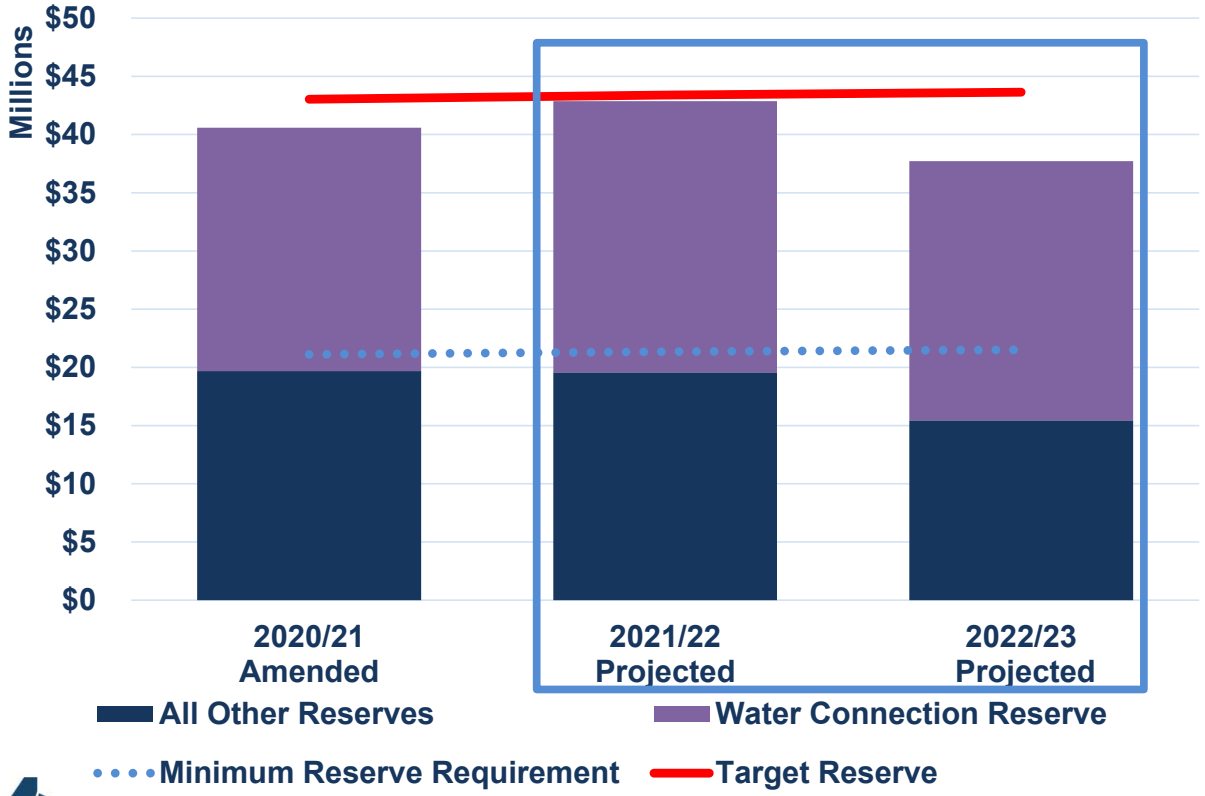
Recycled Water Fund Reserves



Projected decrease to support planned capital and debt service costs

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Take-Away

- Expectation of return to “normal” conditions in FY 2021/22.
- Increase in staffing level to support early recruitment of critical positions.
- Proposed re-allocation of property tax to support Regional Wastewater capital improvements.
- No change in adopted rates for FY 2021/22. Projected rates for FY 2022/23 adjusted by 2% - 4% to support increasing costs.
- CIP emphasis on RP-5 Expansion and R&R of aging assets, partly financed with low interest federal and state loans. Continual pursuit of grants opportunities.

Biennial Budget Review and Approval Timeline

Month	Budget Item	IEUA Committee	IEUA Board	Regional Technical	Regional Policy
Dec 2020	Staffing workshop		12/02/20		
Mar 2021	TYCIP Workshop TYF Presentation		3/03/21	3/25/21	
Apr 2021	TYF Presentation Budget Workshop		4/7/21		4/01/21
	Regional Program Budgets (Wastewater and Recycled Water)	4/14/21	4/21/21	**4/29/21**	
May 2021	Regional Programs Non-Reclaimable Wastewater, Groundwater Recharge, Water Resources, and Administrative services Budgets Regional Programs	5/12/21	5/19/21	05/27/21	5/6/21
Jun 2021	Regional Programs Biennial Budget, Rate Resolutions, and TYCIP	6/9/21	6/16/21		6/3/21

Questions

Inland Empire Utilities Agency
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INFORMATION ITEM

2C

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 29, 2021

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: External Supply Sources

RECOMMENDATION

This is an informational item.

BACKGROUND

IEUA's Regional Contracting Agencies have expressed interest in securing additional supplies from outside of the Chino Basin that would provide reliability in meeting the collective demands of the region, in particular to supplement the existing recycled water supplies. These external supplies would augment IEUA's recycled water supplies during the summer months when the recycled water demands are greater than available supplies. IEUA staff has been in negotiations with two entities to develop two different sources of water: Western Riverside County Regional Wastewater Authority (WRCRWA) JPA and City of Rialto.

Supplies from WRCRWA:
Since 2014, IEUA has been working with Jurupa Community Services District (JCSD) and Western Municipal Water District (Western) through a Memorandum of Understanding to develop a regional recycled water interconnection (WRCRWA RW Intertie). JCSD has indicated an interest in pursuing other opportunities in lieu of the regional interconnection concept that has been developed in the MOU; however, Western along with the remaining members of the WRCRWA JPA are interested in a regional partnership and started discussions in mid-2020.

WRCRWA received the approval of their Change of Use Petition from the State Water Resources Control Board which allows for the diversion of 100% of its recycled water for beneficial reuse. Its NPDES permit limit for TDS is 620 mg/L which is higher than IEUA's permit limit of 550 mg/L. Currently, the WRCRWA agencies do not have a recycled water distribution and discharge all effluent to the Santa Ana River; therefore, Western's portion of the supply is available to meet IEUA's objectives. The draft/conceptual terms resulting from the discussions are attached and was discussed previously with the Regional Technical Committee on March 16 and March 25, 2021.

In 2019, the WRCRWA RW Intertie project was awarded $2.6 million in grant funding from Department of Water Resources through the Santa Ana Watershed Project Authority (SAWPA). Based on the interest developed to date, IEUA is proposing to execute the grant funding with SAWPA in May 2021 to secure the monies. This action does not result in a commitment from the interested agencies in executing the project or approval of the conceptual terms for either project.

Supplies from the City of Rialto:

City of Rialto (Rialto) currently discharges all its treated effluent to the Santa Ana River and does not have a recycled water system within its service area. The Santa Ana River Multi-Species Habitat Conservation Plan (MSHCP) has identified that the Rialto wastewater treatment plant (WWTP) effluent during summer months has an adverse impact on native species. By removing this flow from the river, this adverse impact can be mitigated. Its NPDES permit limit for TDS is 490 mg/L which is lower than IEUA's limit of 550 mg/L. The draft/conceptual terms resulting from the discussions are attached and was discussed previously with the Regional Technical Committee on March 16 and March 25, 2021.

Rialto and Western are interested in marketing their unused recycled water supply through a regional partnership. IEUA and its agencies are interested in securing supplemental supplies during the summer months to maximize the use of its recycled water throughout the year. At the March 25, 2021 Regional Technical Committee, Cities of Montclair and Ontario and Cucamonga Valley Water District expressed support in continuing the development of the project and discussions, while the remaining agencies expressed potential interest in the future with reservation on how their respective agency may be affected with rates to support the development of these external supplies. IEUA will continue to refine the terms of an agreement, determine next steps to implement the project, and update the Regional Contracting Agencies.

RECEIVE AND FILE

3A

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Regional Sewerage Program
Policy Committee Meeting

Thursday, May 6, 2021
3:30 p.m.
Teleconference Call

PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-25-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 12, 2020, AND EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 17, 2020 ANY COMMITTEE MEMBER MAY CALL INTO THE COMMITTEE MEETING WITHOUT OTHERWISE COMPLYING WITH ALL BROWN ACT'S TELECONFERENCE REQUIREMENTS.

In effort to prevent the spread of COVID-19, the Regional Sewerage Program Policy Committee Meeting will be held remotely by teleconference.

Teleconference: 1-415-856-9169/Conference ID: 552 973 583#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling into the number provided above. Alternatively, you may email your public comments to the Recording Secretary Sally H. Lee at shlee@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

Call to Order/Flag Salute

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; 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. Comments will be limited to three minutes per speaker.

Additions to the Agenda

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

1. **Technical Committee Report** *(Oral)*

2. **Action Item**
   A. Meeting Minutes for April 1, 2021

3. **Workshop**
   A. Regional Contract Negotiations Update

4. **Informational Items**
   A. Review of Proposed Biennial Budget for Fiscal Years 2021/22 and 2022/23 for the Regional Wastewater and Recycled Water Programs
   B. Beneficial Use of Biogas – Cogeneration Update
   C. External Supply Sources

5. **Receive and File**
   A. Operations Division Quarterly Update
   B. Building Activity Report
   C. Recycled Water Distribution – Operations Summary
   D. Expanded Return to Sewer Study
   E. Regional Contract Negotiations Meeting Notes

6. **Other Business**
   A. IEUA General Manager's Update
   B. Committee Member Requested Agenda Items for Next Meeting
   C. Committee Member Comments
   D. Next Meeting – June 3, 2021

Adjournment

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Recording Secretary (909) 993-1926, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

I, Sally H. Lee, Executive Assistant of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted to the IEUA Website at www.ieua.org and posted at the Agency's main office at 6075 Kimball Avenue, Building A, Chino, CA, by Thursday, April 29, 2021.

Sally H. Lee

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3B

Building Activity Report - YTD Fiscal Year 2020/21

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Legend

- Service Area
- Unincorporated

EDU (YTD)

Residential
- <=1.0
- 1.0 - 10.0
- >10.0

Commercial
- <=1.0
- 1.0 - 10.0
- >10.0

Industrial
- <=1.0
- 1.0 - 10.0
- >10.0

HALF MILE GRID: TOTAL EDU's (YTD)

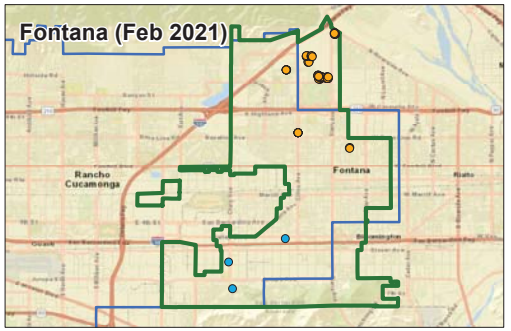
0 0.5 1 15 30 45 75+

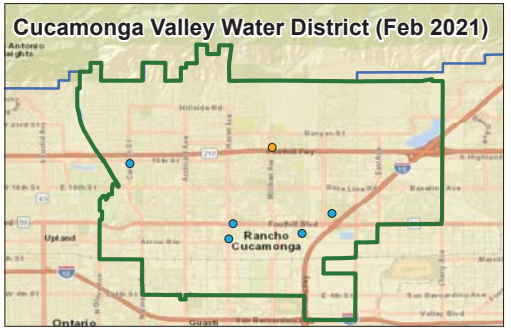
TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

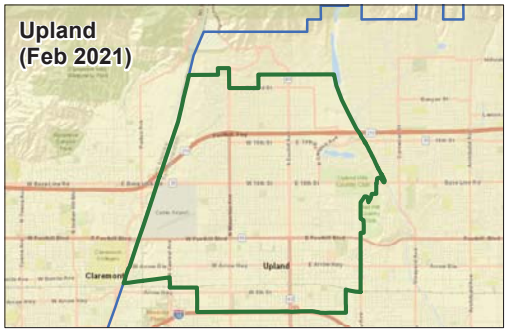
Contracting Agency	YTD Actual				Projected
	Commercial (EDUs)	Industrial (EDUs)	Residential (EDUs)	Total (EDUs)	Total (EDUs)
Chino	14	0	287	301	430
Chino Hills	18	0	27	45	182
CVWD	26	27	14	66	1650
Fontana	56	7	797	860	2406
Montclair	8	0	0	8	407
Ontario	91	-3	724	811	3865
Upland	18	0	35	53	381
Total	230	31	1884	2145	9321

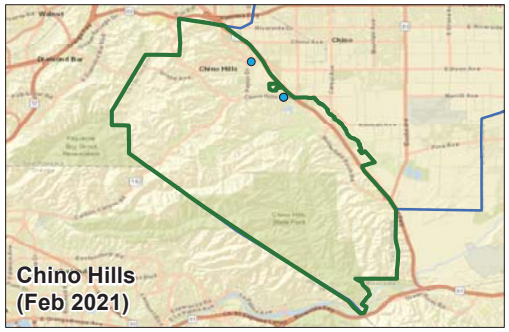
*

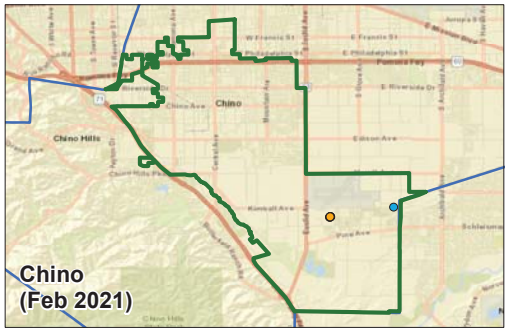
0 2.5 5 10 Miles











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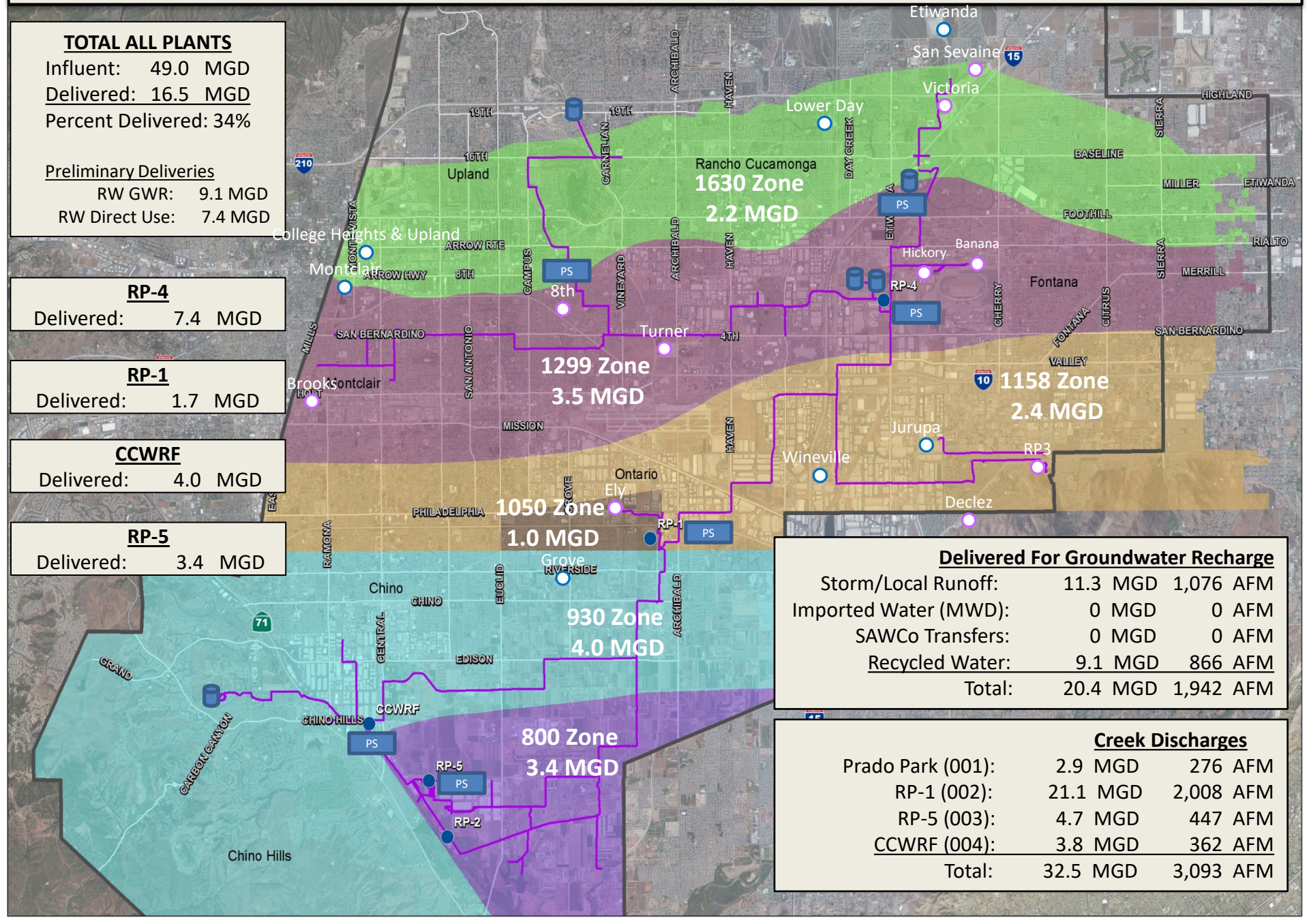
3C

IEUA RECYCLED WATER DISTRIBUTION – MARCH 2021



TOTAL ALL PLANTS

Influent:	49.0 MGD
Delivered:	16.5 MGD
Percent Delivered:	34%

Preliminary Deliveries

RW GWR:	9.1 MGD
RW Direct Use:	7.4 MGD

RP-4

Delivered: 7.4 MGD

RP-1

Delivered: 1.7 MGD

CCWRF

Delivered: 4.0 MGD

RP-5

Delivered: 3.4 MGD

Delivered For Groundwater Recharge

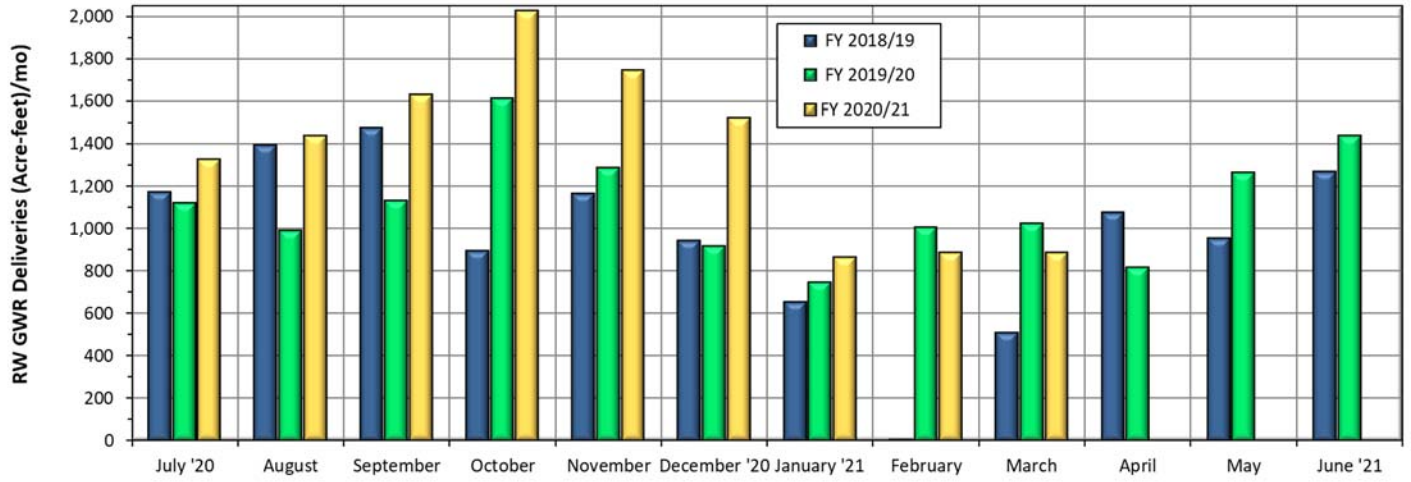
Storm/Local Runoff:	11.3 MGD	1,076 AFM
Imported Water (MWD):	0 MGD	0 AFM
SAWCo Transfers:	0 MGD	0 AFM
Recycled Water:	9.1 MGD	866 AFM
Total:	20.4 MGD	1,942 AFM

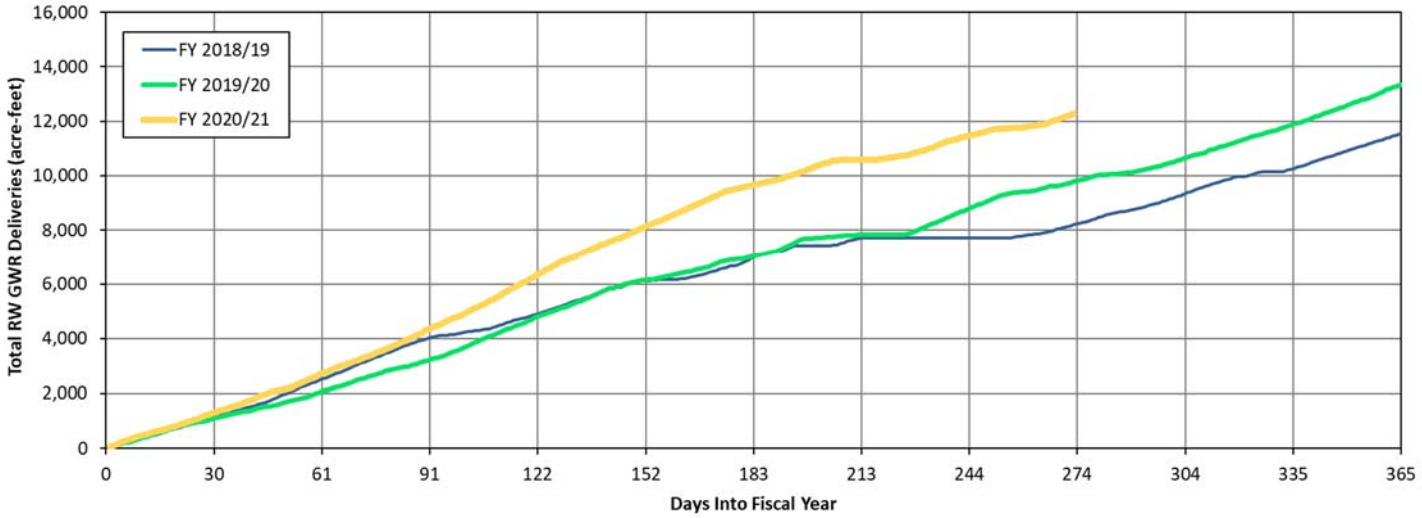
Creek Discharges

Prado Park (001):	2.9 MGD	276 AFM
RP-1 (002):	21.1 MGD	2,008 AFM
RP-5 (003):	4.7 MGD	447 AFM
CCWRF (004):	3.8 MGD	362 AFM
Total:	32.5 MGD	3,093 AFM

Recycled Water Recharge Deliveries - March 2021 (Acre-Feet)

Basin	3/1-3/6	3/7-3/13	3/14-3/20	3/21-3/27	3/28-3/31	Month Actual	FY To Date Actual	Deliveries are draft until reported as final and do not included evaporative losses.
Ely	10.2	5.8	15.3	47.5	27.0	105.8	793	
Banana	7.7	1.4	0.0	18.3	10.2	37.6	543	
Hickory	0.0	0.0	0.0	0.0	0.0	0.0	245	
Turner 1 & 2	0.0	0.0	0.0	0.0	0.0	0.0	494	
Turner 3 & 4	8.7	1.8	11.8	17.4	15.1	54.8		
8th Street	12.4	12.7	0.0	0.0	0.4	25.5	667	
Brooks	0.0	0.0	0.0	0.0	24.6	24.6	686	
RP3	92.7	31.8	43.9	110.9	77.8	357.1	5391	
Declez	0.0	0.0	0.0	2.8	0.0	2.8	623	
Victoria	12.2	2.5	7.1	20.4	10.5	52.7	1061	
San Sevaine	44.3	37.4	37.3	57.0	28.9	204.9	1833	
Total	188.2	93.4	115.4	274.3	194.5	865.8	12,336	8,830 AF previous FY to day actual





TECHNICAL COMMITTEE ITEMS DISTRIBUTED

4A

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: April 2021

To: Regional Committees

From: Inland Empire Utilities Agency

Subject: Clean Water State Revolving Fund Program Principal Forgiveness

FOLLOW UP INFORMATION

This information is provided as a follow-up to the March 2021 Technical Committee meeting question from Committee Member Ron Craig regarding IEUA's history of receiving principal forgiveness (PF) from the Clean Water State Revolving Fund (CWSRF) loan program.

Principal forgiveness is a mechanism of non-repayable financing that can reduce the amount of loan funding that applicants need to pay back to the State Water Resources Control Board (SWRCB). Beginning in 2016, the CWSRF program provided PF to eligible projects that addressed water or energy efficiency, mitigated storm water runoff, or encouraged sustainable planning, design, or construction. These projects fulfilled the Green Project Reserve (GPR) requirement within the CWSRF Policy and the PF for GPR projects was funded via a state capitalization grant. Each individual project that met the GPR criteria was eligible for PF in an amount up to 50% of project costs, but not exceeding $2.5 million.

The SWRCB revised the PF policy in 2018 due to reduced availability of capitalization grant funds. Although the maximum amount of PF obtainable for each project was increased to $4 million, the eligibility criteria was narrowed so only projects serving disadvantaged or severely disadvantaged communities (DACs or SDACs) could receive the PF funding. As a result, the number of projects eligible for PF funding has decreased, although IEUA has received non-repayable financing in the form of state grants as an alternative.

Since 2017, IEUA has received approximately $9.5 million in PF from the CWSRF program, with an additional $2.3 million in non-repayable financing being provided through Proposition 1 Water Recycling Funding Program grants, as shown in the table below.

Clean Water State Revolving Fund Program Principal Forgiveness
April 2021

Fiscal Year	Project Name	Total Project Costs (Loan Amount)	Principal Forgiveness	Other Non-Repayable Financing (WRFP Grant)
2017	New Water Quality Laboratory	$23,847,576	$1,261,335	$0
2017	San Sevaine Basin Improvements	$4,843,167	$2,421,583	$0
2017	Napa Lateral	$6,050,000	$2,500,000	$0
2020	Baseline Extension	$6,694,013	$3,347,006	$0
2020	RP-1 1158 Recycled Water Pump Station	$6,693,000	$0	$1,550,500
2020	RP-5 Recycled Water Bottleneck	$3,137,169	$0	$708,260
TOTALS		**$51,264,925**	**$9,529,924**	**$2,258,760**