

Regional Sewerage Program Technical Committee Meeting

AGENDA Thursday, September 30, 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 Technical Committee Meeting will be held remotely by teleconference.

Teams Conference Link: https://teams.microsoft.com/l/meetup-

join/19%3ameeting_NmRmY2FmMDYtNTBmMS00MjA5LTk3ODgtZDkyY2U3MTRmZGYz%40thread.v2/0? context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2-

cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

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 Laura Mantilla at <u>Imantilla@ieua.org</u> 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. <u>Comments will be limited to three minutes per speaker.</u>

(Continued)

Additions to the Agenda

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require twothirds 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. Approval of August 26, 2021 Technical Committee Meeting Minutes
- B. 2021 IEUA Wastewater and Recycled Water Demand Forecasts

2. Informational Items

- A. FY 2020/21 Fourth Quarter Budget Variance Report
- B. Recycled Water Groundwater Recharge Update
- C. Engineering Quarterly Project Update
- D. Return to Sewer Study (Oral)
- E. 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
- D. CBP/WSIP Baseline Scenario Regional Contract
- 4. Technical Committee Items Distributed None

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 October 28, 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) 993-1944, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

I, Laura Mantilla, 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 <u>www.ieua.org</u> and posted at the Agency's main office at 6075 Kimball Avenue, Building A, Chino, CA, on Thursday, September 23, 2021.

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Regional Sewerage Program Technical Committee Meeting **MINUTES OF AUGUST 26, 2021**

CALL TO ORDER

A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, August 26, 2021. Committee Chair Nicole deMoet/City of Upland called the meeting to order at 2:03 p.m. Recording Secretary Sally Lee took roll call and established a quorum was present.

ATTENDANCE via Teleconference

Committee Members PRESENT:

David Crosley	City of Chino
Ron Craig	City of Chino Hills
Eduardo Espinoza	Cucamonga Valley Water District (CVWD)
Armando Martinez	City of Fontana
Mike Hudson	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
Mark Wiley	City of Chino Hills
Steve Nix	City of Fontana
Christopher T. Quach	City of Ontario
Julian Chang	City of Upland
Braden Yu	City of Upland
Bob Jones	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
Lucia Diaz	Inland Empire Utilities Agency
Elizabeth Hurst	Inland Empire Utilities Agency

Sally Lee	Inland Empire Utilities Agency
Sylvie Lee	Inland Empire Utilities Agency
Scott Lening	Inland Empire Utilities Agency
Eddie Lin	Inland Empire Utilities Agency
Scott Oakden	Inland Empire Utilities Agency
Cathleen Pieroni	Inland Empire Utilities Agency
Ken Tam	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 ITEMS

A. APPROVAL OF JULY 29, 2021 TECHNICAL COMMITTEE MEETING MINUTES

Motion: By Courtney Jones/City of Ontario and seconded by Mike Hudson/City of Montclair to approve the meeting minutes of the July 29, 2021 Technical Committee meeting.

Motion carried: Ayes: 8; Noes: 0; Absent: 0; Abstained: 0

With the following roll call vote:

Ayes:	Jones,	Hudson,	Craig, Crosley	, Deshmukh,	Espinoza,	Martinez, d	deMoet
Noes:	None						
Absent:	None						
Abstain:	None						

B. <u>REQUESTS BY THE CITY OF ONTARIO FOR REGIONAL CONNECTION POINTS TO THE UPLAND</u> INTERCEPTOR RELIEF SEWER (ONTARIO REGIONAL SEWER CONNECTION #O-105 AND #O-106)

Jerry Burke gave an update on the requests by the City of Ontario for Regional Connection Points to the Upland Interceptor Relief Sewer (Ontario Regional Sewer Connection #O-105 and #O-106).

Motion: By Mike Hudson/City of Montclair and seconded by Eduardo Espinoza/CVWD to approve the requests by the City of Ontario for two new connection points to the Upland Interceptor Relief Sewer (Ontario Regional Sewer Connection #O-105 & #O-106).

Motion carried: Ayes: 8; Noes: 0; Absent: 0; Abstained: 0

With the following roll call vote:

Ayes:Hudson, Espinoza, Craig, Crosley, Deshmukh, Jones, Martinez, deMoetNoes:NoneAbsent:NoneAbstain:None

C. 2021 IEUA WASTEWATER AND RECYCLED WATER DEMAND FORECASTS

Liza Muñoz provided an overview of the 2021 IEUA Wastewater and Recycled Water Demand Forecasts. Ms. Jones asked how the demand forecasts will be used by IEUA. Ms. Muñoz stated the data will be used to internally develop forecasts until the land use inventory can be updated from the contracting agencies. Mr. Dave Crosley/City of Chino noted that the technical memorandum information was missing from his meeting packet and asked if this item is time sensitive or if the Committee could take action at the next regular meeting. General Manager Shivaji Deshmukh stated that the technical memorandum will be sent to the Committee members after the meeting. The Committee discussed and agreed to table this item to next month to allow for review of the missing information.

2. INFORMATIONAL ITEMS

A. <u>CBP|WSIP UPDATE</u>

Sylvie Lee/IEUA provided a brief update on the Chino Basin Program | Water Storage Infrastructure Program (CBP | WSIP). Ms. Lee reviewed the components of the program costs and schedule. She explained the commitment needed for the project to remain eligible for funding. Ms. Jones stated Ontario sent a memo to the Technical Committee regarding the wastewater components of the Program and the Regional Contract. Ms. Jones requested that the CBP | WSIP baseline scenario be brought to the Regional Committee meetings. Discussion pursued regarding the Regional Contract, recycled water, wastewater, and extraction wells.

B. BUILDING ACTIVITY REPORTING

Ken Tam/IEUA provided an update on the Building Activity Reporting (BAR). Mr. Tam informed the Committee that he and Ms. Muñoz will contact the contracting agencies to schedule a meeting regarding the use of the 2021 Wastewater Demand Forecast Model. Mr. Crosley stated that the City of Chino staff have challenges preparing and submitting the monthly BAR report by the deadline (15 days prior to the end of the month). He asked if the 15-day deadline can be expanded to 30 days. Mr. Tam responded that during the Regional Contract negotiations process, the timeline was one of the topics of discussion and was changed to 30 days in the term sheet. General Manger Deshmukh asked if there is a mechanism to implement the change now. Mr. Tam indicated that he would see if this amendment can be implemented immediately.

C. <u>RETURN TO SEWER STUDY</u>

Ken Tam/IEUA gave an update on the progress of the expanded Return to Sewer Study. Mr. Tam reported that Data Collaborative has been working with CVWD, City of Chino and City of Ontario to establish the nondisclosure agreements for the data onboarding process. Once the data process is completed, Data Collaborative will use the data to run the model.

D. OPERATIONS & COMPLIANCE UPDATES

Ken Tam/IEUA stated there were no process disruptions, sanitary sewer overflow or compliance issues for the northern and southern operations. Mr. Tam reported that the Agency passed the toxicity test for RP-1 and RP-5; monitoring frequencies are back to normal. Mr. Tam also informed the Committee that the 1,2,3 -Trichloropropane results are included in the meeting packet. He added that the Compliance department also issued a corrective action plan to the Division of Drinking Water and the Regional Board last week. Lastly, the Environment Protection Agency State and Regional

Board Auditors from the Regional Pretreatment Program were onsite to complete site inspections. He will report the results of the audit next month.

3. <u>RECEIVE AND FILE</u>

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. <u>RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY</u>

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

C. PRETREATMENT COMMITTEE MEETING MINUTES

The August 5, 2021 Pretreatment Committee Meeting minutes was received and filed by the Committee.

D. CBP | WSIP WORKGROUP MEETING PRESENTATION

The August 2021 CBP|WSIP Workgroup Meeting Presentation was received and filed by the Committee.

4. TECHNICAL COMMITTEE ITEMS DISTRIBUTED

A. OPERATIONS AND COMPLIANCE UPDATE FOLLOW-UP (1,2,3 -TRICHLOROPROPANE)

5. OTHER BUSINESS

A. IEUA GENERAL MANAGER'S UPDATE

General Manager Deshmukh reported that on July 30, a contractor working on the 10-freeway widening project punctured IEUA's 42" recycled waterline. IEUA staff from Engineering, Operations and an emergency contractor responded. The leak was repaired, and the system was placed back online. The contractor's costs are estimated to be over \$300,000.

A meet and greet with the new MWD General Manager Adel Hagekhalil is scheduled for Friday, September 10. An invitation will be sent to member agencies, Policy Committee members, stakeholders, and other elected officials.

B. COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING

Ms. Jones requested that the item requested per Ontario's letter on the components of the CBP – Regional Contract be added to the agenda for the next meeting.

C. COMMITTEE MEMBER COMMENTS

Mike Hudson/City of Montclair commented that the new Public Works Director Monica Heredia will start on September 7, 2021 and will represent the City of Montclair at the next the Tech Committee meeting.

Ron Craig/City of Chino Hills thanked IEUA staff for the presentations and follow-up items. He applauded the member agencies and IEUA for their efforts to stay ahead of the curve on the topics of water forecasting, planning and water supply capacities.

D. NEXT MEETING - SEPTEMBER 30, 2021

ADJOURNMENT – Chair deMoet adjourned the meeting 3:02 p.m.

Prepared by:

Laura Mantilla, Executive Assistant

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	und Empire Utilities Agency UNICIPAL WATER DISTRICT
Date:	September 30, 2021
То:	Regional Technical Committee
From:	Inland Empire Utilities Agency
Subject:	2021 IEUA Wastewater and Recycled Water Demand Forecasts

RECOMMENDATION

It is recommended that the Regional Technical Committee approve using the 2021 Wastewater and Recycled Water Demand Forecast as the demand forecast model for the IEUA service area.

BACKGROUND

In 2015, a land use demand model (Model), based on General Plan land use data, was developed as part of the 2015 IEUA Urban Water Management Plan (UWMP). The Model was capable of forecasting water demands in the IEUA service area. The development of the Model was supported by city/retail agencies and used in their UWMPs. IEUA intended to update the Model based on the current General Plans and develop unit use factors to project demands for water, recycled water, and wastewater in 5-year increments to the furthest build-out date. In 2019, during the Regional Contract Negotiations, the contracting agencies and IEUA reviewed and agreed that adapting the Model for wastewater demand forecasts based on land use would be a more collaborative and representative methodology.

A workshop was held on November 20, 2020 with the contracting agencies to provide an overview of the proposed methodology to develop the unit factors that will generate the wastewater flow and recycled water demand forecasts for new developments only. The 2015 land use acreage inventories for future land uses were maintained for this interim demand forecast.

For the wastewater flow factor, two sewer master plans and the pilot "return to sewer" study were evaluated to compare values. In a comparison to the actual 2020 influent flows, applying the City of Ontario's unit factor to the IEUA service area resulted in a 33% higher value, whereas the pilot study generated a 6% higher value. Using the Per Capita method, the total flow was 17% higher than the 2020 actual. This was considered a reasonable value since new developments were being built at greater densities than older, established ones. It was determined by IEUA staff and the project consultant to use the Per Capita method which based the wastewater flow factor on a per capita basis depending on residential and non-residential land uses, starting with 50 gallons per capita per day (gpcd) in 2020 and incrementally decreasing by 5 gpcd every 5 years to 30 gpcd in 2040. This gradual reduction is anticipating indoor water use efficiencies.

Fut	ure New Flows	by Contracting	g Agencies (gp	d)
	2025	2030	2035	2040
Chino	542,165	1,042,011	1,069,043	1,138,597
Chino Hills	186,624	416,288	364,302	593,896
CVWD	928,626	1,159,573	1,218,757	1,091,416
Fontana	1,408,453	2,012,335	2,556,174	2,278,544
Montclair	3,473	8,822	33,232	31,761
Ontario	1,404,136	2,799,537	3,058,027	5,483,941
Upland	59,382	109,874	112,160	153,366
Total	4,532,858	7,548,439	8,411,695	10,771,520

Adding the future new flows to the 2020 actual influent flow results in the incremental projected flows to 2040.

	Total Projected Flows by Treatment Plant (gpd)							
	2020 Actual	2025	2030	2035	2040			
RP1	23,491,685	24,655,887	25,065,668	25,379,875	25,285,712			
RP4	9,339,146	10,829,104	11,648,771	12,101,338	11,836,409			
RP5	8,460,502	10,193,321	11,817,753	11,898,963	14,333,499			
CCWRF	7,881,736	8,027,615	8,189,315	8,204,588	8,488,968			
Total	49,173,069	53,705,927	56,721,508	57,584,764	59,944,589			

For the recycled water unit demand evaluation, actual billing data was used for sample properties under each land use type that were developed recently in Chino and Ontario where the extent of recycled water areas could be identified through aerial imagery such as landscaped areas, common areas, or frontages. The landscaped area was calculated as a percentage of the gross area. For each land use type, the billing data and calculated landscaped areas were averaged to develop the recycled water unit demands. Adjustment factors were included for recycled water such as climate change, passive conservation, and unbilled water estimates.

By applying the recycled water unit demands to the future land use acreage, the incremental 5-year potential recycled water demand projections are added to the 2020 IEUA direct use sales of 16,278 acre-feet resulting in a total demand projection of 27,855 acre-feet in 2040.

Recycled Water Potential (acre-feet)								
Source of Data	2020	2025	2030	2035	2040			
Total IEUA Direct Use Sales	16,278							
New Growth Potential Demand		4,592	6,998	8,426	11,577			
Total Potential Demand		20,870	23,276	24,704	27,855			

		Billed	Potential Direct Use Demand (acre-feet)				
Contracting Agen	су	2020	2025	2030	2035	2040	
Chino Total		4,795	5,498	5,780	5,961	6,178	
New Demands Only			704	985	1,166	1,384	
Chino Hills Total		1,417	1,858	2,047	2,047	2,626	
New Demands Only			441	630	630	1,209	
CVWD Total		1,038	2,032	2,288	2,513	2,674	
New Demands Only			995	1,250	1,475	1,636	
Fontana Total		211	994	1,392	1,911	2,000	
New Demands Only			784	1,182	1,701	1,789	
Montclair Total		298	359	363	396	398	
New Demands Only			61	65	98	101	
Ontario Total		7,817	9,188	10,383	10,814	12,820	
New Demands Only			1,372	2,566	2,997	5,003	
Upland Total		703	940	1,022	1,062	1,158	
New Demands Only	_		237	320	359	455	
	Total	16,278	20,870	23,275	24,704	27,855	

The potential direct use demands by contracting agency are shown below:

A second workshop was held on May 5, 2021 with the contracting agencies to discuss the results of the forecasting effort. The methodology for forecasting wastewater flows and recycled water demands being land use based and GIS-supported allowed for transparency. This evaluation reflected the general plans as of 2015 which provided the timing of development through 2040.

The results that are summarized above and included in the Attachment "Final TM Wastewater Recycled Water Demand Forecast. 08.26.21" are intended to be used to develop wastewater and recycled water demand forecasts. Upon the completion of the expanded Return to Sewer Study in early 2023, which will include data from the cities of Chino, Ontario and Cucamonga Valley Water District, the developed wastewater unit factors will be incorporated into the model and updated in 2025.

The final technical memorandum describing the methodology and resulting forecasts (Attachment A) was presented to the Regional Technical Committee on August 26, 2021.

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

WASTEWATER AND RECYCLED WATER DEMAND FORECAST



Technical Memorandum

August 2021



IEUA WASTEWATER AND RECYCLED WATER DEMAND FORECAST

Technical Memorandum

Date:	August 6, 2021
То:	Liza Munoz, Ken Tam, IEUA
From:	Karen Johnson, Water Resources Planning
Subject:	Development of Land Use Based Wastewater Flows and Recycled Water Demands

This Technical Memorandum was prepared by Karen Johnson, Water Resources Planning in accordance with an agreement with the Inland Empire Utilities Agency (IEUA). This memorandum provides a summary of the process used and results of the Wastewater and Recycled Water Demand Forecast for the IEUA and its Contracting Agencies. Contracting Agencies include the cities of Chino, Chino Hills, Fontana, Montclair, Ontario, and Upland, and Cucamonga Valley Water District. The memorandum is organized by the following topics.

- Section 1 Introduction
- Section 2 Land use based methodology and 2015 study
- Section 3 Determining wastewater flows
- Section 4 Determining recycled water demands
- Section 5 Conclusions

Section 1 INTRODUCTION

The objectives of the project are to 1) develop a collaborative land use based forecasting model to determine total potential wastewater flow and recycled water demands at Contracting Agency levels through 2040, 2) forecast total potential dry weather wastewater flows to the region's four wastewater treatment facilities (WWTPs), and 3) forecast total potential direct use recycled water irrigation demands for new development. The model was initiated by an interest in regional collaborative forecasting.

The process relied on the use of a land use based model IEUA and its Member Agencies developed in 2015 for forecasting potable water demands. The model was adapted to analyze wastewater and recycled water demands. Because some elements of the model were not updated for 2020 conditions, i.e., land use database, the results of this analysis are considered interim. As shown in Figure 1.1, the model provides a consistent basis for each of the projections.



A significant part of this interim work was to establish land use based wastewater flow factors and recycled water unit demands as input to the model.

Section 2 Land Use Based Methodology and 2015 Study

Overview of 2015 Model

IEUA developed a Land Use Based Demand Model (Demand Model) in 2015 to provide disaggregated regional water use and projection data at the Member Agency (potable water supplier) level. This model utilized Geographic Information System (GIS) layers created for the model of existing land uses, melding land use categories for each of the land use planning agencies. Also created were GIS layers of planned land use changes by each City and County General Plan for vacant, underutilized, and redevelopable lands in five-year increments to 2040. The Local Agency Formation Commission (San Bernardino County LAFCO) Sphere of Influence (SOI) boundaries for each agency were used. The mapped existing and future land uses were reviewed by each land use agency for accuracy and to determine a rough estimate of date of development. The results were input to the model as an inventory of acres of land use by land use category in five year increments through 2040.

For the 2015 study, land use based unit demands (LUDs) were developed using member agency data to reflect potable water demands on a per acre basis for each of the land use categories. The LUDs were applied to the acres of each land use for each five-year increment. Adjustment factors were determined to account for passive conservation, unaccounted for water, climate change, and other factors. The model was used to forecast water demands in acre-feet per acre per year (af/ac/yr). Although this same process was used for the subject wastewater and recycled water forecasts, the model was modified to accommodate new data. Figure 2.1 presents the process used to develop the Demand Model. The blue boxes reflect developed for the 2015 study while the green reflect the use of interim land use data and development of new data for the current model.



Figure 2.1 Wastewater and Recycled Water Forecasting Process

Model Features Used for this Analysis

The Demand Model was used to calculate both future wastewater flows to the region's four WWTPs and potential new outdoor recycled water demands. The treatment facilities include RP-1, RP-4, RP-5, and Carbon Canyon Water Reclamation Facility (CCWRF), as located on Figure 2.2. The 2015 land use acreage inventories for future land uses were retained but different boundaries were used and unit demands were generated specifically for wastewater and recycled water. The land uses reflect what was planned by the seven cities through their general plan process as of 2015. Although the timing of the development of lands can differ than that anticipated by the City land use agencies in 2015, the decision was made to update the existing and future land use database in 2025 for the next model update and consider the available data as interim land uses.



Figure 2.2 Contracting Agencies and WWTP Tributary Boundaries

The LAFCO SOI boundaries for each Contracting Agency were provided by IEUA and used here to prevent overlapping jurisdictions and double counting of flows and demands. IEUA's GIS group provided both the SOI boundaries and WWTP sewersheds or tributary boundaries. The SOI boundaries allow for the calculation of wastewater and recycled water by Contracting Agency while the WWTP tributary boundaries allow for the calculation of wastewater flows for each WWTP. Used together they allow for the calculation of wastewater flows for each Contracting Agency by WWTP. The IEUA service area with its WWTP tributaries and Contracting Agency boundaries are shown on Figure 2.2.

Section 3 Determining Wastewater Flows

Land use based wastewater flow forecasting relies on the land use inventory in acres multiplied by the wastewater flow factors developed on a *gallons per day per acre* basis. Land use based wastewater flow factors can be challenging to identify because flows are not metered for each customer as they are for potable water service. Several master plans in the region were reviewed for applicability but most relied on factors passed along from previous studies while some were determined to be too specific to the uses being studied. For an example of the latter, flow factors developed for IEUA's pilot "Return to Sewer" study reflected existing uses in the City of Montclair which are too low for projecting future higher density developments. On the other end of the range, the City of Ontario developed flow factors from metered sewers but the results reflect new development that has a more intense use of non-residential lands, resulting in higher calculated flows than what represents the entire service area, in particular the industrial flow factors. The flow factors from relevant studies are presented in Table 3.1 along with the per capita method results from the analysis described below.

IEUA LU Categories	Ontario Draft WWMP Categories and Flow	P Land Use / Factors	CVWD Etiwanda Heights Study	Pilot "Return to Sewer" Study	Per Capita Method
Residential Very Low	RR-OMC	420	840	447	337
Residential Low	LDR-AVG OR & OMC	940	1,575	914	883
Residential Medium	LMDR-OR	2,300	1,860	1,571	1,843
Residential High	MDR-OMC	3,150	3,760	2,563	3,027
Residential Very High	HDR-OMC	6,125		4,811	4,331
Commercial	BP, GC, NC	1,610	1,700	454	1,200
Industrial	IND	1,060		700	700
Public/Institutional	Public Facility	1,450		335	850
Schools/Parks	8 gpd/student	532	1,000	532	532

Table 3.1 Comparison of Wastewater Flow Factors (gpd/acre)

Wastewater Land Use Inventory

Since the wastewater flow projections are for new development only, the 2015 GIS shapefiles of future land uses were used. IEUA GIS staff developed the acreage inventories by applying the Contracting Agency and WWTP boundary files to the land uses to calculate acres of each land use in 5 year increments.

Lands currently on septic systems (on-site wastewater treatment systems or OWTS) were excluded from the database unless the lands were planned for a change in land use designation. At the date of estimated development, these lands - to be converted to public sewers upon development or redevelopment - are added into the land use database. Lands not planned for development are assumed to remain on OWTS through 2040. The Etiwanda Heights development proposal was added to the land use database for Cucamonga Valley Water District at its request.

Table 3.2 presents the total acres of new development in the service area anticipated to contribute average dry weather flows to the sewer collection system during the 20 year planning period.

Land Use Categories	2025	2030	2035	2040
Residential Very Low (<1 – 2 du/ac ¹)	761	1,153	1,349	2,951
Residential Low (3 – 7 du/ac)	1,440	2,960	3,986	5,679
Residential Medium (8 – 14 du/ac)	458	925	1,162	2,314
Residential High (15 – 24 du/ac)	453	583	619	691
Residential Very High (25+ du/ac)	27	152	209	341
Commercial	247	1,061	1,522	2,173
Industrial	1,104	1,347	1,512	1,618
Public/Institutional	88	131	324	369
Parks, Schools	132	365	439	609
Total Cumulative New Growth	4,711	8,677	11,124	16,746

Table 3.2 New Development Acreages for Wastewater Flows

¹ dwelling units per acre

Per Capita Method Used for Flow Factors

Wastewater flow factors were developed using flows established on a per capita basis. According to IEUA, current residential flows in the service area are approximately 50 gallons per capita per day (gpcd). This was used for establishing a flow factor on a per acre basis for each of the land uses under 2020 conditions.

For residential land uses, new development residential wastewater unit flows were developed based on the number of dwelling units on average that reflect the densities of each land use category. This was determined by measuring new development density patterns in the service area. The average number of people per household of 3.46 for the region from State Department of Finance (DOF) data was applied to these average densities of new development¹. Residents per acre were calculated for each land use category and 50 gpcd applied to determine a flow factor in gallons per day per acre (gpd/ac).

For non-residential land uses, approximate numbers of employees per acre were identified for each city using DOF data with a range of employees per acre calculated. The higher end of the range was applied to commercial uses with its higher number of employees in retail and office spaces, as compared with public and institutional uses reflecting a lower density of employees per acre. The lower end of employees per acre was used for industrial land uses, with its manufacturing and warehousing being typical uses for the region. 50 gpcd was applied to the number of employees per acre for each land use to determine a flow factor in gpd/ac. Schools were an exception; they were calculated using the City of Ontario's estimate of eight gallons per day per student.

A reduced rate of 30 gpcd was applied to the resident and employee densities under the 2040 land uses. Between 2020 and 2040, the 50 gpcd was reduced equally in five year increments to 30 gpcd at year 2040. This reduction reflects that wastewater flows are not static, the region continues to make great strides in water use efficiency, and new development is anticipated to have even greater indoor efficiencies. The land use categories and residential densities are presented in Table 3.3 along with the resulting wastewater flow factors for 2020 and 2040.

¹ Ca Department of Finance Demographic Research Unit Report E-5 "Population and Housing Estimates for Cities, Counties, and the State January 1, 2020". People per household (pph) estimates for each city were averaged, resulting in 3.46 pph for the region.

Densities (du/ac)	2020 Flow Factors	2040 Flow Factors
Residential Very Low (<1-2)	337	202
Residential Low (3 - 7)	883	530
Residential Medium (8 - 14)	1,843	1,106
Residential High (15 - 24)	3,027	1,816
Residential Very High (25+)	4,331	2,599
Commercial	1,200	720
Industrial	700	420
Public/Institutional	850	510
Schools	532	319

Comparison with Existing Wastewater Flows

The flow factors were applied to the 2015 model's existing land use database to see how the calculated flows compared with existing flows. Flows in the westernmost area of Upland and Montclair which can flow to either CCWRF or RP-1 were proportioned between the two WWTPs. Applying the flow factors from Table 3.3 to the existing land use inventory resulted in a calculated flow that was 17 percent higher than 2020 actual flows. This is a reasonable variation as new development is being built at much greater densities than the older established land use patterns that make up the majority of lands in the over 240-acre service area. For comparison, the *Return to Sewer* study flow factors were applied to existing land uses with a closer estimate of approximately six percent higher flow than actual, reflective of the study's focus on existing uses. Ontario's flow factors, adjusted to reflect the 2015 study's land use designations that reflect the entire IEUA service area, were applied with an approximately 33 percent increase over actual flows.

Resulting Wastewater Flows

Applying the wastewater flow factors to the future land use acreage inventory results in projected dry weather wastewater flows of 10.7 million gallons per day (mgd) at 2040. Projected new flows are presented in Table 3.4 by wastewater treatment plant. To determine the total forecasted flows, the 2020 flows were added to the projected future flows. This results in a total 2040 dry weather wastewater flow of 59.9 mgd, as presented in Table 3.5. With actual 2020 flows of 49.2 mgd, this is a 22 percent increase in flows over 20 years.

Table 3.4 Future New Flows by Wastewater Treatment Plant						
	New Flows (gpd)					
	2025	2030	2035	2040		
RP1	1,164,202	1,573,983	1,888,190	1,794,027		
RP4	1,489,958	2,309,625	2,762,192	2,497,263		
RP5	1,732,819	3,357,251	3,438,461	5,872,997		
CCWRF	145,879	307,579	322,852	607,232		
Total	4,532,858	7,548,439	8,411,695	10,771,520		
¹ Flows that can go to either RP1 or CCWRF were distributed.						

		Total Projected Flows (gpd)			
	2020 Actual	2025	2030	2035	2040
RP1	23,491,685	24,655,887	25,065,668	25,379,875	25,285,712
RP4	9,339,146	10,829,104	11,648,771	12,101,338	11,836,409
RP5	8,460,502	10,193,321	11,817,753	11,898,963	14,333,499
CCWRF	7,881,736	8,027,615	8,189,315	8,204,588	8,488,968
Total	49,173,069	53,705,927	56,721,508	57,584,764	59,944,589

The increased flows projected for each Contracting Agency are presented in Table 3.6 and Figure 3.1. The City of Ontario has the greatest quantity anticipated due to the extensive new growth planned for in New Model Colony. Any declines in agency flows reflect the decrease in per capita interior water usage over time offsetting new growth. For example, Fontana's new growth was projected by the city to increase slightly after 2035 but the decrease projected in per capita interior water usage more than offset the increase in demands from new development.

Table 3.6 Future New Flows by Contracting Agency	

	New Flows (gpd)				
	2025	2030	2035	2040	
Chino	542,165	1,042,011	1,069,043	1,138,597	
Chino Hills	186,624	416,288	364,302	593,896	
CVWD	928,626	1,159,573	1,218,757	1,091,416	
Fontana	1,408,453	2,012,335	2,556,174	2,278,544	
Montclair	3,473	8,822	33,232	31,761	
Ontario	1,404,136	2,799,537	3,058,027	5,483,941	
Upland	59,382	109,874	112,160	153,366	
Total	4,532,858	7,548,439	8,411,695	10,771,520	



Figure 3.1 Future New Wastewater Flows by Contracting Agency

Section 4 Determining Recycled Water Demands

Land use based recycled water unit demands were developed to forecast direct use demands for recycled water for the irrigation needs of new developments. Land use based recycled water demand forecasting relies on the land use inventory in acres multiplied by the recycled water unit demands developed on an acre-feet per acre per year basis. Direct use demand refers to outdoor irrigation demands that can be met with recycled water non-potable water provided as an irrigation supply, not for indoor manufacturing or other demands. Most recycled water unit demands are identified in master plans either as commonly used factors based on previous studies or for specific users currently using potable water that may be converted to a recycled water supply where the potential users' demands are specific to their needs. These types of unit demands are not necessarily applicable to the IEUA service area's unique characteristics.

The demands are for the total potential demands, regardless of the availability or capacity of existing or planned infrastructure. They do not include demands for non-potable groundwater recharge or indoor manufacturing or sanitation demands. The recycled demands are not influenced by supply availability from the wastewater treatment plants.

Recycled Water Land Use Inventory

Since the recycled water projections are for new development only, the future land use data from the 2015 model were used for the acreage inventory. IEUA GIS staff developed the acreage inventories by applying the Contracting Agency boundary files to the land use shapefiles to calculate acres of each land use in 5 year increments.

Table 4.1 presents the total acres of new growth (e.g., changes in land use) in the service area anticipated in the 20 year planning period. The recycled water acreage inventory reflects a greater number of acres than the wastewater inventory because the lands currently on septic systems are not included in the wastewater inventory unless specifically planned for a change in land use in the future. The Etiwanda Heights development proposal was added to the land use database for Cucamonga Valley Water District at its request.

	Acreage Inventory (acres)				
Land Uses (du/ac)	2025	2030	2035	2040	
Residential Very Low (<1 - 2)	1,180	1,572	1,769	3,368	
Residential Low (3 - 7)	2,196	3,708	4,734	6,427	
Residential Medium (8 - 14)	880	1,347	1,584	2,737	
Residential High (15 - 24)	807	938	974	1,046	
Residential Very High (25+)	38	162	220	382	
Commercial	333	1,147	1,609	2,259	
Industrial	2,371	2,614	2,777	2,883	
Public/Institutional	120	164	358	403	
Parks, Schools, Irrigation	190	423	497	687	
Total Cumulative New Growth	8,116	12,074	14,521	20,191	

Table 4.1 New Growth Acreages by Land Use for Recycled Water Demands

Recycled Water Land Use Unit Demands

For this analysis, two approaches were used to develop unit demands for recycled water: actual data and calculated data. Actual billing data was used for a sample of existing recycled water customers. The samples were selected from billing data in Chino and Ontario when the customer's areal extent of the use of recycled water could be identified. Applying the actual annual billed consumption to the total gross acres of the specific users, the unit demands were calculated as an acre-foot per acre per year unit (af/ac/yr). Figure 4.1 provides an example of the gross acres of two recycled water irrigation customers. A year of billing data were then applied to the gross acres to determine a unit demand. The detail of the red sample area shows an example of landscaped areas irrigated with recycled water.



Figure 4.1 Example of Billing Data Sample Area

Because there were limitations on the use of billing data (e.g., difficult to determine if recycled water was used on front yards or the extent of the use on common areas, etc.) a second methodology was developed to calculate demands. Lands that had developed relatively recently were identified for each land use category. Uses and residential densities were determined for the sampled lands. For each sample, the gross acreage of the sample area was calculated. The amount of land with irrigated landscaping was then calculated as a percent of the gross acreage. An irrigation unit demand was applied just to the landscaped acreage to determine a unit demand for the gross area. The unit demand for irrigation of 2.63 af/ac/yr was developed by the City of Ontario based on local precipitation and evapotranspiration rates². These

² City of Ontario "Recycled Water Master Plan Update Draft", undated, provided 11/19/20. Used Open Space Recreational demand factor of 2,350 gal/ac/day.

data samples were then combined and averages determined. Figure 4.2 provides a visual example of a Residential Medium Density land use that uses recycled water in the common areas and front yards. Samples of new development were taken from throughout the IEUA service area.



Recycled water for streetscapes and yards

Figure 4.2 Landscaped Areas Calculated Per Gross Acre

There were several exceptions to the two methodologies. Very low density residential (less than 2 dwelling units per acre) land uses were calculated based on an estimate that one-third of a typical rural residential lot would be irrigated, likely in the front yard; actual use may be higher. Public and institutional recycled water demands were based on an estimated 30 percent of the gross acreage being irrigated. Table 4.2 presents the number of samples of the billing data methodology and the landscape calculated data methodology for each land use category.

-	-
Land Uses	Samples Averaged
Residential Very Low	Based on assumed 1/3 of 0.5 ac-ft yards
Residential Low	Avg of 7 landscape samples
Residential Medium	Avg of 8 landscape samples
Residential High	Avg of 1 billing accounts and 4 landscape samples
Residential Very High	Avg of 2 billing accounts and 1 landscape sample
Commercial	Avg of 3 landscape samples
Industrial	Avg of 11 billing accounts and 1 landscape sample
Public/Institutional	Based on estimated 30% of area landscaped
Parks, Schools, Irrigation	Average of 6 billing accounts for schools and parks

Table 4.2	Combined Billin	g Data and	Calculated	Irrigated Areas
	Complica Dimin	5 Dutu unu	culculated	In iguica Aicus

The billing data and calculated landscaping samples were averaged for each land use. The resulting recycled water unit demands are presented in Table 4.3.

2025 Recycled W	2025 Recycled Water Unit Demand		
Land Uses (du/ac)	(af/ac/yr)		
Residential Very Low (<1 - 2)	0.43		
Residential Low (3 - 7)	0.47		
Residential Medium (8 - 14)	0.51		
Residential High (15 - 24)	0.65		
Residential Very High (25+)	0.85		
Commercial	0.39		
Industrial	0.48		
Public/Institutional	0.79		
Parks, Schools, Irrigation	2.09		

Table 4.3 Recycled Water Land Use Unit Demands

Adjustment Factors

The recycled water demands were adjusted to reflect future conditions, as was done with the wastewater flow factors decreasing over time to reflect water use efficiencies. Adjustment factors for recycled water include adjustments for climate change impacts, passive conservation, and unbilled water estimates. The climate change impacts were determined for the IEUA Integrated Resources Program based on long term climate change assumptions by the National Oceanic and Atmospheric Administration. Three percent increase in demand by 2040 was used for this model.

Passive savings of 2.8 percent by 2040 associated with conservation savings was identified in the 2015 study. These savings were intended to reflect code changes and efficiency programs but perhaps more importantly for recycled water, the replacement of landscape materials with lower water use materials over time. Although grass is still a common material along streetscapes, low water use plants are becoming more common as a landscape material.

The third adjustment factor was to increase the unit demands to reflect total production requirements by accounting for system losses and other unbilled demands on the system. This is between the production source (WWTP) and the customer meter. Each Contracting Agency provided an unbilled water estimate for the 2015 study (Fontana Water District was used for the City of Fontana) ranging from two to nine percent of production. The unbilled water estimates were applied to the unit demands, thus resulting in unique unit demands for each Contracting Agency in the model.

Resulting Recycled Water Demands

Applying the recycled water unit demand to the future land use acreage inventory in the model results in a potential projected recycled direct use increase in demands of 11,577 acre-feet by year 2040. Adding the 2020 actual direct use sales of 16,278 acre-feet to the potential new demand results in 20,870 acre-feet at 2025 and 27,855 acre-feet at 2040. These results are presented in Table 4.4. Recycled water direct use demand potential was also calculated by Contracting Agency. The results are presented in Table 4.5

and Figure 4.3. Again, these are the total potential new direct use recycled water demands. Forecasted potential demand is not based on availability or capacity of infrastructure or agency interest.

		Recycled Water Potential (acre-feet)			
Source of Data	2020 ¹	2025	2030	2035	2040
Total IEUA Direct Use Sales	16,278				
New Growth Potential Demand		4,592	6,998	8,426	11,577
Total Potential Demand	tial Demand 20,870 23,276 24,704 27,855				

Table 4.4 Recycled Water Direct Use Demand Forecast

¹ 2020 sales were for fiscal year.

-	Bill	ed Poter	Potential Direct Use Demand (acre-feet)			
Contracting Agency	y 202	20 2025	2030	2035	2040	
Chino Total	4,7	95 5,498	5,780	5,961	6,178	
New Demands Only		704	985	1,166	1,384	
Chino Hills Total	1,4	17 1,858	2,047	2,047	2,626	
New Demands Only		441	630	630	1,209	
CVWD Total	1,0	38 2,032	2,288	2,513	2,674	
New Demands Only		995	1,250	1,475	1,636	
Fontana Total	21	1 994	1,392	1,911	2,000	
New Demands Only		784	1,182	1,701	1,789	
Montclair Total	29	8 359	363	396	398	
New Demands Only		61	65	98	101	
Ontario Total	7,8	17 9,188	10,383	10,814	12,820	
New Demands Only		1,372	2,566	2,997	5,003	
Upland Total	70	3 940	1,022	1,062	1,158	
New Demands Only		237	320	359	455	
	Total 16,2	78 20,870) 23,275	24,704	27,855	
New Demands Only		4,592	6,998	8,426	11,577	

Table 4.5 Recycled Water Potential Direct Use Demand by Contracting Agency



Figure 4.3 Total Potential Direct Use Recycled Water Demand Forecast by Contracting Agency

Section 5 Conclusions

This land use based methodology provides IEUA and its Contracting Agencies with a collaborative method of forecasting wastewater flows and recycled water demands that allows for transparency in the data and process. The method also allows for consistency with the potable water demand forecast.

Because the model is GIS based, it can provide data as needed for different boundaries and timeframes. This allows for flows and demands to be generated spatially by Contracting Agency and land use, and temporally in five year increments to 2040.

The future land uses reflect the general plan land use elements as of 2015 with the land use agencies providing the timing of development for the phasing of demands through 2040. The methodology relies on the use of community approved general plans and LAFCO approved boundaries so the forecasts reflect public input and California Environmental Quality Act documentation.

These are interim wastewater flows and recycled demands. When the model is updated in 2025, the focus will be on updating the existing and future land use maps. Because general plan maps reflect allowable development not existing development, the existing land use maps will need to be updated to reflect ten years of development. Regarding the future land use mapping, the general plan land use element for each city is allowed to be updated four times a year and several city general plans are anticipated to be completely updated by 2025. It will be important to capture the changes in planned land use for the next model update.



Introduction



Development of 2021 Wastewater and Recycled Water Demand Forecasts

2015 IEUA Urban Water Management Plan

- Agencies' land use acreage inventories based on development projections
- Land use-based water demand model creation [Model]

2019 Regional Contract Negotiations

• IEUA and Regional Contract Agencies agreed to adapt the Model for wastewater and recycled water forecasts

2021 Wastewater and Recycled Water Demand Forecasts

- Based on 2015 land use-based demand model
- Adapted for wastewater and recycled water projections

Wastewater Flow Forecast



Table 3.1 Comparison of Wastewater Flow Factors (gpd/acre)

IEUA LU Categories	Ontario Draft WWMP Land Use Categories and Flow Factors		CVWD Etiwanda Heights Study	Pilot "Return to Sewer" Study	Per Capita Method
Residential Very Low	RR-OMC	420	840	447	337
Residential Low	LDR-AVG OR & OMC	940	1,575	914	883
Residential Medium	LMDR-OR	2,300	1,860	1,571	1,843
Residential High	MDR-OMC	3,150	3,760	2,563	3,027
Residential Very High	HDR-OMC	6,125		4,811	4,331
Commercial	BP, GC, NC	1,610	1,700	454	1,200
Industrial	IND	1,060		700	700
Public/Institutional	Public Facility	1,450		335	850
Schools/Parks	8 gpd/student	532	1,000	532	532

Wastewater Flow Forecast

		New Flows (gpd)			
	2020 Actual	2025	2030	2035	2040
Chino		542,165	1,042,011	1,069,043	1,138,597
Chino Hills		186,624	416,288	364,302	593,896
CVWD		928,626	1,159,573	1,218,757	1,091,416
Fontana		1,408,453	2,012,335	2,556,174	2,278,544
Montclair		3,473	8,822	33,232	31,761
Ontario		1,404,136	2,799,537	3,058,027	5,483,941
Upland		59 <i>,</i> 382	109,874	112,160	153,366
Total		4,532,858	7,548,439	8,411,695	10,771,520
	49,173,069	53,705,927	56,721,508	57,584,764	59,944,589
In MGD	49.2	53.7	56.7	57.6	60.0

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Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT



Recycled Water Demand Forecast

Table 4.3 Recycled Water Land Use Unit Demands				
2025 Recycled W	2025 Recycled Water Unit Demand			
Land Uses (du/ac)	(af/ac/yr)			
Residential Very Low (<1 - 2)	0.43			
Residential Low (3 - 7)	0.47			
Residential Medium (8 - 14)	0.51			
Residential High (15 - 24)	0.65			
Residential Very High (25+)	0.85			
Commercial	0.39			
Industrial	0.48			
Public/Institutional	0.79			
Parks, Schools, Irrigation	2.09			

Recycled Water Demand Forecast

Table 4.5 Recycled water Potential Direct Use Demand by Contracting Agency							
	Billed	Potential Direct Use Demand (acre-feet)					
Contracting Agency	2020	2025	2030	2035	2040		
Chino Total	4,795	5,498	5,780	5,961	6,178		
New Demands Only		704	985	1,166	1,384		
Chino Hills Total	1,417	1,858	2,047	2,047	2,626		
New Demands Only		441	630	630	1,209		
CVWD Total	1,038	2,032	2,288	2,513	2,674		
New Demands Only		995	1,250	1,475	1,636		
Fontana Total	211	994	1,392	1,911	2,000		
New Demands Only		784	1,182	1,701	1,789		
Montclair Total	298	359	363	396	398		
New Demands Only		61	65	98	101		
Ontario Total	7,817	9,188	10,383	10,814	12,820		
New Demands Only		1,372	2,566	2,997	5,003		
Upland Total	703	940	1,022	1,062	1,158		
New Demands Only		237	320	359	455		
Tot	al 16,278	20,870	23,275	24,704	27,855		
New Demands Only		4,592	6,998	8,426	11,577		

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Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

Recommendation



It is recommended that the Regional Technical Committee approve using the 2021 Wastewater and Recycled Water Demand Forecast as the demand forecast model for the IEUA service area.

INFORMATION ITEM **2A**



Date: September 15, 2021To: The Honorable Board of Directors

Committee: Finance & Administration

میں From: Shivaji Deshmukh, General Manager 09/08/21

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

Subject: Fiscal Year 2020/21 Fourth Quarter Budget Variance, Performance Goal Updates, and Budget Transfers

Executive Summary:

The budget variance report presents the Agency's financial performance through the fourth quarter ended June 30, 2021 and various analyses are provided in the attachments.

The Agency's total revenues and other funding sources were \$296.1 million, or 84.7 percent of the fiscal year to date amended budget of \$349.5 million. The variance is primarily due to lower than budgeted loan receipts for the RP-5 Expansion and Recharge Master Plan Update (RMPU) projects.

The Agency's total expenses and other uses of funds were \$292.5 million, or 77.0 percent of the fiscal year to date amended budget of \$379.6 million. Lower than budgeted administrative and operating expenses and timing of capital project execution account for the favorable variance.

The net change of the unaudited total revenues and other funding sources over the total expenses and other uses of funds for the quarter ended June 30, 2021 is an estimated \$3.6 million.

Staff's Recommendation:

The Fiscal Year (FY) 2020/21 fourth quarter budget variance, performance goal updates, and budget transfers is an informational item for the Board of Directors to receive and file.

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

Fiscal Impact (explain if not budgeted):

The net change of the total revenues and other funding sources over total expenses and other uses of funds is an increase of \$3.6 million for the quarter ended June 30, 2021.
Environmental Determination: Not Applicable

Business Goal:

The quarterly budget variance report is consistent with the Agency's business goal of fiscal responsibility to demonstrate the Agency has appropriately funded operational, maintenance, and capital costs.

Attachments:

Attachment 1 - Background
Exhibit A - Q4 Budget Variance Summary and Detail Report
Exhibit B - Business Goals and Objectives Report by Initiatives
Exhibit C-1 - Summary of Annual Budget Transfers through the Fourth Quarter
Exhibit C-2 - Summary of the GM Contingency Account Activity
Exhibit D - Project Budget Transfers for Capital and Non-Capital Projects
Attachment 2 - Power Point

Board-Rec No.: 21196



Background

Subject: Fiscal Year 2020/21 Fourth Quarter Budget Variance, Performance Goal Updates, and Budget Transfers

The FY 2020/21 Fourth Quarter Budget Variance report continues to reflect the effects of the Agency's response to the Coronavirus (COVID-19) global pandemic. Facilities are fully operational and all non-essential support staff remain on a remote work status. Non-critical capital projects, maintenance, travel, and in person public events have been deferred.

The Budget Variance report presents the Agency's financial performance through the fourth quarter ended June 30, 2021 and includes the following highlights.

TOTAL REVENUES AND OTHER FUNDING SOURCES

Overall, the Agency's total revenue and other funding sources were \$296.1 million, or 84.7 percent of the fiscal year amended budget of \$349.5 million for the quarter ended June 30, 2021 (Exhibit A). The following section highlights key variances:

- *MWD Water Sales* Total Metropolitan Water District of Southern California (MWD) sale of pass-through imported water were \$45.6 million or 98.5 percent of the fiscal year-to-date amended budget. Imported water deliveries were 48,349 AF compared to the annual budget of 60,000 AF. Additional Dry Year Yield Conjunctive Use deliveries totaled 23,000 AF.
- *Connection Fees* Total connection fee receipts were \$42.4 million or 118.6 percent of the fiscal year to date amended budget. Receipts include \$36.7 million new regional wastewater system connections (EDU) and \$5.7 million new water connections (MEU). The number of new EDU connections reported through the fourth quarter were 5,274 EDUs compared to the annual budget of 4,000 EDUs. New MEU water connections were 3,785 compared to the 4,700 budgeted MEUs.
- **Property Taxes** Total property tax receipts of \$66.3 million reported a favorable variance of 22.9 percent above budget. Property taxes are comprised of general ad-valorem property tax receipts from the San Bernardino County Tax Assessor (County) of \$40.7 million and \$25.6 million of incremental "pass through" taxes, formerly known as redevelopment taxes, were received through the end of the fourth quarter.
- Grants & Loans Total receipts through the fourth quarter were \$20.2 million, or 21.5 percent of the fiscal year to date budget. Grant receipts for various recycled water program projects were \$10.7 million including \$8.3 million of one-time principal forgiveness for the Napa Lateral, San Sevaine, and Recycled Water Baseline Extension projects. Other grant receipts include \$8.3 million for the TCE Plume Cleanup project, and \$1.1 million for Recharge Master Plan Update (RMPU) projects in the Recharge Water program and water conservation projects in the Water Resources program. SRF loan receipts totaled

\$0.1 million. Grant and loan receipts are primarily reimbursable in nature and are dependent upon related capital project expenditures. Due to the COVID-19 pandemic, capital project activities have remained below the levels planned at the beginning of the fiscal year.

• **Project Reimbursements and Other Revenue** – Total project reimbursements and other revenues were \$3.7 million, or 88.8 percent of the fiscal year to date amended budget. Actuals include \$1.5 million one-time receipt from Monte Vista Water District (MVWD) for capacity rights and wastewater discharge permits to use 7 capacity units for the Etiwanda Wastewater Line (EWL), \$0.6 million from Chino Basin Waster Master(CBWM) for their share of the 2008B Rate Variable bond debt service and fixed project costs, \$0.3 million of miscellaneous revenues for Non-Reclaimable Wastewater leased capacity units, and \$1.3 gain on investments, other fees, and miscellaneous reimbursements.

TOTAL EXPENSES AND USES OF FUND

The Agency's total fourth quarter expense and uses of funds were \$292.5 million, or 77.0 percent of the \$379.6 million fiscal year amended budget. Key expense variances include:

Administrative and Operating Expenses

- Office and Administration Office and administrative expense for the fourth quarter was \$1.1 million or 37.6 percent of the fiscal year to date amended budget. The favorable variance was primarily due to the continued deferral of all travel, conferences, and in person public outreach events due to the COVID-19 pandemic. Other expense such as office supplies, printing, and copying were lower than budgeted due to the remote work environment for all non-essential support staff.
- **Professional Fees & Services** Total expenses were \$7.9 million, or 57.5 percent of the fiscal year to date amended budget. The positive variance is primarily due to the continued deferral of non-critical contract labor and materials. As public health restrictions remained in effect for most of the fiscal year, contractor and consultant support budgets were not utilized as planned for operational response plans, energy storage projects, air quality source testing, repairs, and calibration of critical compliance equipment.
- *O&M (Non-capital) and Reimbursable Projects* O&M and reimbursable project costs were \$10.5 million or 42.9 percent of the fiscal year to date amended budget. The favorable budget is mainly due to deferral of non-critical projects, delays, and decreased spending on planning documents, various fund emergency projects, and conservation projects.
- **Operating Fees** Spending in this category was \$11.2 million, or 87.5 percent of the amended budget. A major part of this category are the "pass-through" fees from Los Angeles County Sanitation District (LACSD) and Santa Ana Watershed Project Authority (SAWPA) for the Agency's non-reclaimable wastewater system (NRWS).

• *MWD Water Purchases* – Total Metropolitan Water District of Southern California (MWD) purchase of pass-through imported water were \$45.6 million or 98.5 percent of the fiscal year to date amended budget. Imported Tier 1 untreated water deliveries were 48,349 AF, an additional 23,000 AF of Dry Year Yield Conjunctive Use was delivered for a total of 71,349 AF.

Non-Operating Expenses

- *Capital Projects* Total capital project expenditures year to date were \$111.0 million or 63.2 percent of the fiscal year to date amended budget. The favorable variance can be attributed to material procurement and contract award delays due to the COVID-19 pandemic, project scope and design delays and adjustments, and regulatory permit requirements. Capital project budget related to the Regional Wastewater program is \$139.3 million, or 79 percent of the \$175.6 million of the annual amended budget. Recycled Water program capital project budget accounts for \$5.2 million, or 3.0 percent of the annual amended budget.
- *Financial Expenses* Fourth quarter expense totaled \$30.4 million or 118.7 percent of the fiscal year to date amended budget. Actual expense includes \$16.4 million of principal payments for the 2017A Revenue and 2020A Refunding Revenue bonds, and various SRF Loans, and total interest and financial administration fees of \$14.0 million.

A detailed explanation of significant revenues and expenses are included in the attached Exhibit A.

FUND BALANCES AND RESERVES

The estimated net change of the total revenues and other funding sources over the total expenses and other uses of funds for the fourth quarter is an increase of \$3.6 million.

Table 1 provides an overview of the fiscal year to date budget variance for revenues, expenses, and net change to overall fund balance.

Operating	FY 2020/21 Amended Budget	Actual	% Amended Budget Used
Operating Revenue	\$161.6	\$163.5	101.2%
Operating Expense	(\$178.0)	(\$150.7)	84.6%
Net Operating Increase/(Decrease)	(\$16.4)	\$12.8	

Table 1: Fiscal Year and Year to Date (YTD) Revenues, Expenses, and Fund Balance (\$ Millions) Quarter Ended June 30, 2021

Non- Operating		l	
Non-Operating Revenue	\$187.9	\$132.6	70.6%
Non-Operating Expense	(\$201.6)	(\$141.8)	70.3%
Net Non-Operating Incr./(Decrease)	(\$13.7)	(\$9.2)	
Total Sources of Funds	\$349.5	\$296.1	84.7%
Total Uses of Funds	(\$379.6)	(\$292.5)	77.0%
Total Net Increase/(Decrease)	(\$30.1)	\$3.6	

+/- difference due to rounding

GOALS AND OBJECTIVES

Exhibit B provides information on division and related department goals and objectives and the status through the end of the fourth quarter. The key performance indicators (KPIs) are used to track the volume and complexity of work by type and to track the effort invested to accomplish that work. Staff use KPIs to track productivity and to justify current resource allocations, reallocation, and requests for additional staff.

BUDGET TRANSFERS AND AMENDMENTS

Intra-fund O&M budget transfers of \$860,625 were recorded through the fourth quarter as detailed in Exhibit C-1.

General Manager (GM) Contingency Account of the \$300,000 adopted budget in the Administrative Services Fund, \$44,645 of funds were utilized through the fourth quarter as detailed in Exhibit C-2.

Inter-fund Capital and O&M project budget transfers accounted for \$1,652,735 as listed in Exhibit D.

The budget variance analysis report is consistent with the Agency's business goal of fiscal responsibility: to demonstrate the Agency appropriately funded operational, maintenance, and capital costs.

IMPACT ON BUDGET

For quarter ended June 30, 2021, total revenues and other funding sources exceeded total expenses and other uses of funds by \$3.6 million.

INLAND EMPIRE UTILITIES AGENCY Fiscal Year 2020/21 CONSOLIDATED BUDGET VARIANCE ANALYSIS REPORT Quarter Ended June 30, 2021

	Amended Budget	Budget YTD	Actual YTD	Variance YTD	% Budget YTD Used	% Annual Budget Used
-	5				-	
OPERATING REVENUES						
User Charges	\$88,233,485	\$88,233,485	\$88,760,179	\$526,693	100.6%	100.6%
Recycled Water	16,155,000	16,155,000	19,223,412	3,068,412	119.0%	119.0%
MWD Water Sales	46,236,000	46,236,000	45,561,349	(674,651)	98.5%	98.5%
Cost Reimbursement from JPA	7,057,798	7,057,798	6,794,028	(263,771)	96.3%	96.3%
Interest Revenue	3,928,685	3,928,685	3,212,054	(716,631)	81.8%	81.8%
TOTAL OPERATING REVENUES	\$161,610,968	\$161,610,968	\$163,551,021	\$1,940,052	101.2%	101.2%
NON-OPERATING REVENUES						
Property Tax	\$53,934,900	\$53,934,900	\$66,274,703	\$12,339,803	122.9%	122.9%
Connection Fees	35,734,799	35,734,799	42,390,552	6,655,753	118.6%	118.6%
Grants	14,412,372	14,412,372	20,105,671	5,693,299	139.5%	139.5%
SRF Loan Proceeds	79,646,848	79,646,848	93,419	(79,553,429)	0.1%	0.1%
Project Reimbursements	3,050,651	3,050,651	622,101	(2,428,550)	20.4%	20.4%
Other Revenue	1,148,100	1,148,100	3,108,348	1,960,248	270.7%	270.7%
TOTAL NON OPERATING REVENUES	\$187,927,670	\$187,927,670	\$132,594,794	(\$55,332,876)	70.6%	70.6%
TOTAL REVENUES	\$349,538,638	\$349,538,638	\$296,145,815	(\$53,392,824)	84.7%	84.7%
ADMINISTRATIVE and OPERATING EXPENSES						
EMPLOYMENT EXPENSES						
Wages	\$27,477,731	\$27,477,731	\$29,977,605	(\$2,499,874)	109.1%	109.1%
Benefits	24,771,301	24,771,301	21,166,164	3,605,139	85.4%	85.4%
TOTAL EMPLOYMENT EXPENSES	\$52,249,032	\$52,249,032	\$51,143,768	\$1,105,265	97.9%	97.9%
ADMINISTRATIVE EXPENSES						
Office & Administrative	\$2,912,879	\$2,912,879	\$1,094,312	\$1,818,567	37.6%	37.6%
Insurance Expenses	1,048,795	1,048,795	948,775	100,020	90.5%	90.5%
Professional Fees & Services	13,829,574	13,829,574	7,952,464	5,877,110	57.5%	57.5%
O&M Projects	24,063,169	24,063,169	\$10,443,790	13,619,378	43.4%	43.4%
Reimbursable Projects	328,583	328,583	\$17,134	311,449	5.2%	5.2%
TOTAL ADMINISTRATIVE EXPENSES	\$42,182,999	\$42,182,999	\$20,456,475	\$21,726,524	48.5%	48.5%

INLAND EMPIRE UTILITIES AGENCY Fiscal Year 2020/21 CONSOLIDATED BUDGET VARIANCE ANALYSIS REPORT Quarter Ended June 30, 2021

					% Budget	% Annual
	Amended Budget	Budget YTD	Actual YTD	Variance YTD	YTD Used	Budget Used
OPERATING EXPENSES						
Material & Supplies/Leases	\$3,451,697	\$3,451,697	\$2,789,507	\$662,190	80.8%	80.8%
Biosolids Recycling	4,848,962	4,848,962	4,630,756	218,206	95.5%	95.5%
Chemicals	5,999,747	5,999,747	5,527,042	472,705	92.1%	92.1%
MWD Water Purchases	46,236,000	46,236,000	45,561,349	674,651	98.5%	98.5%
Operating Fees/RTS Fees/Exp. Alloc.	12,791,404	12,791,404	11,197,507	1,593,897	87.5%	87.5%
Utilities	10,273,925	10,273,925	9,374,199	899,725	91.2%	91.2%
TOTAL OPERATING EXPENSES	\$83,601,736	\$83,601,736	\$79,080,361	\$4,521,374	94.6%	94.6%
TOTAL ADMINISTRATIVE and OPERATING EXPENSES	\$178,033,767	\$178,033,767	\$150,680,604	\$27,353,163	84.6%	84.6%
NON-OPERATING EXPENSES						
CAPITAL OUTLAY	\$175,641,167	\$175,641,167	\$111,008,957	\$64,632,210	63.2%	63.2%
FINANCIAL EXPENSES Principal, Interest, and Financial Expenditures	25,610,574	25,610,574	30,390,437	(4,779,863)	118.7%	118.7%
OTHER NON-OPERATING EXPENSES	344,052	344,052	383,949	(39,897)	111.6%	111.6%
TOTAL NON-OPERATING EXPENSES	\$201,595,793	\$201,595,793	\$141,783,344	\$59,812,450	70.3%	70.3%
TOTAL EXPENSES	\$379,629,560	\$379,629,560	\$292,463,948	\$87,165,613	77.0%	77.0%
REVENUES IN EXCESS/	(#20.000.000)	(\$22,000,000)	#0.004.000	\$00.770.700		
(UNDER) EXPENSES =	(\$30,090,922)	(\$30,090,922)	\$3,681,866	\$33,772,789		
rotais may not add up due to rounding						

-



I. Actual vs. Budget Summary:

Quarter Ended June 30, 2021

	Amended Budget	Budget Year to Date (YTD)	Actual Year to Date (YTD)	Budget YTD vs. Actual	% of Budget Used YTD
Operating Revenues	161,610,968	161,610,968	163,551,021	1,940,053	101.2%
Non-Operating (Other Sources of Fund)	187,927,670	187,927,670	132,594,794	(55,332,876)	70.6%
TOTAL FUNDING SOURCES	349,538,638	349,538,638	296,145,815	(53,392,823)	84.7%
Administrative & Operating Expense	(178,033,767)	(178,033,767)	(150,680,604)	27,353,163	84.6%
Capital Improvement Project Expense	(175,641,167)	(175,641,167)	(111,008,957)	64,632,210	63.2%
Debt Service and All Other Expenses	(25,954,626)	(25,954,626)	(30,774,387)	(4,819,761)	118.6%
TOTAL USES OF FUNDS	(379,629,560)	(379,629,560)	(292,463,948)	87,165,612	77.0%
Surplus/(Deficit)	(30,090,922)	(30,090,922)	3,681,867	33,772,789	



2. Actual Revenue vs. Budget:

Quarter Ended June 30, 2021

		Amended Budget	Budget Year to Date (YTD)	Actual Year to Date (YTD)	Budget YTD vs. Actual	% of Budget Used YTD
Operating Revenues:						
User Charges		88,233,485	88,233,485	88,760,179	526,694	100.6%
Recycled Water Sales		16,155,000	16,155,000	19,223,412	3,068,412	119.0%
MWD Water Sales		46,236,000	46,236,000	45,561,349	(674,651)	98.5%
Cost Reimbursement		7,057,798	7,057,798	6,794,028	(263,770)	96.3%
Interest		3,928,685	3,928,685	3,212,054	(716,631)	81.8%
OPERATING REVENUES		161,610,968	161,610,968	163,551,022	1,940,054	101.2%
Non-Operating Revenues:						
Property Tax - Debt, Ca	pital, Reserves	53,934,900	53,934,900	66,274,703	12,339,803	122.9%
Connection Fees		35,734,799	35,734,799	42,390,552	6,655,753	118.6%
Grants & Loans		94,059,220	94,059,220	20,199,090	(73,860,130)	21.5%
Other Revenue		4,198,751	4,198,751	3,730,448	(468,303)	88.8%
NON-OPERATING REVENUE	ES	187,927,670	187,927,670	132,594,793	(55,332,877)	70.6%
Total Revenues		349,538,638	349,538,638	296,145,815	(53,392,823)	84.7%
	equivalent dwelling u system for disposal or potable water connect Metropolitan Water D	inits (EDU), \$9.9 million non-re f non-reclaimable and industria ctions and Readiness-to-Serve District (MWD).	eclaimable wastewater fees p al wastewater; and \$7.5 mill Ten Year Rolling Average (RT	oaid by industrial and con ion of monthly meter equ 'S TYRA) charges to meet	nmercial users connected iivalent unit charges (MEL our Readiness-to-Serve c	I to the brine line J) imposed on all abligation to
Property Tax/ AdValorem, 122.9%	Property tax receipts Tax Assessor were \$4 are budgeted based of dissolution of the red	through the fourth quarter to 0.7 million and former redevel on valuation projected by the o levelopment agencies.	taled \$66.3 million. General opment agencies (RDA) pass- county, increased home sales	ad-valorem property tax -through tax was \$25.6 m s, and anticipated adjustr	receipts from the San Be illion through June. Prop nents in property tax dist	rnardino County erty tax receipts ribution due to the
Recycled Water Sales, 119%	Recycled water direct for a combined total Recharge). Demand and basin availability	t sales were \$9.8 million for 1 of \$19.2 million for 35,787 AF. for direct use and groundwate	9,534 acre feet (AF) and grou Total deliveries budgeted fo r recharge varies depending	undwater recharge sales v or the fiscal year were 31 on weather patterns, wat	vere \$9.4 million for 16,2 ,900 AF (19,000 AF Direc er use conservation effor	53 acre feet (AF), t and 12,900 AF rts, reuse supply,
Interest Income, 81.8%	Interest Income was s required for daily ope FY 2020/21 is 2.50% b	\$3.2 million or 81.8 percent of erations. The Agency's average pased on the Agency's overall fi	the year to date budget. The investment portfolio yield found balance which is higher t	ne Agency earns interest or June 2021 was 1.23%. than the agency's investm	income by investing funds The budgeted interest rat ent portfolio.	s not immediately te assumption for
MWD Water Sales, 98.5%	Total Metropolitan W to date budget. Impo demands can be attri	ater District of Southern Califo rted water deliveries were 48, buted to warmer weather and	ornia (MWD) pass-through im 349 AF, additional conjuncti low precipitation throughou	ported water revenue wa ve use deliveries were 23 t the fiscal year.	s \$45.6 million or 98.5 pe ,000 acre feet. Higher im	ercent of the year aported water
Connection Fees, 118.6%	Total connection fee wastewater system co connections were rep units (MEU) were coll	receipts were \$42.4 million or onnections and \$5.7 million for ported through the fourth quar ected through the fourth quar	118.6 percent of the year to r new water connections. A t ter compared to the annual ter.	o date budget. Receipts in otal of 5,274 new equival budget of 4,000 new conr	nclude \$36.7 million for n lent dwellings unit (EDU) nections. A total of 3,785	ew regional wastewater meter equivalent
Grants and Loans, 21.5%	Grant receipts of \$20 loan receipts receive grant revenues. Gran projects, \$2.4 millior million for Recharge program.	.1 million and loan receipts of d were for the Recycled Water t receipts included \$8.3 millio n for the Recycled Water Pump Master Plan Update (RMPU) pro	\$0.1 million for a combined r program and are net of \$10 n principal forgiveness for th Station and Pipeline Bottler bjects in the Recharge Water	total of \$20.2 million we 6 million of principal for ne Napa Lateral, San Seva neck projects, \$8.3 million program and water cons	re received through the f giveness and other proce- ine, and Baseline Recycle n for the Plume cleanup p ervation projects in the V	ourth quarter. SRF eds reclassified to ed Water Extension project, \$1.1 Water Resources
Cost Reimbursements JPA, 96.3%	Total cost reimburser Regional Composting IERCA Composter and groundwater recharg	nents were \$6.8 million or 96. Authority (IERCA) and \$1.3 mi I CDA Desalter facilities respec e basins, net of the Agency's p	3 percent of the amended bu llion from Chino Basin Desalt tively. Also included is \$1.3 ro-rata share for the recycle	udget. Reimbursements i er Authority (CDA) for the million for operations & r d water recharge costs.	nclude \$4.2 million from e Agency's operation & m naintenance costs related	the Inland Empire aintenance of the d to the
Other Revenues, 88.8%	Total other revenues time receipt from Mo Wastewater Line (EW project costs, \$0.3 m fees, and miscellaneous	and project reimbursements v inte Vista Water District (MVWI L), \$0.6 million from Chino Ba illion of miscellaneous revenue bus reimbursements.	vere \$3.7 million, or 88.6 per D) for capacity rights and wa sin Waster Master(CBWM) for es for Non-Reclaimable Waste	rcent of the year to date stewater discharge perm their share of the 2008B ewater leased capacity u	budget. Actuals include s its to use 7 capacity units Rate Variable bond debt nits, and \$1.3 gain on inve	\$1.5 million one- s for the Etiwanda service and fixed estments, other

3. Actual Operating and Capital Expense vs. Budget:

Quarter Ended June 30, 2021

		Amended Budget	Budget Year to Date (YTD)	Actual Year to Date (YTD)	Budget YTD vs. Actual	% of Budget Used YTD		
Operating Expenses:								
Employment		52,249,032	52,249,032	51,143,768	1,105,264	97.9%		
Admin & Operating		79,548,735	79,548,735	53,975,487	25,573,248	67.9%		
MWD Water Purchases		46,236,000	46,236,000	45,561,349	674,651	98.5%		
OPERATING EXPENSES		178,033,767	178,033,767	150,680,604	27,353,163	84.6%		
Non-Operating Expenses	:			•				
Capital		175,641,167	175,641,167	111,008,957	64,632,209	63.2%		
Debt Service and All Of	ther Expenses	25,954,626	25,954,626	30,774,386	(4,819,760)	118.6%		
NON-OPERATING EXPENS	SES	201,595,793	201,595,793	141,783,343	59,812,449	70.3%		
Total Expenses		379,629,560	379,629,560	292,463,947	87,165,612	77.0%		
Employment Expenses net of allocation to projects Administrative & Operating Expenses	379,629,560379,629,560292,463,94787,165,61277.0%Employment, 97.9%Employment expenses were 551.1 million or 97.9 percent of the annual budget. At the end of the fourth quarter, a total of 266 regular positions. Recruitment of key positions as part of the Agency's succession planning effort is expected to lower the vacancy factor going forward. The budget and actual expenses include 57.3 million payment toward unfunded retirement liabilities.Office and Administrative, 37.6%Total expenses include 57.3 million payment toward unfunded retirement liabilities.Office and Administrative, 37.6%Total expenses include yudget, advertising, and sponsorships remained budget. Travel, training, meeting expense, office supplies, obsolete inventory budget, advertising, and sponsorships remained budget. The variance is primarily due to the continued deferral of non-critic contract labor and materials. As public health restrictions remained in effect for the majority of the fiscal year, contractor and consultant sponso budgets were not utilized as planned for operational response plans, energy storage projects, air quality source testing, repairs, and calibration or critical compliance equipment. Other professional services such as audit and consultaning fees of the ongoing nate studies are expected to be incurred in the following fiscal year.Protosiolis Recycling, 95.5%Biosolids expenses through the of the fourth quarter were 52.6 million or 90.8 percent of year to date budget. COVID-19 related supply shortages and long lead times is due is supplies. Josepset control work and consultanting fees to the oparations related repairs. Promotional items and large equipment purchases were 646rred to following fiscal year.Biosolids expenses through the of the fourth quarter were 53.6 million or							
Financial Expenses	Financial Expense, 1 Total financial exper 2017A Revenue bond	1 18.7% Ises through the fourth quarte s and State Revolving Fund loa	r were \$30.4 million. Actual ns. Total interest and financi	l costs include \$16.4 mill ial administration fees we	ion of principal payment ere \$14.0 million.	s for the 2020A and		
Other Expenses	Other Expenses, 111 Total other expenses the Santa Ana Waters	1.6% ; were \$0.4 million or 111.6 pe shed Project Authority.	rcent of the amended budge Page 3	et. Major category expen	se includes the annual co	ontribution-in-aid to		

Capital Costs, 63.2%

Total capital project expenditures year to date were \$111.0 million or 63.2 percent of the year to date budget. The favorable variance can be attributed to material procurement and contract award delays as a result of the COVID-19 pandemic, project scope and design delays and adjustments, and regulatory permit requirements. Capital project budget related to the Regional Wastewater program is \$139.3 million, or 79 percent of the \$175.6 million of the annual program budget. Recycled Water program capital project budget accounts for \$5.2 million, or 3.0 percent of the annual program budget.

Summary of major capital and non-capital project expenses and status as of June 30, 2021

Capital Projects		Annual Budget	Actual YTD	% of Budget Used YTD
EN17110	RP-4 Process Improvements Regional water recycling plant No. 4 improvements to extend service result of a combination of the project being extended by several mo bids coming in lower than anticipated and as a result, expenditures v	15,000,000 e life of facilities and provide enhance nths due to longer than estimated lead vill be less than anticipated.	8,942,700 d operation flexibility. time on equipment an	59.6% This variance is a d also construction
EN17082	RP-1 Mechanical Restoration The project will replace all nine RAS pumps, five WAS pumps, four a ancillary piping in the RAS Buildings. The objective of the project evolving requirements, sustainably managed, and can accommodate anticipated to be received in FY 19/20, but was not received until FY optic cables required identification and relocation, this caused de bypassing. Major construction, installation of all mechanical equipr Small additions and programming work will be completed by end of fi	4,300,000 scum pumps, two motor control center t is to ensure the treatment facilities e changes in regional water use. The 7 20/21 as a result of the COVID pander days in scheduled electrical and contr ment, and the end of pump bypassing irst quarter 2021/22.	6,399,088 rs, five variable freque are well maintained, majority of the equipm nic. Unexpected issues ol activities resulting was completed by the	148.8% ncy drives, and all upgraded to meet nent was originally with existing fiber in extended pump end of June 2021.
EN19006	RP-5 Solids Handling Facility The relocation of the RP-2 Solids Treatment Facility to RP-5 is require (USACE) property, which is located in a future flood plain upon com the thickening building, acid phase digester, gas phase digesters and completion. Began forming and reinforcing walls of the acid phase of for warehouse 1 and 2 were in progress as of fiscal year end.	55,345,979 ired due to the facility being located of pletion of USACE project to raise the F d building, and dewatering facility and digesters. Excavation, subgrade install	32,233,764 on United States Army Prado Dam Spillway. Fo truck loading areas ar ation, underground pip	58.2% Corps of Engineers undation pours for e various phases of ing, and electrical
EN19001	RP-5 Expansion to 30 mgd Improvements at RP-5 are expected to increase the treatment capace approve in January. Excavation and shoring installation for the influ center buildings 4 and 9 is complete. Power center building 6 and the stations design will be finalized in 2022, associate agreements, bidding	31,711,330 tity of RP-5 from 15 to 22.5 MGD. W.M. ent pump station is continuing and ins ne blower building 2 installation of bloo ng, and construction will follow.	30,080,317 Lyles construction bas tallation of the block v ck walls is nearly comp	94.9% eline schedule was valls for the power lete. Offsite pump
EN20056	RSS Haven Avenue Repairs The project was awarded to Charlies King, Co. on April 21 for 210 c necessary submittals for review in anticipation of a bypass operation mid-August to November.	5,601,606 alendar days to complete the project. and traffic control for the duration of	253,437 As of today, the cont the re-lining project th	4.5% ractor is preparing lat is scheduled for
ዐ ቈ M & Reimbursable	Projects	Annual Budget	Actual YTD	% of Budget Used YTD
EN19024	Collection System Asset Management CDM Smith was awarded the contract to perform condition assessmer Systems. The contract includes an optimized planning system for fut service contract to implement additional condition assessment effort towards the collection system. In September 2020, the Board approve currently in pre-design, all field inspections are scheduled to comple completed one-year after the completion of the field assessment wor	3,186,350 hts of specified sewer lines and siphons ure cleaning, inspecting and replacing s is on critical sewer assets and optimize ed both the service contract and the au- ted with the second quarter of next fis rk.	745,088 within the Regional ar ewer assets. The incre the Agency's asset ma gmented project budg cal year. The optimiza	23.4% d Brine Sewer ase budget is part nagement plan et. The project is tion efforts will be
EN19023	Asset Management Plan As part of the Asset Management Program, this project will develop a implement the replacement and/or repair of critical assets. The prog experienced some minor delays due to personnel integration into Ass less than expected due to this delay. The project is now assigned wit of the new fiscal year.	1,179,842 and gather the condition of Agency asse gram development phase and asset cond set Mgt. group to manage these project th a full time project manager and will	145,713 ts in order to forecast, dition assessment for t s. The expenditures for be in pre-design stage	12.4% budget, and his project fourth quarter is in the first quarter
WR18005	Turf Removal Rebate This Project adds a \$1 per square-foot incentive to MWD's base-rate replace their existing, high water-use turf with climate appropriate a institutional sites. During the fourth quarter of FY 20/21, IEUA's WUE commercial, industrial, and institutional demographic. With an imper within the next 6-8 months.	515,805 rebate of \$2. This Project provides sup and water-wise plant materials for resic Turf Programs have experienced an in ending drought approaching, staff antic	399,652 plemental funding for dential, commercial, in creased customer inte ipates these funds will	77.5% customers who dustrial, and rest in the be exhausted

INITIATIVES	ASSET MANAGEMENT -	CAPITAL PROJECTS	CAREER DEVELOPMENT	AGENCY SECURITY	SAP TRAINING AND
	CMMS				ENHANCEMENTS
DIVISION					
AGENCY MANAGEMENT			Several staff members		
			offered by CSDA on		
			tonics including Records		
			Management and		
			Emergency		
			Preparedness, Staff		
			members continued to		
			cross-train to provide		
			support to multiple		
			Agency departments.		
HR	HR staff continue to		HR has increased its		HR developed a strategic
	contribute to the strategic		marketing of Percipio,		plan for FYs 2021/22 –
	planning of the Agency's		the Agency's Learning		22/23 that includes the
	human capital		and Development		following goal:
	management, including		platform.		Automate Human
	participation in staffing-				Resources processes to
	related forecasting related		HR staff have researched		create the efficiencies
	to the FY 2021/22 and FY		and recommended that		needed to support
	2022/23 biennial budget		IEUA participate as a		Agency staffing
	planning process.		signatory agency in IE		initiatives.
			Works, a regional		
	HR developed a strategic		collaboration to create		
	plan for FYS $2021/22 -$		career pathways within		
	22/23 that includes the		the inland Empire's		
	the Agency's Asset		industry		
	Management Commitment		industry.		
	into Human Resources				
	programs.				

GR/IAR	-	The newly formed IAR	
		, Dept members took a	
		"Strengths Finder" survey	
		and then subsequently	
		met to discuss how to	
		leverage our individual	
		strengths at the	
		workplace and also	
		appreciate the value of	
		incorporating the	
		strongths of others	
		strengths of others.	

INITIATIVES	ASSET MANAGEMENT -	CAPITAL PROJECTS	CAREER DEVELOPMENT	AGENCY SECURITY	SAP TRAINING AND
	CMMS				ENHANCEMENTS
DIVISION					
EXTERNAL AFFAIRS	External Affairs staff has	The Grants Department	External Affairs staff continue to	External Affairs staff	
AND POLICY	implemented the Defect	continues to pursue	take part in virtual training	has worked closely	
DEVELOPMENT	Elimination Task Force	Federal and State	opportunities focused on	with CAP and Facilities	
	recommendations in	funding to support the	outreach/campaign development,	Management to	
	regards to the wipes in	Agency's capital	website accessibility regulations,	identify the level of	
	the pipes issue by working	projects.	social media and records	security needed at the	
	closely with the		retention, virtual event	Chino Creek Wetlands	
	Collections team to	<u>GRANT:</u>	development, media relations,	and Educational Park	
	implement relevant	Awarded Funding:	etc.	as well as identifying	
	messaging while also	Cal Recycle \$397,639		safety messaging for	
	incorporating FOG			visitors.	
	messaging as well.	Illegal Disposal Site			
		Abatement Grant			
		Program			
		Project will install trash			
		clean-up devises in RP3,			
		Ely and Turner basins.			
		WIFIA LOAN:			
		Letter of Interest			
		Selected To Proceed to			
		Full Application			
		Process			
		Decienal Westernster			
		Regional Wastewater			
		System improvements Drogram Total Costs			
		clos Million			
		one of 55 projects in 20			
		states that FDA selected			
		to submit a full funding			
		annlication The			

	Program includes four		
	capital projects that will		
	implement		
	infrastructure upgrades		
	across IEUA's service		
	area, including the RP-5		
	Expansion, RP-1 Solids		
	Thickening CCWRF		
	Process Improvements		
	and Philadelphia Force		
	Main Improvements		
	Projects		

INITIATIVES	ASSET MANAGEMENT –	CAPITAL PROJECTS	CAREER DEVELOPMENT	AGENCY SECURITY	SAP TRAINING AND
	CMMS				ENHANCEMENTS
DIVISION					
TECHNICAL RESOURCES		Chino Basin Program –	SPAR Staff attends seminars and	SPAR Staff	SPAR Staff participated
		SPAR Staff is continuing	webinars hosted by the Agency,	participates in	in brown-bag seminars
		to work with	and Regulatory Agencies, and	monthly safety	presented by various
		stakeholders to identify	cross training within the	training videos. SPAR	Agency departments.
		regional priorities and	department. SPAR Staff regularly	Staff has regularly	SPAR staff has been
		craft the next water	interact with and develop	been sending emails	working diligently to
		resources program that	information for Agency	to IS before opening	QA/QC water purchase
		is needed within the	management, IEUA Board,	any suspicious links to	data to upload in the Bi
		IEUA service area and	contracting agency policy	verify if they are	Launch pad.
		will then determine if	members. SPAR Staff also actively	phishing attempts.	
		the program still	participate in industry-wide		
		qualifies for the WSIP	discussions about water resource		
		funding.	management, development, and		
			trends (PPIC, ACWA, SCAP, CASA,		
		As part of the	Water Reuse Association, Pacific		
		Engineering and	Institute, etc.)		
		Construction			
		Management	RM Staff continue to train Agency		
		Department's goal of	employees including management		
		providing high quality	staff on the use, processes, and		
		project management	elements of the Laserfiche system.		
		for the completion of	Total number of employees		
		Capital Improvement	trained so far is 55.		
		Projects the	RM will restart the New Hire		
		Department's KPIs are	Training for records management		
		as follows:	in the next quarter.		
			RM staff continue to attend		
		3rd Quarter Capital	webinars and training on Records		
		Spending was 56% (the	Management best practices.		
		amount we project as a			
		department to spend			
		this FY against our FY			

Budget (Actual vs FY Projection)	Staff Mentoring:	
 3rd Quarter Actual Expenditures as a percentage of our forecasted expenditures was 68% (How accurate the department is with our capital call projections each quarter). 3rd Quarter Design Scope Amendment ratio was 29.30% 2nd Quarter Change Order ratio was 6.13% (this excludes the RP5 Expansion) 2nd Quarter Project Costs within 110% of Total Project Budget Established in the Project Charter was 77.78%. 14 of 18 projects that had a Notice of Completion met the goal. 	The Engineering Department continues to meet with Intern staff to provide ongoing career development topics for discussion. The current effort is to continue to review and discuss the book Crucial Conversation by Patterson, Grenny, McMillan, and Switzer. Unfortunately, due to limited attendance and scheduling conflicts during 3 rd quarter, staff was not able to finish the book discussion. The plan is to finish the discussion during the 3 rd quarter. 3 site visits (RP-1 Liquids, RP-1 Solids, and RP-5) were conducted with the assistant and associate engineers to review facility process, equipment operations, and opportunities to improve designs. RP-5 Expansion site tours were conducted for Agency staff during the month of March.	
	Budget (Actual vs FY Projection).3rd Quarter Actual Expenditures as a percentage of our forecasted expenditures was 68% (How accurate the department is with our capital call projections each quarter).3rd Quarter Design Scope Amendment ratio was 29.30%2nd Quarter Change Order ratio was 6.13% (this excludes the RP5 Expansion)2nd Quarter Project Costs within 110% of Total Project Budget Established in the Project Charter was 77.78%. 14 of 18 projects that had a Notice of Completion met the goal.	Budget (Actual vs FY Projection).Staff Mentoring:3rd Quarter Actual Expenditures as a percentage of our forecasted expenditures was 68% (How accurate the department is with our capital call projections each quarter).The Engineering Department continues to meet with Intern staff to provide ongoing career development topics for discussion. The current effort is to continue to review and discuss the book Crucial Conversation by Patterson, Grenny, McMillan, and Switzer. Unfortunately, due to limited attendance and scheduling cope Amendment ratio was 29.30%2nd Quarter Change Order ratio was 6.13% (this excludes the RP5 Expansion)2nd Quarter Change Order ratio was 6.13% (this excludes the RP5 Expansion)2nd Quarter Project Costs within 110% of Total Project Budget Established in the assistant and associate engineers to rroject charter was 77.78%. 14 of 18 projects that had a Notice of Completion met the goal.3 site visits (and RP-1 solids, and RP-5) were conducted for Agency staff during the month of March.

RP-5 Expansion	Lessons Learned:	
Project:		
Project: At the end of March 15.8% of the contract time has expired and 4.5% of the work is complete, \$14.9M of \$330M.	The Engineering and Construction Management Department did not conduct any Lessons Learned during 3 rd quarter. However, the Department has 1 planned for lune. The Jonized Lab Project	
the major areas of	will be presented	
which work occurred	will be presented.	
for this quarter.		
Baseline schedule		
approved.		
Influent Pump		
Station: Installed		
beams for		
excavation shoring		
Power Center 9:		
Excavated area,		
and noured		
concrete footings		
and trenches.		
Fine Screens:		
Excavated area and		
installed subgrade		
Primary Clarifiers		
(New): Installed		
beams for		
excavation shoring		
Aeration Basin: For		
channels expansions on East		
expansions on Edst		
and West sides		

	excavated, installed
	subgrade, poured
	most of the
	foundation slabs,
	started wall
	reinforcing.
	Power Center 6 &
	New Blower
	Building: Excavated
	area, installed
	subgrade, and
	poured concrete
	footings.
	RAS Vault:
	Excavated area and
	installed subgrade
	• MBR Phase 1:
	Finished demolition
	of Secondary
	Clarifier 4B.
	Excavated area, and
	installed subgrade.
	• Power Center 4:
	Excavated area
	installed subgrade
	poured concrete
	footings and
	trenches and first
	lift of block walls
	Eood Waste
	Receiving:
	Evcavated area and
ļ	installed subgrade
ļ	Thickening Building:
ļ	Fireward area and
	installed subgrade

 Acid Phase Digester & Building: Excavated area, installed subgrade, started installing formwork for the 	 Acid Phase Digester & Building: Excavated area, installed subgrade, started installing formwork for the foundation. Gas Phase Digesters & Building: Excavated area, installed subgrade, installed subgrade, installed drain piping, poured center drainage station slab on grade and walls, installed building drain lines. Dewatering:
 Gas Phase Digesters & Building: Excavated area, installed subgrade, installed drain piping, poured center drainage station slab on grade and walls, installed building drain lines. Dewatering: Excavated area 	Excavated area • Boiler Building & Gas Treatment: Excavated area

INITIATIVES	ASSET MANAGEMENT -	CAPITAL PROJECTS	CAREER DEVELOPMENT	AGENCY SECURITY	SAP TRAINING AND
	CMMS				ENHANCEMENTS
DIVISION					
FINANCE &			Staff attended several	Additional cameras were	Working with Records
ADMINISTRATION			webinars related to	upgraded at Agency	Management and BIS
			procurement strategy	facilities.	teams, Accounting Staff
			and development.	Safety staff completed	completed testing to
				several inspections in	facilitate the launch of
				cooperation with San	electronic forms using
				Bernardino County	Laserfiche: Wellness
				Hazmat Division for the	Reimbursement and
				Agency's Business Plans,	Safety Shoes
				reviewing CUPA and	
				chemical labeling and	Accounts Payable Staff, in
				storage.	conjunction with BIS
				Agency Safety worked	team, remained active
				directly with our COVID	participants and
				safety consultant to	contributors in the
				conduct Risk	ongoing testing of the
				Assessments of both	Laserfiche form: Check
				Agency Headquarter	Requests for IEUA and
				buildings as well as the	the IERCA.
				Lab.	
					Working with the BIS
					team, Accounts
					Receivable staff
					remained active
					participants and
					contributors in the
					ongoing testing of the
					redesigned script for
					entering strength charges
					into the Accounts
					Receivable module and
					automatic generation of

			the monthly billing
			invoices.
			The Payroll staff assisted
			the BIS in testing and
			successful completion
			the comi annual neurol
			the semi-annual payron
			updates to maintain
			compliance to current
			regulations and IRS rules.

	ASSET MANAGEMENT –	CAPITAL PROJECTS	CAREER DEVELOPMENT	AGENCY SECURITY	SAP TRAINING AND
INITIATIVES	CMMS				ENHANCEMENTS
DIVISION					
OPERATIONS	(O&M) Staff remained	RP-1 Digester 7:	RP-1 Operations: Scott	(ISS) During the month of	BIS successfully
	active participants and	Rehabilitation project	Francis passed	February, CISA and DHS	completed the semi-
	contributors in the AM	started; Operations	Wastewater Operator II	resources tested the	annual payroll updates to
	Steering Committee	turned over Digester 7 to	exam and received	defenses of IEUA	maintain compliance to
	Meetings and supported	Contractors during Q3.	certificate.	systems. They examined	current regulations and
	AM initiatives such as			network, application, and	IRS rules.
	Defect Elimination.	RP-4 Rehabilitation	Ivan Cheng: Passed	endpoint protections	
		Projects: Secondary	Advanced water	from the perspective of	Working with CAP, BIS
	BIS worked with	Clarifiers 2 and 3 rehab	Treatment III exam.	an attacker. A handful of	implemented a new PO
	Operations and Asset	and weir covers installed		minor findings were	document series (43-
	Management teams to	and clarifiers placed in	Richard Selio Mech III	reported and IEUA has	series) to easily
	complete the develop of	service.	attended a two-day	begun addressing the	distinguish them as the
	GIS-based application to		training on Planning and	gaps found by DHS.	Blanket Purchase
	show historical records of	RP-5 Expansion Project:	Scheduling.		Agreement (BPA) POs.
	the past 22 Sewage Spill	O&M staff actively	_	ISS has been increasing	_
	Overflow events.	engaged in the planning	AWWA symposium	the protection capability	Working with IERCF team
		and execution of plant	attended by 8 O&M staff	of our web filtering proxy	and consultants, BIS
		shutdowns to progress	during March 2021.	to better defend against	helped the Agency go live
		the scheduled project		malicious downloads and	with the new work order
		tasks.		compromised websites.	scheduling tool called
					PaSTA. This tool
		CCWRF – Asset		The first issue of the IEUA	provided ease of use for
		Management and		Tech Minute will be	planners as well as
		Improvement Project:		published in the Wave's	tracking key metrics that
		O&M staff collaborated		May addition. The bi-	are important to
		with engineering staff in		monthly feature will	managing plant
		the 50% design review.		deliver cybersecurity tips,	operations.
		Ŭ		special features by the	
				ISS and BIS teams, and	Working with Operations.
				announcements of	BIS created a new work
				upcoming changes.	center in SAP for the
					Electrical &

	•	 	
		Working with ISS team,	Instrumentation (E&I) to
		BIS applied the critical	support the new craft.
		Microsoft Windows	
		security patches to all	Through coordination
		SAP servers.	with representatives
			from all departments, BIS
		Working with ISS team,	and ISS launched the net
		BIS completed the	support ticket application
		upgrade to SAP desktop	that is based on newer
		application to maintain	technology – PowerApps.
		high security and	This new technology is
		software compatibility	compatible with newer
		with the backend SAP	browsers and mobile
		server.	devices.
			BIS completed a
			dashboard for IERCF that
			shows Key Performance
			Indicators (KPIs)
			automatically,
			eliminating the need for
			staff to compile data and
			compose the dashboard
			manually.
			Working with Records
			Management team, BIS
			launched electronic
			forms using Laserfiche:
			Wellness
			Reimbursement, Safety
			Shoe, and New Employee
			Notification.

Inland Empire Utilities Agency Inter-Departmental / Division Transfers FY 2020/21 Budget Transfer

Fund Name	Date	Cost Center	GL Account	Category	Amt Transfer Out	Cost Center	GL Account	Category	Amount Transfer In	Description	QTR
	5/12/2021	112100	521080	Professional Fees & Services	\$15,625.00	131140	520980	Professional Fees & Services	\$15,625.00	This request is to transfer funds from Agency Management to the Lab to cover expenses from MRG for professional services - leadership training.	4
	5/12/2021	136100	511230 511240 511250 511290 513020	Office & Administration	\$6,300.00 \$1,050.00 \$12,600.00 \$2,100.00 \$7,950.00	136100	515030	Office & Administration	\$30,000.00	CASA has solicited a financial contribution to fund a Cerio Study that will develop guidance to improve consistency and comparability for C. dubia test results. The total contribution amount will be \$30,000. Funds will be transferred from Travel and Conference expense accounts to Contributions and Sponsorships	4
	5/12/2021	122100	513010 511110	Office & Administration	\$500.00 \$2,000.00	120100	511310	Office & Administration	\$2,500.00	To move funds to the Employee Recognition account, as there are currently no available funds to use within this account.	4
Administrative Services	5/18/2021	119100	511220 511230 511240 511240 511250 511290 512210 513010 514410 511430	Office & Administration	\$250.00 \$900.00 \$650.00 \$4,850.00 \$400.00 \$550.00 \$2,300.00 \$6,100.00 \$6,500.00 \$7,000.00 \$6,500.00	119100	520213	Professional Fees & Services	\$36,000.00	Transfer to ensure funds are available to process payment of legal services invoices	4
	5/27/2021 11	114100	521080	Professional Fees & Services	\$2,500.00	119100	520980	Professional Fees & Services	\$2,500.00	Transfer \$2,500 from Cost Center 114100 to Cost Center 119100 to pay for an invoice from Nichols Consulting for preparation of Senate Bill 90/State Mandated Cost Claims for claims prepared related to Local Government Employee Relations for FY 2019/20. This cost was not anticipated when preparing for FY 2020/21 Budget.	4
	6/3/2021	119100 120100 122100	511120 512010 513020 514020 514110 511130 511430 511120 511220 511230 511240 511250 512010 513010	Office & Administration	\$1,000.00 \$1,600.00 \$2,700.00 \$12,000.00 \$12,000.00 \$1,100.00 \$125.00 \$125.00 \$350.00 \$350.00 \$450.00 \$450.00	119100	520213	Professional Fees & Services	\$26,000.00	To ensure available funds to process payment of legal services invoices.	4
	Administrative Services	5/12/2021 5/12/2021 5/12/2021 5/18/2021 Administrative Services 5/27/2021 6/3/2021	5/12/2021 112100 5/12/2021 136100 5/12/2021 122100 5/18/2021 119100 S/27/2021 114100 6/3/2021 120100 6/3/2021 122100	5/12/2021 112100 521080 5/12/2021 136100 511230 5/12/2021 136100 511290 5/12/2021 122100 513010 5/12/2021 122100 511240 5/12/2021 122100 511230 5/12/2021 122100 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511240 511400 511240 51140 51140 51140 512100 51410 51140 51140 51140 51140 51120 6/3/2021 114100 51120 6/3/2021 114100 51120 6/3/2021 6/3/2021 51120 6/3/2021 51120 51120 512100 51120 512120 51212	5/12/2021 112100 521080 Professional Fees & Services 5/12/2021 136100 511230 0ffice & Administration 5/12/2021 136100 511200 0ffice & Administration 5/12/2021 122100 513020 0ffice & Administration 5/12/2021 122100 511200 511200 5/12/2021 122100 511230 511240 5/12/2021 119100 511250 511250 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Inland Empire Utilities Agency Inter-Departmental / Division Transfers FY 2020/21 Budget Transfer

	TRANSFER FROM TRANSFER TO											
Fund	Fund Name	Date	Cost Center	GL Account	Category	Amt Transfer Out	Cost Center	GL Account	Category	Amount Transfer In	Description	QTR
		6/10/2021	115100	512710	Materials & Supplies	\$21,000.00	115100	545311	Utilities	\$21,000.00	Cover expenditures for Agency's cell phone program as a result of increased distribution to staff, initial expense, associated monthly service fees, and accessories (cases, chargers).	4
		6/10/2021	115100	512710	Materials & Supplies	\$5,000.00	115100	545310	Utilities	\$5,000.00	Budget transfer to cover the additional costs associated with the increase in Agency issued smartphones. Cover the added costs of accessories including cases and chargers.	4
10200 Administrative Servic	Administrative Services	6/10/2021	154100	545110	Litilities	\$25,000,00	115100	545310	Litilities	\$4,000.00	Transfer to cover the additional expenses associated with the increase in distribution of Agency smart phones to staff throughout the Operations	4
		0/10/2021	134100	545110	Othities	\$23,000.00	115100	545311	Othities	\$21,000.00	Division. These expenses will be applied toward the purchase of the phone, monthly service fees and the cost of accessories. (Cases and chargers).	7
		6/10/2021	144100	521010	Professional Fees & Services	\$25,000.00	146100	512110	Materials & Supplies	\$25,000.00	Provide additional funds for budget shortfall in Process Automation and Control (146100) Materials & Supplies. This shortfall is preventing completion of invoice processing for fiscal year 2021.	4
	4/5/202	4/5/2021	151100	545110	Utilities	\$90,000.00	151151	530020	Chemicals	\$90,000.00	Due to rising renewal costs this fiscal year a budget transfer is necessary to pay for chemical invoices through the end of the fiscal year.	4
		6/1/2021	151100	520980	Professional Fees & Services	\$55,000.00	151151	526310	Biosolids Recycling	\$55,000.00	RP-1 has produced approximately 2% more biosolids than anticipated during the original budgeting cycles. This increase was caused by operational challenges with solids thickening, digester heating, and the overall digestor performances.	4
							151100	530028 \$122,000.00 The cost for chemicals has increased higher th		The cost for chemicals has increased higher than was anticipated during the		
10000	Regional Wastewater	6/1/2021	151100	545110	Utilities	\$157,000.00	151100	530025	Chemicals	\$10,000.00	original budgeting cycle. Specifically, Sodium Bisulfite increased by 57%,	4
10800	Operations & Maintenance						151100	530024		\$25,000.00	Ferric Chloride by 43%, and Sodium Hypochlorite by 8%.	
				521010		\$175,000.00		530016		\$180,000.00	Due to rising chemical renewal costs this fiscal year, a budget transfer is	
		6/8/2021	144155	521050	Professional Fees & Services	¢160.000.00	154100	530020	Chemicals	\$30,000.00	needed to supplement the chemical budget. Transfer will pay for chemical	4
				521050		\$160,000.00		530024		\$125,000.00	invoices through June 2021.	
		6/15/2021	144155	521010	Professional Fees & Services	\$35,000.00	154100	526310	Biosolids Recycling	\$35,000.00	RP-2 solids loading has increased by approximately six percent in FY 20-21 from the previous fiscal year (FY 19-20). The solids loading increase has resulted in a near similar increase of approximately five percent of biosolids sent to the Inland Empire Regional Composting Facility.	4
					Total O&M Transfers Out	\$860,625			Total O&M Transfers In	\$860,625		

Exhibit C-2

Inland Empire Utilities Agency FY 2020/21 General Manager Contingency Account Activity Budget Transfer

Date	From Expense Account	Amount Transfer Out	Receiver Fund Name	Receiver Fund Center Name	Receiver Project / Expense Account	Receiver Project / Expense Account Name	Amount Transfer In	Balance	Justification
Beginning Balance, July 1, 2020								\$300,000	
	No Activity								
Balance, Sept	tember 30, 2020						\$0	\$300,000	
12/9/2020	GM Contingency	\$4,005	Administrative Services	Agency Management	511310	Employee Recognition	\$4,005		Funds needed for Holiday Shirt order requested by C. Valencia
Balance, Dec	ember 31, 2020						\$4,005	\$295,995	
1/12/2021	GM Contingency	\$14,000	Non- Reclaimable Wastewater program	Agency Management	520210	Legal - General	\$14,000		Funds needed to cover the legal expenses due to the unpredictable level of public records request related to the NRW system, the NRW Legal - General fund has used more than the budget funds.
Balance, Mar	ch 31, 2021						\$14,000	\$281,995	
5/5/2021	GM Contingency	\$26,640	Recharge Water	Agency Management	520230	Legal - Litigation	\$26,640		This request is to transfer \$26,640 from the GM Contingency Fund into the Legal- Litigation fund to ensure there are enough funds to cover general counsel's invoices as there have been more costs associated with legal litigation this fiscal year.
Balance, June	e 30, 2021						\$26,640	\$255,355	

GM Contingency Transfers Summary by Fund						
Administrative Services program	\$4,005					
Recharge Water program	\$26,640					
Non-Reclaimable Wastewater pro	\$14,000					
Recycled Water program	-					
Regional Wastewater O&M progra	-					
Regional Wastewater Capital prog	-					
Water Resources program	-					
Total GM Contingency Transfers	\$44,645					

Inland Empire Utilities Agency Changes in Total Project Budget: Inter-Departmental/Division Capital & O&M Transfers FY 2020/21

Fund	Transfer Date	Project Number	Project Title	Adopted Total Project (TP) Budget	Prior TP Changes in Current FY	Amt. of Transfer In / (Out)	New TP Budget	Annual Project Budget	Annual Proj. Budget Change	New Annual Project Budget	Project Transferred To/(From)	Justification	
Capital Projects													
10200	5/5/21	EN21049	Main HDQ Improvement	\$140,000	\$0	(\$30,000)	\$110,000	\$140,000	(\$30,000)	\$110,000	IS21022	Transfer funds for the purchase of new SAP server hardware, operating system, and database licenses that will replace the existing server that is	
		IS21022	SAP Host Server Replacement	\$0	\$0	\$30,000	\$30,000	\$0	\$30,000	\$30,000	EN21049	approaching end of useful life.	
	6/9/21	IS21006	Replace RP-1 Trailer	\$200,000	\$70,000	(\$45,000)	\$225,000	\$270,000	(\$45,000)	\$225,000	IS20003	The transfer will fund 20 laptops, docking stations, and monitors to	
		IS20003	BIZ Infrastructure Replacement	\$410,500	\$0	\$45,000	\$455,500	\$138,820	\$45,000	\$183,820	IS21006	support new hire staff currently in recruitment by HR.	
Subtota	General Ad	Iministrative	(GG):	\$750,500			\$820,500	\$548,820		\$548,820			
10800	4/22/21	EN21046	CCWRF Filter Automatic Valves	\$388,000	(\$250,000)	(\$50,000)	\$88,000	\$138,000	(\$50,000)	\$88,000	EN20058	Transfer FY 20/21 and Total Project Budget in the amount of \$50,000 from the CCWRF Filter Automatic Valves, Project No. EN21046 to the RP-1 TP-1 Waste Wash Water Basin Pumps Replacement, Project EN20058. The project will need a budget transfer to cover the cost of the	
10000	-T/22/21	EN20058	RP-1/TP-1 Waste Wash Water Basin Pumps	\$650,000	\$100,000	\$50,000	\$800,000	\$610,000	\$50,000	\$660,000	EN21046	change orders, anticipated final invoices, and staff labor to close out the project. The change orders are a result of added scope required to completed the installation of the new pumps and a request from operations to replace additional valves.	
Subtota	Regional W	astewater O	oerations & Maint. (RO):	\$1,038,000			\$888,000	\$748,000		\$748,000			
				Capital Total	Project Budget		Total A	nnual Capital E	Budget				
				Adopted			Amended	Adopted		Amended			
			\$1,788,500			\$1,708,500	\$1,290,820		\$1,290,820				
O&M P	rojects												
10(00	4/22/21	EN21036	WC On-Call Small Projects	\$150,000	\$0	(\$40,000)	\$110,000	\$150,000	(\$40,000)	\$110,000	EN21017	Transfer \$40,000 from WC On-Call/Small Projects FY 20/21, Project No. EN21036 to the WC Emergency Projects FY 20/21, Project	
10000	4/22/21	WR21017	Residential Pressure Regulation Program	\$150,000	\$0	\$40,000	\$190,000	\$150,000	\$40,000	\$190,000	EN21036	EN21017. There is currently one additional emergency recycled wate project that has occurred, which will require additional budget.	
Subtota	Recycled W	ater (WC):		\$300.000			\$300.000	\$300.000		\$300.000	\$300.000		
Subtota		WR20013	Sponsorships & Public Outreach	\$174,500	\$0	(\$145,276)	\$29,224	\$150,281	(\$145,276)	\$5,005	WR21024	This transfer is providing additional funds to the WR21024 WUE Research and Evaluation Project Staff are planning to implement an	
	5/25/21	WR21024	WUE Research and Evaluation	\$40,000	\$0	\$145,276	\$185,276	\$40,000	\$145,276	\$185,276	WR20013	indoor leak detection program in FY 21/22. The transfer is occurring from WR20013.00 to WR21024.00 for a total amount of \$145,276.00.	
10700	6/29/21	WR20007	Residential Rebate Incentive	\$100,000	\$0	(\$15,669)	\$84,331	\$65,634	(\$15,669)	\$49,965	WR21007	This transfer is providing additional funds to the WR21007 Residential Rebate Project. Staff continues to receive costs associated with MWD residential rebates and expects to see an increase in activity in FX 21/22	
	5/27/21	WR21007	Residential Rebate Incentive	\$100,000	\$0	\$15,669	\$115,669	\$100,000	\$15,669	\$115,669	WR20007	The transfer is occurring from WR20007.00 to WR21007.00 for a total amount of \$15,669.	
Subtota	Water Reso	ources (WW):		\$414.500			\$414.500	\$355.915		\$355.915			
		(O&M Total I	Project Budget		Total Annu	1al O&M Proje	ct Budget			
			Adopted			Amended	Adopted		Amended				
			\$414,500			\$414,500	\$355,915		\$355,915				



FY 2020/21 Budget Variance Report 4th Quarter Ended June 30, 2021

Javier Chagoyen-Lazaro Manager of Finance and Accounting September/October 2021

Inland Empire Utilities Agency

FY 2020/21 Budget Variance Summary Regional Wastewater and Recycled Water Programs (\$ Millions)

	Amended Budget	Actual YTD	% Budget Used YTD
Total Sources of Funds	\$254.7	\$213.9	84.0%
Total Uses of Funds	(\$266.8)	(\$212.8)	79.7%
Net Increase/(Decrease)	(\$12.1)	\$1.2	
Beginning Fund Balance	\$208.6	\$208.6	
Ending Fund Balance	\$196.5	\$209.8	

Highlights							
Total Sources of Funds	Total Uses of Funds						
Unfavorable variance due to lower project loan	Favorable variance continues to reflect the effects						
reimbursements from delays in SRF loan	of the Coronavirus (COVID-19) pandemic						
projects							

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

FY 2020/21 Budget Variance Summary Regional Wastewater and Recycled Water Programs (\$ Millions)

Sources of Funds	Amended Budget	Actual YTD	% Budget Used YTD
User Charges	\$68.3	\$71.4	104.5%
Recycled Water Sales	16.2	19.2	119.0%
Property Taxes	46.8	54.8	117.1%
Connection Fees	35.7	42.4	118.6%
Grants and Loans	77.8	19.1	24.6%
Other Revenues*	9.9	7.0	102.9%
Total Sources of Funds	\$254.7	\$213.9	84.0%

*Other operating revenues includes contract cost reimbursements, lease, and interest revenue.

	Highlights						
•	User Charges Higher number of billable EDUs than budgeted	Recycled WaterBudgetDirect Sales19,000Recharge12,900	(AF) Actual 19,534 16,253	New ConnectionBudgetWastewater (EDUs)4,000Water (MEUs)4,700	<u>s</u> Actual 5,274 3,785	 Grants & Loans Includes grant proceeds of \$19M for the TCE Plume project and various recycled water projects. 	

Inland Empire Utilities Agency

FY 2020/21 Budget Variance Summary Regional Wastewater and Recycled Water Programs (\$ Millions)

Uses of Funds Operating Expense	Amended Budget	Actual YTD	% Budget Used YTD
Employment Expenses (net of CIP)	\$44.4	\$44.7	100.7%
Operating Expenses*	27.8	20.9	75.3%
Utilities	10.0	8.9	89.4%
Projects Expenses**	161.4	109.3	67.7%
Financial Expenses	23.2	28.9	124.6%
Total Uses of Funds	\$266.8	\$212.8	79.7%

*Operating expenses includes insurance, office & admin., professional fees, chemicals, biosolids, and materials & supplies. **Project expenses includes capital and non-capital projects.

	Highlights						
•	Deferred non-critical contract labor and materials All travel, conferences, and related costs on hold All in person events and training shifted to a virtual environment	 Financial Expense Includes \$15.5M principal for the 2017A and 2020A Revenue bonds and various SRF Loans, and interest and financial fees 					

Regional Wastewater Operations Fund Cost of Service per EDU

Adopted Multi-Year Rates \$/EDU 2015/16 2016/17 2017/18 2018/19 2019/20 2020/21 \$15.89 \$17.14 \$18.39 \$19.59 \$20.00 \$20.00 \$30 \$25 \$8.16 \$20 \$1.84 \$2.00 \$2.00 \$2.01 \$2.01 \$15 \$10 \$18.88 \$17.88 \$17.41 \$17.10 \$16.45 \$16.08 \$5 \$0 2015/16 2017/18 2020/21 Projected 2016/17 2018/19 2019/20

COS of Adopted 2021 Rates-O&M COS of Adopted 2021 Rates-R&R -Adopted EDU Rate

5

Regional Wastewater Operations Fund Cost of Service per EDU Projected vs. Actual



Recycled Water Program Projected Cost of Service per AF



^{2020/21 -} Unaudited Actuals

Recycled Water Fund Cost of Service per AF Projected v. Actual



*2020/21 - Unaudited Actuals, AF projection excludes IEUA usage of 628AF
Questions





Operating and Capital Program Budget

FY 2019/20 and 2020/21

The Inland Empire Utilities Agency is committed to meeting the needs of the region by providing essential services in a regionally planned and cost effective manner white safeguarding public health, promoting economic development, and protecting the environment. The Budget Variance Analysis report is consistent with the Agency's business goal of fiscal responsibility to ensure actual revenues and expenditures are consistent with those approved by the Board of Directors.





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Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

INFORMATION ITEM **2B**



Recycled Water Ground Water Recharge Update

Andy Campbell, PG, CHG GWR Coordinator/Hydrogeologist September 30, 2021

Accumulated Monthly Stormwater



Inland Empire Utilities Agency

Accumulated Monthly Recycled Water



Inland Empire Utilities Agency

Hickory Basin Restoration and RW Delivery









Groundwater Recharge Deliveries Past 12 Months





Groundwater Recharge Annual History

Inland Empire Utilities Agency



Recycled Water (RW) Demand History





7

INFORMATION ITEM **2C**



Engineering and Construction Management Quarterly Project Updates Regional Tech/Policy Committees

Jason Marseilles, P.E. Deputy Manager of Engineering September/October 2021



Project Location Map

NRW East End Flowmeter Replacement Project Goal: Improve Efficiency and Safety



West Diversion Structure

Total Project Budget: \$3.6 M Project Completion: November 2021 Construction Percent Complete: 85%

Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders	
Design	Civiltec Engineering Inc	\$293 K	9%	
Construction (Current)	SCW Contracting	\$2.3 M	1.6%	
Project Management Team				
Р	roject Manager:	Biesiada, Josł	ı	
Assistant/Asso	ociate Engineer:	Trott, Megan		
Administr	ative Assistant:	Rodriguez, Teresa		
	Inspector:	MWH Constru	ctors	

3

RP-1 Disinfection System Improvements Project Goal: Increase Operational Efficiency

Total Project Budget: \$8.5 M Project Completion: August 2023 Design Percent Complete: 95%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design (Current)	Carollo Engineering	\$750 K	10%
Construction	TBD	\$0	0%

Project Management Team				
Project Manager:	Spears, James			
Assistant/Associate Engineer:	Salazar, Victoria			
Administrative Assistant:	Olsen, Wendy			
Inspector:	TBD			



Inland Empire Utilities Agency

Sedimentation Basin

CCWRF Asset Management and Improvements Project Goal: Extend Asset Life





Chemical Odor Scrubber at Headworks

Total Project Budget: \$27 M Project Completion: November 2023 Design Percent Complete: 85%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design (Current)	CDM Smith	\$3.2 M	-12%
Construction	TBD	\$0	0%

Project Management Team				
Project Manager:	Ignacio, Joel			
Assistant/Associate Engineer:	Ward, Ryan			
Administrative Assistant:	Olsen, Wendy			
Inspector:	TBD			

RECEIVE AND FILE **3A**



Regional Sewerage Program Policy Committee Meeting

AGENDA Thursday, October 7, 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.

Teams Conference Link: <u>https://teams.microsoft.com/l/meetup-</u>

join/19%3ameeting_NWU1NzA2NDktM2VjMC00NDU1LTkxMmUtMjYyMjA2YWM3YWU4%40thread.v 2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

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 Laura Mantilla at Imantilla@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. <u>Comments will be limited to three minutes per speaker.</u>

(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. Technical Committee Report (Oral)

2. Action Item

A. Approval of September 2, 2021 Policy Committee Meeting Minutes

3. Informational Items

- A. Regional Contract Negotiation Update (Oral)
- B. FY 2020/21 Fourth Quarter Budget Variance Report

4. Receive and File

- A. Building Activity Reporting
- B. Recycled Water Distribution Operations Summary
- C. Recycled Water Groundwater Recharge Update
- D. Engineering Quarterly Project Updates
- E. CBP/WSIP Baseline Scenario Regional Contract
- 5. Policy Committee Items Distributed None

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 November 4, 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, Laura Mantilla, 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 <u>www.ieua.org</u> and posted at the Agency's main office at 6075 Kimball Avenue, Building A, Chino, CA, by Thursday, September 30, 2021.

RECEIVE AND FILE **3B**









astvale	YTD Actual					
	Contracting Agency	Commercial (EDUs)	Industrial (EDUs)	Residential (EDUs)	Total (EDUs)	
Hamne	Chino	0	0	48	48	
r-Ave	Chino Hills	0	0	0	0	
	CVWD	8	0	0	8	
6tr	Fontana	2	0	26	28	
orco	Montclair	5	0	0	5	
	Ontario	5	0	17	22	
	Upland	3	0	11	14	
15	Total	23	0	102	125	
E 6th	0 Riverside Fund Nagooile Aug St	Indiana. 5	California Citrus State Historic Park	re _{fon.st}	O woodcrest Miles	

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Fontana

Etiwan

Mira Loma

Alta Loma

Grapeland

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Ra Ono Cuc Oonga

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Municipal Airport

Corona W 6th St



Northpark Blvd

W Base Line St

W 5th St

-W-Mil

Grand Terrace

Projected

Total

(EDUs)

434

276

2050

1792

474

7560

952

13538

Mira Loma

W-Rialto-Ave

Colton

Highgrove

Muscoy

Rialto







RECEIVE AND FILE **3C**

IEUA RECYCLED WATER DISTRIBUTION – AUGUST 2021



Recycleu Waler Recharge Actuals - August 2021 (Acre-F	eet)
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Basin	8/1-8/7	8/8-8/14	8/15-8/21	8/23-8/31	Month Actual	FY To Date Actual	Deliveries are draft until reported as final and do not included evaporative losses.
Ely	6.3	0.0	0.0	0.0	6.3	201	
Banana	30.1	22.0	11.4	15.5	79.0	168	
Hickory	0.0	9.6	58.4	150.2	218.2	218	
Turner 1 & 2	0.0	0.0	0.0	0.0	0.0	0	
Turner 3 & 4	0.0	0.0	0.0	0.0	0.0	0	
8th Street	0.0	0.0	0.0	0.9	0.9	1	
Brooks	16.6	29.0	32.1	27.1	104.8	231	
RP3	53.8	116.1	136.2	214.6	520.7	916	
Declez	14.6	30.9	34.9	33.5	113.9	188	
Victoria	0.0	0.0	0.0	0.0	0.0	0	
San Sevaine	77.5	106.4	88.2	71.3	343.4	673	
Total	198.9	314.0	361.2	513.1	1,387.2	2,596	2,772 AF previous FY to day actual





RECEIVE AND FILE **3D**



From:	Inland Empire Utilities Agency
Subject:	CBP WSIP Baseline Scenario – Regional Contract

This is an informational item regarding the Regional Technical and Policy Committees role and authority to review and approve projects under the Regional Sewage Service Contract (Regional Contract) as it relates to the Chino Basin Program (CBP) and its project components.

BACKGROUND

At both the August 2021 Technical and the September 2021 Policy committees meetings, the Policy committee requested that Inland Empire Utilities Agency (IEUA) provide an opportunity for the committee to formally take an action with respect to moving forward with the CBP prior to the October 2021 IEUA's Board of Directors' (Board) meeting where the decision to continue CBP planning would be discussed. The CBP has two major components to the project: Baseline (maintaining IEUA's wastewater permit compliance) and water supply (water supply reliability, flexibility, and local resilience). As the Regional Contract is an agreement specific to the Regional Sewerage System, it is important to consider that the CBP's scope extends beyond the jurisdiction of the Regional Contract.

There are several opportunities in the Regional Contract in which the committees can advise IEUA's Board related to the budget and specific projects and are as follows:

- Section 9A Part 3 Subparts A and B of the Regional Contract outlines the authority of the Regional Policy Committee on the Ten-Year Forecast (TYF) and the Mid-Year Financial Reports. The Regional Policy Committee must prioritize capital improvement projects (CIP), and provide recommendations on IEUA's TYF with respect to the project schedules. The committee may similarly provide recommendations on the Mid-Year Financial Report.
- Section 9C of the Regional Contract establishes the governance of the Regional Policy and Technical Committees on major construction contracts. In Part A, IEUA cannot proceed with a construction contract award on Regional Sewerage System CIP above \$2 million without the approval of the Regional Policy Committee. Whereas Part B specifies authority of the committees during the design phase. Contract language states that IEUA cannot award design contracts for major projects that are not prioritized by the Regional Policy Committee as mentioned in Section 9A. Additionally, the Regional Technical Committee

shortlists the engineering firms during consultant selection and reviews the design at certain phases.

Per the Regional Contract and highlighted above, there are specific instances where the Regional Committees can take an action on IEUA wastewater projects. Since the CBP continues to be in the planning phase, there is no action required from the Regional Committees at this time. Consistent with the Regional Contract, IEUA would request action from the Regional Committees at the time of design shortlist, prior to bidding construction of the project, and as CBP project components are included in the TYF.