Regional Sewerage Program Policy Committee Meeting

AGENDA

Thursday, August 5, 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: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWU1NzA2NDktM2VjMC00NDU1LTkxMmUtMjYyMjA2YWM3YWU4%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: 1-415-856-9169/Conference ID: 552 973 583#

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

Call to Order/Flag Salute

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. **<u>Comments will be limited to three minutes per speaker.</u>**

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 July 1, 2021 Policy Committee Meeting Minutes

3. **Informational Items**
   A. Engineering and Construction Management Project Updates
   B. Regional Contract Negotiation Update *(Oral)*

4. **Receive and File**
   A. Operations Division Quarterly Update
   B. 2021 Sewer System Management Plan Audit Report Update
   C. Building Activity Report
   D. Recycled Water Distribution – Operations Summary
   E. Wastewater Connection Fee Rates
   F. Updated Regional Contract Negotiations Milestone Schedule

5. **Policy Committee Items Distributed**
   A. Chino Basin Program | Water Storage Investment Program Fact Sheet

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 – September 2, 2021

Adjournment

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

DECLARATION OF POSTING

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

Sally Lee

Sally H. Lee

ACTION ITEM

2A

Regional Sewerage Program
Policy Committee Meeting

MINUTES OF JULY 1, 2021 MEETING

CALL TO ORDER
A meeting of the Inland Empire Utilities Agency (IEUA)/Regional Sewerage Program Policy Committee was held via teleconference on Thursday, July 1, 2021. Chair Bill Velto/City of Upland, called the meeting to order at 3:31 p.m.

PLEDGE OF ALLEGIANCE
Committee Member Peter Rogers/City of Chino Hills led the Pledge of Allegiance. Recording Secretary Sally Lee took roll call and established a quorum was present.

ATTENDANCE via Teleconference

Committee Members:

Jesse Sandoval	City of Fontana
Debra Dorst-Porada	City of Ontario
John Dutrey	City of Montclair
Randall Reed	CVWD
Peter Rogers	City of Chino Hills
Eunice Ulloa	City of Chino
Bill Velto	City of Upland
Jasmin A. Hall	IEUA

Others Present:

Dave Crosley	City of Chino
Keith Kramer	City of Fontana
Mike Hudson	City of Montclair
Courtney Jones	City of Ontario
Christopher Quach	City of Ontario
Julian Chang	City of Upland
Nicole deMoet	City of Upland
Luis Cetina	CVWD
Eduardo Espinoza	CVWD
Kevin Kenley	CVWD
Michael Harty	Kearns & West
Bob Roberts	Unknown
Shivaji Deshmukh	IEUA

DRAFT

Others Present (continued):

Christiana Daisy	IEUA
Kathy Besser	IEUA
Christina Valencia	IEUA
Jerry Burke	IEUA
Javier Chagoyen-Lazaro	IEUA
Robert Delgado	IEUA
Denise Garzaro	IEUA
Sally Lee	IEUA
Alex Lopez	IEUA
Liza Munoz	IEUA
Jesse Pompa	IEUA
Brent Ritzinger	IEUA
Jeanina Romero	IEUA
Ken Tam	IEUA
Jeff Ziegenbein	IERCA

PUBLIC COMMENTS

There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA

There were no additions or changes to the agenda.

1. **TECHNICAL COMMITTEE REPORT**

   Nicole deMoet/City of Upland stated that there were two action items at the June 24 Technical Committee meeting: the approval of the May 20, 2021 Special Technical Committee meeting and May 27, 2021 Technical Committee meeting minutes. IEUA presented the following three information items: Recycled Water Groundwater Recharge update, Return to Sewer Study update, and the Operations and Compliance update. She shared that she will be presenting the Regional Contract Negotiations Update as Kearns and West was not present at the previous meetings.

2. **ACTION ITEMS**

   A. **APPROVAL OF THE JUNE 3, 2021 POLICY COMMITTEE MINUTES**

   Motion: By Peter Rogers/City of Chino Hills and seconded by Randall Reed/CVWD to approve the meeting minutes of the June 3, 2021 Regional Policy Committee meeting.

   Motion carried by roll call vote: Ayes: 6; Abstain: 0; Absent: 1; Noes: 0

   With the following roll call vote:

   Ayes: Rogers, Reed, Dorst-Porada, Dutrey, Sandoval, Velto
   Noes: None
   Absent: Ulloa
   Abstain: None

DRAFT

B. DESIGNATION OF REPRESENTATIVE ENTITLED TO PARTICIPATE IN GRANTS AND FINANCIAL ASSISTANCE NEGOTIATIONS

Shivaji Deshmukh/IEUA stated that there was discussion at the June 3 Policy Committee meeting to nominate Randall Reed as the representative entitled to participate in grants and financial assistance negotiations as an information item. To ensure compliance with the Brown Act, this item is being brought to the Policy Committee as an action item. General Manager Deshmukh stated that staff has reached out to Committee Member Reed and looks forward to beginning this process.

Committee Member Dorst-Porada/City of Ontario stated that she would like to be informed of the current grants and financial assistance negotiation items and requested a quarterly report on items being discussed. General Manager Deshmukh stated that staff will coordinate with Committee Member Reed to establish those items and report back to the Policy Committee members.

Motion: By Jesse Sandoval/City of Fontana and seconded by Peter Rogers/City of Chino Hills recommended that Committee Member Randall Reed serve as the representative entitled to participate in grants and financial assistance negotiations.

Motion carried by roll call vote: Ayes: 7; Abstain: 0; Absent: 1; Noes: 0

With the following roll call vote:

Ayes:	Sandoval, Rogers, Dutrey, Dorst-Porada, Reed, Velto
Noes:	None
Absent:	Ulloa
Abstain:	None

3. INFORMATIONAL ITEMS

A. RECYCLED WATER GROUNDWATER RECHARGE UPDATE

Brent Ritzinger/IEUA provided an update on Recycled Water Groundwater Recharge. Discussion ensued regarding anticipated water deliveries from the Metropolitan Water District of Southern California (MWD) in the near future.

B. REGIONAL CONTRACT NEGOTIATIONS UPDATE

Ms. deMoet gave an overview of the draft Regional Contract Negotiation Meeting schedule which was included in the meeting packet as item 4C. She stated that the deadlines are preliminary and subject to change based on comments and negotiation progress. The contracting agencies have been working with Jeff Ferre from Best Best & Krieger to review contracting agency comments provided on the regional contract's existing language. She reported that Mr. Ferre has completed another draft for contracting agencies to review internally. The draft schedule includes milestones for the Policy Committee to review. She stated that there is a plan to have a final review by the contracting agencies and IEUA by the end of February 2022. Contracting agencies have successfully submitted comments to Mr. Ferre by their scheduled deadlines thus far which has led to productive discussions and negotiation sessions.

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4. **RECEIVE AND FILE**

A. **BUILDING ACTIVITY REPORT**

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

B. **RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY**

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

C. **REGIONAL CONTRACT NEGOTIATION MEETING SCHEDULE**

The Regional Contract Negotiation meeting schedule was received and filed by the Committee.

5. **POLICY COMMITTEE ITEMS DISTRIBUTED**

A. **RESPONSE TO JUNE 3, 2021 POLICY COMMITTEE REQUEST RELATED TO BUDGET**

B. **RESPONSE TO JUNE 3, 2021 POLICY COMMITTEE REQUEST RELATED TO GRANTS AND LOAN AGREEMENTS**

Committee Member Eunice Ulloa joined the meeting at 3:49 p.m.

6. **OTHER BUSINESS**

A. **IEUA GENERAL MANAGER'S UPDATE**

General Manager Deshmukh stated that the Inland Empire Regional Composting Facility sold its 3 millionth cubic yard of compost on June 30. The product was loaded onto a truck occupied by John Anderson, long-time IEUA Director and founding President of the Inland Empire Regional Composting Authority board of directors.

B. **COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING**

There were no Committee member requested agenda items for the next meeting.

C. **COMMITTEE MEMBER COMMENTS**

Committee Member Dorst-Porada asked if IEUA receives Colorado River Aqueduct water from MWD. General Manager Deshmukh stated that IEUA is one of three agencies out of the 26 MWD member agencies who are State Water Project (SWP) constrained, receiving only water from SWP due to MWD pumping structures. He stated that he will ask staff to review the Agency's website to ensure it reflects the most updated information. Committee Member Dutrey/City of Montclair asked for clarification on the dates provided on the Chino Basin Program|Water Storage Investment Program Fact Sheet provided on June 30. General Manager Deshmukh provided an update on the next steps and focus for the next couple months.

D. **NEXT MEETING – AUGUST 5, 2021**

7. **ADJOURNMENT**

Chair Velto adjourned the meeting at 3:56 p.m.

Prepared by:

Sally H. Lee, Executive Assistant

DRAFT

INFORMATION ITEM

3A

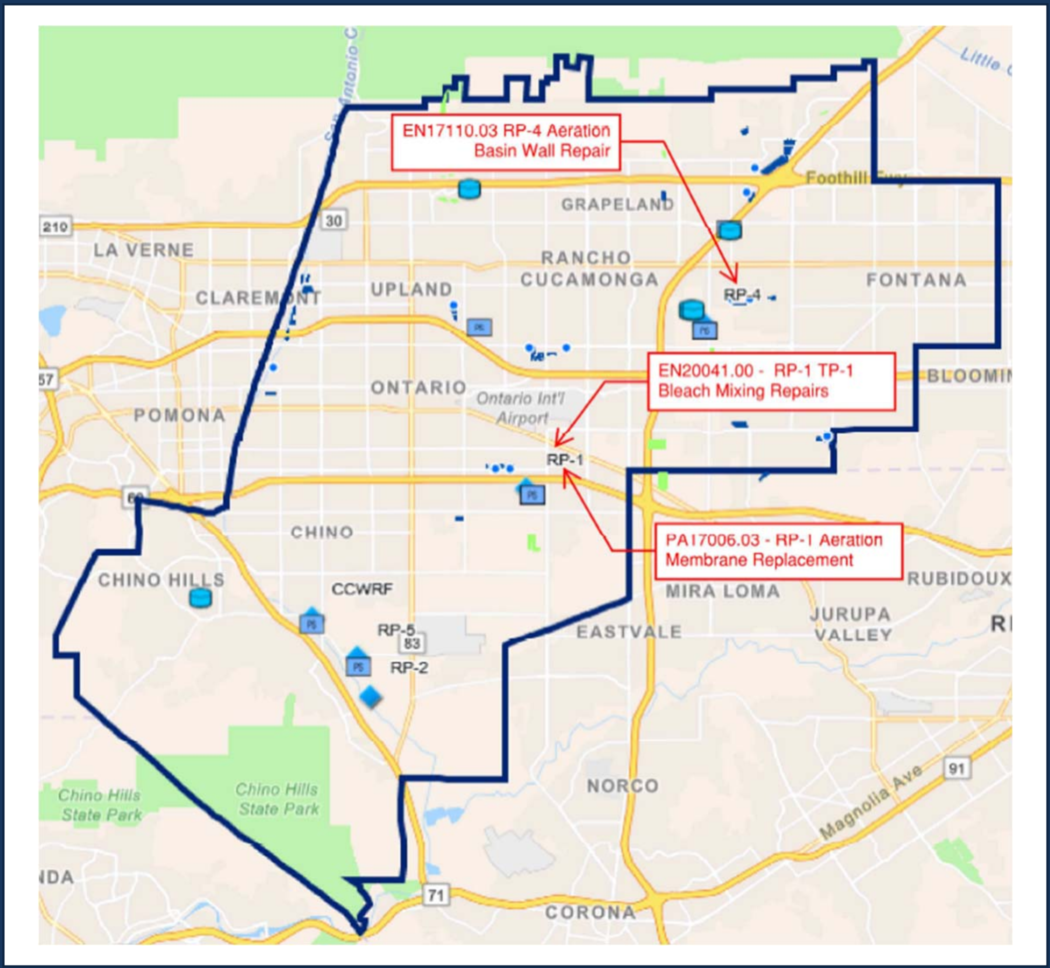
Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Engineering and Construction Management Project Updates

Jerry Burke, PE
Manager of Engineering

July/August 2021

Project Location Map



RP-1 TP-1 Bleach Mixing Repairs
Project Goal: Rehabilitate/Repair Existing Assets

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

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

RP-1 Aeration Membrane Replacement
Project Goal: Extend Asset Life

Total Project Budget: $2.9 M
Project Completion: September 2022
Design Percent Complete: 100%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Bid & Award (Current)	In-House	N/A	0%
Construction	TBD	$0	0%

RP-4 Aeration Basin Wall Repair

Project Goal: Increase Operational Efficiency

Total Project Budget: $5 M
Project Completion: December 2021
Percent Complete: 57%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design	Carollo Engineering	$90 K	0%
Construction (Current)	Genesis Construction	$4.2 M	2.8%

RECEIVE AND FILE

4A

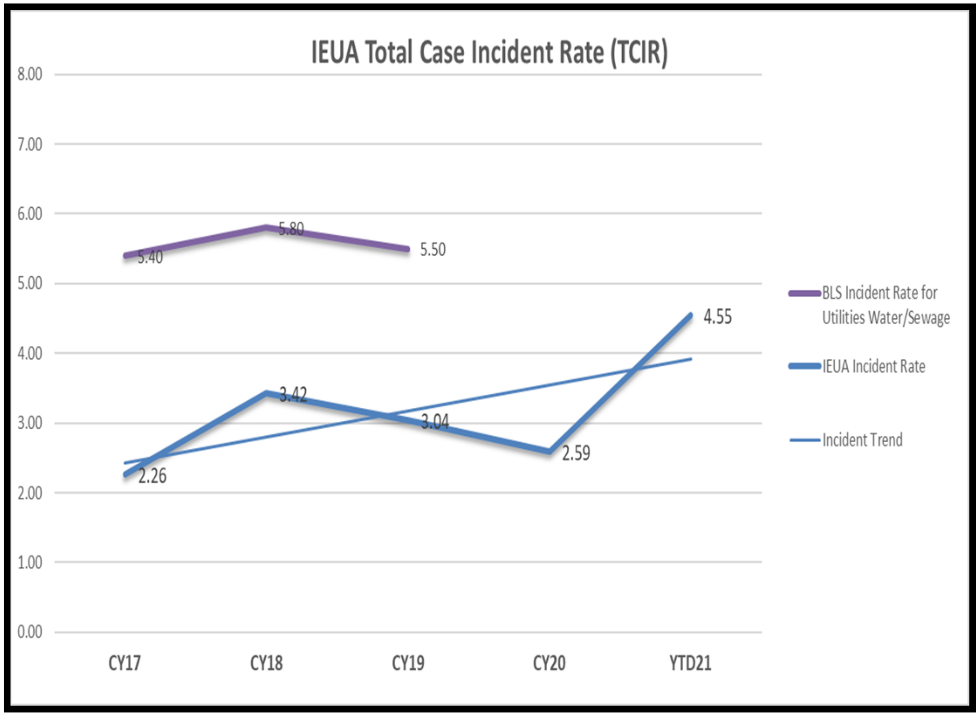
Operations Division Quarterly Update

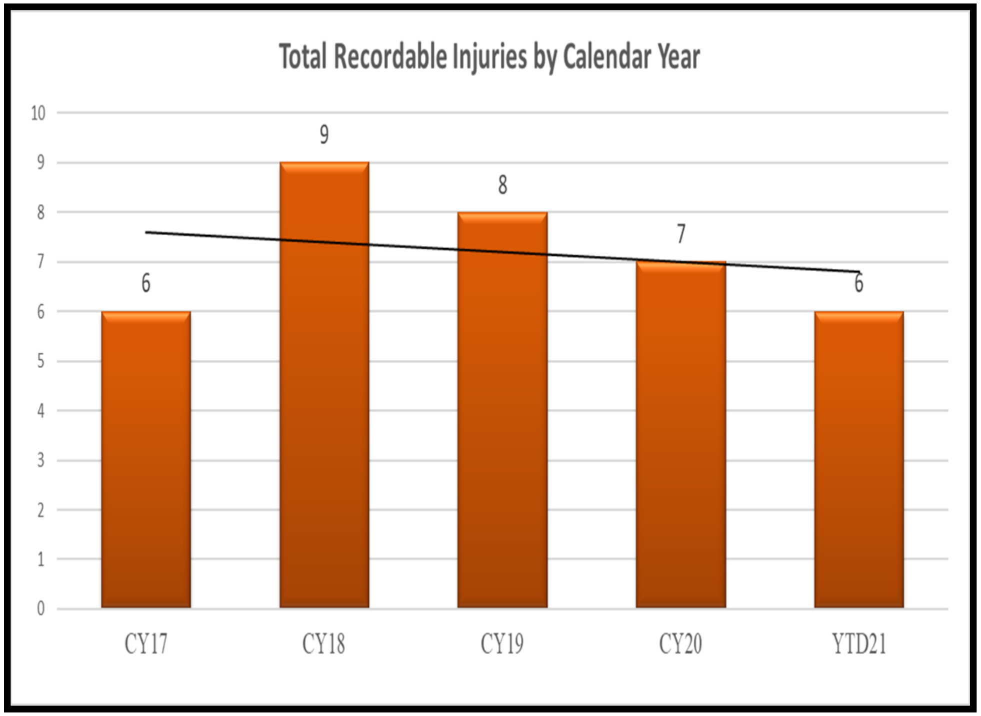
Scott Lening

Deputy Manager of Operations

July/August 2021

IEUA Incident Rates vs. Industry & Total Recordable Injuries





* Estimated incident rate based on past June hours worked

Compliance, Inspections, and Tours

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

RP-1 Tour Samples

RP-1 Capital Projects

- Mechanical Restoration
- SCADA Migration

RP-1 Placing Clarifier Online

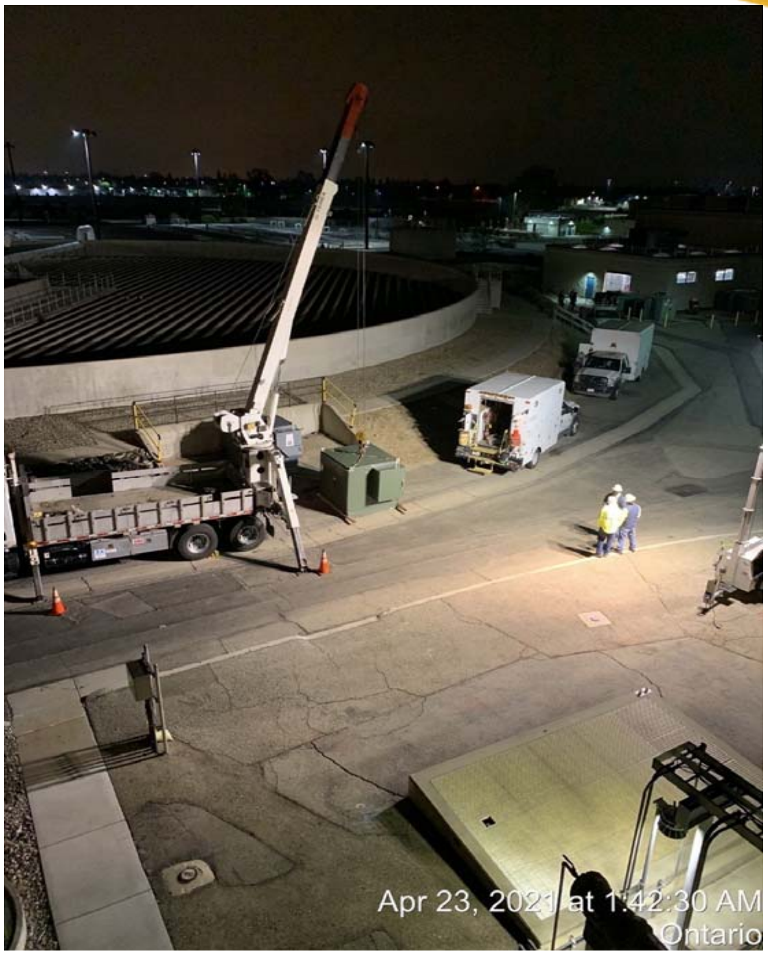
RP-4 Capital Projects

- Aeration Basin Rehabilitation
- Process Improvements

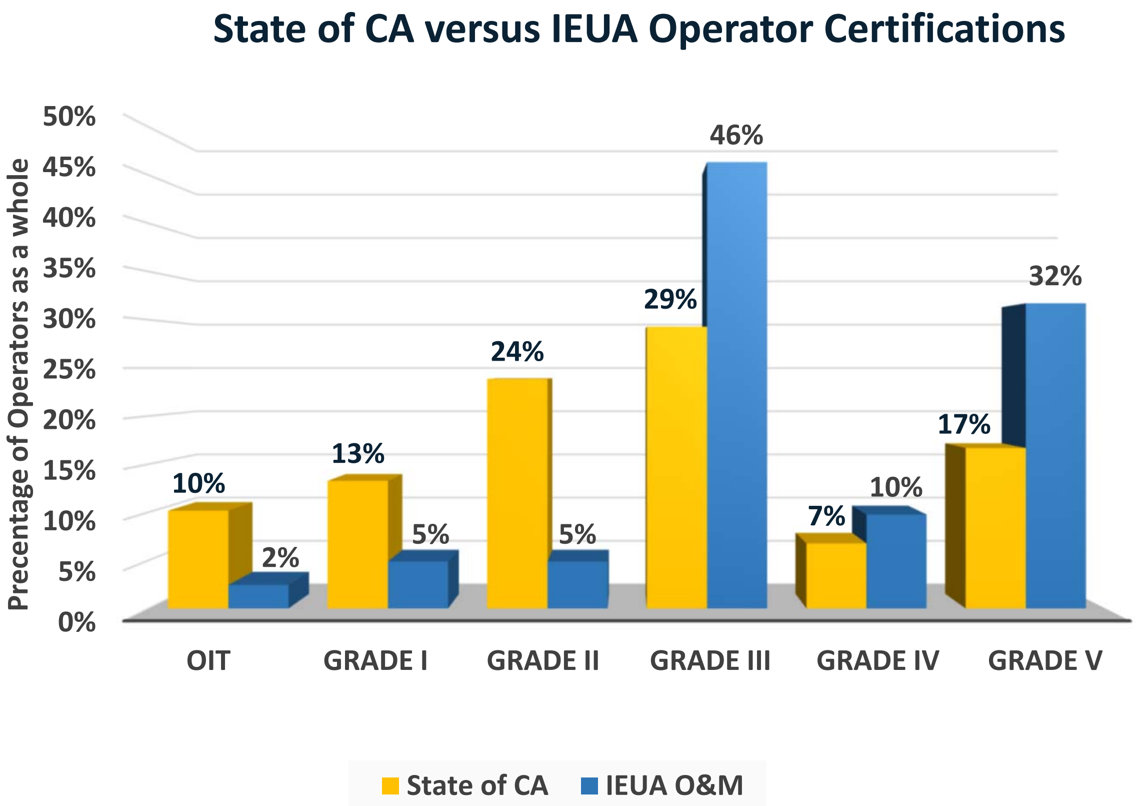
RP-4 Secondary Weir Covers

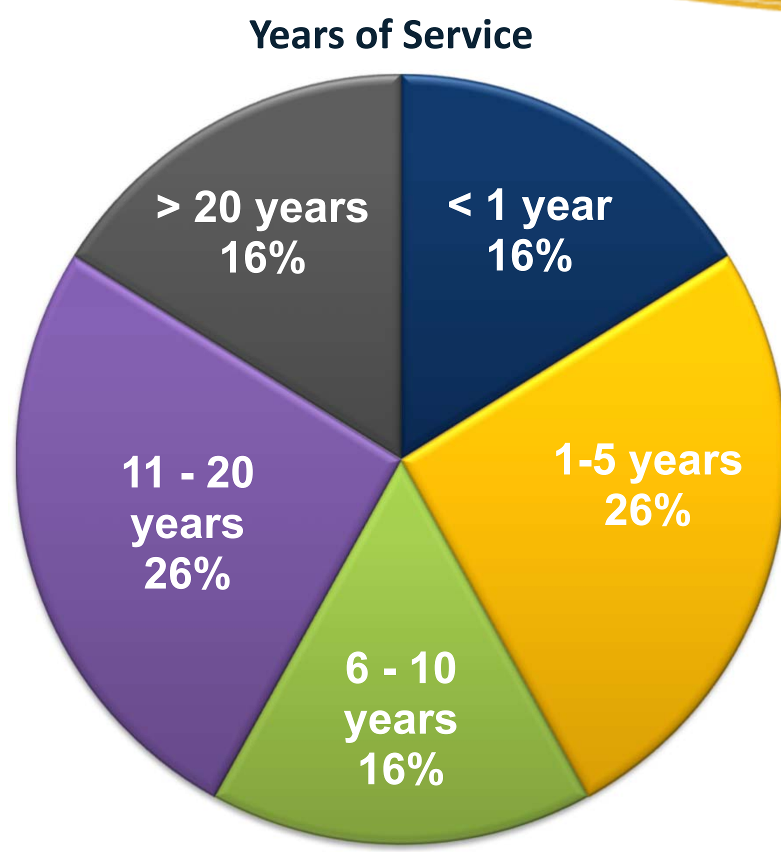
Operations and Maintenance Projects

- RP-4 Power Pole Replacement
- PME Switch Installation



Certification Summary





RECEIVE AND FILE

4B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: June 16, 2021

To: The Honorable Board of Directors **From:** Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources *06/09/21*

Executive Contact: Randy Lee, Executive Manager of Operations/AGM

Subject: 2021 Sewer System Management Plan Audit Report Update

Executive Summary:

In 2006, the State Water Resources Control Board adopted Order No. 2006-0003. The Order requires entities that own or operate sanitary sewer systems of more than one mile of pipes and sewer lines, referred to as Enrollees, to develop and maintain a Sewer System Management Plan (SSMP). The goal of the plan is to reduce the number and severity of Sanitary Sewer Overflows. The Order required that the SSMP be adopted by the enrollee's governing board, updated every five years, and internally audited every two years.

The Agency's Board of Directors adopted and certified the Agency's first SSMP in 2009. In 2019, staff completed the most recent biannual internal audit and the five-year update. In March 2021, Agency staff completed the biannual internal audit to comply with the terms of the Order. The findings and recommendations resulting from the audit are attached with this Board letter and will be utilized to update future SSMP.

Agency Department and Executive Managers have been briefed on the findings in the 2021 SSMP Audit Report and the report has been certified by the Legally Responsible Official, Randy Lee, Executive Manager of Operations/AGM.

Staff's Recommendation:

This 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:

Not Applicable

Fiscal Impact (explain if not budgeted):

Not Applicable

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

- - -

Prior Board Action:

On April 15, 2009, the Board of Directors approved the IEUA Sewer System Management Plan (SSMP).

On April 17, 2019, the Board of Directors adopted Resolution No. 2019-4-4, approving the Sewer System Management Plan (SSMP).

Environmental Determination:

Not Applicable

Business Goal:

The 2021 SSMP Audit Report Update, is consistent with the IEUA's Business Goal of Wastewater Management, specifically the Asset Management objective that IEUA will ensure the regional sewer system and treatment facilities are well maintained, upgraded to meet evolving requirements, sustainability managed, and can accommodate changes in regional water use.

Attachments:

Attachment 1 - PowerPoint Presentation
Attachment 2 - 2021 SSMP Biannual Audit Report

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

2021 Sewer System Management Plan (SSMP) Audit Report

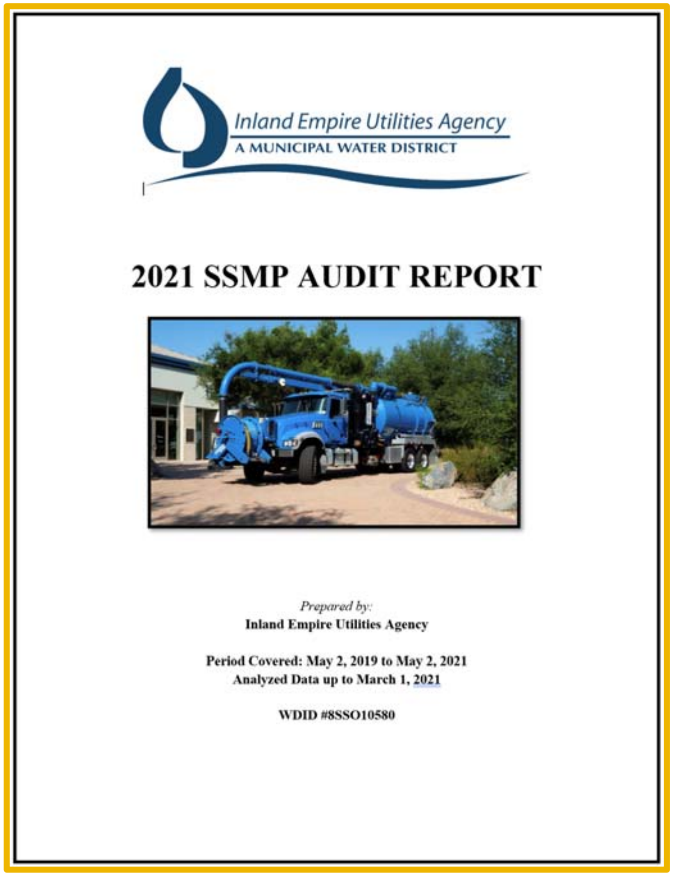
Lucia Diaz

Deputy Manager of Maintenance

June 2021

2021 SSMP Audit

- In 2006, State Water Resources Control Board adopted an Order that requires:
  - —Owners of wastewater collection systems must have a SSMP in place
  - —Adopted by its governing board
  - —Updated every five years
  - —Self-audited every two years
- Goal of the SSMP
  - —Reduce sanitary sewer overflows


Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

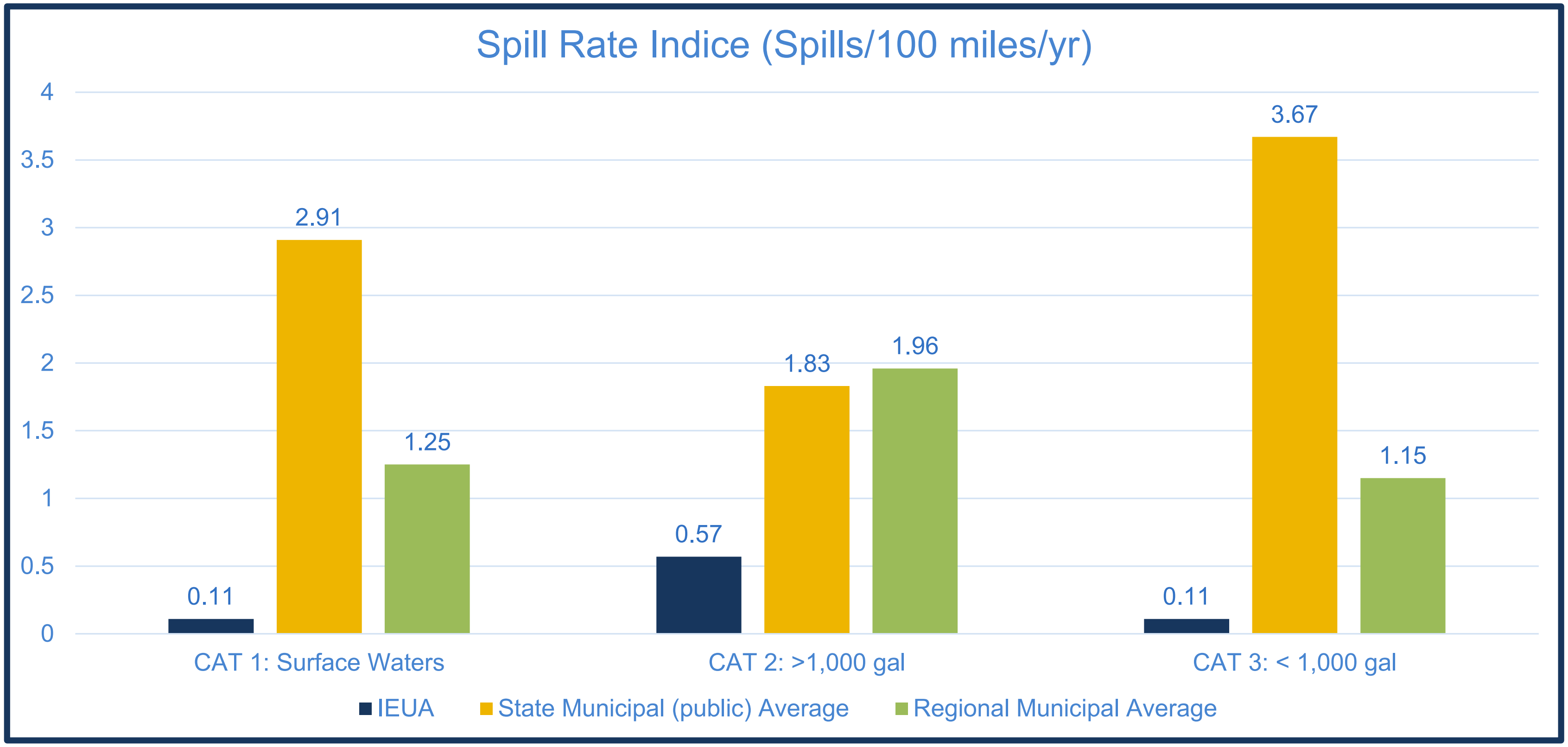
2021 SSMP AUDIT REPORT

Prepared by:
Inland Empire Utilities Agency

Period Covered: May 2, 2019 to May 2, 2021
Analyzed Data up to March 1, 2021

WDID #8SSO10580

SSMP Effectiveness



2021 SSMP Audit Process

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Internal Audit Team

Name	Position
Teresa Velarde	Manager of Internal Audit
Julio Im	Senior Associate Engineer
Kenneth Monfore	Manager of Asset Management
Lucia Diaz	Deputy Manager Maintenance
Daniel Dyer	Collection System Supervisor

The 2021 SSMP Audit:

- From May 2019 to March 2021
- All 11 elements and appendices
- Assigned sufficiency rankings
- Documents:
  - —Deficiencies
  - —Necessary corrective actions

2021 SSMP Audit

Scoring and Ranking System

Scoring Range	Ranking
3.60 – 4.00	A – Well Above Average
2.60 – 3.59	B – Above Average
1.60 – 2.59	C – Average
0.60 – 1.59	D – Below Average
0.00 – 0.59	F – Not in Compliance

Ranking and Scoring Results

SSMP Elements		2021	
		Ranking	Score
1	Goals	B	3
2	Organization	B	3
3	Legal Authority	A	4
4	Operations & Maintenance	B	3
5	Design & Performance	A	4
6	OERP*	B	3
7	Fat, Oil, Grease	A	4
8	SECAP**	A	4
9	MMPM***	A	4
10	SSMP Audits	A	4
11	Communication	B	3
Overall		**B**	**3.55**

*OERP: Overflow Emergency Response Plan
**SECAP: System Evaluation & Capacity Assurance Plan
***MMPM: Monitoring, Measurement, and Program Modifications

Overall Effectiveness Evaluation

IEUA's Overall Effectiveness is Improving

Overall Effectiveness Evaluation	2019		2021	
	Ranking	Score	Ranking	Score
1. Element Sufficiency Rankings	C	2.27	B	3.55
2. Meeting Agency's Goals	B	3.00	B	3.37
3. Attaining California State Goals	B	3.33	B	3.33
Overall	**B**	**2.87**	**B**	**3.42**

Areas of Improvement

- Element 7 and 11
  - — Fats, Oils, Grease (FOG) Control Plan and Communication Program
    - External Affairs partnership with Sewer Collections Team
    - Social media awareness
- Element 9
  - —Monitoring, Measurement, and Program Modifications
    - SmartCover units to monitor the system
      - —Sewer Collections added 14 SmartCovers within the last audit period, with 10 more by the end of the fiscal year.

Questions?

The 2021 SSMP Audit Report Update, is consistent with the IEUA's Business Goal of Wastewater Management, specifically the Asset Management objective that IEUA will ensure the regional sewer system and treatment facilities are well maintained, upgraded to meet evolving requirements, sustainability managed, and can accommodate changes in regional water use.

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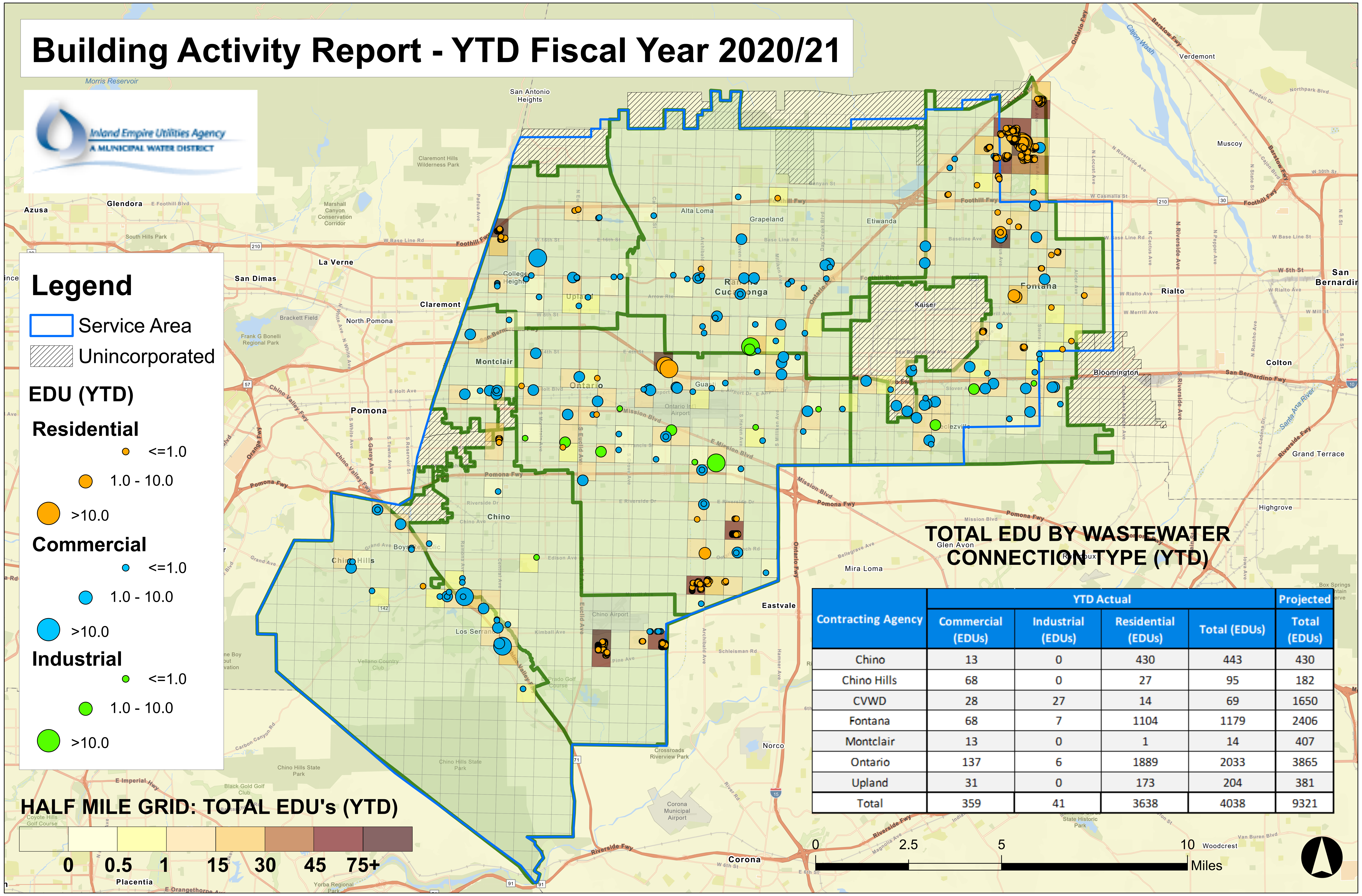
4C

Building Activity Report - YTD Fiscal Year 2020/21

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT



Legend

- Service Area
- Unincorporated

EDU (YTD)

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

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

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

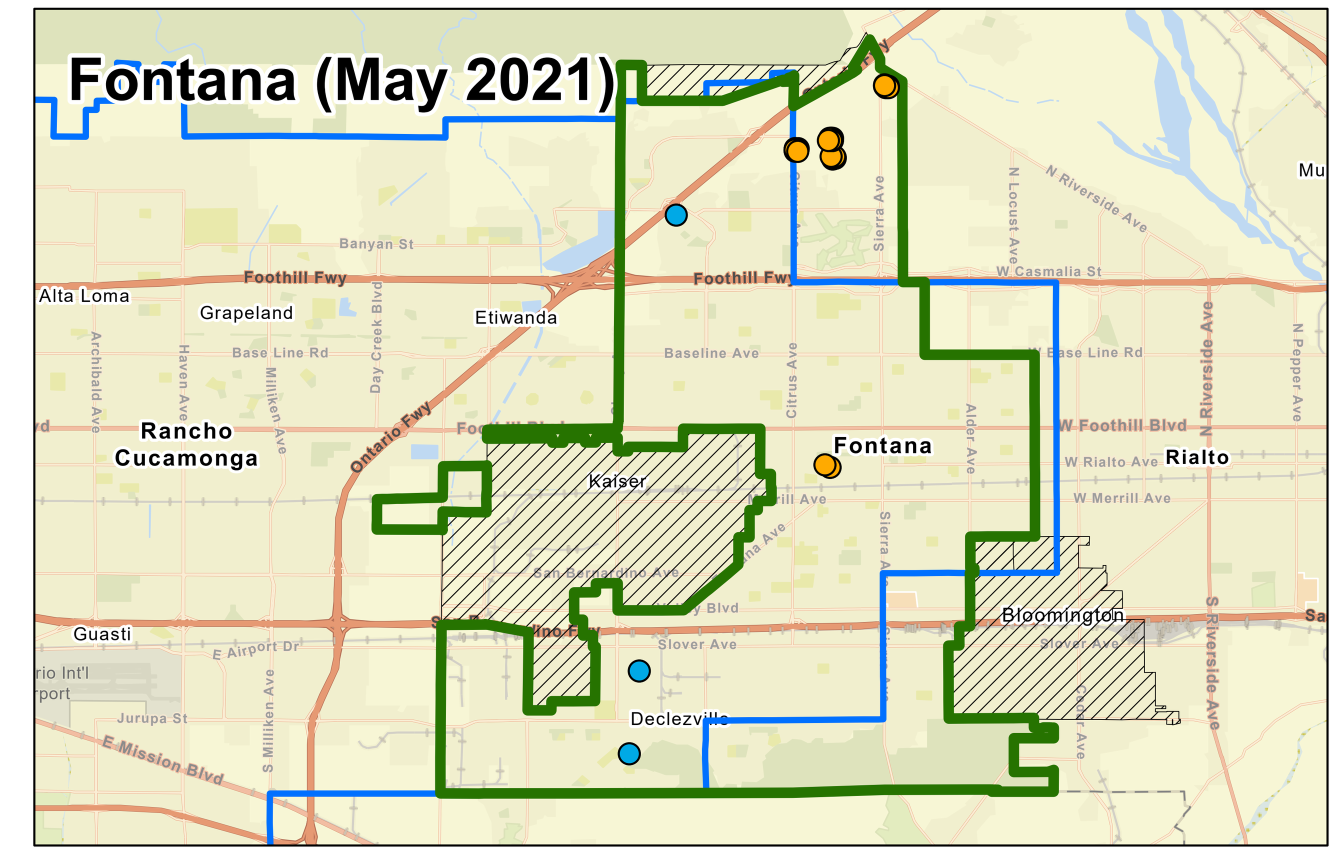
HALF MILE GRID: TOTAL EDU's (YTD)

0 0.5 1 15 30 45 75+

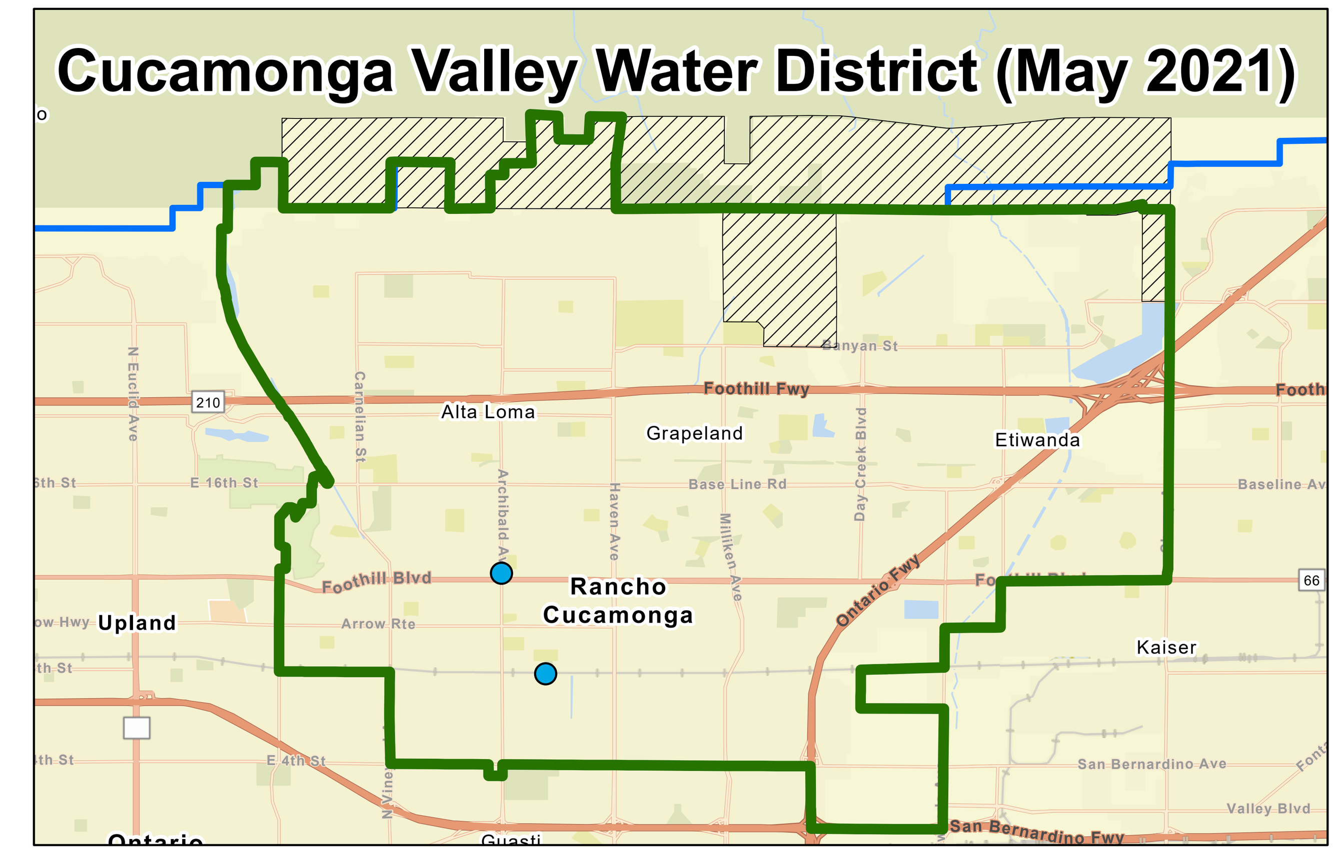
TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

Contracting Agency	YTD Actual				Projected
	Commercial (EDUs)	Industrial (EDUs)	Residential (EDUs)	Total (EDUs)	Total (EDUs)
Chino	13	0	430	443	430
Chino Hills	68	0	27	95	182
CVWD	28	27	14	69	1650
Fontana	68	7	1104	1179	2406
Montclair	13	0	1	14	407
Ontario	137	6	1889	2033	3865
Upland	31	0	173	204	381
Total	359	41	3638	4038	9321

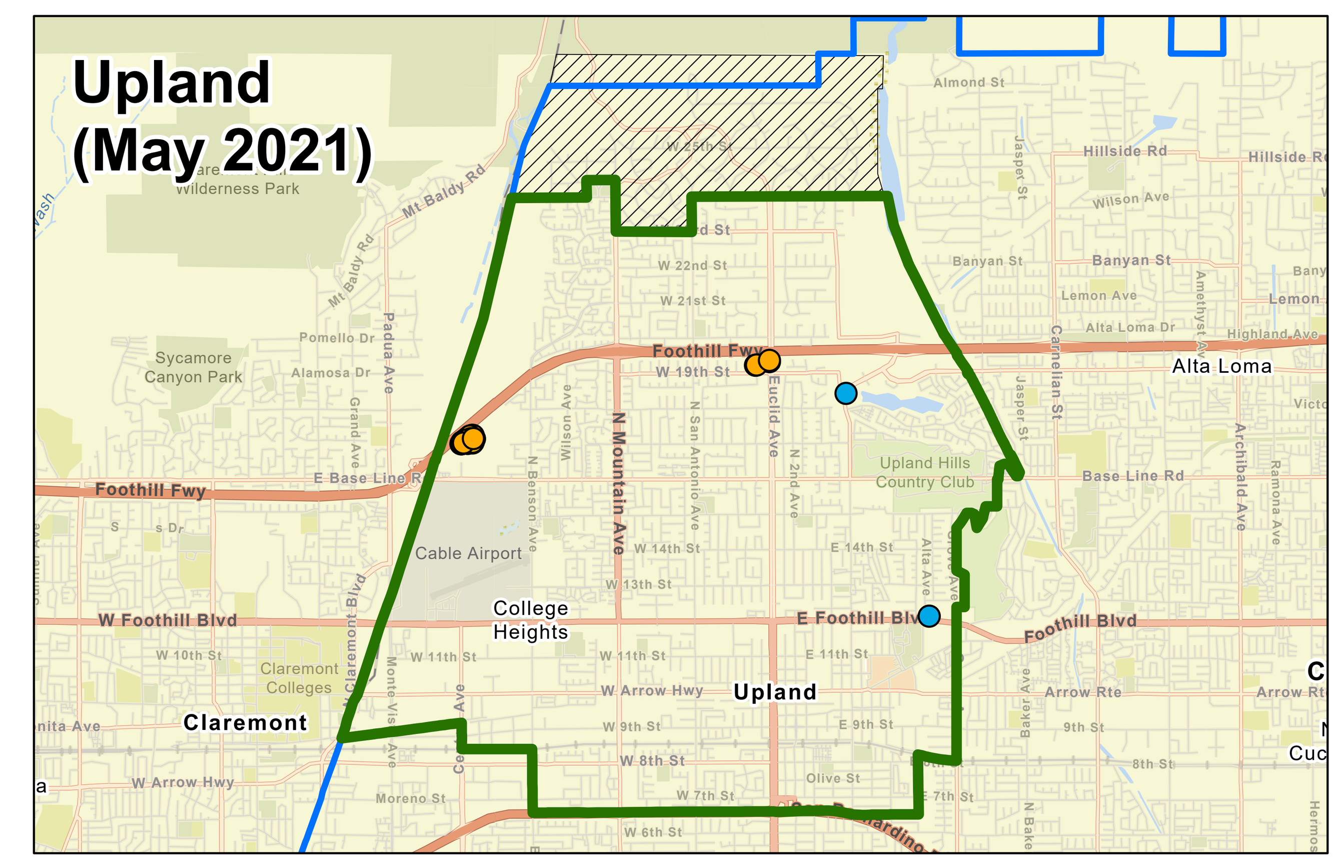
0 2.5 5 10 Miles



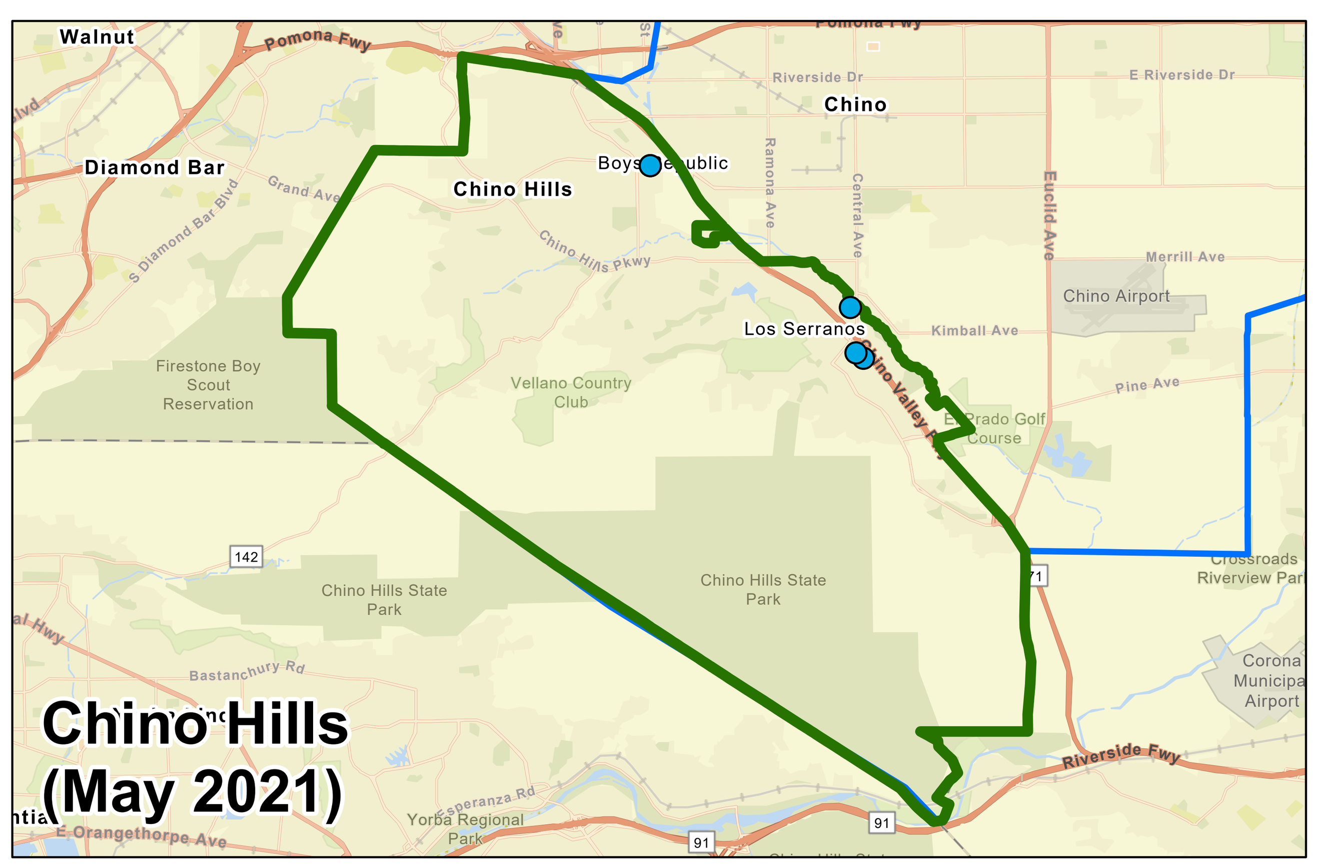
Fontana (May 2021)



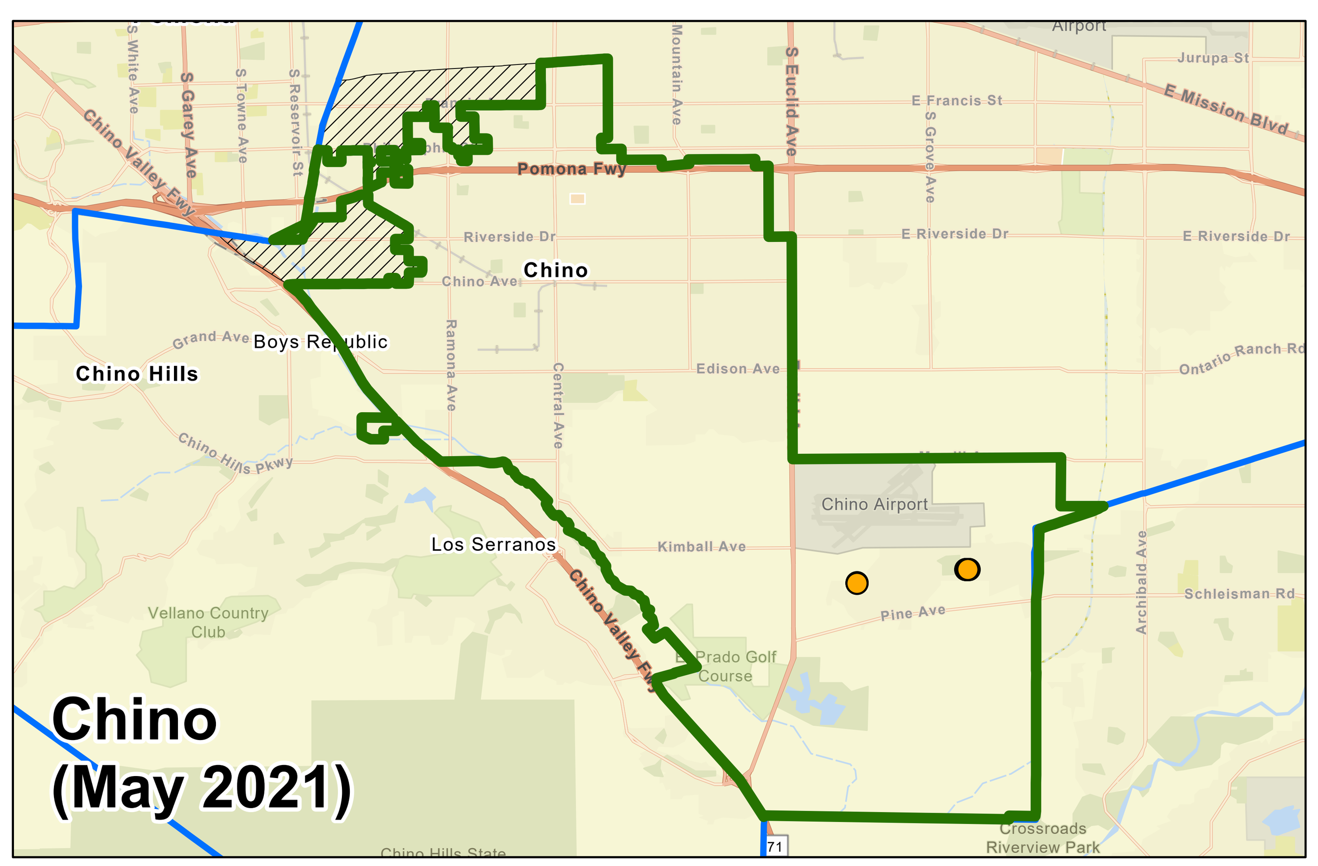
Cucamonga Valley Water District (May 2021)



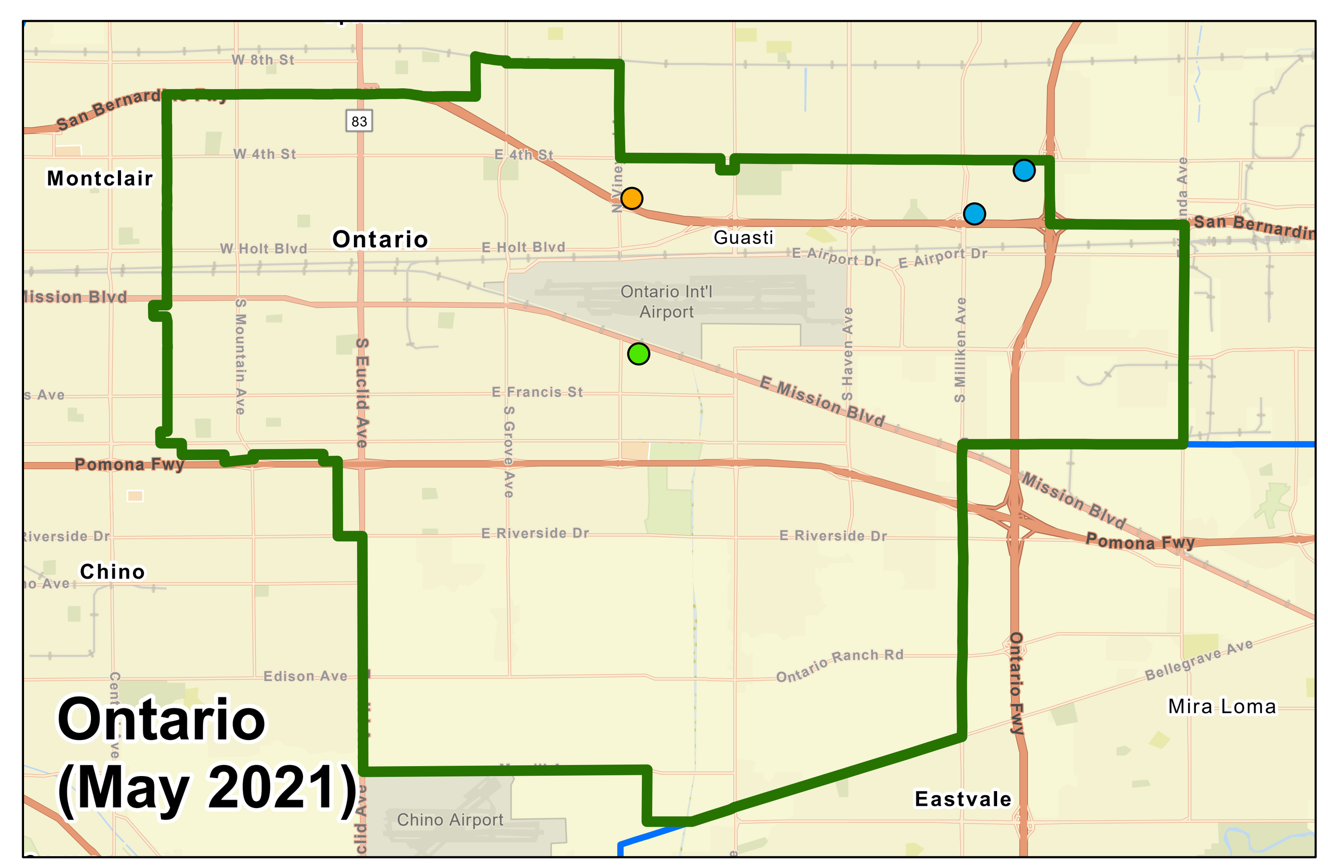
Upland (May 2021)



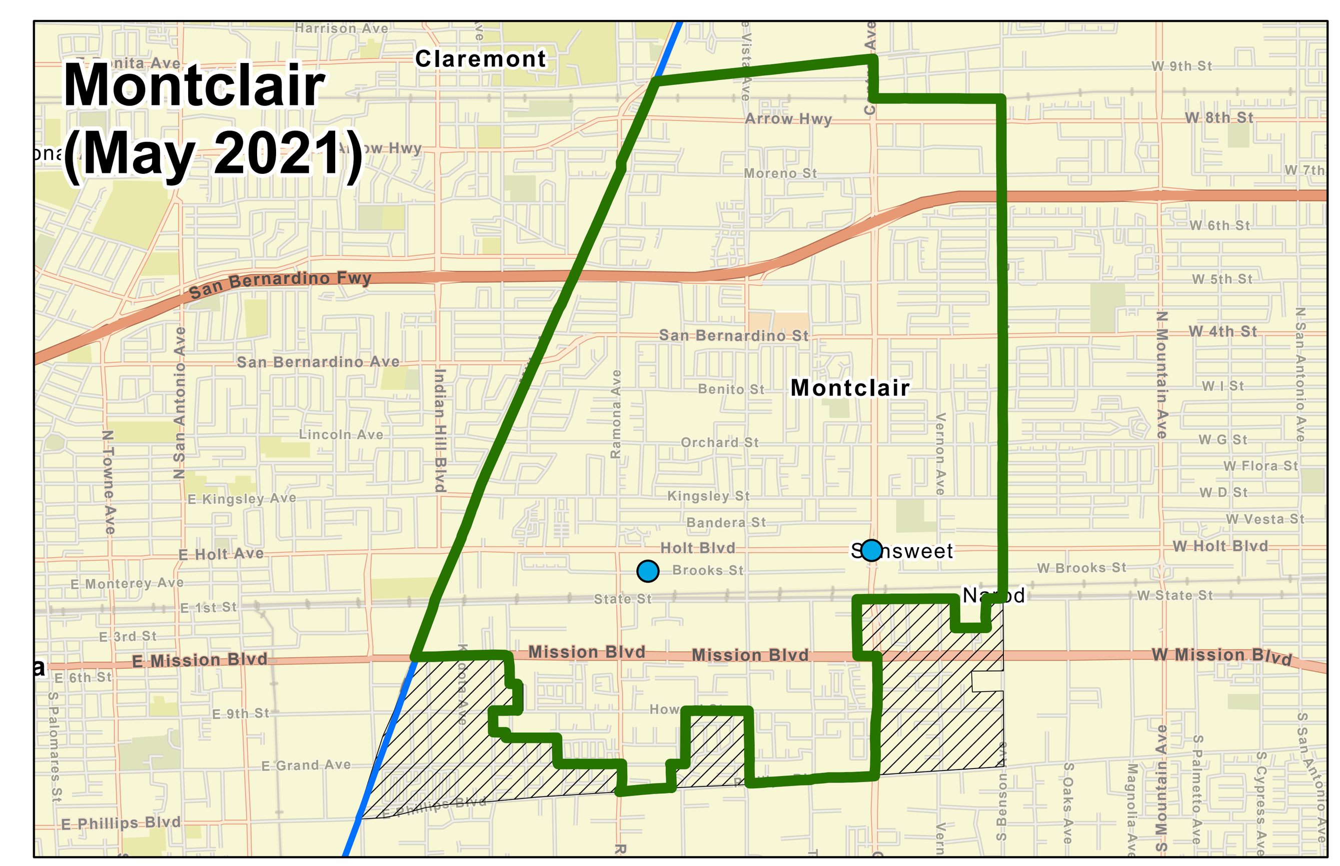
Chino Hills (May 2021)



Chino (May 2021)



Ontario (May 2021)



Montclair (May 2021)

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4D

IEUA RECYCLED WATER DISTRIBUTION – JUNE 2021

TOTAL ALL PLANTS

Influent: 49.9 MGD
Delivered: 38.0 MGD
Percent Delivered: 76%

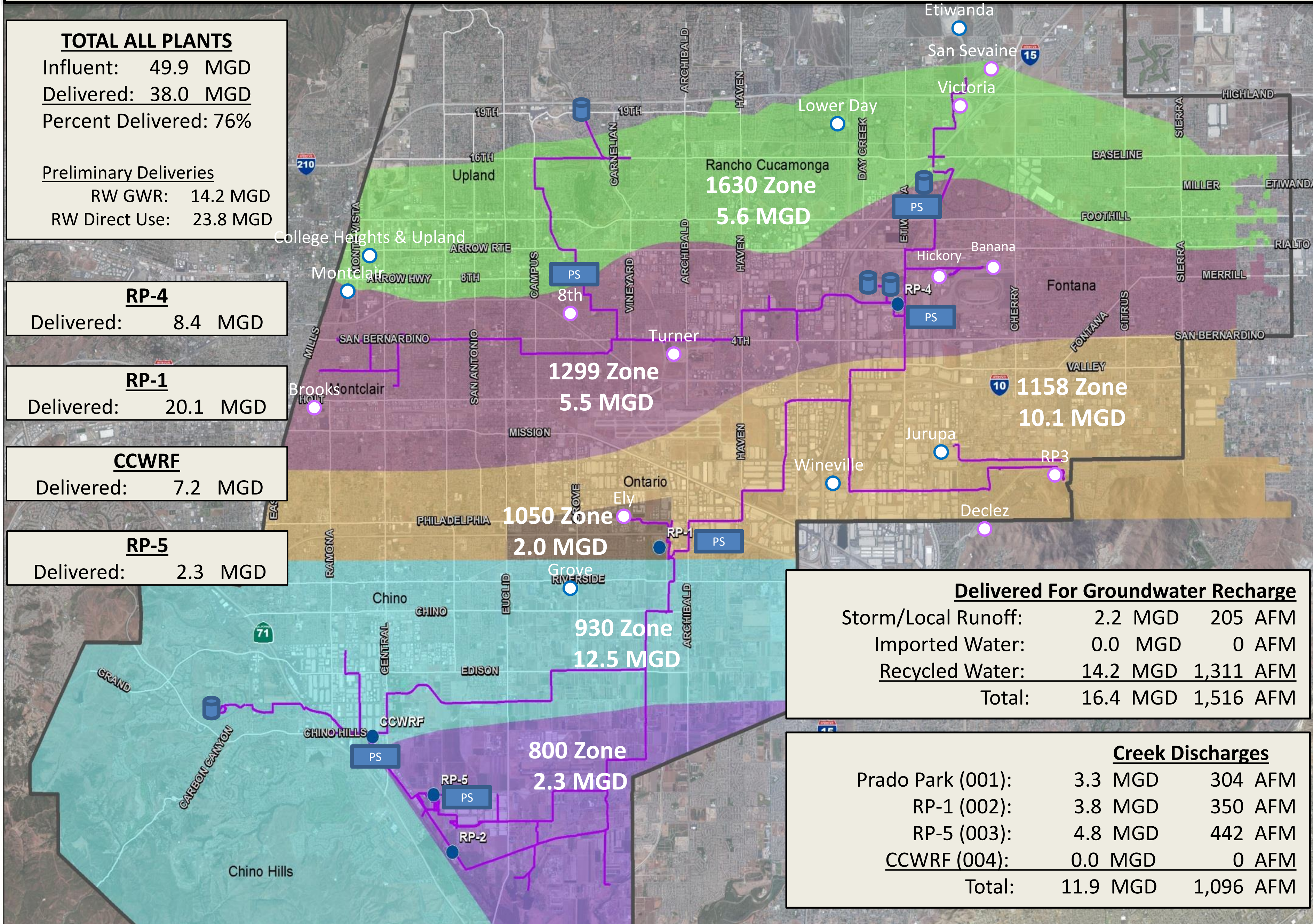
Preliminary Deliveries
RW GWR: 14.2 MGD
RW Direct Use: 23.8 MGD

RP-4
Delivered: 8.4 MGD

RP-1
Delivered: 20.1 MGD

CCWRF
Delivered: 7.2 MGD

RP-5
Delivered: 2.3 MGD



Delivered For Groundwater Recharge

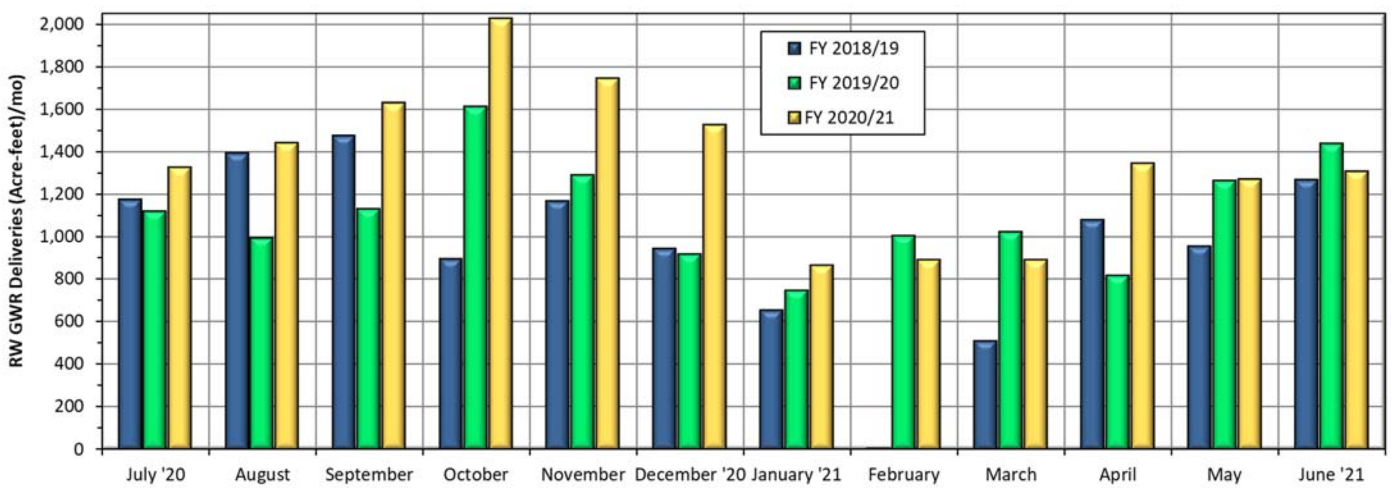
Storm/Local Runoff:	2.2 MGD	205 AFM
Imported Water:	0.0 MGD	0 AFM
Recycled Water:	14.2 MGD	1,311 AFM
Total:	16.4 MGD	1,516 AFM

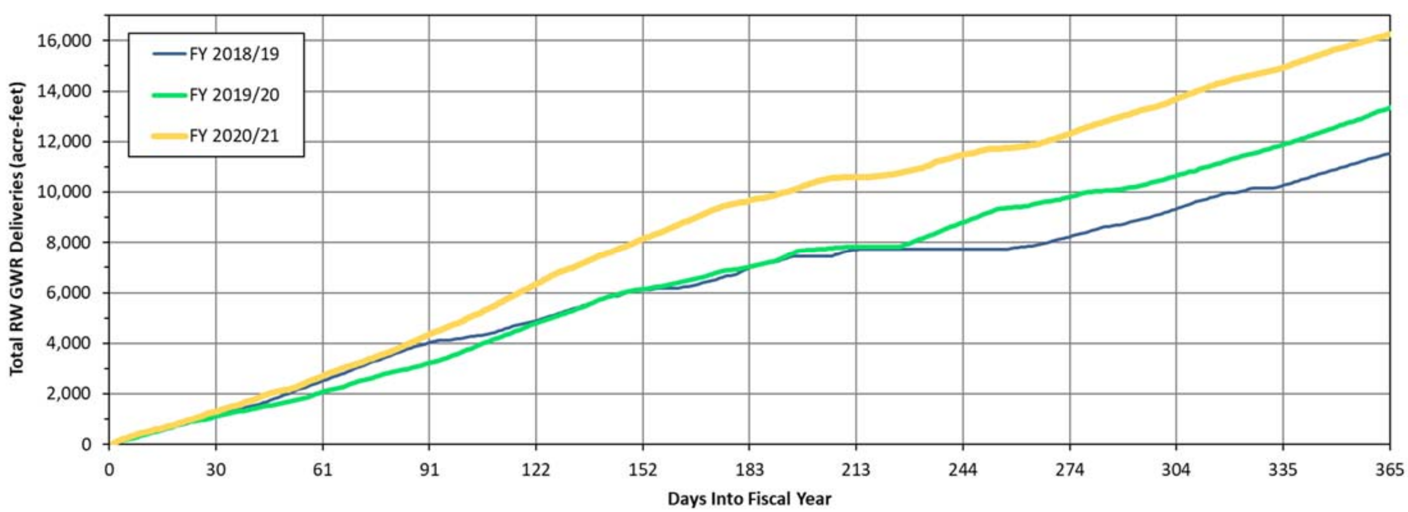
Creek Discharges

Prado Park (001):	3.3 MGD	304 AFM
RP-1 (002):	3.8 MGD	350 AFM
RP-5 (003):	4.8 MGD	442 AFM
CCWRF (004):	0.0 MGD	0 AFM
Total:	11.9 MGD	1,096 AFM

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

Basin	6/1-6/5	6/6-6/12	6/13-6/19	6/20-6/26	6/27-6/30	Month Actual	FY To Date Actual	Deliveries are draft until reported as final and do not included evaporative losses.	
Ely	39.8	45.5	43.7	36.2	24.6	189.8	1231		
Banana	22.0	33.5	33.7	6.7	2.1	98.0	869		
Hickory	0.0	0.0	0.0	0.0	0.0	0.0	245		
Turner 1 & 2	0.0	0.0	0.0	0.0	0.0	0.0	576		
Turner 3 & 4	0.0	3.6	0.0	0.0	0.0	3.6			
8th Street	0.0	0.0	0.0	0.0	0.0	0.0	767		
Brooks	0.0	0.0	0.0	31.8	23.7	55.5	968		
RP3	84.8	120.3	100.3	104.1	62.5	472.0	6876		
Declez	27.6	40.4	24.2	38.0	22.4	152.6	961		
Victoria	0.0	0.0	0.0	0.0	0.0	0.0	1044		
San Sevaine	79.6	86.8	82.3	67.2	23.1	339.0	2717		
Total	253.8	330.1	284.2	284.0	158.4	1,310.5	16,252.8	13,381	AF previous FY to day actual





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Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: August 5, 2021

To: Regional Policy Committee

From: Inland Empire Utilities Agency SSD

Subject: Wastewater Connection Fee Rates

RECOMMENDATION

This is an information item for the Policy Committee members.

BACKGROUND

At the May 6, 2021 Regional Policy Committee meeting, Committee Member Dutrey requested additional information on the Agency's wastewater connection fee. Attached are documents related to the wastewater connection fee studies:

1. 2015 Wastewater Connection fee report (IEUA Wastewater Connection Fee Report – 04-10-2015 Final)
2. BIA Peer Review of 2015 Wastewater Connection Fee (BIA-IEUA letter 3-31-15)
3. *Draft* version of the Wastewater Connection fee report dated August 2019 (2019 *Draft* Wastewater Connection Fee Report). Study was put on hold pending completion of the Return to Sewer Study.
4. Presentation from the second Rate Workshop held on May 2, 2019 (IEUA workshop #2 – 5-2-2019).

The 2015 Wastewater Connection fee report provides a comprehensive overview of the methodology and assumptions applied to calculate the Agency's wastewater connection fee. As noted in the report, varying factors affect the calculation, including: Replacement Asset Value, Construction in Progress, Growth Projections, Funding Sources, etc. For the Agency, a hybrid approach (a combination of System-Buy-In and Incremental Cost Approach) was deemed most appropriate as it accounts for the Agency's investment in existing assets and new assets (expansions/improvements) needed to meet future growth.

The wastewater connection fee of $6,289 per equivalent dwelling unit (EDU) (page 19) determined by the 2015 Rate Study was reduced to $5,415/EDU following discussions with BIA. This negotiated fee was the basis for the fees adopted for fiscal years 2015/16 – 2019/20. As planned, an updated rate study was initiated in 2019. However, as previously reported to the Regional

Policy and Technical Committee, the study was put on hold to allow for completion of a Return to Sewer Study currently underway.

Attachment 1

Inland Empire Utilities Agency

2015 Wastewater Connection Fee Update

FINAL REPORT

April 10, 2015

3150 BRISTOL STREET, SUITE 500 • COSTA MESA, CALIFORNIA 92626 • P. 714.593.5100 • F. 714.593.5101

Inland Empire Utilities Agency

2015 Wastewater Connection Fee Update

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1.0 INTRODUCTION

The Inland Empire Utilities Agency (IEUA or Agency) is a public agency serving the Inland Empire region as a regional wastewater agency, as well as a wholesale supplier of imported and recycled water. In April 2014, the Agency contracted with Carollo Engineers, Inc. to conduct a Connection Fee Study for the regional wastewater and water systems. This report specifically addresses the wastewater connection fees.

The connection fee study builds on the Agency's other planning efforts that are currently being developed. These efforts include the following:

- Integrated Resources Planning
- Recycled Water Program Strategy
- Recharge Plan Update
- Facilities Master Plan
- Energy Management Plan
- Asset Management Plan
- Long Range Plan of Finance
- Connection Fee/Rate Study

IEUA currently imposes Wastewater capacity fees of $5,107 per equivalent dwelling unit. The objective of the connection fee study is to update the wastewater connection fees as appropriate based on current system values and proposed capital improvements; and to develop a new connection fee for the Agency's water system. In order to determine conformance with industry standards and principles, legal requirements, and the Agency Board policy, the following criteria were used in evaluating the validity of the connection fee process:

- Do the connection fees represent a reasonable nexus to the costs incurred by the Agency on behalf of future customers and the benefits received?
- Is the allocation approach consistent with industry practices and California Government Code §54999.7 and §66013?
- Is it likely that the allocation approach will be appropriate for use by the Agency in the future?

The connection fee analysis is based upon a point in time calculation based on the FY 2012/13 Fixed Asset Schedule, current IEUA Ten Year Capital Improvement Plan (CIP), projected flows, and other Agency Data. This report presents Carollo's findings and proposed adjustments to the existing Connection Fees.

2.0 BACKGROUND

2.1 Regional Wastewater System

IEUA's regional wastewater system provides collection, treatment, and disposal of municipal wastewater for the residents and businesses within its service area. The seven member agencies within IEUA's wastewater treatment service area include the City of Chino, the City of Chino Hills, Cucamonga Valley Water District, the City of Fontana, the City of Montclair, the City of Ontario, and the City of Upland. In all, IEUA's wastewater system serves nearly 850,000 residents in a 242 square mile area of western San Bernardino County, and treats an average of 56 million gallons of wastewater per day.

2.1.1 Wastewater Collections

The regional collection system transports wastewater from the member agencies to IEUA's wastewater treatment facilities. The major assets of the collection system includes 94 miles of wastewater interceptor pipes, 72 miles of non-reclaimable wastewater pipes, and four wastewater lift stations. Other collection system assets include manholes, SCADA systems, and various auxiliary equipment.

2.1.2 Wastewater Treatment

IEUA owns, operates, and maintains five wastewater treatment plants located throughout the service area. The plants are interconnected via the regional collections system bypass pipelines. Table 2.1 provides a brief description of each plant.

Table 2.1 Treatment Facilities

Plant		Location	Treatment Processes	Notes
Carbon Canyon Water Recycling Facility	CCWRF	Chino	Primary, Secondary, Tertiary	Solids conveyed to RP-2 for treatment
Regional Water Recycling Plant #1	RP-1	Ontario	Primary, Secondary, Tertiary, Solids	
Regional Water Recycling Plant #2	RP-2	Chino	Solids Treatment Only	Liquids removed during solids processing are conveyed to RP-5
Regional Water Recycling Plant #4	RP-4	Rancho Cucamonga	Primary, Secondary, Tertiary	Solids conveyed to RP-1 for treatment

Table 2.1 Treatment Facilities				
Plant		**Location**	**Treatment Processes**	**Notes**
Regional Water Recycling Plant #5	RP-5	Chino	Primary, Secondary, Tertiary	Solids conveyed to RP-2 for treatment

3.0 CONNECTION FEE OVERVIEW

Connection fees are a method by which local agencies can impose charges to offset the costs of new customers connecting to their water, wastewater, or other utility or infrastructure systems. Capacity fees are governed by California Government Code §66000, which provides a legal framework for the applicability, assessment, and imposition of capacity fees. There are various methods to calculate capacity fees; the most appropriate method for any system is dictated by the system's specific characteristics. The proposed capacity fees represent the maximum fees that the Agency can impose based on the calculations as discussed in this report.

3.1 Statutory Requirements

A connection fee that is levied on users of a wastewater utility is subject to the requirements of Chapter 13.7 (commencing with Section §54999) of Part 1 of Division 2 of Title 5 of the California Government Code relating to the imposition of charges on customers that are public agencies. Connection fees are also subject to the requirements of Government Code §66013. Connection fees are "charges for facilities in existence at the time the charge is imposed or charges for new facilities to be constructed in the future, which are of benefit to the person or property being charged." Section §66013 provides that connection fees "shall not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed." Section §54999.7 establishes a similar cost-of-service requirement. As determined by *Richmond v. Shasta Community Services Dist. (2004) 32 Cal. 4th 409*, Connection fees are not subject to the provisions of California Constitution article XIII D (Proposition 218). A connection fee is imposed on new connections in order to recover a fair and equitable share of the costs of capacity within the utility facilities. A key tenet in adopting these connection fees is: "growth pays for growth." This means that the costs associated with building excess capacity to serve new customers ultimately should be borne by those new users who benefit from this available capacity.

3.2 Connection Fee Methodologies

Two general types of connection fees are used to recover system investments from new users. They are the System Buy-In Approach and the Incremental Cost Approach. Additionally, utilities can elect to use a Hybrid Approach that combines the Buy-In and Incremental Approaches. While all are valid, the best approach is dictated by each system's specific characteristics.

3.2.1 Buy-In Approach

Utilities often construct infrastructure capacity to meet projected future demands. The purpose of the Buy-In approach is to recover costs that have already been incurred by the Agency. Existing customers have paid for this system over time through their user rates and fees (through direct capital financing or retired debt). The Buy-In approach provides a mechanism to reimburse existing system users for the carrying costs of constructing system capacity that is available to be used by future users. In this sense, the Buy-In approach segregates the existing system value into costs for existing customers and costs for future users.

There are further considerations when calculating the Buy-In approach. Given that the existing system was constructed over time, the original cost of constructing the system neither accurately reflects the current value of that system nor the cost to construct the facilities today. Consequently, original costs were escalated to Fiscal Year 2014/15 dollars using Engineering News Records Construction Cost Index (ENR-CCI). The Agency's FY 2012/13 fixed asset records were used as the basis for this analysis, which included original costs, acquisition dates, and estimated useful lives.

Replacement costs alone might not be the best estimate of system value, because system assets have a finite lifespan and must be replaced and/or rehabilitated in time. The Agency adjusts the existing cost basis by deducting straight-line depreciation. Accumulated depreciation is determined by dividing the age of each asset by the projected useful life and reducing the asset value by that percentage. By accounting for accumulated depreciation in the Buy-In cost approach, the Agency may recover a proportionate value of capital improvements that will replace depreciated assets or will be undertaken to extend the useful lives of these assets through the future cost component of the connection fee.

The Buy-In approach should not include costs of assets that were grant-funded or donated assets and should only include those costs incurred by the Agency ratepayers for the development of the existing system, which includes the accumulation of fund reserves as well as expenses associated with construction in progress.

Finally, in the calculation of the Buy-In approach, the existing system value is segregated into the portions for existing customers and future users. This is achieved by determining the approximate share of each asset that benefits existing customers and the share that is available to benefit future users. This is calculated on a percentage of capacity basis for major unit processes like primary treatment, secondary treatment, and tertiary treatment and on an average basis for all other assets.

The Buy-In approach divides the value of the existing system available to serve future users by the total number of future users that are expected to benefit from the system in order to calculate the connection fee.

$$\textit{Buy In Connection Fee} = \frac{\textit{Value of the Available System}}{\textit{Expected Future Users}}$$

3.2.2 Incremental Approach

The Incremental approach recovers the cost in present value (2014/15) dollars of the Agency's planned investments that it will undertake to add to serve future development. Projects included in the Agency's capital improvement program have two primary purposes – maintain reliability of existing infrastructure; and increase system capacity. In the Incremental approach, the future system value is segregated between those two purposes. The costs of each project is associated in some percentage to either or both of these purposes. This is achieved by determining the approximate portion of each asset that benefits either existing customers or future users. In the incremental approach, the current value of planned capital improvements that will serve future users through the Agency's planning horizon of 2035 is divided by the expected number of future users through 2035.

The future cost basis accounts for capacity related improvements that will be constructed through 2035. The costs of these improvements are estimated in present value terms (2014/15 dollars). Costs are fairly and reasonably spread over all future users by dividing the total system value by the total number of future users that are projected to receive wastewater service by 2035.

$$\textit{Incremental Capacity Fee} = \frac{\textit{Capacity Related CIP}}{\textit{Expected Future Users}}$$

3.2.3 Hybrid Connection Fee Approach

The Hybrid (Combined) Approach combines the Buy-In and Incremental approaches. Current system value is added to the costs of capacity related capital projects, and divided by the expected future customers.

$$\textit{Hybrid Connection Fee} =$$

$$\frac{\textit{Value of the Available System}}{\textit{Expected Future Users}} + \frac{\textit{Capacity Related CIP}}{\textit{Expected Future Users}}$$

3.2.4 Recommended Approach

Based on the characteristics of the Agency's wastewater system and discussion with Agency Staff, Carollo recommends that the hybrid approach be used for the calculation of the wastewater connection fee. IEUA's wastewater system holds available capacity that has been funded by existing users, which drives the need for a Buy-In component. Additionally, the CIP is designed to expand system capacity, calling for an incremental component. Using the hybrid approach establishes a nexus between the value of the existing and future system, and between the benefits of capital investments to existing customers and future users. The hybrid approach is commonly utilized by other agencies such as the comparable agencies of the City of Las Vegas, Sacramento Regional County Sanitation District, and the San Diego County Water Authority.

4.0 WASTEWATER CONNECTION FEES

In order to calculate the Hybrid connection fee for IEUA, based on the equation presented above, three separate steps must be taken as follows:

1. The Value of the Available System must be determined. This includes determining the value of the existing assets and then adjusting that value based on the share that is available to serve future users. However, this adjustment will be presented after the calculation of the existing system since the future users' share of the other components of the existing system (reserves and construction in progress costs) cannot be determined until the number of expected future users is determined. Similarly, the property tax credit received by connecting customers cannot be determined until the number of expected future users is determined.

2. The Capacity Related CIP, or synonymously the Value of the Future System, and the portion allocated to future users must be determined.

3. The Number of Expected Future Users must be determined.

The following sections of the report outline the process to determine each of these steps.

4.1 Value of Available System

In order to determine the Value of the Available System, the value of the existing system must be determined and must account for reserves, construction in progress a property tax credit, and the portion that is available for future users. This section presents the value of the existing system and the adjustments made for reserves, construction in progress, and property tax credit. A later section in the report shows how the value is adjusted to become the value of the available system.

4.1.1 <u>Net Capital Asset Equity</u>

Net capital asset equity represents the current value of the physical wastewater or water systems funded by existing ratepayers, less accumulated depreciation. This approach accounts for the fact that system assets have been in service and no longer have the full useful life. The terms related to the calculation of net capital asset equity are defined as shown below.

1. Replacement Cost New- Current value of the existing water or sewer system. Original costs are escalated to Fiscal Year 2014/15 dollars using Engineering News Record Construction Cost Index (ENR-CCI).

2. Capital Costs Not Funded by Existing Ratepayers- These include developer-funded assets and are excluded from the ratepayers' equity calculation.

3. Construction in Progress- capital projects currently under construction or recently completed, not captured in the Existing Plant-In-Service asset records.

4. Depreciation- Represents the loss in value of the system as the useful life of that asset is exhausted.

Throughout the remainder of this report, the value of the physical system will be referred to as Replacement Cost New Less Depreciation (RCNLD).

4.1.1.1 Valuation of Physical Assets

The RCNLD represents the value of each system's physical assets. The RCNLD for each system was calculated based on the Agency's Fixed Asset Schedule (physical asset records). The RCNLD of all Agency Fixed Assets are summed into different assigned asset groups. The cost of each asset in the wastewater group was then allocated between flow, BOD, and TSS according to its association with different unit processes in the treatment process. The different unit processes and distribution of costs associated with that process are presented in Table 4.1. The values in Table 4.1 are based on allocations among the billable constituents of flow, BOD, and TSS, based on design criteria for sizing each unit process. The derivations of these allocations are described in more detail in the first part of Appendix A (typed portion).

The second part of Appendix A (handwritten portion) explains how the allocations were made to the existing and future customers (growth) for each existing asset and capital project. The information in Appendix A is then used to allocate the existing assets. The result of this allocation is shown in Appendix B. This is a two-step process.

In the first step the assets are allocated on a unit process basis to the constituents of flow, BOD, and TSS, For example, the fifth asset listed in Appendix B is the RP-5 Aeration Basin. Since an aeration basin is an Activated Sludge process (also considered secondary treatment), the value of it is allocated 100% to BOD, as shown in Table 4.1.

In the second step, the assets are allocated to existing and future customers. Using the same RP-5 Aeration Basin from the first step, it has some existing capacity for future customers (growth), as described in the second part of Appendix A (see Appendix A, page 4 of 15 of the handwritten sheets – the aeration basin is a secondary treatment process and 33% of its capacity is for future customers (growth)).

This two-step process was used to allocate the value of each of the fixed assets in Appendix B.

Table 4.1 Unit Process Allocation			
Unit Process	**Flow**	**BOD**	**TSS**
Collection System	100%		
Preliminary Treatment	100%		
Primary Clarifiers	80%		20%
Activated Sludge		100%	
Secondary Clarifiers	80%	20%	
Tertiary Treatment	100%		
DAF Thickening (WAS)		100%	
Gravity Thickening (Primary Sludge)			100%
Anaerobic Digestion		45%	55%
Sludge Dewatering		45%	55%
Sludge Disposal		45%	55%

It should be noted that some assets cannot be easily classified into the unit processes listed in Table 4.1. For example, the cost of assets such as yard piping, odor control, and instrumentation that support the general function of the facility are otherwise unassignable to any specific unit process. For those assets, the weighted average of the allocation of all the other assets was used. The weighted average of the total asset allocations factors for flow, BOD, and TSS are presented in Table 4.2.

Table 4.2 Asset Allocation Factors	
Billable Constituent	**Allocation**
Flow	44%
BOD	34%
TSS	21%

The total RCNLD for the Agency's wastewater group assets and the total costs that have been allocated between flow, BOD, and TSS are presented in Table 4.3.

Table 4.3 Value of Fixed Assets			
Flow	**BOD**	**TSS**	**Total**
$276,273,054	$180,302,439	$114,170,620	$570,746,114

4.1.2 Value of Fixed Assets Available for Growth

As described above as the second step, the value of capacity in the existing system still available to serve future users (growth) for each existing asset is shown in Appendix B. Table 4.4 summarizes Appendix B by presenting the total RCNLD from Table 4.3 and the portion that is available to serve future users (growth). It also shows how the total value to serve future customers is broken down into each billable constituent of flow, BOD, and TSS.

Table 4.4 Value of Fixed Assets Available for Growth

Allocation	Flow	BOD	TSS	Total
Total Asset Value	$276,273,054	$180,302,439	$114,170,620	$570,746,114
Assets for Growth	$65,000,914	$50,002,336	$31,438,329	$146,441,580

4.1.3 Reserves

The fund balances at the beginning of FY 2014/15 in the Administrative Services Fund, Regional Wastewater Capital Improvement Fund, Non-Reclaimable Wastewater Fund, and the Regional Operations and Maintenance Fund collectively make up the Reserves component of the value of the existing wastewater system. Other funds, which have not been included within this wastewater connection fee calculation, are associated with either the water or recycled water systems. Table 4.5 presents the wastewater fund balances at the beginning of FY 2014/15. Only a portion of the Administrative Services Fund, proportionate to the percentage of all Fixed Assets that are associated with wastewater, is included in the value of the existing wastewater system. This portion of the Administrative Service Fund is included because it is an asset that future users benefit from that has already been paid for by existing users.

Table 4.5 Reserves

Fund	Balance
Administrative Services (GG)	$14,544,155
Non-Reclaimable Wastewater (NC)	4,502,755
Regional Wastewater Capital Improvement (RC)	60,856,307
Regional Operations and Maintenance (RO)	30,215,738
Total Wastewater (RO, NC, RC)	**$110,128,955**

Each reserve balance represents monetary value that a new user buys into when they join the system. Therefore, reserves are assets that are divided amongst both the existing customers and future users in the system. After estimating the number of future users in the system in a later section, the future users' share of the reserve balances can be calculated. The portion of the reserves that are allocated to the connection fees is based upon the ratio of the future users EDUs to total EDUs at the end of the planning period in 2035 (future users plus existing users). The Administrative Services Fund, Regional Wastewater Capital Improvement Fund, Non-

Reclaimable Wastewater Fund, and the Regional Operations and Maintenance Fund are all assets that benefit both existing customers and future wastewater users. Therefore, they are included in the value of the existing system as costs for which future users must reimburse existing customers.

4.1.4 Construction in Progress

The Agency's Construction in Progress are costs associated with the portion of Capital Improvement Plan projects that have been expensed. However, the projects are not yet recorded as Fixed Assets. These can include construction-in-progress projects as well as projects completed in a fiscal year. In this case we are concerned with projects from FY 2013/14 because they are projects that are not included in the fixed asset list described above and are also not included in the future capital projects, which will be described below. We have allocated these projects to growth and existing users on a project-by-project basis in the same fashion that the fixed assets were allocated. Table 4.6 below presents the results of these calculations. A listing of these projects is included at the end of Appendix B.

Table 4.6 Construction in Progress & Completed Projects FY 2013/14

Fund	Total Construction in Progress Costs ($ millions)	Costs Allocated To Growth ($ millions)	Costs Allocated to Existing Customers ($ millions)
Construction in Progress Projects in FY 13/14, Escalated	$13,395,388	$4,377,581	$9,017,807
Completed Projects in FY 13/14, Escalated	$14,754,564	$7,205,444	$7,549,120
Total Construction in Progress and Completed Projects in FY 13/14, Wastewater Fund, Escalated	**$28,149,952**	**$11,583,026**	**$16,566,926**

4.2 Value of Future System

4.2.1 Capital Projects

The value of the future system is determined by evaluating the capital investments that will add capacity to serve future users. As noted previously, IEUA has developed several planning documents to help determine the need for capital investments. These documents include Capital Improvement Plans (CIPs) for both the Water and Sewer systems through 2035. Only the projects that provide a benefit to future users are included as a cost element in the calculation of connection fees.

The Wastewater CIP project types that are included in the calculation of the connection fee include the following:

- Agency Headquarters improvements
- New Agency Laboratory facilities

- Agency Lift Station expansion and upgrades
- Agency-wide repairs and improvements
- New Business Network and Process Automation Control Network upgrades
- Upgrades to the Carbon Canyon Water Recycling Facility
- Upgrades to the Inland Empire Regional Composting Facility
- Expansions and upgrades to the Regional Conveyance System
- RP-1 Sludge Improvements and Expansion
- RP-2 Decommissioning
- RP-4 Improvements and Expansion
- RP-5 Improvements and Expansion

The future capital projects that add capacity specifically benefitting future development or upgrade the system in a manner that benefits both future and existing users are evaluated on a project-by-project basis to determine the amount that should be allocated to future users. Based on this approach, projects that are undertaken strictly to expand capacity for future users are allocated 100% to future customers. Projects that upgrade the system in order to meet regulatory requirements or rehabilitate assets that have reached the end of their useful lives, are allocated to both existing and future users proportionate to capacity requirements. It is important to note that the value of the existing system assets have been reduced by depreciation in order to prevent double counting of asset values.

The calculations for these allocated amounts are included in Appendix C. The method for allocating these costs is identical to the two-step method described above for the fixed assets. However, the methodology is applied to a different list of assets, in this case future assets (CIP projects) that are allocated to both existing and future customers (growth).

Table 4.7 summarizes the portion of the project costs, by fund, that are allocated to future users and that are planned for the Agency's wastewater system through 2035. It should be noted that regardless of which fund the capital projects are listed in (e.g., GG, RC, RO) they are all capital projects and can have allocations to both existing and future customers (growth). For example, a project being listed in the RO fund does not mean that it does not have excess capacity that is available for growth. A specific example is the RP-5 Solids Treatment Facility (RP-2 Relocation). Some of the new facilities will be for existing customers (47%) and some will be for future customers (growth – 53%).

Table 4.7 Wastewater Capital Improvement Projects by Fund			
Fund	**Total Wastewater Project Costs ($ millions)**	**Total Costs Allocated to Growth ($ millions)**	**Total Costs Allocated to Existing Customer ($ millions)**
Administrative Services (GG)	$28,249,010	$10,988,701	$17,260,309
Regional Wastewater Capital Improvement (RC)	401,396,950	272,253,286	129,143,664
Non-Reclaimable Wastewater (NC)	33,174,000	7,961,760	25,212,240
Regional Operations and Maintenance (RO)	345,532,951	138,397,835	207,135,116
Residuals Management & Organics Mgmt (RM)	18,175,000	6,724,750	11,450,250
Total Wastewater (GG, RC, NC, RO, RM)	**829,377,911**	**$436,326,332**	**$390,201,579**

Notes:

(1) 95% of the costs in the CIP that are both associated with the GG Fund and allocated to growth are spent towards projects to develop the wastewater system. 5% are allocated towards the Water Resources CIP. 95% of the GG Fund capital expenses are included here.

4.2.2 Allocation of Projects in Non-Reclaimable Wastewater System

The IEUA has a Non-Reclaimable Wastewater (NRW) system (see Table 4.7 for capital costs). The NRW system is divided into two zones: a northern collection system that conveys wastewater to the Los Angeles County Sanitation Districts for treatment and ocean disposal, and a southern collection system that conveys wastewater to Orange County Sanitation District for treatment and ocean disposal. The IEUA discharges the centrate produced in the RP-1 dewatering process to the NRW system. In addition, some industries discharge to the system to lessen the impact of their high salinity discharges on the IEUA treatment facilities. Finally, domestic wastewater can be bypassed to the NRW system, if needed.

The primary function of the NRW system is to export high salinity wastewater out of IEUA's service area. The NRW system is a key element in the IEUA's salinity management program. Without this system, IEUA would not be able to meet their effluent discharge requirements for salinity without adding expensive advanced treatment to their facilities (e.g., Reverse Osmosis). In 2013, a study was completed to estimate the capital costs of using advanced treatment, instead of the NRW system, for disposal of high salinity wastewater. The result was that advanced treatment would cost approximately $200 million. In addition, exporting the high salinity wastewater improves recycled water quality for both direct use and for groundwater recharge. The benefits of not having to spend $200 million on advanced treatment and of higher quality recycled water accrue to all of the customers in the IEUA service area. Because the benefit is for all customers, the capital costs for the NRW system that are shown in Table 4.7 are included in the allocation of costs to both existing customers and for growth (future customers).

The portion of the NRW capital costs that have been allocated to growth are based on the average allocation to growth of the RP-1 treatment facilities, which is 24%. Alternatively, the overall allocation to growth of all of the RP-1 facilities could have been used (28%). However, since all of the NRW projects over the next 20 years are related to the portion of the NRW system that is in the RP-1 service area, the 24% value was used.

4.3 Customer Base

As stated above, connection fees are calculated by dividing the monetary value of the existing and/or future system by the number of existing and/or future customers. The number of customers is typically expressed as equivalent dwelling units (EDUs).

4.3.1 <u>Equivalent Dwelling Unit</u>

An (EDU) is the measure of a customer's impact on the wastewater system as a ratio to the impact of a typical single-family residence. A commercial customer's impact is calculated based on this ratio while a single-family residence is assumed to have the impact of exactly one EDU. The number of EDUs in the wastewater system is calculated through a series of steps.

1. Determine the EDU flow and loading assumptions.
2. Allocate the existing and future assets to existing customers and future users. This is explained in sections 1.1 and 4.4 regarding the Value of Future System and Value of Available System.
3. Allocate assets to the billable constituents of flow, BOD and TSS. This is explained in Valuation of Physical Assets section of this report.
4. Determine the System flow and Loadings.
5. Determine the Asset Allocation Factors.

6. Calculate the number of EDUs.

4.3.1.1 EDU flow and Loadings Assumptions

The first step is to determine the appropriate values assumed flow, BOD, and TSS for a single-family residence. Due to the effect of conservation efforts, appliance efficiencies, and construction approaches, the per capita water consumption has trended downwards since the last time the Agency calculated single-family residential water consumption and wastewater flow. Utilizing the common assumption that single-family indoor water usage can be used as a proxy for single-family wastewater flows, it can be assumed that single-family wastewater flows have decreased in proportion to the decrease in indoor water consumption. In order to incorporate these effects, Carollo utilized a new indoor water consumption forecast provided by the Agency to represent wastewater flow per EDU. In the Integrated Resources Planning document, the Agency provided an indoor water consumption estimate of 55 gallons per capita per day (gpcd) that was utilized in this calculation to represent wastewater flow, from 2015 through 2035. The Agency also provided projections of singe-family residential units and densities through the year 2035. This data was used to calculate a weighted average of wastewater flows per single-family residence of 195.25 gpcd in Table 4.8.

Table 4.8 Updated Unit flow Assumption

Year	SFR Units	SFR Density	SFR flow, gpcd	SFR Unit flow, gpd
2015	170,447	3.58	55	196.9
2020	178,394	3.52	55	193.6
2025	187,488	3.54	55	194.7
2030	197,642	3.55	55	195.25
2035	207,794	3.56	55	195.8
Weighted Average SFR Unit flow				**195.25**

While this calculation illustrates a decrease in EDU wastewater flows from the prior assumption of 270 gpd, which is the basis of IEUA's contract with its Member Agencies, it is important to note that the per capita loadings are assumed to remain constant. Although Agency customers are consuming less water, the quantity of loadings into the system per capita have not decreased. Therefore, single-family BOD and TSS loading concentration assumptions must be adjusted in order to compensate for the decrease in the flow assumption from 270 to 195 gpd. The BOD and TSS Loading/day assumptions listed in the "Updated" column of Table 4.9 represent the new assumptions utilized in the EDU calculations.

Table 4.9	Updated Unit Loading Assumptions			
	Current		Updated	
Constituent	**Concentration**	**Loading/day**	**Concentration**	**Loading/day**
flow	270 gpd	270 gpd	195 gpd	195 gpd
BOD	230 mg/L	.518 lbs/day	318 mg/L	.518 lbs/day
TSS	220 mg/L	.496 lbs/day	304 mg/L	.496 lbs/day

4.3.1.2 System flow and Loadings

Using the system flow values and projections in conjunction with influent loading concentrations at each regional water recycling plant, as developed in the Facilities Master Plan, the current and projected loadings totals at each plant can be calculated. These calculations are presented in detail in Appendix D. Table 4.10Total Loadings presents the current and projected flow and loadings totals.

Table 4.10	Total Loadings		
	flow, mgd	**BOD, lbs/day**	**TSS, lbs/day**
Current	55.7	186,386	182,492
Future	73.5	240,078	232,751
Increase	17.8	53,692	50,259

4.3.1.3 Wastewater EDU Calculation

The equation below shows the calculation that is used to determine the number of EDUs in the current IEUA wastewater system. It incorporates the updated EDU flow and loadings assumptions, the current system flow and loadings totals, and the asset allocation factors presented above (flow: 44%; BOD: 34%; and TSS: 21%).

$$EDUs = Flow\% * \frac{current\ flow}{flow\ per\ EDU} + BOD\% * \frac{current\ BOD}{BOD\ per\ EDU} + \ TSS\% * \frac{current\ TSS}{TSS\ per\ EDU}$$

Future EDUs are calculated with the same formula using the increase in flow and loadings totals from Table 4.10 instead of the current flow and loadings totals.

Table 4.11 presents the results of these two calculations.

Table 4.11 Customer Base; Total EDUs	
Existing EDUs in System (Existing Customers)	328,459
Future EDUs (Users to join by 2035)	97,606
Total Customer Base in 2035	**426,066**

4.4 Value of the Future Users Share of the Existing System

As described above, the allocated share of the Value of the Available System was calculated proportionate to the remaining and available system capacity. Assets and future capital projects that equally benefit existing and future users are allocated proportionally based on the number of current and projected EDUs. Finally, future capital improvements that are undertaken strictly to provide future system capacity to serve future users are allocated strictly to future users.

The future users' share of the fixed assets, the reserves, and the property tax credit are shown in the section below.

4.4.1 Future Users' Share of Reserve Funds

There are expected to be 426,066 EDUs in the system by 2035, of which 97,606, or 23%, are new EDUs. Therefore, the future users benefit from 23% of the reserves. Table 4.12 presents the fund balances at the beginning of Fiscal Year 2014/15 as well as the future users' share of existing reserve fund balances.

Table 4.12 Future Users' Share of Reserve Funds		
Fund	**Balance**	**Future's Share**
Administrative Services (GG)	$14,554,155	$3,334,175
Non-Reclaimable Wastewater (NC)	4,502,755	1,031,525
Regional Wastewater Capital Improvement (RC)	60,856,307	13,941,419
Regional Operations and Maintenance (RO)	30,215,738	6,922,048
Total Wastewater (RO, NC, RC)	**$110,128,955**	**$25,229,167**

4.4.2 Total Value of Existing Wastewater System

The sum of the future users' share of the existing assets and reserves in the existing wastewater system is presented in Table 4.13.

Table 4.13 Total Value of Available System	
Wastewater Assets	$146,441,580
Wastewater Reserves	25,229,167
Construction in Progress	11,583,026
Total Value of Available System	**$183,253,772**

4.4.3 Property Tax Credit

The Agency provided a record of property tax receipts dating back to FY 1998/99. Over that period, the Agency collected $279 million in property tax revenue to fund wastewater O&M expenditures, debt service, and direct capital costs. $18.7 million of that amount was available for wastewater capital projects. After adjustment for inflation, using ENR-CCI, the present value of the recorded property tax receipts used to finance capital projects totals $25.0 million. This total was collected from the property tax of both developed and undeveloped properties. The Agency will only credit the portion that is associated with undeveloped properties. This credit is intended to adjust down the connection fee of the new connection by the amount that the undeveloped property has contributed to the existing system before connecting.

In order to estimate the share of the total amount of property taxes that was collected from undeveloped properties, it is assumed that the share is proportionate to the number of new EDUs to be constructed through 2035 relative to the total number of system users by 2035, which equates to 23%. Table 4.14 presents the results of this approach.

Table 4.14 Property Tax Credit	
Present Value of Recorded Property Tax Net of Debt and O&M	$24,975,327
% Contributed by Undeveloped Properties	23%
Contribution made by Undeveloped Properties	$5,721,535
New EDUs Through 2035 (Future Users)	97,606
Credit per New EDU (Future User)	$59

This is a fair and reasonable attempt at calculating the property tax credit based on the Agency's provided receipts since FY 1998/99. The percentage share of property tax that was paid for by vacant lots is unknown. This methodology represents a conservative approach by overestimating the contributions of undeveloped properties since undeveloped properties contribute, on average, less than a developed property.

4.5 Proposed Connection Fees

Based on the defined Value of the Available System, the Value of the Future System (Capacity Related CIP), and the Number of Expected Future Users, the calculate the hybrid connection fee is as follows:

$$\boldsymbol{Hybrid\ Connection\ Fee =}$$

$$\frac{\boldsymbol{Value\ of\ the\ Available\ System}}{\boldsymbol{Expected\ Future\ Users}} + \frac{\boldsymbol{Capacity\ Related\ CIP}}{\boldsymbol{Expected\ Future\ Users}} =$$

$$\frac{\boldsymbol{Value\ of\ Available\ System}}{\boldsymbol{Expected\ Future\ Users}} = \frac{\$\boldsymbol{177,532,237}}{\boldsymbol{97,606}} = \$\boldsymbol{1,819}$$

$$\frac{\boldsymbol{Capacity\ Related\ CIP}}{\boldsymbol{Expected\ Future\ Users}} = \frac{\$\boldsymbol{436,326,332}}{\boldsymbol{97,606}} = \$\boldsymbol{4,470}$$

The hybrid connection fee is shown below.

$$\boldsymbol{Hybrid\ Connection\ Fee} = \$\boldsymbol{1,819} + \$\boldsymbol{4,470} = \$\boldsymbol{6,289}$$

5.0 SUMMARY

In summary, the wastewater connection fee is proposed to be increased from $5,107 per EDU to $6,289 per EDU. Table 5.1 shows the detailed calculation of the charge.

Table 5.1 Summary Connection Fee Calculation	
Buy-In Portion	
RCNLD	$146,441,580
Reserves	25,229,167
Construction in Progress(1)	11,583,026
Less Property Tax Revenue	(5,721,535)
Subtotal: Reimbursement Value	*$177,532,237*
Customer Base	
Future Users	97,606
Buy-In Fee	**$1,819**
Incremental Portion	
Sum of Growth Related Costs by 2035	436,326,332
Customer Base	
Future Users	97,606
Incremental Fee	**4,470**
Total Hybrid Connection Fee	$6,289
Notes: (1) Has not been adjusted for additional construction costs since 2012/13 and the total is entirely allocated to future wastewater users.	

Attachment 2

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March 16th 2015

Inland Empire Utilities Agency
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Re: BIA Peer Review of 2015 Wastewater Connection Fee

Dear Policy Committee and Board Members,

The Building Industry Association, Baldy View Chapter (BIA) has concluded our peer review of the Inland Empire Utilities Agency's (IEUA) proposal Wastewater Connection Fee. To assist with the technical nature of the wastewater connection fee study BIA has retained David Taussig & Associates, Inc. BIA would like to commend IEUA on their commitment to maintaining a reliable water management system for both existing and future users in the region. We appreciate the transparency IEUA has demonstrated during the process and hope that the following recommendations will assist in determining an accurate methodology for the Wastewater Connection Fee.

Background: C.I.P v. Operational Costs

The Wastewater Connection Fee proposed by IEUA is in the nature of a capacity charge. Government Code 66013(b)(3) defines "Capacity Charge" as "…a charge for public facilities in existence at the time a charge is imposed or charges for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged". Section 66000(d) defines "Public Facilities" as "…public improvements, public services and community amenities". Section 66002(c)(3) more specific to wastewater defines "Facility" as "Facilities for the collection, treatment, reclamation and disposal of sewage. Section 66002 also ties public improvements to a capital improvement plan. Based on the above it is clear that the intent of a capacity charge is to require that new development pay its fair share of the capital improvements from which it benefits. Clearly, operational costs, which are recurring and periodic costs related to the day-to-day operation and management of such facilities, **should not to be included in a capacity charge.**

Recommendation 1: "Reserves"

We believe that it is not industry practice to charge new development for a share of existing cash balances. However, we recognize that cash balances intended to fund construction of new capital facilities (including rehabilitation and replacement projects) will ultimately be converted into such facilities, and therefore may be allowable to the extent there is no double counting (i.e., new development is not charged both for the facilities and the cash already on hand to build such facility). Similarly, reserve funds for bonds may also be permissible to the extent that such bonds paid for facilities to be funded by new development. However, while it is acknowledged that the "operating contingency" fund balances are cash assets (see IEUA response[1]), there is no basis for requiring new development to "buy-in" to these funds. **Therefore, it is requested that the operating contingency component of the fund balances ($32.2 million) be eliminated from the wastewater connection fee.**

Recommendation 2: Administrative Services (GG)

Table 4.7, "Wastewater Capital Improvement Projects", also appears to have operational elements. As indicated in Appendix C to the report, all of the line items in the Administrative Services category appear to be operational and some of the line items in the Regional Operations and Maintenance category appear to be operational. **Therefore, it is requested that the Administrative Service (GG) component ($12.0 million) be eliminated from Table 4.7 and that the Regional Operations and Management (RO) component ($138 million) of Table 4.7 be re-evaluated with respect to eliminating operational elements, as we do not believe these are items that can be included in a capacity fee.**

Recommendation 3: Avoid Double Counting

Reserve funds are typically used for meeting unforeseen conditions such as cost escalations, revenue shortfalls, rate stabilization, etc. These expenditures are expensed items typically with useful lives of less than one year. Capital Improvement Funds on the other hand are intended to pay for costs directly related to the construction of facilities, typically associated with depreciable capacity related assets having useful lives of greater than one year. Page 2 of the IEUA response memo[1] lists four bullet items representing the categories that make up the reserve funds listed in Table 4.12 "Future User's Share of Reserve Funds". The first bullet item, **"Operational Contingency" is described as funds set aside to cover 4-6 month's operating costs. This item is concerned with operational costs and should be eliminated from the Wastewater Connection Fee,** as discussed under the "Reserves" and the "C.I.P. v. Operations" headings above. The remaining three categories, "Capital Construction", Replacement and Rehabilitation", and "Debt Service" are described as funds set aside to cover 1-3 years expenditures. These categories are related to capital improvements, however the Wastewater Connection Fee Update does not demonstrate that these funds are not also counted in the Capital Improvement Component, Construction in Progress, or in the bond financed portions of the existing assets. We are concerned that there may be double counting of facilities for which funds are already available. IEUA's response that this issue is that it would be addressed in future capacity fee updates. However this explanation is insufficiently explains how IEUA will prevent double counting. **BIA recommends an in-depth review of each of these line item funds be conducted to eliminate operational elements from the capacity fee calculation.**

Recommendation 4: Grandfather Exemption and Phase-In of the Wastewater Connection Fee

BIA is concerned with the slow economic recovery of the Inland Empire housing market and the negative impact any new or increased fee has on the affordability and viability on new residential

[1] Memo from I.E.U.A. dated March 23, 2015 in response to B.I.A. peer review letter dated March 16, 2015 and conference call on March 17, 2015 with I.E.U.A., B.I.A., Corollo Engineers and David Taussig & Assoc., Inc

development. **We recommend that IEUA adopt a grandfather exemption for all Final Tract Maps that have been recorded on or before December 31, 2015.** The exemption will allow final recorded maps to pay the current wastewater connection fee of $5108 per EDU with a sunset date of December 31st 2017. **BIA also recommends that the wastewater connection fee be phased-in over the period of one year, with a 50% increase on January 1st 2016 and the remaining 50% on Jan 1st 2017.**

Recommendation 5: "One Water" Connection Fee

BIA respectfully requests the opportunity to conduct another peer review of the proposed "One Water" Connection Fee. Furthermore, we agree with the sentiments expressed by the member agencies during the previous workshops, **requesting a delay of up to six months for further review and consideration.**

Thank you for the time and consideration on this matter. California homebuilders are committed to sustainable communities and water conservation through construction of the most efficient homes in country. BIA looks forward to continuing our partnership with IEUA and the member agencies to develop our region into a premier destination for existing and future residents. <u>Please provide a written response to the aforementioned recommendations at your earliest convenience.</u>

Sincerely,

Carlos Rodriguez

Carlos Rodriguez, CEO

CC: Joe Grindstaff, General Manager
Chris Berch, Executive Manager of Engineering
Christina Valencia, Chief Financial Officer

Attachment 3

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Inland Empire Utilities Agency
Wastewater and One Water Connection Fee Study 2019

WASTEWATER CONNECTION FEE
FY 2020/2021 UPDATE

DRAFT | August 2019

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Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

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Abbreviations

AFY	Acre-Feet per Year
BOD	Biochemical Oxygen Demand
CIP	Capital Improvement Plan
EDU	Equivalent Dwelling Unit
ENR-CCI	Engineering News Records Construction Cost Index
FMP	2015 Wastewater Facilities Master Plan
FY	Fiscal Year
GG	Administrative Service Fund
gpcd	Gallons per capita per day
gpd	Gallons per day
IEUA	Inland Empire Utilities Agency
IRP	2015 Integrated Resources Plan
lb	Pounds
mg/L	Milligram per liter
MGD	Million gallons per day
NC	Non-Reclaimable Wastewater Fund
NPDES	National Pollutant Discharge Elimination System
NRWS	Non-Reclaimable Wastewater System
RC	Regional Capital Improvement Fund
RCNLD	Replacement Cost New Less Depreciation
RO	Regional Operations and Maintenance Fund
TSS	Total Suspended Solids

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Section 1 Introduction

The Inland Empire Utilities Agency (IEUA or Agency) is a public agency serving the Inland Empire region as a regional wastewater agency, as well as a wholesale supplier of imported and recycled water. The Agency contracted with Carollo Engineers, Inc. (Carollo) to conduct a Connection Fee Study for the regional wastewater and water systems. This report details the purpose and cost basis of updating the Agency's Wastewater Connection Fee. The analysis discussed in this report provides the support for an updated fee to be implemented in fiscal year (FY) 2020/21 on July 1, 2020.

The Agency's current Wastewater Connection Fee is based on the 2015 Connection Fee Study. That study determined that IEUA could justify a fee of $6,289 per EDU beginning July 1, 2015, including inflationary adjustments in each subsequent fiscal year. However, the Agency elected to phase in the fee over several years to provide sufficient planning time for the member agencies and developers. Table 1 below shows the fee implementation schedule that was adopted following the 2015 study. As of July 1, 2019 the wastewater connection fee is $6,955 per EDU.

Table 1 Adopted Connection Fees Since 2015

	Fee per EDU
July 1, 2015 Supported by 2015 Study	$6,289
Adopted Fees	
July 1, 2015	$5,107
January 1, 2016	$5,415
July 1, 2016	$5,415
January 1, 2017	$6,009
July 1, 2017	$6,309
July 1, 2018	$6,624
July 1, 2019	$6,955

The 2020 Connection Fee Study was initiated by IEUA to reassess the Wastewater Connection Fee based on updated planning and engineering that has transpired since the last study or is currently under development. This updated analysis includes:

- Updated capital improvement plan (CIP) and long-term (20 year) capital outlook based on the 2015 Facilities Master Plan, the Energy Management Plan, the Asset Management Plan, Preliminary designs for RP-1 and RP-5 and other ongoing efforts.
- Updated wastewater flow and loading projections based on the 2015 Facilities Master Plan (FMP) and the 2015 Integrated Resources Plan (IRP) and actual plan flow and loading since their completion.
- Updated financial information.

1.1 Draft Analysis

The findings and results presented in this report represent the first draft of the Wastewater Connection Fee analysis. IEUA may continue to refine the fee calculations as additional or new data becomes available and based on feedback from the member agencies and other stakeholders.

1.2 Study Approach

In order to determine conformance with industry standards and principles, legal requirements, and the Agency Board policy, the following criteria were used in evaluating the validity of the connection fee process:

- Do the connection fees represent a reasonable nexus to the costs incurred by the Agency on behalf of future users and the benefits received?
- Is the allocation approach consistent with industry practices and California Government Code §54999.7 and §66013?
- Is it likely that the allocation approach will be appropriate for use by the Agency in the future?

The connection fee analysis is based upon a point in time calculation based on the Agency's Fixed Asset Schedule, FY 2019/20 IEUA Ten Year Capital Improvement Plan (CIP) and long-term capital outlook, projected wastewater flow and strength (biochemical oxygen demand (BOD), and total suspended solids (TSS)), and other Agency Data.

1.3 Background

IEUA's regional wastewater system provides collection, treatment, and disposal of municipal wastewater for the residents and businesses within its service area. The seven member agencies within IEUA's wastewater treatment service area include the City of Chino, the City of Chino Hills, Cucamonga Valley Water District, the City of Fontana, the City of Montclair, the City of Ontario, and the City of Upland. In all, IEUA's wastewater system serves nearly 875,000 residents within a 242 square mile area of western San Bernardino County and treats an average of 50 million gallons of wastewater per day.

Wastewater Collections: The regional collection system transports wastewater from the member agencies to IEUA's wastewater treatment facilities. The major assets of the collection system include 94 miles of wastewater interceptor pipes, 72 miles of non-reclaimable wastewater pipes, and four wastewater lift stations. Other collection system assets include manholes, SCADA systems, and various auxiliary equipment.

Wastewater Treatment: IEUA owns, operates, and maintains five wastewater treatment plants located throughout the service area. The plants are interconnected via the regional collections system bypass pipelines. Table 2 provides a brief description of each plant.

Non-Reclaimable Wastewater System: IEUA owns, operates, and maintains a Non-Reclaimable Wastewater System (NRWS) that is used to convey wastewater that IEUA cannot treat and discharge through its existing facilities to the Los Angeles County Sanitation Districts or Orange County Sanitation District for treatment and ocean discharge. The Agency discharges centrate produced in the RP-1 dewatering process to the Non-Reclaimable Wastewater System (NRWS) and some industrial customers discharge directly to the NRWS to avoid sending high salinity wastewater to IEUA's facilities. The NRWS also serves as a backup for IEUA's treatment plants as domestic wastewater flows could be bypassed to the NRWS if needed.

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Table 2 Wastewater Treatment Facilities

Plant		Location	Treatment Processes	Notes
Carbon Canyon Water Recycling Facility	CCWRF	Chino	Primary, Secondary, Tertiary	Solids conveyed to RP-2 for treatment
Regional Water Recycling Plant #1	RP-1	Ontario	Primary, Secondary, Tertiary, Solids	
Regional Water Recycling Plant #2	RP-2	Chino	Solids Treatment Only	Liquids removed during solids processing are conveyed to RP-5
Regional Water Recycling Plant #4	RP-4	Rancho Cucamonga	Primary, Secondary, Tertiary	Solids conveyed to RP-1 for treatment
Regional Water Recycling Plant #5	RP-5	Chino	Primary, Secondary, Tertiary	Solids conveyed to RP-2 for treatment

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Section 2 Connection Fee Overview

Connection fees are a method by which local agencies can impose charges to offset the costs of new customers connecting to their water, wastewater, or other utility or infrastructure systems. Connection fees are governed by California Government Code §66000, which provides a legal framework for the applicability, assessment, and imposition of connection fees. There are various methods to calculate connection fees, and the most appropriate method for any system is dictated by the system's specific characteristics. The proposed connection fees presented in this report represent the maximum allowable fees that the Agency can impose based on the calculations discussed throughout this report.

2.1 Statutory Requirements

A connection fee is imposed on new connections in order to recover a fair and equitable share of the costs of capacity within the utility facilities. A key tenet in adopting these connection fees is: "growth pays for growth." This means that the costs associated with building or maintaining excess capacity to serve new customers ultimately should be borne by those new users who benefit from this available capacity.

A connection fee that is levied on users of a water utility is subject to the requirements of Chapter 13.7 (commencing with Section §54999) of Part 1 of Division 2 of Title 5 of the California Government Code relating to the imposition of charges on customers that are public agencies. Connection fees are also subject to the requirements of Government Code §66013.

- Connection fees are "charges for facilities in existence at the time the charge is imposed or charges for new facilities to be constructed in the future, which are of benefit to the person or property being charged."
- Section §66013 provides that connection fees "shall not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed." Section §54999.7 establishes a similar cost-of-service requirement.
- As determined by Richmond v. Shasta Community Services Dist. (2004) 32 Cal. 4th 409, Connection fees are not subject to the provisions of California Constitution article XIII D (Proposition 218).

2.2 Connection Fee Methodologies

Two general types of connection fees are used to recover system investments from new users, the System Buy-In Approach and the Incremental Cost Approach. Additionally, utilities can elect to use a Hybrid Approach that combines the Buy-In and Incremental Approaches. While all are valid, the best approach is dictated by each system's specific characteristics.

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2.2.1 Buy-In Approach

Utilities often construct infrastructure capacity to meet projected future demands. The purpose of the Buy-In approach is to recover costs that have already been incurred by the Agency. Existing customers have paid for this system over time through their user rates and fees (through direct capital financing or retired debt). The Buy-In approach provides a mechanism to reimburse existing users for the carrying costs of constructing system capacity that is available for use by future users. In this sense, the Buy-In approach estimates the fraction of the existing system that will benefit future users.

There are further considerations when calculating the Buy-In approach. Given that the existing system was constructed over time, the original cost of constructing the system neither accurately reflects the current value of that system nor the cost to construct the facilities today. Consequently, original costs were escalated to FY (Fiscal Year) 2018/19 dollars using Engineering News Records Construction Cost Index (ENR-CCI). The Agency's FY 2017/18 fixed asset records were used as the basis for this analysis, which included original costs, acquisition dates, and estimated useful lives.

Replacement costs alone might not be the best estimate of system value, because system assets have a finite lifespan and must be replaced and/or rehabilitated in time. The Agency adjusts the existing cost basis by deducting straight-line depreciation. Accumulated depreciation is determined by dividing the age of each asset by the projected useful life and reducing the asset value by that percentage. By accounting for accumulated depreciation in the Buy-In cost approach, the Agency may recover a proportionate value of capital improvements that will replace depreciated assets or will be undertaken to extend the useful lives of these assets through the future cost component of the connection fee.

The Buy-In approach should not include costs of assets that were grant-funded or donated assets and should only include those costs incurred by the Agency ratepayers for the development of the existing system, which includes the accumulation of fund reserves as well as expenses associated with construction in progress.

Finally, in the calculation of the Buy-In approach, the existing system value is segregated into the portions for existing customers and future users. This is achieved by dividing the total value of the entire system over all projected users by 2040. Because the existing customers have already paid their share of costs through prior connection fees and rates, only the future users pay their fraction of costs upon connecting to the system.

The Buy-In approach divides the value of the existing system that benefits future users by the number of future users that are expected to benefit from the system in order to calculate the connection fee.

$$Buy\ In\ Connection\ Fee = \frac{Value\ of\ System\ Benefitting\ Future\ Users}{Expected\ Future\ Users}$$

2.2.2 Incremental Approach

The Incremental approach recovers the cost in present value (FY 2018/19) dollars of the planned investments that the Agency will undertake to add the capacity needed to serve future development. Projects included in the Agency's capital improvement program have two primary purposes – maintain reliability of existing infrastructure; and increase system capacity. In the Incremental approach, the future system value is segregated between those two purposes. The costs of each project are associated in some percentage to either or both of these purposes. This is achieved by determining the approximate portion of each asset that benefits either existing customers or future users. In the incremental approach, the current value of planned capital improvements that will serve future users through the Agency's planning horizon of 2040 is divided by the expected number of future users through 2040.

The future cost basis accounts for capacity related improvements that will be constructed through 2040. The costs of these improvements are estimated in present value terms (FY 2018/19 dollars).

$$Incremental\ Capacity\ Fee = \frac{Capacity\ Related\ CIP}{Expected\ Future\ Users}$$

2.2.3 Hybrid Approach

The Hybrid Approach combines the Buy-In and Incremental approaches. Current system value is added to the costs of capacity related capital projects and divided by the expected future customers.

$$Hybrid\ Connection\ Fee\ Approach =$$

$$\frac{Value\ of\ System\ Benefitting\ Future\ Users}{Expected\ Future\ Users} + \frac{Capacity\ Related\ CIP}{Expected\ Future\ Users}$$

2.2.4 Recommended Approach

Based on the characteristics of the Agency's wastewater system and discussion with Agency Staff, Carollo recommends that the Hybrid Approach be used for the calculation of the updated Wastewater Connection Fee. IEUA's wastewater systems hold available capacity that has been funded by existing users, which drives the need for a Buy-In component. Additionally, the CIP is designed to expand system capacity, calling for an Incremental component. Using the Hybrid Approach establishes a nexus between the value of the existing and future system and between the benefits of capital investments to existing customers and future users. This approach is consistent with the 2015 Study that developed the Wastewater Connection Fees that are currently in place. The Hybrid Approach is commonly utilized by other comparable agencies such as the City of Riverside, Sacramento Regional County Sanitation District, and the San Diego County Water Authority.

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Section 3 Wastewater Connection Fee

In order to calculate the updated Wastewater Connection Fee for IEUA, based on the equation presented above, the following three separate steps must be considered:

1. The customer base must be determined. This includes the number of expected future users by 2040 and the number of total users by 2040.
2. The value of the existing system must be determined. This includes determining the value of the existing assets and then adjusting that value based on the share that is available to serve future users. The value of the system available to serve new users is assigned on an asset-by-asset basis determined by the available capacity at each treatment plant, the available capacity within the collection system, or the expected level of growth.
3. The value of the future system (or synonymously the capacity related CIP) and the portion allocated to future users must be determined.

3.1 Customer Base

Connections fees are calculated by dividing the monetary value of the existing and/or future system by the number of existing and/or future customers. The number of customers is typically expressed as Equivalent Dwelling Units (EDUs).

3.1.1 Equivalent Dwelling Units

An EDU is the measure of a customer's impact on the wastewater system as a ratio to the impact of a typical single-family residence. A commercial customer's impact is calculated based on this ratio while a single-family residence is assumed to have the impact of exactly one EDU. For the connection fee calculation, EDUs are used as a means of tying the value of the available capacity within the system as well as the cost that will be needed to support future growth, to the total customer base that could be served by the system in 2040.

For the calculation to be accurate, it is important that the number of future EDUs is calculated based on the same projected flows and loads that are the basis of the Agency's long-term capital planning. This creates a nexus between the asset values and costs that are included in the connection fee calculation and the number of users that the Agency could serve based on those investments. The EDU calculation relies on updated flow growth assumptions developed by the Agency and the loading growth assumptions of the 2015 FMP.

The following sections present the calculation of EDUs and the assumptions and inputs used in those calculations. The number of EDUs in the wastewater system is calculated through the following steps:

1. Determine the system flow and loadings.
2. Determine the EDU flow and loading assumptions.
3. Allocate assets to existing customers and future users.
4. Allocate assets to the billable constituents of Flow, Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS).
5. Determine the asset allocation factors.
6. Calculate the number of EDUs.

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3.1.2 System Flow and Loadings

The number of current and future EDUs as determined for the connection fee calculation incorporates current and projected flow, BOD and TSS. These functional constituents serve as the basis for determining how and why the Agency's capital investments are made and are thus used to pass those costs on to customers connecting to the system.

- **Flow:** The volumetric quantity of wastewater that is collected and treated.
- **BOD:** Biochemical Oxygen Demand (BOD) of wastewater is used as a measure of the amount of microbial life and other organic matter that must be removed from the wastewater prior to disposal.
- **TSS:** Total Suspended Solids of wastewater is used as a measure of the amount of solid particulate matter that must be removed from the wastewater prior to disposal.

Flow Forecast: The projected flows included in the analysis were developed by the Agency through updates to the 2015 IRP. Since the completion of the IRP, actual flows into IEUA's plants have decreased due to water use efficiency gains from indoor water conservation and changes in plumbing code. To reflect actual flows in recent years, the projections from the 2015 IRP were reduced by 10 percent. The updated projections reflect an 18.7 MGD flow increase through 2040. Figure 1 below shows the 2015 IRP forecast and the updated forecast used for this analysis.

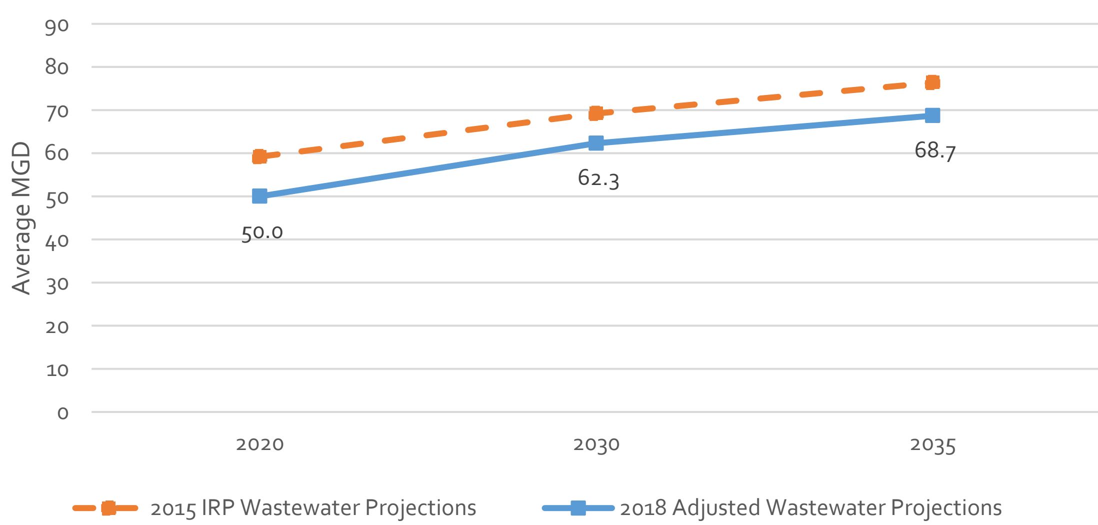

Figure 1 Projected Wastewater System Flow

Loadings Forecast: The projected loadings included in the analysis are based on the forecast originally developed for the 2015 FMP. Loadings for 2020 are based on an analysis of the Agency's actual flows and loading data. The five-year average concentrations for TSS and BOD were calculated and used with projected flows for 2020 to produce estimated 2020 loading values. Beyond 2020, BOD and TSS loading are expected to match the forecast loading from the 2015 FMP.

Unlike the flow projections, projected loadings are expected to remain consistent with the 2015 FMP since indoor water conservation and increased water use efficiency do not impact the amount of BOD and TSS discharged into the wastewater system by each user. The amount of loadings expected to come into the system is tied to the number and type of users expected to connect to the system, rather than to the volumetric flow that they are expected to produce. To account for continued decreases in flow per EDU, the projected loading concentrations are expected to increase over time, holding total pounds of loading equal to the projections of the 2015 FMP. Figure 2 shows the projected BOD and TSS loading.

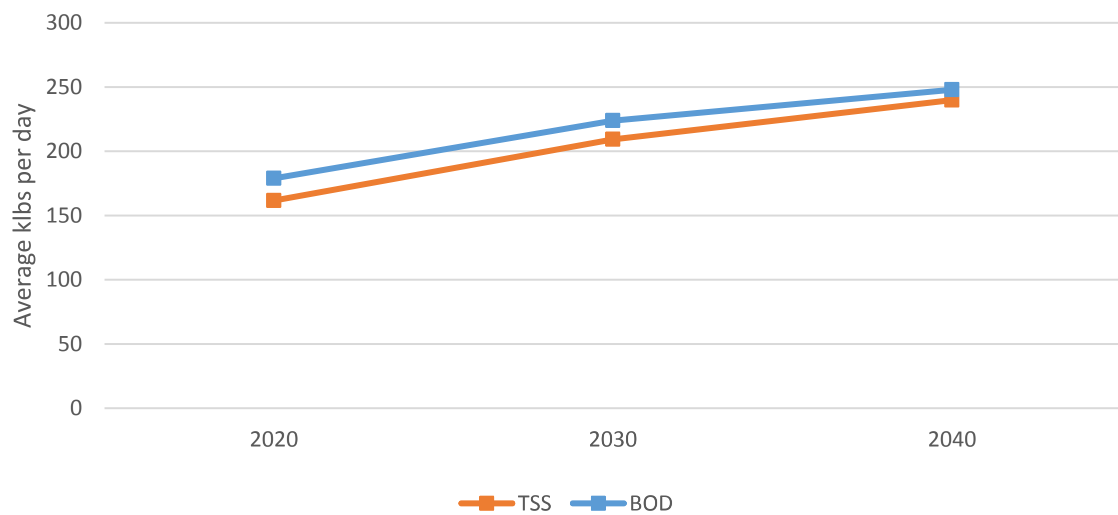

Figure 2 Projected Wastewater System Loadings

A summary of the projected flows and loadings through 2040 is shown in Table 3. Additional detail of the flow and loading projection is included for reference in Appendix A.

Table 3 Total System Flow and Loadings Projections

Component	Start of Study Period (2020)	Increase by 2040	Future (2040)
Flow (MGD)	50.0	18.7	68.7
BOD (lbs/day)	178,900	69,000	247,900
TSS (lbs/day)	161,600	78,200	239,800

Note: Totals may not tie due to rounding.

3.1.3 EDU Flow and Loading Assumptions

The next step in calculating the number of EDUs in the wastewater system is to determine the appropriate values assumed for Flow, BOD, and TSS for a single-family residence. The flow and loading assumptions per EDU used to determine the customer base for the connection fee study vary from those currently included in the Regional Contract. This difference is necessary due to the need to tie the calculated number of EDUs for the connection fee analysis, to the basis of the Agency's long-term capital planning efforts. Notably, the flow assumptions of the Regional Contract have been known to be outdated for several years. The Agency's planning efforts have relied on updated assumptions that reflect current customer discharges as well as those expected in the future as water use efficiency efforts and building code updates continue to decrease residential discharges.

While the connection fee calculation will rely on updated EDU assumptions, adoption of the connection fees will not automatically update the assumptions of the Regional Contract. This will lead to a discrepancy in the number of EDUs calculated for non-residential users when they connect to the system (based on the Regional Contract assumptions) and the number of EDUs that would be calculated based on the updated assumptions of the connection fee analysis. Over time, this could cause shortfalls in revenue collection through the connection fees, leaving the Agency's other sources of revenue to pay for a greater share of capital projects. The Agency should take a proactive approach in updating the assumptions of the Regional Contract in order to minimize the potential for under collection of connection fee revenues.

FLOW PER EDU

Due to the effect of conservation efforts, appliance efficiencies, and construction approaches, the per capita water consumption has trended downwards since the last time the Agency calculated single-family residential water consumption and wastewater flow. Utilizing the common assumption that single-family indoor water usage can be used as a proxy for single-family wastewater flows, it can be assumed that single-family wastewater flows have decreased in proportion to the decrease in indoor water consumption. In order to incorporate these effects, Carollo utilized the indoor water consumption forecast provided by the Agency to represent wastewater flow per EDU. The 2015 Urban Water Management Plan provided an indoor water consumption estimate of 50 gallons per capita per day (gpcd) that was utilized in this calculation to represent wastewater flow. The Agency also provided projections of single-family residential units and densities through the year 2040. This data was used to calculate a weighted average of wastewater flows per single-family residence of 180 gpd per EDU shown in Table 4.

Table 4 Calculation of Flow per EDU

Year	SFR Units	SFR Density [1]	Per Capita Flow (gpcd)	SFR Unit Flow (gpd)
2020	178,394	3.520	50.0	176.0
2025	187,488	3.540	50.0	177.0
2030	197,642	3.550	50.0	177.5
2035	207,794	3.560	50.0	178.0
2040	218,366	3.540	50.0	177.0
Weighted Average				177.1
Rounded Weighted Average				**180**

Notes:
(1) Persons per household.
(2) Totals may not tie due to rounding.

A secondary analysis based on the Agency's monthly EDU billing records was completed to confirm the flow per EDU assumption. The expected 2020 flows of 50.0 MGD were divided by the current number of monthly billed EDUs of 280,887. This calculation results in an average flow of 178 gpd per EDU, consistent with the calculations presented in Table 4. Furthermore, the daily flow assumption of 180 gpd per EDU is also consistent with the findings of the 2018 draft technical memorandum "Sewer Use Fee Evaluation" (Carollo). That document provided preliminary recommendation on flow and loading assumptions per EDU however the study was placed on hold prior the completion of a final analysis and provision of formal recommendation.

Adjusting the assumed flow per EDU to 180 gpd from the Regional Contract assumption of 270 gpd allows the analysis to account for current conditions at the Agency. Further, the decreased flow assumption is in closer alignment to assumptions used in the Agency's long-term planning efforts and in agreement with the level of investment that is needed through 2040. Lastly, if the connection fee calculation were to rely on the higher Regional Contract assumption, the calculated fee could be significantly higher as less EDUs could be supported by flows expected through 2040.

LOADING PER EDU

While the calculation illustrates a decrease in EDU wastewater flows from the Regional Contract assumption of 270 gpd, it is important to note that the per capita loadings are not assumed to decrease. Although Agency customers are consuming less water, the quantity of loadings into the system per capita have not decreased. Loading concentration assumptions may be refined as additional information becomes available over time. To account for the variability in loading assumptions, this draft analysis included two mass loading scenarios to test the sensitivity of EDUs and connection fees to mass loading assumptions.

1. **Regional Contract:** The Regional Contract defines 1 EDU as discharging 270 gpd of flow with mass loading of 0.52 pounds per day of BOD and 0.50 pounds per day of TSS.
2. **2015 Study:** The 2015 Study used and updated flow assumption of 195 gpd per EDU based on expected per capita discharges and measures plant loading at that time. The mass loading assumptions were kept consistent with those of the Regional Contract.
3. **2020 Study Loadings Baseline Scenario:** The Baseline scenario for the 2020 Study assumed flow per EDU at 180 gpd with loading assumptions consistent with the current mass loading per EDU. These mass loadings are consistent with the Regional Contract and those of the 2015 Connection Fee study.
4. **2020 Study Loadings Scenario 1:** This scenario is included to show an illustrative example of the impact of decreased mass loading assumptions per EDU on the connection fee calculations. To do so, loading assumptions are adjusted to be 10 percent lower than those currently included in the Regional Contract and used for the 2015 study. Flow per EDU is assumed at 180 gpd consistent with the 2020 Study baseline scenario.
5. **2020 Study Loadings Scenario 2:** This scenario is included to show an illustrative example of the impact of increased mass loading assumptions per EDU on the connection fee calculations. To do so, loading assumptions are adjusted to be 10 percent higher than those currently included in the Regional Contract and used for the 2015 study. Flow per EDU is assumed at 180 gpd consistent with the 2020 Study baseline scenario.

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Scenarios 1 and 2 are included to show the sensitivity of EDU calculations and resulting connection fees to mass loading assumptions. However, the Agency will only adjust the loading assumptions if additional information suggesting that the loading assumptions need to be updated becomes available. At that time, the BOD and TSS loading assumptions should be adjusted independently based on that information.

Table 5 compares the flow and loading assumptions per EDU from the Regional Contract and the 2015 study to the baseline and scenarios 1 and 2 developed for this analysis.

Table 5 Flow and Loading Assumptions per EDU

Component	*Regional Contract*	*2015 Study*	2020 Study Baseline Scenario	2020 Study Scenario 1	2020 Study Scenario 2
Flow (gpd)	*270*	*195*	180	180	180
BOD Concentration (mg/L)	*230*	*318*	345	310	380
BOD Mass Loading (lb/day)	*0.52*	*0.52*	0.52	0.47	0.57
TSS Concentration (mg/L)	*220*	*304*	330	295	365
TSS Mass Loading (lb/day)	*0.50*	*0.50*	0.50	0.44	0.55

The California Association of Sanitation Agencies (CASA) is in the process of completing a statewide study to determine typical loading strengths for wastewater customers. The Agency has also considered expanding on its own residential sampling programs to determine the current flow and loading associated with each EDU. As additional data from the CASA study or IEUA's internal sampling programs becomes available, the EDU assumptions in the connection fee analysis and the Regional Contract should be updated accordingly.

3.1.4 Wastewater EDU Calculation

The equation below shows the calculation used to determine the number of EDUs in the current IEUA wastewater system. It incorporates the updated EDU flow and loadings assumptions, the current system flow and loadings totals, and the asset allocation factors for flow, BOD, and TSS. The asset allocation factors are based on a functional allocation of asset values and reflect the share of system value (based on the capacity available to serve future users) that is related to conveying or treating flow, or removing BOD or TSS from the wastewater. The functional allocation is discussed in detail in Section 3.2.1.2 and the percentage allocations are shown in Table 12.

$$Current\ EDUs = \left(\%\ Flow * \frac{2020\ Flow}{Flow\ per\ EDU}\right) + \left(\%\ BOD * \frac{2020\ BOD}{BOD\ per\ EDU}\right) + \left(\%\ TSS * \frac{2020\ TSS}{TSS\ per\ EDU}\right)$$

Where:

% Flow = 53.9% based on the results of the functional allocation (see Section 3.2.1.2).

% BOD = 31.4% based on the results of the functional allocation (see Section 3.2.1.2).

% TSS = 14.7% based on the results of the functional allocation (see Section 3.2.1.2).

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Current EDUs are calculated with the below formula, using the current flow and loadings from Table 3 and the flow and loading per EDU based on the Low Loading scenario from Table 5. Note that the presented total EDUs may not match a recalculation using the presented numbers due to rounding.

$$Current\ EDUs = \left(53.9\% * \frac{50.0MGD}{180gpd}\right) + \left(31.4\% * \frac{178{,}900lb/day}{0.52\ lb/day}\right) + \left(14.7\% * \frac{161{,}600\ lb/day}{0.50\ lb/day}\right)$$
$$= 306{,}060\ EDUs$$

Future EDUs are calculated with the below formula, using the increase in flow and loadings from Table 3 and the flow and loading per EDU based on the Low Loading scenario from Table 5. Note that the presented total EDUs may not match a recalculation using the presented numbers due to rounding.

$$Future\ EDUs = \left(53.9\% * \frac{18.7MGD}{180gpd}\right) + \left(31.4\% * \frac{69{,}000lb/day}{0.52\ lb/day}\right) + \left(14.7\% * \frac{78{,}200lb/day}{0.50\ lb/day}\right)$$
$$= 120{,}980\ EDUs$$

Table 6 summarizes the results of the previously discussed calculations above for the Baseline scenario as well as the results of similar calculations based on the assumptions of Scenarios 1 and 2. Under the baseline scenario, there are expected to be 427,040 EDUs in the system by 2040, of which 120,980, or approximately 28%, are new EDUs. Under Scenario 1, more future EDUs could be supported as compared to the Baseline Scenario since each EDU requires less loading capacity within the system. EDU calculations using Scenario 1 assumptions result in the system being able to serve 452,445 EDUs by 2040, of which 128,452 or approximately 28%, would be new EDUs. Lastly, Under Scenario 2, less future EDUs could be supported since each EDU requires more loading capacity within the system. Under this scenario, the system could serve 406,379 EDUs by 2040, of which 114,904 or approximately 28%, would be new EDUs. Additional detail of EDU calculations is included for reference in Appendix B.

Table 6 Current and Projected Total EDUs – High Loading Scenario

	Current EDUs - 2020	New EDUs - 2040	All EDUs by 2040
Baseline Scenario			
Flow	149,669	55,976	205,645
BOD	108,386	41,784	150,170
TSS	48,005	23,220	71,225
Total	**306,060**	**120,980**	**427,040**
Scenario 1 - Decreased Mass Loading			
Flow	149,669	55,976	205,645
BOD	120,623	46,501	167,124
TSS	53,701	25,975	79,676
Total	**323,993**	**128,452**	**452,445**
Scenario 2 - Increased Mass Loading			
Flow	149,669	55,976	205,645
BOD	98,403	37,935	136,338
TSS	43,402	20,993	64,396
Total	**291,474**	**114,905**	**406,379**

Note: Totals may not tie due to rounding.

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3.2 Value of Existing System

This section presents the value of the combined existing system and accounts for fixed assets, construction in progress, reserves, and capital contributions from property taxes which offset the fee calculation.

3.2.1 Net Asset Equity

Net capital asset equity represents the current value of the physical water systems funded by existing ratepayers, less accumulated depreciation. This approach accounts for the fact that system assets have previously been in service and no longer possess their full useful life. The terms related to the calculation of net capital asset equity are defined as shown below:

1. **Replacement Cost New** – Current value of the existing water system. Original costs are escalated to FY 2018/19 dollars using the ENR-CCI.
2. **Depreciation** – Represents the loss in value of the system as the useful life of that asset is exhausted, depreciation is escalated to FY 2018/19 dollars using the ENR-CCI.
3. **Replacement Cost New Less Depreciation (RCNLD)** – Calculated as Replacement Cost New minus escalated Depreciation. Throughout the remainder of this report, the value of the physical system will be referred to as Replacement Cost New Less Depreciation (RCNLD).
4. **Construction in Progress –** Capital projects currently under construction, not captured in the Existing Plant-In-Service asset record listing.
5. **Capital Costs Not Funded by Existing Ratepayers** – These include developer-funded assets and are excluded from the ratepayers' equity calculation.

VALUATION OF PHYSICAL ASSETS

RCNLD represents the value of the Agency's physical assets. The RCNLD for the wastewater system was calculated based on the Agency's Fixed Asset Schedule as of FY 2018/19. The value of existing system assets and the available capacity within the system for future users is determined on an asset-by-asset basis based on the available capacity at each treatment plant, or the total available capacity in the existing system (for collections system or unassigned assets).

The available capacity for each treatment plant is determined by subtracting current flows from the total capacity that can be treated at each plant under current loading concentrations. The total capacity of each plant was determined based on the minimum capacity found by: (1) an analysis completed for the 2015 FMP, (2) adjusted capacity based on current loading conditions and the 2015 FMP, or (3) the National Pollutant Discharge Elimination System (NPDES) permit capacity. Capacity associated with RP-2 as well as the value of the RP-2 facilities are not included as the Agency plans to decommission RP-2 during the study period. Table 7 shows the available treatment capacity for each plant and for the whole treatment system.

Assets that are not attributable to a specific treatment plant are allocated to future users based on the total capacity available within the system. The system's total available capacity is also applied to collection system asset since the existing collection system is not capacity limited.

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Table 7 Available Treatment Capacity

Treatment Plant	Flow Capacity (MGD)	2018 Average Flow (MGD)	Available Flow Capacity (MGD)	Available Flow Capacity (%)
RP-1 (2015 FMP)	32.0	22.5	9.5	30%
RP-4 (NPDES Permit)	14.0	9.5	4.5	32%
RP-5 (2015 FMP Adjusted)	12.1	8.2	3.9	32%
CCWRF (NPDES Permit)	12.0	7.8	4.2	35%
System Total	**70.1**	**48.0**	**22.0**	**31%**

Note: Totals may not tie due to rounding.

Table 8 shows the calculation of the wastewater system RCNLD and the proportionate share (of RCNLD) of capacity available for future users. The full listing of wastewater assets with the calculation of RCNLD and the portion available to serve future users is included for reference in Appendix C.

Table 8 Value of Wastewater Fixed Assets (Millions)

Fund	Original Value	Accumulated Depreciation	Book Value	RCNLD	Future Users Share (1)
Regional Capital (RC)	$645.6	($346.2)	$299.4	$451.8	$136.5
Regional Operations and Maintenance (RO)	$39.0	($10.5)	$28.5	$32.4	$9.0
Non-Reclaimable Wastewater (NC)	$31.9	($16.7)	$15.1	$22.2	$7.0
Wastewater Total	**$716.4**	**($373.4)**	**$343.0**	**$505.9**	**$152.5**

Note:
(1) Future users share calculated based on an asset-by-asset basis using available capacity at the applicable treatment plant or the overall system.
(2) Totals may not tie due to rounding.

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WASTEWATER RCNLD FUNCTIONAL ALLOCATION

After the RCNLD of each asset and its allocation to future users is determined, the value of the available capacity is allocated between the billable constituents of Flow, BOD, and TSS according to its association with different unit processes in the treatment process, as shown in Table 9.

Table 9 Unit Process Functional Allocation

Unit Process	Flow	BOD	TSS
Collection System	100%	--	--
Preliminary Treatment	100%	--	--
Primary Clarifiers	80%	--	20%
Activated Sludge	--	100%	--
Secondary Clarifiers	80%	20%	--
Tertiary Treatment	100%	--	--
DAF Thickening (WAS)		100%	
Gravity Thickening (Primary Sludge)	--	--	100%
Anaerobic Digestion	--	45%	55%
Sludge Dewatering	--	45%	55%
Sludge Disposal	--	45%	55%

Some assets cannot be easily classified into the unit processes listed in Table 9. For example, the cost of assets such as yard piping, odor control, and instrumentation that support the general function of the facility are otherwise unassignable to any specific unit process. Assets that provide a general benefit to a specific treatment plan such as plant water systems or electrical systems are allocated based on the average allocation for that respective treatment plant. Assets that provide a general benefit to the entire system are allocated based on the system wide average allocation. Table 10 shows the plant specific average allocations as well as the system wide average allocation.

Table 10 Plant and System Average Allocation Factors

Treatment Plant	Flow	BOD	TSS	Total
RP-1 Average Allocation	44.4%	29.4%	26.2%	100%
RP-2 Average Allocation	35.3%	28.2%	36.5%	100%
RP-4 Average Allocation	39.1%	51.5%	9.4%	100%
RP-5 Average Allocation	48.5%	40.3%	11.2%	100%
CCWRF Average Allocation	64.3%	34.5%	1.2%	100%
System Wide Average Allocation (All Assets)	53.0%	31.1%	15.9%	100%
System Wide Average Allocation (Available Capacity)	53.9%	31.4%	14.7%	100%

Note: Totals may not tie due to rounding.

As shown in Table 10 the system wide average allocation for all assets varies from the system wide average allocation for available capacity. On average, the value of assets with available capacity are weighted slightly more to flow and BOD than the system as a whole. This variation reflects the specific functional allocation assigned to each asset and each assets specific available capacity.

Table 11 shows the allocated RCNLD of the wastewater system. Appendix C shows the functional allocation factors that are applied to each wastewater asset.

Table 11 System Total RCNLD Functional Allocation (Millions)

Billable Constituent	Weighted Average	Total RCNLD
Flow	53.0%	$268.6
BOD	31.1%	157.5
TSS	15.9%	80.3
Total	**100%**	**$506.4**

Note: Totals may not tie due to rounding.

RCNLD of Available Wastewater Capacity

Table 12 shows the allocated RCNLD of the portion of the existing assets that are available to serve future users. The percentage allocations to Flow, BOD, and TSS are then used as the weighting factors in the EDU calculation discussed previously.

Table 12 Available Capacity RCNLD Functional Allocation (Millions)

Billable Constituent	Weighted Average	Total RCNLD (1)
Flow	53.9%	$82.2
BOD	31.4%	47.9
TSS	14.7%	22.5
Total	**100%**	**$152.5**

Note:
(1) Future users share calculated based on and asset-by-asset basis using available capacity at the applicable treatment plant or the overall system.
(2) Totals may not tie due to rounding.

3.2.2 Construction in Progress

The Agency's construction in progress are costs associated with the portion of Capital Improvement Plan projects that have been expensed. However, the projects are not yet recorded as fixed assets. As many projects take multiple years to complete, the Agency's records include entries for construction in progress for FY 2011/12 through FY 2017/18. Values have been escalated to current dollars using the ENR-CCI. Approximately 28 percent of construction in progress value is allocated to future users based on the percentage of total EDUs that will be attributable to growth in 2040. There are expected to be 427,040 EDUs in the system by 2040, of which 120,980, or approximately 28%, are new EDUs. Table 13 below presents the results of these calculations. Additional detail of construction in progress is included for reference in Appendix D.

Table 13 Construction in Progress (Millions)

Fund	Total Construction in Progress Costs	Future Users Share	Costs Allocated to Existing Customers
Non-Reclaimable Wastewater (NC)	$0.4	$0.1	$0.3
Regional Capital (RC)	36.9	10.3	26.6
Regional Operations and Maintenance (RO)	37.0	10.4	26.6
Administrative Service (GG)(1)	1.3	0.4	1.0
Total	**$75.6**	**$21.1**	**$54.5**

Notes:
(1) A portion of GG fund projects are applicable to the Wastewater Connection Fee (93%), and the remaining are applicable to the One Water Connection Fee (7%) based on the amount of RCNLD within each asset group.
(2) Totals may not tie due to rounding.

3.2.3 Reserves

As a regional provider of essential public services and with an extensive investment in public infrastructure, operating facilities, other related assets; the Agency must establish and maintain a prudent level of reserves to meet its commitment to deliver reliable and high quality essential services to its customers. IEUA has historically maintained fund reserves to ensure sufficient funding is available to meet its operating, capital and debt service obligations, comply with legally mandated requirements, and have the ability to respond to unforeseen events. These reserves provide existing and new users a reliable and sustainable system by ensuring funds are available to address unforeseen emergencies and avoid disruption of service and meet liquidity needs to secure a high-quality credit rating and provide access to lower borrowing costs to finance future capital construction.

Like the fixed assets discussed previously, the reserve balances included in the connection fee calculation have been contributed over time by the existing customers. Each applicable reserve balance represents monetary value that a new user must buy into when they connect to the system.

The connection fee analysis accounts for the fund balances at the end of FY 2017/18 in the Non-Reclaimable Wastewater (NC) Fund, Regional Wastewater Capital Improvement (RC) Fund, and the Regional Operations and Maintenance (RO) Fund. Additionally, portions of the Administrative Services (GG) Fund, proportionate to the percentage of all fixed assets that are associated with the wastewater system, are included in the value of the combined wastewater reserves. Other portions of the Administrative Services Fund, as well as the Agency's other fund balances which have not been included within this wastewater connection fee calculation, are associated with the Water system.

There are expected to be 427,040 EDUs in the system by 2040, of which 120,980, or approximately 28%, are new EDUs. Therefore, the future users benefit from approximately 28% of the reserves. Table 14 presents the various wastewater fund balances at the beginning of FY 2018/19.

Table 14 Reserve Balance (Millions)

Fund	Reserves Balance June 30, 2018	Less: Reserves from Connection Fees	Non-Connection Fee Reserves	Future Users' Reserve Buy-In
Non-Reclaimable Wastewater (NC)	$76.9	$0.00	$76.9	$21.5
Regional Capital Improvement (RC)	$79.6	($55.6)	$24.0	$6.7
Regional Operations and Maintenance (RO)	$9.8	$0.0	$9.8	$2.8
Administrative Service (GG)	$8.4	$0.0	$8.4	$2.3
Total	**$174.7**	**($55.6)**	**$119.1**	**$33.3**

Note: Totals may not tie due to rounding.

3.2.4 Offsetting Revenues

The value of asset equity included in the connection fee calculation is adjusted to reflect the amount of outside funding that the Agency has used to fund capital projects. These revenues offset or reduce the amount that future users need to pay to buy in to the existing system's assets. For the wastewater system, offsetting revenues include property taxes that were used to pay for capital projects and a small amount of capital grants.

Property Tax Credit

The Agency provided a record of property tax receipts from FY 1999/00 to FY 2017/18 and expected receipts for FY 2018/19. Over this 20-year period, the Agency has collected $416.4 million in property tax revenue to fund wastewater O&M expenditures, debt service, and direct capital costs. Approximately $53.3 million of the total collections was used to fund capital projects. After adjusting for inflation, using ENR-CCI, the present value of the recorded property tax receipts used to finance wastewater capital projects total $61.0 million. This total was collected from the property tax of both developed and undeveloped properties. The Agency will only credit the portion that is associated with undeveloped properties. This credit is intended to reduce the Wastewater Connection Fee for new connections by the amount that the undeveloped property has contributed to the existing system prior to their connection.

In order to estimate the share of the total amount of property taxes that was collected from undeveloped properties, it is assumed that the share is proportionate to the number of new EDUs to be constructed through 2040 relative to the total number of system users by 2040, which equates to approximately 28%. This methodology represents a conservative approach by overestimating the contributions of undeveloped properties since undeveloped properties contribute, on average, less than a developed property. Table 15 presents the results of this calculation.

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Table 15 Property Tax Credit (Millions)

	Amount
Property Tax Less O&M and Debt Service	$53.3
Present Value of Property Tax (Less Debt and O&M)	**$61.1**
Percent Contribution by Undeveloped Properties	28%
Contribution by Undeveloped Properties	**$17.1**
New EDUs by 2040	120,980
Credit per New EDU ($/EDU)	**$141**
Note: Totals may not tie due to rounding.	

Capital Grant Credit

The capital grant credit is calculated using a similar methodology to that described in the previous section for property taxes. The agency provided historical grant revenues that were used to pay for capital projects for FY 1999/00 through FY 2017/18 and their values were adjusted to present value using the ENR CCI. The share of capital grant credits allocated to future users is proportionate to the number of new EDUs to be constructed through 2040 relative to the total number of system users by 2040, which equates to approximately 28%. Table 16 summarizes the capital gran credits and the allocation to future users.

Table 16 Capital Grant Credit (Millions)

	Amount
Capital Grants Received	$9.8
Present Value of Property Tax (Less Debt and O&M)	**$13.5**
Percent Allocated to Future Users	28%
Future Users Share	**$3.8**
New EDUs by 2040	120,980
Credit per New EDU ($/EDU)	**$31**
Note: Totals may not tie due to rounding.	

Appendix E includes additional detail of property tax receipts and grants that have been used to cover capital projects as well as the calculation of the property tax and capital grant credits.

3.3 Value of Future System

3.3.1 Capital Projects

The value of the future system is determined by evaluating the capital investments that will expand system capacity in order to provide capacity for future users. As noted previously, IEUA has developed several planning documents to help determine the need for capital investments. These documents include CIP projects for both the water and wastewater systems through 2040. Only the projects that provide a benefit to future users are included as a cost element in the calculation of connection fees.

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Examples of CIP projects that are included in the calculation of the connection fee include the following:

- Wastewater Treatment Projects
  - RP-1 Improvements and Expansion
  - RP-4 Improvements and Expansion
  - RP-5 Improvements and Expansion
  - Upgrades to the Carbon Canyon Water Recycling Facility
- Collection System Projects
  - Agency Lift Station expansion and upgrades
  - Expansions and upgrades to the Regional Conveyance System
- NRW System Projects
  - Upgrades of the NRW pipelines and lift stations
- Other Projects
  - Agency Headquarters improvements
  - New Agency Laboratory facilities
  - New Business Network and Process Automation Control Network upgrades
  - Upgrades to the Inland Empire Regional Composting Facility

Future capital projects that add capacity specifically benefitting future development or upgrade the system in a manner that benefits both future and existing users are evaluated on a project-by-project basis to determine the amount allocable to future users. Based on this approach, projects that are undertaken strictly to expand capacity for future users are allocated 100% to future customers. Projects that upgrade the system in order to meet regulatory requirements or rehabilitate assets that have reached the end of their useful lives are allocated to both existing and future users in proportion to their capacity requirements. It is important to note that the value of existing system assets have been reduced by depreciation in order to prevent double counting of asset values.

Table 17 summarizes the portion of project costs, by fund, that are planned for the Agency's wastewater system from 2020 through 2040 as well as the share of costs allocated to future users. It should be noted that regardless of which fund the capital projects are listed in (e.g., NC, RC, NO, GG) they are all capital projects and can have allocations to both existing and future users. Project detail of CIP costs and growth allocations is included for reference in Appendix F.

Table 17 Wastewater Capital Improvement Projects (Millions)

Fund	Total Wastewater CIP Costs	Future Users' Share(1)	Total Costs Allocated to Existing Customers
Non-Reclaimable Wastewater (NC)	$49.4	$12.9	$36.5
Regional Capital Improvement (RC)	1,117.9	661.8	456.0
Regional Operations and Maintenance (RO)	286.9	54.6	232.4
Administrative Service (GG)	48.9	13.7	35.2
Total	**$1,503.1**	**$743.0**	**$760.1**

Notes:
(1) Future user's share calculated on a project-by-project basis based on the portion of each project related to adding or maintaining capacity to serve future users.
(2) Totals may not tie due to rounding.

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3.3.2 NRWS Capital Costs

A portion of the capital costs associated with the NRWS are included in the connection fee calculation based on the future user's share of flow in 2040, approximately 27 percent. The NRWS is divided into two zones: a northern collection system conveying wastewater to the Los Angeles County Sanitation Districts for treatment and ocean disposal, and a southern collection system conveying wastewater to Orange County Sanitation District for treatment and ocean disposal. The IEUA discharges the centrate produced in the RP-1 dewatering process to the NRWS. In addition, some industries discharge to the system to reduce the impact of high salinity discharges on the IEUA treatment facilities. Finally, domestic wastewater can be bypassed to the NRWS, if needed.

The primary function of the NRWS is to export high salinity wastewater out of IEUA's service area. The NRWS is a key element in the IEUA's salinity management program. Without this system, IEUA would not be able to meet their effluent discharge requirements for salinity without adding expensive advanced treatment to their facilities (e.g., Reverse Osmosis). In 2013, a study was completed to estimate the capital costs of using advanced treatment, instead of the NRWS, for disposal of high salinity wastewater. Results of that study indicated that the construction of advanced treatment would cost approximately $200 million. Additionally, exporting high salinity wastewater improves recycled water quality for both direct use and groundwater recharge. Avoidance of this $200 million cost for advanced treatment and resultant higher quality recycled water benefits all customers within the IEUA service area. As a result of these cost savings benefitting all customers, capital costs for the NRWS shown in 0 are included in the allocation of costs to both existing customers and future customers (growth).

3.4 Value of System Available for Future Users

The total value of the wastewater system available for future users is a summation of Assets (RCNLD), Capital Projects, and Reserves minus Property Tax Revenues. Total value is depicted below in Table 18.

Table 18 Total Value of System Available for Future Users (Millions)

Component	Total Value	Future Users' Share
RCNLD (Existing Physical System)	$506.4	$152.5
Construction in Progress	75.6	21.1
Reserves	119.1	33.3
Less: Property Tax Offset	(61.1)	(17.1)
Less: Capital Grants Credit	(13.5)	(3.8)
Subtotal Buy-In Portion	**$626.5**	**$186.1**
Incremental Portion (Capacity Related CIP)	**$1,503.1**	**$743.0**

Note: Totals may not tie due to rounding.

3.5 Proposed FY 2020/21 Wastewater Connection Fee

Based on the defined Value of the Existing System, the Value of the Future System (Capacity Related CIP), and the Number of Expected Future Users, the updated Wastewater Connection Fee for the Baseline scenario is calculated as follows:

$$\textbf{\textit{Buy-In Portion}} = \frac{Value\ of\ System\ Benefitting\ Future\ Users}{Expected\ Future\ Users} = \frac{\$186.1\ million}{120{,}980\ EDUs} = \$\mathbf{1,538}$$

$$\textbf{\textit{Incremental Portion}} = \frac{Capacity\ Related\ CIP}{Expected\ Future\ Users} = \frac{\$743.0\ million}{120{,}980\ EDUs} = \$\mathbf{6,141}$$

$$\textbf{\textit{Hybrid Connection Fee}} = Buy\text{-}in\ Portion + Incremental\ Portion = \$1{,}538 + \$6{,}141 = \$\mathbf{7,679}$$

Table 19 summarizes the calculated Wastewater Connection Fees for the Baseline scenario as well as Scenarios 1 and 2.

Table 19 Calculated Connection Fee per EDU

	Baseline Scenario	Scenario 1 Decreased Mass Loadings	Scenario 2 Increased Mass Loadings
Value of System Benefitting Future Users (Million)		$186.1	
Capacity Related CIP (Million)		$743.0	
Future EDUs	**120,980**	**128,452**	**114,905**
Buy-In Fee ($/EDU)	$1,538	$1,449	$1,620
Incremental Fee ($/EDU)	$6,141	$5,784	$6,466
Total Connection Fee ($/EDU)	**$7,679**	**$7,233**	**$8,086**

Note: Totals may not tie due to rounding.

Section 4 Summary and Conclusions

The analysis provides a nexus for the maximum allowable Wastewater Connection Fee that the Agency could, but is not required to impose.

The findings and results presented in this report represent the first draft of the Wastewater Connection Fee analysis. IEUA may continue to refine the fee calculations as additional or new data becomes available and based on feedback from the member agencies and other stakeholders. This report and other materials will be updated as the analysis progresses, and additional information and feedback is incorporated.

Table 20 below shows a summary of the fee components and calculation.

Table 20 Summary of the FY 2020/21 Wastewater Connection Fee Charge

Component	Future Users' Share
RCNLD (Existing Physical System) (Millions)	$152.5
Construction in Progress (Millions)	$21.1
Reserves (Millions)	$33.3
Less: Property Tax Offset (Millions)	($17.1)
Less: Capital Grants Credit (Millions)	($3.8)
Subtotal Buy-In Portion (Millions)	**$186.1**
Incremental Portion (Capacity Related CIP) (Millions)	**$743.0**
Baseline Scenario	
Expected Future Users (EDUs)	120,980
Buy-In Fee ($/EDU)	$1,538
Incremental Fee ($/EDU)	$6,141
Total Connection Fee ($/EDU)	**$7,679**
Scenario 1 – Decreased Mass Loading	
Expected Future Users (EDUs)	128,452
Buy-In Fee ($/EDU)	$1,449
Incremental Fee ($/EDU)	$5,784
Total Connection Fee ($/EDU)	**$7,233**
Scenario 2 – Increased Mass Loading	
Expected Future Users	114,905
Buy-In Fee ($/EDU)	$1,620
Incremental Fee ($/EDU)	$6,466
Total Connection Fee ($/EDU)	**$8,086**
Existing Wastewater Connection Fee	
July 1, 2019 Adopted ($/EDU)	$6,955
Change from Existing Fee ($/EDU)	
Baseline Scenario	$724
Scenario 1 – Decreased Mass Loading	$278
Scenario 2 – Increased Mass Loading	$1,131

Appendix A

FLOW AND LOAD PROJECTIONS

Inland Empire Utilites Agency

Wastewater Connection Fee

Wastewater Flow & Loading Projections

Updated Flow and Load Projections

	2018	2020	2030	2035	2040
Total Flows (MGD)	**50.0**	**50.0**	**62.3**	**65.4**	**68.7**
Overall Flow Growth Allocation		**0%**	**20%**	**24%**	**27%**
	Five-year Average				
TSS (mg/L)	**387**	387	403	410	418
BOD (mg/L)	**429**	429	431	431	432
NH3-N (mg/L)	**37**	37	38	38	39
TOC (mg/L)	**231**	-	-	-	-
TSS (lbs/day)	**161,641**	**161,641**	**209,291**	**223,648**	**239,827**
BOD (lbs/day)	**178,905**	**178,905**	**223,847**	**235,510**	**247,874**
NH3-N (lbs/day)	**15,265**	**15,265**	**19,570**	**20,818**	**22,203**
TOC (lbs/day)	**96,228**	-	-	-	-

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Appendix B

EDU CALCULATIONS

Inland Empire Utilities Agency

Wastewater Connection Fee

EDU Calculations

Actual EDUs

Annual	FYE 2017	FYE 2018	FYE 2019
City of Chino	352,470	335,364	372,617
City of Chino Hills	296,004	274,383	411,799
City of Fontana	956,753	601,769	665,574
City of Montclair	142,780	133,375	148,193
City of Ontario	721,477	709,836	783,572
City of Upland	312,221	292,130	320,935
Cucamonga Valley WD	827,680	764,504	825,430
Total Annual EDUs	**3,609,386**	**3,111,360**	**3,528,120**

Monthly	FYE 2017	FYE 2018	FYE 2019
July	289,034	294,775	279,654
August	280,668	285,168	288,033
September	274,191	277,082	581,965
October	275,549	287,786	289,789
November	239,700	285,443	272,572
December	313,080	281,850	
January	268,160	290,509	
February	256,176	269,875	
March	273,512	286,069	
April	281,798	261,687	
May	274,778	282,561	
June	266,512	267,835	
Average Monthly EDUs	**274,430**	**280,887**	**342,403**
Annual EDUs / 12	*300,782*	*259,280.00*	*294,010*

Baseline Value/EDU Assumptions

	Calculated	Calculated	Assumed	Assumed
Flow	178 gpd	178 gpd	180 gpd	180 gpd
BOD	429 mg/L	0.64 lb	345 mg/L	0.52 lb
TSS	387 mg/L	0.58 lb	330 mg/L	0.50 lb
TOC				0.00 lb

	Current EDUs - 2018	New EDUs - 2040	All EDUs by 2040
Flow	149,669	55,976	205,645
BOD	108,386	41,784	150,170
TSS	48,005	23,220	71,225
TOC	-		
Total	**306,060**	**120,980**	**427,040**

Percent of new connections by buildout 28.00%

High Loading Value/EDU Assumptions

	Adj to Baseline	Assumed	Assumed
Flow	1.00	180 gpd	180 gpd
BOD	1.10	380 mg/L	0.57 lb
TSS	1.10	365 mg/L	0.55 lb
TOC	1.10	000 mg/L	0.00 lb

	Current EDUs - 2018	New EDUs - 2040	All EDUs by 2040
Flow	149,669	55,976	205,645
BOD	98,403	37,935	136,338
TSS	43,402	20,993	64,396
TOC	-		
Total	**291,474**	**114,905**	**406,379**

Percent of new connections by buildout 28.00%

Low Loading Value/EDU Assumptions

	Adj to Baseline	Assumed	Assumed
Flow	1.00	180 gpd	180 gpd
BOD	0.90	310 mg/L	0.47 lb
TSS	0.90	295 mg/L	0.44 lb
TOC	0.90	000 mg/L	0.00 lb

	Current EDUs - 2018	New EDUs - 2040	All EDUs by 2040
Flow	149,669	55,976	205,645
BOD	120,623	46,501	167,124
TSS	53,701	25,975	79,676
TOC	-		
Total	**323,993**	**128,452**	**452,445**

Percent of new connections by buildout 28.00%

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Appendix C

ASSET LIST AND ALLOCATIONS

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Inland Empire Utilites Agency

Wastewater Connection Fee

Asset List

Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
400209	RP1 EXPAND TO 44.0MGD-PLANT C	$	6,622,638	OLD00432:RP1 - Primary/Secondary	1991	**$**	**15,606,497**
300176	Pipeline-Upland Intrcptr Rlf Swr Ph II	$	12,127,478		2008	**$**	**16,626,011**
300190	RP1 TO RP5 BY-PASS PIPELINES	$	10,815,240		2008	**$**	**14,827,016**
400420	RP5 AERATION BASIN	$	6,172,103	R5EN95028/01:RP5 - Primary / Secondary	2005	**$**	**9,444,545**
400449	RP5 AERATION BASIN	$	6,172,103	R5EN95028/40:RP5 - Primary / Secondary	2005	**$**	**9,444,545**
300046	INTERCEPTOR-KIMBALL AVE/CHINO	$	6,390,000	04EN97004:Main Office Administration	2004	**$**	**10,232,855**
300025	WESTSIDE INTERCEPTOR	$	4,122,679	EN91001:RP1 - Administration	1995	**$**	**8,585,858**
300399	RP1 ANAEROBIC BASIN DIGESTION IMPROVEMENTS	$	5,963,328		2010	**$**	**7,717,552**
400423	RP5 CHLORINE CONTACT BASIN	$	4,632,995	R5EN95028/04:RP5 - Primary / Secondary	2005	**$**	**7,089,403**
400011	RP4 ENERGY LOAD REDUCTION FACILITIES	$	7,498,137	06EN01003:RP4 - Primary / Secondary	2006	**$**	**11,021,681**
100029	LAND-RP5	$	4,341,915	R5EN95028/41:RP5 - Primary / Secondary	2005	**$**	**6,643,993**
300102	FONTANA INTERCEPTOR RELIEF SE	$	2,803,325	OLD00063:RP1 - Primary/Secondary	1991	**$**	**6,606,140**
300086	CUCAMONGA INT RELIEF SEWER	$	2,467,158	OLD00028:RP1 - Primary/Secondary	1989	**$**	**6,091,105**
400757	RP4 EXPANSION TO 14 MGD	$	7,045,703		2010	**$**	**9,118,327**
400761	RP5 RENEWABLE ENERGY EFFICIENCY	$	4,406,638		2010	**$**	**5,702,933**
400729	RP5 RENEWABLE ENERGY PROJECT	$	3,952,359	04PL02013:CCWRF - Solids Handling	2009	**$**	**5,254,682**
400013	RP1 CHLORINE CONTACT TANK EXP	$	3,605,271	06EN01010:RP1 - Tertiary	2006	**$**	**5,299,469**
400759	RP4 ODOR CONTROL SYSTEM	$	6,046,003		2010	**$**	**7,824,547**
300049	ETIWANDA INERCEPTOR ACQUISITI	$	2,910,023	99EN97019:Regional Interceptors	1999	**$**	**5,472,256**
300394	SAN BERNARDINO AVE PUMP STATION	$	4,169,327		2010	**$**	**5,395,811**
602818	RP1 Dewatering Screw Conveyors	$	4,277,327	RP1 Dewatering Facility Expansion	2015	**$**	**4,856,327**
601962	RP5 ENGINE-GENERATOR 2000KW	$	3,597,252		2010	**$**	**4,655,451**
400531	CHINO CREEK PARK-Wetland/Ecosyst	$	3,490,832		2008	**$**	**4,785,711**
400437	INFLUENT PUMP STATION	$	2,649,753	R5EN95028/19:RP5 - Primary / Secondary	2005	**$**	**4,054,649**
900109	1.0MG SARI CAPACITY	$	2,373,424	00SARI1.0MGD:NRW Southern System	1999	**$**	**4,463,189**
400030	RP5 DIGESTER EXPAN/MODIFICATIONS	$	2,690,179	06EN04038:RP5 - Manure Digester	2006	**$**	**3,954,355**
602808	RP1 Dewatering Decanter Centrifuge	$	3,549,561	RP1 Dewatering Facility Expansion	2015	**$**	**4,030,047**
300103	FONTANA INTERCEPTOR-CLOSE 150	$	1,451,840	OLD00064:RP1 - Primary/Secondary	1991	**$**	**3,421,316**
100005	LAND-RP1	$	543,830	OLD05462:RP1 - Administration	1973	**$**	**3,269,827**
300019	UPLAND INTERCEPTR RELIEF PH I	$	2,425,724	06EN20033:Prado Lift Station (CIW)	2006	**$**	**3,565,626**
400435	FILTERS	$	1,946,811	R5EN95028/16:RP5 - Primary / Secondary	2005	**$**	**2,979,008**
400043	RP1 DIGESTER SYS COVER MODIFC	$	1,512,842	97EN91044001:RP1 - Digester Cleaning	1997	**$**	**2,958,653**
150122	RP5 Land Restoration/Development	$	2,286,366	RP5 Utilitiy Water Pipeline	2012	**$**	**2,798,725**
300017	MWD ION EXCHG CONN TO NRW SYS	$	2,098,470	06EN05023:Regional Administration	2006	**$**	**3,084,589**
400862	RP1 Aeration FRP	$	2,315,213	RP1 Odor Control - Phase I	2013	**$**	**2,763,089**
300064	ARCHIBALD RELIEF SEWER	$	1,735,281	02EN99009:Regional Interceptors	2002	**$**	**3,024,098**
150129	RP5 Complex Land Grading and Development	$	2,156,529	RP5 System Fac Upgrade & Imprv	2014	**$**	**2,505,602**
400436	HEADWORKS/GRIT AREA	$	1,637,284	R5EN95028/18:RP5 - Primary / Secondary	2005	**$**	**2,505,370**
400514	Aeration Sys Mod	$	2,057,918		2008	**$**	**2,821,276**
100033	LAND-CHINO CREEK PARK	$	1,842,291	R5EN95028/45:RP5 - Primary / Secondary	2005	**$**	**2,819,071**

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Inland Empire Utilites Agency

Wastewater Connection Fee

Asset List

Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
100037	1158/1270 E RESERVIOR LAND ACQUISITION	$	2,041,288		2008	$	**2,798,478**
601024	STANDBY GENERATOR	$	1,579,658	R5EN95028/17:RP5 - Primary / Secondary	2005	$	**2,417,190**
100030	LAND-RP5 FUTURE DEVELOPMENT	$	1,499,134	R5EN95028/42:RP5 - Primary / Secondary	2005	$	**2,293,973**
400047	RP1 POWER RELIABILITY PROJECT	$	1,194,667	97EN91082001:RP1 - Energy Recovery	1997	$	**2,336,401**
400976	RP1 Dewatering Building Concrete	$	2,054,262	Reinforcing & Structural Steel	2015	$	**2,332,337**
400428	RP5 - SECONDARY CLARIFIER 3B	$	1,485,806	R5EN95028/09:RP5 - Primary / Secondary	2005	$	**2,273,579**
400430	RP5 - SECONDARY CLARIFIER 4B	$	1,485,806	R5EN95028/11:RP5 - Primary / Secondary	2005	$	**2,273,579**
400427	RP5 - SECONDARY CLARIFIER 3A	$	1,485,806	R5EN95028/08:RP5 - Primary / Secondary	2005	$	**2,273,579**
400429	RP5 - SECONDARY CLARIFIER 4A	$	1,485,806	R5EN95028/10:RP5 - Primary / Secondary	2005	$	**2,273,579**
400749	RP5 RENEWABLE ENERGY TANK STRUCTURE	$	1,698,360		2010	$	**2,197,965**
900110	1.1 MGD SARI CAPACITY PURCHAS	$	996,295	89SARI1.5:NRW Southern System	1989	$	**2,459,728**
602809	RP1 Dewatering SwitchGear	$	1,762,351	RP1 Dewatering Facility Expansion	2015	$	**2,000,911**
100009	CCWRF PROPERTY	$	1,209,338	OLD05486:RP2/CCWRF - Administration	1992	$	**2,764,097**
300090	MONTCLAIR INTERCEPTOR	$	485,767	MONTCLAIR LIFT STATION	1977	$	**2,148,585**
400450	OPERATIONS CENTER BLDG B	$	1,181,155	R5EN95028/20:RP5 - Primary / Secondary	2005	$	**1,807,402**
150120	Wetlands Park Land Improvement	$	1,470,893	RP5 Utilitiy Water Pipeline	2012	$	**1,800,510**
400822	RP5 SHF Ground Steel Tank Mixed Digester	$	1,409,252	1.2M Gal Cap - Complete Mix Digestion Tech	2012	$	**1,725,056**
100007	LAND-R.P.#3	$	318,489	OLD05482:Main Office Administration	1973	$	**1,914,942**
400825	RP1 Digester No. 7 Rehabilitation	$	1,404,174	RP1 Assessment Work	2012	$	**1,718,840**
400819	Philly Pump Station Improvement-CCTV	$	1,526,009	Phil Pump Station Upgrades	2012	$	**1,867,977**
300084	UPLAND INTERCEPTER RELIEF SEW	$	723,609	EN91063:RP1 - Primary/Secondary	1992	$	**1,653,902**
400443	RAS/WAS PUMP STATION	$	1,036,954	R5EN95028/26:RP5 - Primary / Secondary	2005	$	**1,586,746**
601963	RP5 JACK WATER PUMPS	$	1,214,599		2010	$	**1,571,896**
300081	ONTARIO HAVEN AVE. REG. INTER	$	680,188	EN91048:RP1 - Primary/Secondary	1992	$	**1,554,658**
400441	POWER CENTER 1	$	984,757	R5EN95028/24:RP5 - Primary / Secondary	2005	$	**1,506,874**
601947	REEP ENGINE	$	1,300,000		2010	$	**1,682,419**
400421	BIOFILTER FACILITY	$	970,939	R5EN95028/02:RP5 - Primary / Secondary	2005	$	**1,485,730**
400424	RP5 - EAST PRIMARY CLARIFIER #3	$	970,558	R5EN95028/05:RP5 - Primary / Secondary	2005	$	**1,485,146**
400425	RP5 - WEST PRIMARY CLARIFIER #4	$	970,558	R5EN95028/06:RP5 - Primary / Secondary	2005	$	**1,485,146**
400824	RP1 Digester No. 6 Rehabilitation	$	1,235,632	RP1 Assessment Work	2012	$	**1,512,529**
400894	RP5 Misc. Piping Systems and Structures	$	1,253,270	RP5 System Fac Upgrade & Imprv	2014	$	**1,456,135**
400758	RP4 ANOXIC TANK #1,2,3 MODIFICATION	$	1,739,077		2010	$	**2,250,658**
900104	NORTHERN SVC AREA-MASTER PLAN	$	1,085,784	06PL01001:Regional Administration	2006	$	**1,596,019**
400813	RP1 Gas storage Tank Digester NO.3	$	1,123,229	RP-1 Digester No. 3 Roof Repair	2012	$	**1,374,937**
602474	RP5 Gas Flare System Sypply and Installation	$	1,133,618	RP5 System Fac Upgrade & Imprv	2014	$	**1,317,115**
400975	RP1 Dewatering Building	$	1,179,673		2015	$	**1,339,360**
601964	RP5 NATURAL GAS COMPRESSOR	$	986,244		2010	$	**1,276,366**
300047	INTERCEPTOR-KIMBALL AVE/CHINO	$	886,432	04EN97004/01:Main Office Administration	2004	$	**1,419,520**
400826	RP1 Dechlorination Overflow Strucure	$	1,028,578	RP1 Dechlor/Solids Upgrades	2012	$	**1,259,075**
400810	RP2-SARI Dump Site Improvement	$	1,101,120	RP2-SARI Dump Site Relocation	2012	$	**1,347,874**

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Inland Empire Utilites Agency

Wastewater Connection Fee

Asset List

Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
300051	RP4 VLVS.MTRS.VLTS OUTFLL CON	$ 984,053	99EN97020706:RP4 - Primary / Secondary	1999	**$ 1,850,498**
400444	TERTIARY CHEMICAL FACILITY	$ 732,147	R5EN95028/27:RP5 - Tertiary Operation	2005	**$ 1,120,331**
400065	LINE EQUALIZATION POND #3	$ 580,147	97EN94038001:RP1 - Primary/Secondary	1997	**$ 1,134,589**
400945	RP1 Primary Clarifier Sandblast & Recoat Concrete	$ 997,489	RP-1 Primary Clarifier Rehabilitation 1-6	2015	**$ 1,132,514**
400445	TERTIARY FILTER	$ 716,166	R5EN95028/28:RP5 - Tertiary Operation	2005	**$ 1,095,876**
601957	RP4 CHEMICAL STORAGE TANK	$ 1,300,000		2010	**$ 1,682,419**
601958	RP4 BECTEE BIOFILTER SYSTEM	$ 1,300,000		2010	**$ 1,682,419**
601941	DIGESTER TANK	$ 825,095		2010	**$ 1,067,813**
150123	RP5 Magnolia Channel Wetland Restoration Site Impr	$ 885,581	Magnolia Channel Wetland Restoration	2013	**$ 1,056,896**
602473	RP5 High Pressure Gas Compression System	$ 908,436	RP5 System Fac Upgrade & Imprv	2014	**$ 1,055,483**
602284	RP1 Aeration BioFilter	$ 898,998	RP1 Odor Control - Phase I	2013	**$ 1,072,908**
400823	RP5 SHF Gas Treatment and Flaring System	$ 851,071	Complete Mix Digestion Tech	2012	**$ 1,041,791**
300398	ONTARIO ION EXCHANGE BRINE SEWER LINE & LINERS	$ 902,876	CONSTRUCT BRINE LINE LATERAL TO NRW	2010	**$ 1,168,473**
300542	SB Ave 18" Vitrified Clay Pipe (VCP) Sewer Line	$ 1,099,618	San Bernardino Lift Station - SB Ave Gravity Sewer	2017	**$ 1,166,880**
400144	RP4 OXIDATION DITCH#1 STRUCTURE	$ 851,122	99HSOD7203:RP4 - Solids Handling	1999	**$ 1,600,523**
400145	RP4 OXIDATION DITCH#2 STRUCTURE	$ 851,122	99HSOD7202:RP4 - Solids Handling	1999	**$ 1,600,523**
400146	RP4 OXIDATION DITCH#3 STRUCTURE	$ 851,122	99HSOD7201:RP4 - Solids Handling	1999	**$ 1,600,523**
400422	BLOWER & POWER BUILDING	$ 663,006	R5EN95028/03:RP5 - Primary / Secondary	2005	**$ 1,014,531**
400760	PREASSEMBLED ELECTRICAL RP1 BUILDING	$ 795,970		2010	**$ 1,030,119**
300107	CUCAMONGA TRUNK RELIEF SEWER	$ 372,608	OLD00084:RP1 - Primary/Secondary	1984	**$ 1,023,492**
602297	RP1 Aeration Piping	$ 852,333	RP1 Odor Control - Phase I	2013	**$ 1,017,216**
300054	RP4 CONNECTION SEGMENTS I &II	$ 816,905	99EN97020713:RP4 - Primary / Secondary	1999	**$ 1,536,178**
150121	Aramark Grading	$ 800,845	RP5 Utilitiy Water Pipeline	2012	**$ 980,309**
300006	NRW SEWER BRINE PIPELINE	$ 749,595	06EC05011:NRW General Administration	2006	**$ 1,101,847**
300200	FONTANA INTERCEPTOR	$ 1,605,453	OLD00061:RP2 - Primary/Secondary	1985	**$ 4,374,056**
400863	RP1 Aeration Structure	$ 834,004	RP1 Odor Control - Phase I	2013	**$ 995,342**
400530	RP1 TO RP5 BY-PASS PLANT STRUCTURE	$ 786,263		2008	**$ 1,077,917**
900106	1.0MGD SARI PIPELINE CAPACITY	$ 551,344	98SARI000001:NRW Southern System	1998	**$ 1,061,139**
300429	NRW Edison Slip Linning 24"-2005 LF	$ 845,859	NRW Systems Upgrades	2012	**$ 1,035,410**
400506	CCWRF Chlorination Facility-Plant Structure	$ 965,437		2008	**$ 1,323,554**
400225	RP1 AERATION BASIN-STRUCTURE	$ 341,022	OLD00718:RP1 - Solids Handling	1984	**$ 936,729**
300177	Pipeline	$ 714,978		2008	**$ 980,190**
300410	NRW COLLECTIONS SYSTEM REPAIRS-PIPELINES & MANHOL	$ 798,399	NRW Pipelines & Manholes	2012	**$ 977,315**
400091	RP1 ODOR CONTROL IMPROVEMENTS	$ 462,011	99EN97024:RP1 - Primary/Secondary	1999	**$ 868,805**
400820	Philly Pump Station Motor Control Center	$ 762,203	Phil Pump Station Upgrades	2012	**$ 933,008**
400959	RP1 Dewatering Site Pavement, Concrete Curbs	$ 699,646	Gutters, Sidewalks, Protective Coating, Monorail	2015	**$ 794,353**
400745	RP1 AERATION BASIN MODIFICATION	$ 595,238		2010	**$ 770,339**
400417	RP1 DAIRY MANURE DIGEST PILOT	$ 523,891	06PL01008:RP1 Manure Digester	2006	**$ 770,079**
400433	EMERGENCY STORAGE BASIN PUMP	$ 489,766	R5EN95028/14:RP5 - Primary / Secondary	2005	**$ 749,439**
900113	SARI MAIN INTERCEPTOR	$ 176,881	76SARREACHES:NRW Southern System	1976	**$ 839,381**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
400858	RP5 Piping Improvements	$	623,000	RP5 Solid Fac Mixing Tank Mod	2013	$	**743,519**
400974	RP1 Dewatering Exposed Piping	$	670,690	4" & 8" UW, 6" & 8" DSL, 8"-12" CN/Drain	2015	$	**761,477**
400151	RP4 BROWN STORAGE WATER POND	$	613,922	99HSSP7201:RP4 - Solids Handling	1999	$	**1,154,472**
400865	CCWRF Aeration Basin S.S. Piping	$	896,276	CCWRF Aeration Basin Air Ducting Replacement Proje	2013	$	**1,069,660**
601959	RP4 LIQUID CHEMICAL FEED SYSTEM	$	864,227		2010	$	**1,118,455**
100031	LAND-ADMIN BUILDING A	$	526,024	R5EN95028/43:Main Office Administration	2005	$	**804,921**
100032	LAND-ADMIN BUILDING B	$	525,946	R5EN95028/44:Main Office Administration	2005	$	**804,802**
400116	RP4 AERATOR DIGESTER STRUCTUR	$	584,061	99HADB7201:RP4 - Solids Handling	1999	$	**1,098,319**
300490	RP1 Dewatering Digested Sludge Pipeline	$	598,106	RP1 Dewatering Facility Expansion	2015	$	**679,069**
400748	RP5 RENEWABLE ENERGY PHASE II EXPANSION	$	510,195		2010	$	**660,278**
603163	Phil Pump Station Station PLC System	$	649,035	Philadelphia Pump Station	2015	$	**736,891**
400142	RP4 INFLUENT PUMP STA. STRUCT	$	534,200	99HSIP7001:RP4 - Primary / Secondary	1999	$	**1,004,556**
300085	CUCAMONGA INTERCEPTOR - I.D.C	$	112,618	OLD00027:RP1 - Primary/Secondary	1974	$	**635,227**
400825	RP1 Digester No. 7 Rehabilitation	$	518,919	RP1 Assessment Work	2012	$	**635,205**
400814	RP5 Wellhead Electrical Digesters	$	503,502	RP5 Utilitiy Water Pipeline	2012	$	**616,334**
300437	RP1 8" SDR9/IPS 200 HDPE Pipe	$	518,524	RP-1 Filtrate/Centrate Pipeline Improvem	2013	$	**618,832**
400734	RP1 Digester 6 & 7 Emergency Structure	$	478,064		2010	$	**618,695**
400942	RP5 HVAC Piping	$	529,579	Central Plant for the New Operations Lab	2015	$	**601,265**
400726	EN06811-RP5 Solid Handling Improvement	$	425,133	EN06811-RP5 Solid Handling Improvement	2008	$	**582,831**
400492	RP1 DIG 5,6,&7 SEISMIC RETROFIT	$	416,923	:	2007	$	**595,956**
600368	RP4 HEADWORKS STRUCTURE	$	479,428	99HWB7001:RP4 - Primary / Secondary	1999	$	**901,557**
300435	RP5 Piping System & Misc Valves	$	465,689	RP5 Solid Fac Co-Digestion	2012	$	**570,046**
400727	EN06811 RP5 SOLID HANDLING IMPROVEMENT	$	426,781	EN06811 RP5 SOLID HANDLING IMPROVEMENT	2009	$	**567,407**
300390	RP5 CAPACITY IMPROVEMENT	$	437,275		2010	$	**565,907**
400824	RP1 Digester No. 6 Rehabilitation	$	472,328	RP1 Assessment Work	2012	$	**578,174**
400126	RP4 ADMINISTRATION BUILDING	$	459,449	99HBA7001:RP4 - Administration	1999	$	**863,987**
400799	NRWS S. Manholes and Covers-Ontario	$	482,934	Collection Systm Emerg Upgrade	2011	$	**606,668**
400148	RP4 RECYCLE PUMP STA. STRUCTURE	$	442,474	99HSRS7201:RP4 - Solids Handling	1999	$	**832,065**
400432	EMERGENCY STORAGE BASIN	$	341,697	R5EN95028/13:RP5 - Primary / Secondary	2005	$	**522,865**
400932	RP-1 DIGESTER #1 IRON SPONGE #3 INSTALLATION	$	462,425	INSTALLATION COST ONLY	2015	$	**525,021**
603147	Montclair Lift Station PLC System	$	521,099	Montclair Lift Station	2016	$	**574,298**
601956	RP4 SECONDARY ANOXIC SPLITTER BOX	$	600,000		2010	$	**776,501**
601939	RP1 AERATION BASIN AND CHANNELS SYSTEM	$	393,672		2010	$	**509,478**
400849	RP5 4 Food Waste Tanks 100,200,300,400	$	405,485	RP5 Solid Fac Co-Digestion	2012	$	**496,352**
400826	RP1 Dechlorination Overflow Strucure	$	415,091	RP1 Dechlor/Solids Upgrades	2012	$	**508,110**
150044	SITEWORK	$	202,155	OLD01253:RP1 - Solids Handling	1989	$	**499,095**
400984	RP-1 Centrifuge Dewaltering Bldg Stair and Catwalk	$	451,269		2016	$	**497,339**
400787	RP1 Food Waste Storage Pump Station	$	393,139	RP1 Food Waste Storage Pump Station	2011	$	**493,867**
400750	SAN BERNARDINO AVE PUMP STATION TANK STRUCTURES	$	408,449		2010	$	**528,602**
300078	PIPELINE - 1.6 MILES	$	217,795	OLD00016:NRW General Administration	1990	$	**524,414**

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400819	Philly Pump Station Improvement-Piping & Precast	$	423,864	Phil Pump Station Upgrades	2012	$	**518,849**
400827	RP1 Dechlorination Overflow Pipe	$	384,187	RP1 Dechlor/Solids Upgrades	2012	$	**470,281**
401050	RP1 ACCESS ROAD TRUCK TURN WIDENING-RETAINING WALL	$	451,866	RP1 WASTEWATER TERTIARY	2018	$	**465,422**
401051	RP4 SOUTH SIDE SAFETY WALL	$	451,836	RP1 WASTEWATER TERTIARY	2018	$	**465,391**
401008	Phil Pump Station Station Piping	$	444,531	Philadelphia Pump Station	2015	$	**504,705**
300083	UPLAND INTERCEPTOR TRUNK	$	70,515	OLD00022:RP1 - Primary/Secondary	1972	$	**458,320**
400440	PRIMARY SLUDGE PUMP STATION	$	291,756	R5EN95028/23:RP5 - Primary / Secondary	2005	$	**446,444**
300197	TERTIARY OUTFALL - T.P. #1	$	70,075	OLD00200:RP1 - Tertiary	1972	$	**455,462**
100014	LAND-FONTANA INTERCEPTOR	$	166,987	OLD05492:RP1 - Primary/Secondary	1985	$	**454,955**
602058	RP1 Turblex Blower #4 KA22SV-GL225 Single Stage	$	349,331	RP1 Blower #4 Instl	2010	$	**452,093**
401010	RP4 HEADWORK (FRP) BUILDING	$	602,498	FIBERGLASS REINFORCED OPTIC (FRP) BUILDING	2015	$	**684,055**
400957	RP1 Dewatering Site Underground Duct Bank	$	392,929		2015	$	**446,117**
400218	CONTROL CENTER BLDG.	$	162,191	OLD00612:RP1 - Solids Handling	1984	$	**445,512**
300089	ADDITION 74/75	$	78,715	OLD00031:RP1 - Primary/Secondary	1974	$	**443,994**
400973	RP1 Dewatering Ductile Iron Pipe	$	384,323		2015	$	**436,347**
602156	RP1 Dechlorination SBS Diaphragm Metering Pump	$	354,188	RP1 Dechlor/Solids Upgrades	2012	$	**433,559**
400439	PRIMARY CHEMICAL FACILITY	$	276,242	R5EN95028/22:RP5 - Primary / Secondary	2005	$	**422,706**
400426	SPLITTER BOX BUILDING	$	275,608	R5EN95028/07:RP5 - Primary / Secondary	2005	$	**421,735**
400226	RP1 - Solids Handling SEC. CLAR.-STRUCTURE	$	157,164	OLD00770:RP1 - Solids Handling	1984	$	**431,703**
602586	RP-1 250 HP HURST HOT WATER BOILER #1	$	370,733	FOR RP-1 SOLIDS MGMT BUILDING	2015	$	**420,917**
602587	RP-1 250 HP HURST HOT WATER BOILER #2	$	369,669	FOR RP-1 SOLIDS MGMT BUILDING	2015	$	**419,709**
900242	Speedway Waterwater Water Rights	$	433,519		2017	$	**460,037**
400442	POWER CENTER 3	$	264,312	R5EN95028/25:RP5 - Tertiary Operation	2005	$	**404,450**
602807	RP1 Dewatering PCS System (Hardware & Software)	$	361,680	RP1 Dewatering Facility Expansion	2015	$	**410,638**
150131	RP5 Pond Grading Construct Concrete/RipRap Outfall	$	350,779	RP-5 Pond/Drainage Improvements	2015	$	**398,262**
400817	RP2 SARI Dump Station Improvement-Gates, Fencing,	$	1,455,079	RP2 Dewater Cake Storage System	2012	$	**1,781,153**
300095	WESTSIDE INTCPTR PHASE II & I	$	114,222	OLD00050:RP1 - Primary/Secondary	1980	$	**402,048**
400138	RP4 BLOWER BUILIDNG STRUCTURE	$	320,827	99HSFB7401:RP4 - Tertiary	1999	$	**603,310**
400139	RP4 BACKWASH PUMP STATION BLD	$	320,827	99HSBP7401:RP4 - Tertiary	1999	$	**603,310**
400141	RP4 FILTER BANK#3 STRUCTURE	$	320,827	99HSBB7401:RP4 - Tertiary	1999	$	**603,310**
400940	RP-1 GRAVITY THICKENER CLARIFIER	$	347,017	RP-1 GT CLARIFIER REHABILITAION	2015	$	**393,991**
400131	RP4 SOLIDS DEWATERING BLDG	$	315,608	99HCPA7201:RP4 - Solids Handling	1999	$	**593,497**
600270	RP4 COMPRESSOR AIR SOLIDS BLG	$	315,608	99HBSD7201:RP4 - Solids Handling	1999	$	**593,497**
400851	RP1 & RP4 Equalization Basins Repairs	$	354,667	RP4 Storage Pond Improvements	2013	$	**423,277**
602656	RP1 Areation Seconday Victaulic Expansion Joints	$	340,152	RP-1 Aeration Ducting	2015	$	**386,196**
603528	Montclair Flow Metering Station Control Panel	$	399,174	Montclair Flow Metering Station	2017	$	**423,591**
100011	LAND-CUCA. INTERCEPTOR-I.D.C.	$	67,907	OLD05489:RP1 - Primary/Secondary	1974	$	**383,030**
400903	RP2 Digester #4 Dome Improvement	$	1,467,054	Wasterwater Solids-RP2 Digester 4 Dome Imprvmnts	2015	$	**1,665,641**
900240	RP5 Server Room Factory Talk SE (Plant Pax)	$	344,815	SCADA AT CARBON CANYON AND RP5	2017	$	**365,907**
400864	RP1 Aeration Tanks	$	313,608	RP1 Odor Control - Phase I	2013	$	**374,275**
300106	5900.82 FT. ONT. UTIL. INTERC	$	138,999	OLD00079:RP1 - Primary/Secondary	1986	$	**368,739**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
400819	Philly Pump Station Improvement-Piping & Precast	$	423,864	Phil Pump Station Upgrades	2012	$	**518,849**
400936	NRW Collection Sys Manhole PCC Aprons	$	357,133	NRW Collection System Repair Phase 4 - R	2015	$	**405,476**
400740	RP5 CAPACITY IMPROVEMENT	$	276,105		2010	$	**357,327**
603187	RP4 HEADWORK FINE SCREEN BAR #1	$	487,589		2015	$	**553,591**
603190	RP4 HEADWORK FINE SCREEN BAR #2	$	487,589		2015	$	**553,591**
400077	FLOCCULATION/SEDIMENTATION BA	$	197,648	00EN96024:RP1 - Tertiary	2000	$	**361,996**
400786	Rehabilitation Prado Park Interceptor Manhole #6	$	315,337	Prado Park Interceptor Improvements	2011	$	**396,131**
400135	RP4 ANOXIC TANK#1 STRUCTURE	$	281,525	99HSAT7003:RP4 - Primary / Secondary	1999	$	**529,404**
400136	RP4 ANOXIC TANK#2 STRUCTURE	$	281,525	99HSAT7002:RP4 - Primary / Secondary	1999	$	**529,404**
400137	RP4 ANOXIC TANK#3 STRUCTURE	$	281,525	99HSAT7001:RP4 - Primary / Secondary	1999	$	**529,404**
900107	SARI TREATMENT CAPACITY	$	198,828	98SARI000002:NRW Southern System	1998	$	**382,671**
602475	RP5 Misc Materials and Equipment	$	290,878	RP5 System Fac Upgrade & Imprv	2014	$	**337,961**
603135	Low Voltage Motor Control Center (MCC)	$	344,967	Montclair Lift Station	2016	$	**380,185**
602301	RP1 Aeration Trickling Filter	$	287,771	RP1 Odor Control - Phase I	2013	$	**343,440**
400130	RP4 BIO-RECY. PUMP STA. BLDG.	$	276,662	99HBRB7001:RP4 - Primary / Secondary	1999	$	**520,259**
400866	CCWRF Aeration Basin Concrete Stands Structures	$	402,901	CCWRF Aeration Basin Air Ducting Replacement Proje	2013	$	**480,842**
400828	RP1 Dechlorination 6" Waterline	$	272,546	RP1 Dechlor/Solids Upgrades	2012	$	**333,622**
400956	RP1 Dewatering Site Solar Panel Roof Tiles System	$	292,861		2015	$	**332,504**
300413	NRW Lateral Brine Waste Pipeline 4,000 Feet	$	295,931	City of Chino Lateral Connection -	2012	$	**362,248**
400829	RP1 Primary Clarifier Air Header & Diffuser	$	267,363	RP1 Dechlor/Solids Upgrades	2012	$	**327,277**
150130	RP5 Facility Mountain Ave Improvement	$	272,162	Mountain Avenue Improvements	2014	$	**316,216**
400975	RP1 DWTR BLDG Vertical Conveyor Housing Rplcmnt	$	283,301		2015	$	**321,650**
300114	ADDITION 78/79	$	83,663	OLD00099:NRW General Administration	1978	$	**343,389**
601588	Aeration Sys Mod	$	246,149		2008	$	**337,456**
602704	Chiller 5 Ton and Associated System	$	294,634	Central Plant for the New Operations Lab	2015	$	**334,517**
602230	RP5 Tank Mixing Assemeblies	$	245,856	RP5 Solid Fac Mixing Tank Mod	2013	$	**293,416**
400021	RP4 CO-GENERATION STATION	$	282,629	EN01033:RP4 - Primary / Secondary	2004	$	**452,599**
602851	RP1 Dewatering Polymer Blending Unit	$	258,953	RP1 Dewatering Facility Expansion	2015	$	**294,007**
602714	RP1 Primary Clarifier Sluice Gates	$	256,970	RP-1 Primary Clarifier Rehabilitation 1-6	2015	$	**291,755**
602472	RP5 Electrical Equipment	$	244,048	RP5 System Fac Upgrade & Imprv	2014	$	**283,551**
400739	RP5 UTILITY WATER PIPELINE	$	218,401		2010	$	**282,647**
100010	LAND-MONTCLAIR INTERCEPTOR	$	65,349	OLD05487:RP1 - Administration	1977	$	**289,043**
603100	RP5 STANDBY GENERATOR CONTROL SYSTEM	$	247,921	RP5 POWER CENTER 3 BLDG	2015	$	**281,481**
400876	CCWRF Clarifler #1 Paint and Coat	$	349,041	CCWRF Secondary Clarifiers Rehab Phase 1	2014	$	**405,540**
400223	RP1 - Solids Handling PRIM. CLAR. #1.#2.#3.#4	$	103,856	OLD00665:RP1 - Solids Handling	1984	$	**285,274**
300109	WW-#8 REGIONAL CONNECTION	$	124,494	CW92008:RP1 - Primary/Secondary	1992	$	**284,546**
601578	RP1 TO RP5 BY-PASS ELECTRICAL EQUIP	$	226,090		2008	$	**309,955**
400955	RP1 Dewatering HDPE Protective Liner / Pipe	$	248,114		2015	$	**281,700**
400821	NRW 43 Pressure Manhole Covers	$	252,555	NRW Systems Upgrades	2012	$	**309,151**
400798	NRWS S. Manholes Sleeves-Chino	$	244,573	Collection Systm Emerg Upgrade	2011	$	**307,236**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
400830	RP1 Slide Gates Headwork's	$ 226,372	A-G-1/2/3/4/5/6/7/8/101/107/108/110	2012	**$ 277,100**
300433	Philly Pump Station Improvement-Gate Valves	$ 247,838	CM Misc NRWS Construction & Emerg Proj	2012	**$ 303,377**
400897	Slip Line Piping Process Srructures	$ 257,214	NRW Collection System Repairs Phase 3	2014	**$ 298,848**
300188	PIPELINES	$ 217,465		2008	**$ 298,131**
300498	RP-1 Primary Clarifier 42" Vitrified Clay Pipe	$ 245,285	RP-1 Primary Clarifier Effluent 36" VCP	2016	**$ 270,326**
601025	RP1 MISCRO TURBINES	$ 176,591	R5EN95028/37:RP1 - Primary/Secondary	2005	**$ 270,220**
602949	Montclair Lift Stn Monopole Communication Towel	$ 267,884	Wireless Monopole Communication Towel	2016	**$ 295,232**
400737	RP-1 SOLAR POWER PLANT AREA 4	$ 205,654		2010	**$ 266,150**
602888	RP1 Laboratory HVAC System	$ 233,208	RP-1 Asset Replacement	2015	**$ 264,776**
601885	RP5 1,000 kW STANDBY DIESEL ENGINE GENERATOR #2	$ 198,365	RP5 POWER CENTER 3	2010	**$ 256,718**
401007	Montclair Lift Station Station Piping	$ 261,940	Montclair Lift Station	2016	**$ 288,681**
900241	CCWRF Server Room Factory Talk SE (Plant Pax)	$ 344,815	SCADA AT CARBON CANYON AND RP5	2017	**$ 365,907**
601886	RP5 1,000 kW STANDBY DIESEL ENGINE GENERATOR #2	$ 193,469	RP5 POWER CENTER 3	2010	**$ 250,381**
602124	Philly Pump Station Self Priming Engine Driven Pum	$ 223,019	Phil Pump Station Upgrades	2012	**$ 272,996**
603774	RP5 Server Room Servers	$ 226,132	SCADA AT CARBON CANYON AND RP5	2017	**$ 239,965**
603775	RP5 Server Room Servers	$ 226,132	SCADA AT CARBON CANYON AND RP5	2017	**$ 239,965**
400534	RP1 MODERNIZATION	$ 177,535		2008	**$ 243,390**
300104	FONTANA IRS	$ 105,922	EN90005:RP1 - Primary/Secondary	1992	**$ 242,097**
400892	RP5 Permanent Boiler and Plarform	$ 202,408	RP5 System Fac Upgrade & Imprv	2014	**$ 235,172**
601589	Aeration Sys Mod	$ 191,985		2008	**$ 263,200**
400431	EFFLUENT METERING BOX	$ 152,019	R5EN95028/12:RP5 - Primary / Secondary	2005	**$ 232,619**
300469	Collection Sys Intercptr 520' Lining 21" Dia VCP	$ 230,003	Repairs Phase V @ Pipline & Eucalyptus Ave	2015	**$ 261,137**
900108	SARI TREATMENT CAPACITY	$ 135,441	98SARI000004:NRW Southern System	1998	**$ 260,675**
603764	CCWRF Headwork Bldg Control Panel	$ 311,907	SCADA AT CARBON CANYON AND RP5	2017	**$ 330,986**
400182	MONTCLAIR LIFT STA. BLDG. STRUCTUR	$ 58,311	Montclair Lift Station Building	1977	**$ 257,913**
400735	RP-5 SOLAR POWER PLANT STRUCTURE	$ 176,810		2010	**$ 228,822**
602817	RP1 Dewatering Truck Scale System	$ 205,849	RP1 Dewatering Facility Expansion	2015	**$ 233,714**
300497	RP-1 Primary Clarifier Effluent 36" Steel Pipe	$ 211,837	RP-1 Primary Clarifier Effluent 36" Steel Pipe	2016	**$ 233,463**
400947	Wastewater Col Sys Manhole 36" Diametr Frame/Cover	$ 222,773	Sewer Collection System Manhole Rehabili	2015	**$ 252,929**
300068	CENTER INTERCEPTOR -- A	$ 25,583	OLD00004:NRW General Administration	1968	**$ 252,370**
600272	RP4 CENTRIFUGE SLDGE DEWTR 2E	$ 184,800	99HCSD7201/2:RP4 - Solids Handling	1999	**$ 347,514**
400405	RP1 DIG/CLEAN EQUIP. LAGOON	$ 118,671	99PA96006:RP1 - Primary/Secondary	1999	**$ 223,159**
100038	16 ACRES C.B.MASINGALE TRTMNT	$ 160,858	OLD05505:RP1 - Tertiary	2008	**$ 220,527**
400150	RP4 SWITCHGEAR(SCE MAIN) BLDG	$ 177,984	99HSSG7001:RP4 - Primary / Secondary	1999	**$ 334,695**
400986	CCWRF Secondary Clarifier No. 3 Rehab - Painting	$ 272,445		2015	**$ 309,325**
500020	RP4 MCC Power Center 5 Stairs & Catwalk Imprvmt	$ 313,351	RP4 MCC Power Center 5 Roof Access Impvmnt	2017	**$ 332,519**
400054	RP1 NITROGEN DESIGN & CONSTRU	$ 104,008	9500184:RP1 - Primary/Secondary	1995	**$ 216,605**
602816	RP1 Dewatering Bridge Crane	$ 187,705	RP1 Dewatering Facility Expansion	2015	**$ 213,113**
603126	RP1 PRIMARY CLARIFIER #5 SLUDGE COLLECTOR	$ 187,700	PLANT 3 RP1 PRIMARY CLARIFIERS	2015	**$ 213,108**
603126	RP1 PRIMARY CLARIFIER #2 SLUDGE COLLECTOR	$ 187,700	PLANT 3 RP1 PRIMARY CLARIFIERS	2015	**$ 213,108**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
602095	Fabricated Aeration Basin Panel Membranes	$	189,929	RP1/RP5/CCWRF Aeration Basin Clean Air Panel Replm	2012	$	**232,491**
400943	RP5 Concrete	$	181,157	Central Plant for the New Operations Lab	2015	$	**205,679**
602181	Gas Cleaning System for Bioga Generators	$	170,951	Gas Cleaning Systems for RP-1, RP-2, & R5	2012	$	**209,260**
603763	CCWRF Server Room Control Panel	$	274,339	SCADA AT CARBON CANYON AND RP5	2017	$	**291,120**
400902	Install 54" Casing arounf 27" Diameter Exist Pipe	$	198,936	Casing Ext for Reg and NRW Crossing UPRR	2015	$	**225,865**
400128	RP4 MCC#1 BUILDING	$	165,510	99HBMC7401:RP4 - Primary / Secondary	1999	$	**311,239**
400129	RP4 MCC#2 BUILDING	$	165,510	99HBMC7001:RP4 - Primary / Secondary	1999	$	**311,239**
100020	RIGHT OF WAY BAINBRIDGE 87/88	$	79,125	OLD05498:RP1 - Primary/Secondary	1987	$	**204,616**
100019	RIGHT OF WAY BAINBRIDGE 87/88	$	77,709	OLD05497:RP1 - Primary/Secondary	1987	$	**200,954**
400895	CCWRF Influent Flow Structure & Parshall Flumes	$	242,138	Plant Equipment Improvements	2014	$	**281,333**
400222	HEADWORKS-GRIT CHAMBER BLDG STRUCTURE REHAB	$	72,670	MAJOR FACILITIES REPAIRS/REPLACEMENTS	1984	$	**199,613**
602848	RP1 Dewatering Building Flexible / Rigid Conduit	$	175,686	RP1 Dewatering Facility Expansion	2015	$	**199,467**
603768	CCWRF Chemical Bldg Control Panel	$	263,821	SCADA AT CARBON CANYON AND RP5	2017	$	**279,959**
401035	Montclair Diversion Structure Imprv-Splttr Bx Area	$	205,923	Splitter Box Area Structure Improvement	2017	$	**218,519**
400968	RP1 Dewatering Handrails	$	174,047		2015	$	**197,606**
602144	RP1 VFD's RAS Pumps	$	159,719	RP1 Assessment Work	2012	$	**195,511**
400972	RP1 Dewatering Plumbing / Refigerant Piping System	$	172,131		2015	$	**195,432**
603765	CCWRF Aeration Bldg Control Panel	$	258,762	SCADA AT CARBON CANYON AND RP5	2017	$	**274,590**
400622	TERTIARY FILTER STRUCTURE	$	70,915	OLD02233:RP1 - Tertiary	1984	$	**194,791**
602227	RP1 Control Panels (9)	$	163,011	RP-1 Digester Gas Condensate S	2013	$	**194,546**
400476	EMERGENCY PIPELINE REPL-ELM	$	148,753	:	2007	$	**212,630**
602430	RP5 Screenings Washer Monster SWM4024-XE System	$	161,904	Install New Rag Compactor at RP5	2014	$	**188,111**
900087	CAP COST-SEC TREATMENT	$	92,461	OLD05584:NRW General Administration	1992	$	**211,331**
300079	ONTARIO INTERCEPTOR TRUNK	$	28,682	OLD00018:RP1 - Primary/Secondary	1972	$	**186,420**
400675	Regional Facilities Repair	$	149,548		2008	$	**205,021**
602847	RP1 Dewatering Site 600 Volt/Medium Voltage Cable	$	163,878	Fiber Optic / Instrumentation Cable	2015	$	**186,062**
603166	Phil Pump Station Motor Control Center (MCC)	$	178,975	Philadelphia Pump Station	2015	$	**203,202**
400140	RP4 EFF CHANNEL STRUCTURE	$	148,904	99HSEC7401:RP4 - Tertiary	1999	$	**280,012**
400143	RP4 EFF METER VAULT STRUCTURE	$	148,904	99HSMV7401:RP4 - Tertiary	1999	$	**280,012**
400147	RP4 POST AERATION TANK STRUCT	$	148,904	99HSPA7401:RP4 - Tertiary	1999	$	**280,012**
400152	RP4 U.V. STRUCTURE	$	148,904	99HSUV7401:RP4 - Tertiary	1999	$	**280,012**
603294	RP1 HEADWORKS DCS CABINET (CONTROL PANELS)	$	161,096		2015	$	**182,903**
400796	NRWS N. Manholes and Covers-Fontana	$	158,841	Collection Systm Emerg Upgrade	2011	$	**199,538**
603124	RP1 FLARE HOFFMAN CONTROL PANEL (PLC)	$	164,433	RP1 DIGESTER GAS SYSTEM	2016	$	**181,220**
602951	RP-1 Primary Clarifier 42" Knife Gate Valve	$	164,118	RP-1 Primary Clarifier Effluent	2016	$	**180,872**
400883	CCWRF Concrete Surface Coating and Improvements	$	218,492	CCWRF Secondary Clarifier No.2 Rehab.	2014	$	**253,859**
400873	Philly PS Force Main NRW 36" Cleanout	$	168,844		2014	$	**196,174**
400067	TP1 FILTER	$	92,238	98EN94041001:RP1 - Tertiary	1998	$	**177,524**
400068	TP1 FILTER	$	92,238	98EN94041002:RP1 - Tertiary	1998	$	**177,524**
150140	RP1 Dewatering Sitework	$	152,120	RP1 Dewatering Facility Expansion	2015	$	**172,711**

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Asset List

Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
603146	Dry Pit Submersible No Clog Centrifugal Pump	$ 172,133	Montclair Lift Station	2016	**$ 189,706**
150134	RP2 Drying Beds Rehabilitation	$ 665,272	RP-2 Drying Beds Rehabilitation	2015	**$ 755,327**
400508	RP2 Digester Gas System Modifications	$ 547,661	Gas Flare Upgrade Modification & Control Upgrades	2008	**$ 750,809**
400741	CCWRF BUILDING STRUCTURAL	$ 185,415		2010	**$ 239,958**
603180	RP4 HEADWORK RAG COMPACTOR/SCREENINGS WASHER	$ 227,322		2015	**$ 258,093**
300543	SB Ave 6" & 15"Vitrified Clay Pipe(VCP) Sewer Line	$ 175,976	San Bernardino Lift Station - SB Ave Gravity Sewer	2017	**$ 186,741**
400020	RP2-2 SOLIDS HANDLING IMPROVEMENTS	$ 505,724	06EN01029:RP2 - Primary/Secondary	2006	**$ 743,375**
603146	Dry Pit Submersible No Clog Centrifugal Pump	$ 168,355	Montclair Lift Station	2016	**$ 185,542**
603146	Dry Pit Submersible No Clog Centrifugal Pump	$ 168,355	Montclair Lift Station	2016	**$ 185,542**
150004	RP1 ENTRY ROAD IMPRV/LANDSCAP	$ 113,505	06EN01015:RP1 - Primary/Secondary	2006	**$ 166,843**
400751	SAN BERNARDINO AND ETIWANDA AVE LIFT STATION	$ 141,100		2010	**$ 182,607**
150102	EN05056.01 RP5 FENCING IMRPOVEMENT	$ 121,456	EN05056.01 RP5 FENCING IMRPOVEMENT	2009	**$ 161,476**
601933	RP5 FUEL GAS COMPRESSION SYSTEM	$ 124,150		2010	**$ 160,670**
300056	RP4 VLVS.MTRS.VLTS OUTFLL CON	$ 132,332	99EN97021704:RP4 - Primary / Secondary	1999	**$ 248,849**
602853	RP1 Dewatering Submersible Centrifugal Pump	$ 143,154	RP1 Dewatering Facility Expansion	2015	**$ 162,532**
400058	CONVERT 002 DECHLOR TO SULFIT	$ 79,814	9600031:RP1 - Tertiary	1996	**$ 161,813**
601948	STANDBY GENERATOR	$ 137,039	SAN BERNARDINO AVE PUMP STATION	2010	**$ 177,351**
300069	SOUTH INTERCEPTOR -- B	$ 17,840	OLD00006:NRW Southern System	1968	**$ 175,989**
602962	CCWRF Weir Washer	$ 197,046		2015	**$ 223,719**
400070	CCWRF LINE EMERGENCY LAGOON	$ 114,121	97EN95008001:CCWRF - Primary/Secondary	1997	**$ 223,185**
602828	RP1 Dewatering FRP Fans	$ 138,643	RP1 Dewatering Facility Expansion	2015	**$ 157,410**
400971	RP1 Dewatering PVC & CPVC Pipes	$ 137,952		2015	**$ 156,626**
400040	RP3 DESIGN & CONSTRUCTION	$ 82,701	9500194:RP3 - Primary/Secondary	1995	**$ 172,233**
400970	RP1 Dewatering Ductwork & Copper / Steel Pipes	$ 137,708		2015	**$ 156,349**
400235	BRIDGE AND APPROACHES	$ 56,456	OLD01101:RP1 - Solids Handling	1984	**$ 155,076**
604012	HQA Backup Generator Installation	$ 164,409	Pre-existing Generator Installation	2018	**$ 169,341**
400479	RP1 SILOXANE DAMAGE RECOVERY	$ 107,606	:	2007	**$ 153,814**
400969	RP1 Dewatering Wall Pipe Plumbing	$ 134,490		2015	**$ 152,696**
603125	RP1 PRIMARY CLARIFIER #8 SLUDGE COLLECTOR	$ 137,010	PLANT 3 PRIMARY CLARIFIERS	2016	**$ 150,997**
603125	RP1 PRIMARY CLARIFIER #9 SLUDGE COLLECTOR	$ 137,010	PLANT 3 PRIMARY CLARIFIERS	2016	**$ 150,997**
400508	RP2 F-12 Gas Flare & Control Upgrade Modification	$ 483,203	RP2 Digester Gas System Safety Equipment install	2008	**$ 662,441**
603125	RP1 PRIMARY CLARIFIER #10 SLUDGE COLLECTOR	$ 136,891	PLANT 3 PRIMARY CLARIFIERS	2016	**$ 150,866**
100102	EASEMENT FOR 9774 CALABASH AVE/SB TRUNK LINE SEWER	$ 128,236		2010	**$ 165,959**
602156	RP1 Dechlorination SBS Diaphragm Metering Pump	$ 123,055	RP1 Dechlor/Solids Upgrades	2012	**$ 150,631**
602662	RP1 RAG Compactor System Installation	$ 132,307	Install Existing Screening Washer at RP-1	2015	**$ 150,217**
603125	RP1 PRIMARY CLARIFIER #7 SLUDGE COLLECTOR	$ 135,595	PLANT 3 PRIMARY CLARIFIERS	2016	**$ 149,438**
150066	RP5 LANDS RESTORATION/DEVELOPMENT	$ 101,009	:	2007	**$ 144,384**
400806	Riser Vault Structure Modification	$ 118,587	RP-1 Asst Mngmnt Items Ph 3 - RP1 60" PL Asst Cndt	2012	**$ 145,161**
602883	RP1 Dewatering Sludge Grinder	$ 127,823	RP1 Dewatering Facility Expansion	2015	**$ 145,126**
150062	REGIONAL SYS EMERGENCY PIPELINE	$ 111,650	:	2007	**$ 159,594**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
602702	RP5 Gas Boiler and Associated System	$ 123,422	Central Plant for the New Operations Lab	2015	**$ 140,129**
602662	RP-1 Screenings Washer (RAG Compactor System)	$ 125,498	Install New Screening Washer at RP-1	2015	**$ 142,486**
300050	ETIWANDA INTERCEPTOR CAP. INT	$ 85,417	00EN97019:Regional Interceptors	2000	**$ 156,443**
603125	RP1 PRIMARY CLARIFIER #6 SLUDGE COLLECTOR	$ 127,738	PLANT 3 PRIMARY CLARIFIERS	2016	**$ 140,779**
603125	RP1 PRIMARY CLARIFIER #4 SLUDGE COLLECTOR	$ 127,738	PLANT 3 PRIMARY CLARIFIERS	2016	**$ 140,779**
300018	NIAGRA BOTTLING LATERAL PIPLI	$ 104,720	06EN05070:NRW Northern System	2006	**$ 153,930**
602948	Philadelphia L/S Monopole Communication Towel	$ 138,442	Wireless Monopole Communication Towel	2016	**$ 152,576**
900239	CCWRF Factory Talk SE (Plant Pax)	$ 183,691	SCADA AT CARBON CANYON AND RP5	2017	**$ 194,927**
400816	RP2 FRP Chemical Storage Tanks	$ 494,514	RP2 Dewater Cake Storage System	2012	**$ 605,331**
603766	CCWRF Blower Bldg Control Panel	$ 181,946	SCADA AT CARBON CANYON AND RP5	2017	**$ 193,075**
603767	CCWRF Chemical Bldg Control Panel	$ 181,946	SCADA AT CARBON CANYON AND RP5	2017	**$ 193,075**
100041	EASEMENTS FOR SANTA ANA OUTFA	$ 18,835	OLD05506:RP1 - Tertiary	1971	**$ 135,741**
602955	CCWRF AUTOMATIC SPRAY ALGAE CLEANING SYSTEM	$ 168,155		2015	**$ 190,918**
602302	RP1 Aeration Blower	$ 112,965	RP1 Odor Control - Phase I	2013	**$ 134,818**
400780	RP-5 SBS Freeze Protection Tanks	$ 104,654	Agency Wide SBS Freezing Protection	2011	**$ 131,467**
400280	PUMP STATION #2	$ 54,129	OLD01262:RP1 - Solids Handling	1989	**$ 133,637**
100073	EASEMENTS FOR ARCHIBALD SEWERS	$ 113,430		2010	**$ 146,797**
900238	RP5 SCADA Vantage Point	$ 122,460	SCADA AT CARBON CANYON AND RP5	2017	**$ 129,951**
602815	RP1 Dewatering Silo Truckmate Concrete Deck Scale	$ 114,489	RP1 Dewatering Facility Expansion	2015	**$ 129,987**
602142	RP1 Sludge Valve Actuators	$ 105,374	ACPS-3001, 2, 3, 9 Thru 12,15 Thru 21, 23, 24	2012	**$ 128,987**
602123	Philly Pump Station Valves	$ 115,246	Phil Pump Station Upgrades	2012	**$ 141,072**
400918	RP1 Administration Bldg Renovations	$ 112,324	Agency Wide HVAC & Server Room Fire Suppression Im	2015	**$ 127,528**
400946	Wastewater Collection Sys Manhole Paving &Concrete	$ 123,435	Sewer Collection System Manhole Rehabili	2015	**$ 140,144**
300082	ONTARIO REGIONAL CONNECT. #4	$ 58,186	EN92017:RP1 - Primary/Secondary	1993	**$ 127,249**
602846	RP1 Dewatering Building 600 Volt Cable	$ 110,623	RP1 Dewatering Facility Expansion	2015	**$ 125,597**
602146	RP1 Secondary Clarifier No. 1 Equipment	$ 102,335	RP1 Assessment Work	2012	**$ 125,268**
300296	RP2 LIFT STATION	$ 358,261	R5EN95028/34:RP2 - Primary/Secondary	2005	**$ 548,211**
400885	CCWRF Secondary Clarifier #1 Rehabilitation	$ 149,864	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$ 174,123**
100036	SAN BERNARDINO PUMP STATION LAND	$ 94,877	:	2007	**$ 135,619**
300422	RP5 Primary Concrete Weir Walls	$ 98,118	RP-2 & RP-5 IPS Overflow	2012	**$ 120,106**
602650	RP1 Aeration Basin Secondary Victaulic Gasket Repl	$ 108,126	RP-1 Aeration Ducting	2015	**$ 122,762**
150107	EASEMENT FOR ARCHIBALD TRUCK-TURNER & RP-1 ACCESS	$ 104,322		2010	**$ 135,010**
300040	RP1 DAFT SUBNATANT LINE	$ 62,600	97EN93025001:RP1 - Primary/Secondary	1997	**$ 122,425**
300428	NRW Edison Slip Linning 21" RCP-200 LF	$ 109,845	NRW Systems Upgrades	2012	**$ 134,460**
602950	RP-1 Primary Clarifier 36" Knife Gate Valve	$ 110,601	RP-1 Primary Clarifier Effluent	2016	**$ 121,892**
400434	EMERGENCY PUMP STATION	$ 77,575	R5EN95028/15:RP5 - Primary / Secondary	2005	**$ 118,705**
602653	RP1 Areation Basin Secondary Butterfly Valves	$ 106,938	RP-1 Aeration Ducting	2015	**$ 121,414**
400805	Emergency ByPass Sewer Line of the 6" Sewer	$ 108,742	NRWS Philadelphia Pump Station Additional	2012	**$ 133,110**
401050	RP1 ACCESS ROAD TRUCK TURN WIDENING-ASPHALT	$ 115,731	RP1 WASTEWATER TERTIARY	2018	**$ 119,203**
900064	CSDOC - SUPPLEMENTARY TREATM	$ 63,020	9500196:NRW General Administration	1995	**$ 131,245**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
900088	RETRO CAP COST-SEC. TREATMENT	$ 57,264	OLD05585:NRW General Administration	1992	**$ 130,884**
900092	CONTRIBUTION 1983-84	$ 46,338	OLD05591:NRW General Administration	1983	**$ 129,850**
601961	RP1 CHEMICAL INDUCTION MIXER	$ 90,900		2010	**$ 117,640**
602421	CCWRF Power Center 12kV Switchgear Repair	$ 142,263	CCWRF 12 kV Switchgear Repair	2014	**$ 165,291**
603771	CCWRF Server Room Servers	$ 153,354	SCADA AT CARBON CANYON AND RP5	2017	**$ 162,735**
603772	CCWRF Server Room Servers	$ 153,354	SCADA AT CARBON CANYON AND RP5	2017	**$ 162,735**
603773	CCWRF Server Room Servers	$ 153,354	SCADA AT CARBON CANYON AND RP5	2017	**$ 162,735**
400111	RP1-AUTO SECONDARY EFF-LAGOON	$ 66,811	03EN99014:RP1 - Primary/Secondary	2003	**$ 113,703**
400462	RP1 DEWATERING MODS	$ 59,004	98TS95001001:RP1 - Solids Handling	1998	**$ 113,561**
400896	Cast in Place Piping Process Structures	$ 107,298	NRW Collection System Repairs Phase 3	2014	**$ 124,666**
602298	RP1 Aeration Seals	$ 94,429	RP1 Odor Control - Phase I	2013	**$ 112,696**
600207	TP1 OUTFALL VALVE/PRADO LAKES	$ 57,499	97EN95002001:RP1 - Tertiary	1997	**$ 112,450**
150125	RP4 Curb & 5' V / 2' V Gutter base	$ 146,692	RP-4 Grading and Drainage Improvements	2014	**$ 170,437**
300533	NRW Philadelphia Street 30" Manhole Frame & Cover	$ 110,692	NRW Coll Sys Manhole Upgrds-City of Ontario	2016	**$ 121,993**
602800	RP1 Dewatering DCS Network	$ 97,429	RP1 Dewatering Facility Expansion	2015	**$ 110,617**
400222	HEADWORKS-GRIT CHAMBER BLDG	$ 40,142	OLD00623:RP1 - Solids Handling	1984	**$ 110,263**
602147	RP1 Secondary Clarifier No. 2 Equipment	$ 89,976	RP1 Assessment Work	2012	**$ 110,139**
602232	RP5 Progressive Cavity Pumps	$ 90,000	RP5 Solid Fac Mixing Tank Mod	2013	**$ 107,410**
602232	RP5 Progressive Cavity Pumps	$ 90,000	RP5 Solid Fac Mixing Tank Mod	2013	**$ 107,410**
150128	RP5 Backfill Foundation	$ 91,780	RP5 System Fac Upgrade & Imprv	2014	**$ 106,636**
300132	SOUTHERN PACIFIC TRANSPORTATI	$ 18,403	OLD00135:NRW General Administration	1972	**$ 119,614**
602882	RP1 Dewatering Field Flow Meters and Instruments	$ 95,436	RP1 Dewatering Facility Expansion	2015	**$ 108,355**
602881	RP1 Dewatering Submersible Centrifugal Pump	$ 95,301	RP1 Dewatering Facility Expansion	2015	**$ 108,202**
400831	RP1 Primary Sluice & Scum Gates Primary's	$ 88,113	RP1 Dechlor/Solids Upgrades	2012	**$ 107,859**
400485	RP1 DIGESTER GAS STORAGE, III	$ 75,273	:	2007	**$ 107,597**
602422	CCWRF Screenings Washer Compactor Monster System	$ 130,055	Install New Screenings Washer Compactor CCWRF	2014	**$ 151,107**
400958	RP1 Tote Storage Area Foundation Concrete	$ 93,772	Steel Cover and Supports	2015	**$ 106,466**
400900	13' of 20" Casing Around 8" Diameter Pipe	$ 102,476	Casing Extension For NRW Crossing UPRR	2015	**$ 116,348**
400891	RP5 Barscreen Walkway	$ 88,585	RP5 System Fac Upgrade & Imprv	2014	**$ 102,924**
601942	CHEMICAL TANK	$ 79,520		2010	**$ 102,913**
602145	RP1 VFD's WAS Pumps	$ 86,022	RP1 Assessment Work	2012	**$ 105,299**
602927	RP-1 Maint Bldg 20 Ton Air Handling Unit	$ 94,603	Agency-Wide HVAC Improvements - Pckg No.2	2016	**$ 104,261**
602798	RP1 Dewatering PCS Development/Operator Workstatns	$ 91,083	PCS Spare Parts	2015	**$ 103,412**
400238	RP1 - Solids Handling PRIMARY CLARIFIER #4	$ 37,905	OLD01124:RP1 - Solids Handling	1985	**$ 103,272**
400239	RP1 - Solids Handling PRIMARY CLARIFIER #5	$ 37,905	OLD01123:RP1 - Solids Handling	1985	**$ 103,272**
400240	RP1 - Solids Handling PRIMARY CLARIFIER #6	$ 37,905	OLD01122:RP1 - Solids Handling	1985	**$ 103,272**
400241	RP1 - Solids Handling PRIMARY CLARIFIER #7	$ 37,905	OLD01121:RP1 - Solids Handling	1985	**$ 103,272**
400242	RP1 - Solids Handling PRIMARY CLARIFIER #8	$ 37,905	OLD01120:RP1 - Solids Handling	1985	**$ 103,272**
400243	RP1 - Solids Handling PRIMARY CLARIFIER #9	$ 37,905	OLD01119:RP1 - Solids Handling	1985	**$ 103,272**
400244	RP1 - Solids Handling PRIMARY CLARIFIER #10	$ 37,905	OLD01118:RP1 - Solids Handling	1985	**$ 103,272**

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Asset List

Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
602273	RP1 Rebuilt Belt Press Exchange	$ 85,677	RP1 Asset Replacement- In House Maint	2013	**$ 102,252**
100018	RIGHT OF WAY BAINBRIDGE 87/88	$ 39,400	OLD05496:RP1 - Primary/Secondary	1987	**$ 101,889**
400728	EN06811 RP5 SOLID HANDLING IMPROVEMENT	$ 74,754	EN06811 RP5 SOLID HANDLING IMPROVEMENT	2009	**$ 99,386**
603762	RP1 Dewatering Polymer Blending Unit #3	$ 94,695		2017	**$ 100,487**
300108	CUCAMONGA CREEK SEWER SIPHON	$ 43,893	EN91096:RP1 - Primary/Secondary	1992	**$ 100,323**
602880	RP1 Dewatering Chemical Diaphragm Metering Pump	$ 88,182	RP1 Dewatering Facility Expansion	2015	**$ 100,118**
300024	FONTANA RELIEF SEWER-ADD COST	$ 49,084	EN90005:RP1 - Primary/Secondary	1996	**$ 99,513**
400742	CCWRF STORAGE TANK STRUCTURAL	$ 106,806		2010	**$ 138,225**
603759	RP5 Rag Compactor/Screen Washer	$ 89,997		2017	**$ 95,502**
400752	SAN BERNARDINO AVE FORCE MAIN	$ 83,000		2010	**$ 107,416**
500018	HQB Building Improvement	$ 87,619	Mechanical, Electrical, Lighting, Finishes	2012	**$ 107,254**
150061	TP1 MIX INSTALL OE STRUCTURE	$ 67,600	:	2007	**$ 96,629**
400890	RP1 12 Outdoor Light Poles and Fixtures	$ 83,055	RP-1 Outdoor Lighting Improvements	2014	**$ 96,499**
602889	RP1 Dewatering Building Exchange Belt Press	$ 84,880	RP-1 Asset Replacement	2015	**$ 96,370**
100125	Easement for Upland Interceptor Relief Sewer	$ 88,525	Perm/Temp Easement - Maglica Litigation	2013	**$ 105,650**
150091	SITEWORK	$ 69,855	OLD02399:RP1 - Tertiary	2008	**$ 95,766**
602585	RP-2 152 HP HURST HOT WATER BOILER	$ 370,201	FOR RP-2 BIOLER ROOM	2015	**$ 420,313**
300528	NRW Cucamonga Crk Chnl 30" Manhole Frame & Cover	$ 94,879	NRW Coll Sys Manhole Upgrds-Cucamonga Chnnl	2016	**$ 104,565**
400884	CCWRF Metal Surface Coating and Improvements	$ 114,794	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$ 133,375**
400232	INT. PUMP STATION-STRUCTURE	$ 34,368	OLD01050:RP1 - Solids Handling	1984	**$ 94,403**
602952	RP-1 Primary Clarifier Actuator Control Panel	$ 85,627	RP-1 Primary Clarifier West Effluent	2016	**$ 94,368**
400448	CCWRF Control Room Modification	$ 86,699	CCWRF	2005	**$ 132,667**
602098	Fairbanks Morse Bare Pump 4"	$ 76,952	RP1 Digester PD Pumps	2012	**$ 94,196**
602806	RP1 Dewatering Computer & Network Closet	$ 82,773	RP1 Dewatering Facility Expansion	2015	**$ 93,977**
300141	3310 L.F. 15IN. VCP	$ 36,439	OLD00149:NRW General Administration	1983	**$ 102,110**
602141	RP1 Primary Clarifier Hatches/Covers	$ 75,770	RP1 Assessment Work	2012	**$ 92,749**
400448	CCWRF Server Room Modification	$ 85,163	CCWRF	2005	**$ 130,317**
400076	RP1-DIGESTER #4 MODIFICATIONS	$ 57,244	04EN96020:RP1 - Primary/Secondary	2004	**$ 91,670**
400282	BID ITEM #2	$ 37,068	OLD01264:RP1 - Solids Handling	1989	**$ 91,516**
400933	RP-1 FLARE IRON SPONGE #4 TANK	$ 80,486	TANK AT WASTE GAS BURNER	2015	**$ 91,381**
400904	RP1 ERB East Iron Sponge Media Tank	$ 79,476	REPLACE RP1 EAST & WEST IRON SPONGES	2015	**$ 90,234**
400917	RP1 Philadelphia Pump Station Bldg Renovations	$ 79,192	Agency Wide HVAC & Server Room Fire Suppression Im	2015	**$ 89,912**
604034	HP 3PAR Storage Area Network (SAN) for SCADA	$ 95,807		2018	**$ 98,682**
300147	PIPELINE	$ 38,914	OLD00165:NRW General Administration	1988	**$ 98,114**
900187	50 Yrs Rehabilitation and Replacement Schedule	$ 82,169	Asset Mgmt Rehab & Replacement Schedule	2013	**$ 98,064**
400028	TP1 CHLORINATON LINE REPL	$ 58,198	05EN04034:RP1 - Tertiary	2005	**$ 89,054**
601938	PR2 UAPC GAS COMPRESSOR	$ 67,175		2010	**$ 86,936**
400800	Prado Dechlor Seismic Retrofit	$ 75,156	Prado Dechlor Seismic Retrofit	2010	**$ 97,264**
602879	RP1 Dewatering 6" Inline Polymer Mixer	$ 77,773	RP1 Dewatering Facility Expansion	2015	**$ 88,301**

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Asset List

Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
150132	RP5 Pond Concrete / Curb & Gutter	$	53,886	RP-5 Pond/Drainage Improvements	2015	$	**61,180**
600079	ALAN BRADLEY FILTER CONTROLS	$	32,455	98EA97009001:RP1 - Tertiary	1998	$	**62,464**
603724	RP1 Centrifuge Liquid Polymer Blending Unit #1	$	58,721	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**62,313**
400893	RP5 Retention Pond	$	52,271	RP5 System Fac Upgrade & Imprv	2014	$	**60,732**
602370	RP1 Digester #2 Valves	$	51,929	Major Facilities Repairs/Replacements	2013	$	**61,975**
604011	HQA Backup Generator Safety Switches	$	66,006	Pre-existing Generator Installation	2018	$	**67,986**
400965	RP1 Dewatering Grating	$	54,410		2015	$	**61,775**
604009	HQA Backup Generator Transfer Switch	$	65,734	Pre-existing Generator Installation	2018	$	**67,706**
602198	RP5 Bio-Filter Media	$	56,227	RP1/RP5 Bio-Filter Media Replacement	2013	$	**67,105**
401043	RP1 East Grit Classifier/Washer #2	$	57,463		2017	$	**60,978**
300030	GROVE AVE NRW RELOCATION	$	43,683	05EN92007:NRW Northern System	2005	$	**66,843**
602844	RP1 Dewatering Site Electrical	$	53,401	Lighting Fixtures & Controls	2015	$	**60,629**
602136	RP1 Groth Horizontal Flame Arrester	$	49,529	RP1 Primary Clarifiers	2012	$	**60,628**
602663	RP-1 RAG SHAFTLESS CONVERYOR SYSTEM	$	53,352	RP-1 DEWATER WASTE STORAGE SYSTEM	2015	$	**60,574**
300076	CUCAMONGA INTERTIE	$	8,074	OLD00013:NRW General Administration	1970	$	**66,618**
604010	HQA Backup Generator Dry Type Transformers	$	64,422	Pre-existing Generator Installation	2018	$	**66,355**
602221	CCWRF 24" Fairbanks Morse Pump VTSH AWF	$	71,137	Purchase CCWRF Primary Effluent Pump	2013	$	**84,899**
601494	Replace Iron Sponge at RP5 SHF	$	42,900		2008	$	**58,813**
401041	RP-4 Grounds Lighting Improvements	$	86,066		2017	$	**91,331**
602575	RP1 Administration Bldg Air Handling Unit	$	52,916	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	**60,079**
900065	CSDOC SUPPL TREATM COST 95/96	$	32,567	9600035:NRW General Administration	1996	$	**66,026**
603165	Phil Pump Station HVAC System	$	58,104	Philadelphia Pump Station	2015	$	**65,970**
400853	CCWRF Clarifiers Weir Gates	$	70,543	CCWRF Replacement of Secondary Clarifier	2013	$	**84,189**
400775	RP1 Filtrate Repair	$	47,500	Regional Interceptor Rehabilitate	2011	$	**59,670**
603145	Montclair Lft Station 3 Ton AC Unit	$	58,789	Montclair Lift Station	2016	$	**64,791**
603145	Montclair Lft Station 3 Ton AC Unit	$	58,789	Montclair Lift Station	2016	$	**64,791**
400281	PRIMARY EFF. DIVERSION STRUCT	$	23,493	OLD01263:RP1 - Solids Handling	1989	$	**58,000**
400815	RP2 Dewater Cake Storage Hoppers	$	207,189	RP2 Dewater Cake Storage System	2012	$	**253,619**
900085	ANNUAL ACRE CAPITAL FEE	$	26,780	OLD05582:NRW General Administration	1991	$	**63,107**
601898	125kW FLARE DIESEL ENGINE GENERATOR	$	43,212	RP5 Digester Reliability	2010	$	**55,924**
400867	CCWRF Aeration Basn Victaulic Flex Couplings	$	67,271	CCWRF Aeration Basin Air Ducting Replacement Proje	2013	$	**80,284**
900089	RETRO ACR (85 THRU 92)	$	27,361	OLD05586:NRW General Administration	1992	$	**62,536**
602409	CCWRF Clarifler #1 Mechanical Improvements	$	68,439	CCWRF Secondary Clarifiers Rehab Phase 1	2014	$	**79,517**
602829	RP1 Dewatering Building Support Systems	$	49,587	RP1 Dewatering Facility Expansion	2015	$	**56,299**
602705	Plate and Frame Heat Exchangers	$	54,535	Central Plant for the New Operations Lab	2015	$	**61,917**
604005	Phil LS Waste Water Pump #1 Rebuld	$	60,014		2018	$	**61,814**
602651	RP1 Aeration Basin Secondary Butterfly Valves	$	49,381	RP-1 Aeration Ducting	2015	$	**56,065**
603218	RP1 POLYMER BLENDING UNIT #2	$	49,234	RP1 CENTRIFUGE BUILDING	2015	$	**55,898**
300523	NRW Off Chino Creek 30" Dia Manhole Frame & Cover	$	55,737	Collection System Manhole Upgd-City of Chino Hills	2016	$	**61,427**
602876	RP1 Dewatering Sludge Feed Pump	$	49,089	RP1 Dewatering Facility Expansion	2015	$	**55,734**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
400836	CCWRF Sand Media	$	51,273	CCWRF Trty Fltr Media Replacemnt & Rehab	2012	$	**62,763**
150134	RP-2 Drying Beds Rehabilitation Asphalt	$	171,721	RP-2 Drying Beds Rehabilitation	2015	$	**194,966**
602470	RP1 Dewatering Building Butterfly Valve	$	38,203	Secondary Process	2014	$	**44,387**
601937	RP5 FOOD WASTE ELECTRICAL TANK	$	33,074		2010	$	**42,804**
603143	Montclair Lift Station Custom Switchboard	$	43,563	Montclair Lift Station	2016	$	**48,010**
300201	INTERCEPTOR FROM PUMP STATION	$	43,257	OLD00068:RP2 - Primary/Secondary	1977	$	**191,330**
400852	RP4 Metal Beam Guard Rail	$	39,694	RP4 Storage Pond Improvements	2013	$	**47,373**
602703	RP5 Gas Boiler	$	37,314	Central Plant for the New Operations Lab	2015	$	**42,365**
601569	CLIMBER SCREEN MECHANICAL BAR SCREEN	$	34,821		2008	$	**47,738**
601569	CLIMBER SCREEN MECHANICAL BAR SCREEN	$	34,821		2008	$	**47,738**
601569	CLIMBER SCREEN MECHANICAL BAR SCREEN	$	34,821		2008	$	**47,738**
601569	CLIMBER SCREEN MECHANICAL BAR SCREEN	$	34,821		2008	$	**47,738**
900098	CONTRIBUTION 1989-90	$	19,727	OLD05597:NRW General Administration	1990	$	**47,500**
400889	RP4 Concrete Block Wall	$	55,871	RP-4 Grading and Drainage Improvements	2014	$	**64,915**
400966	RP1 Dewatering Buried 12",18",20",24",36" FA Pipln	$	37,467		2015	$	**42,539**
400161	RP4 CAPITALIZED INTEREST	$	34,095	99HINT7001:RP4 - Administration	1999	$	**64,115**
400230	SOLIDS MANAGEMENT-STRUCTURE	$	15,324	OLD00997:RP1 - Solids Handling	1984	$	**42,094**
601799	Model 1020MC Hypress Ram-Style	$	34,699		2009	$	**46,133**
300507	NRW Francis St 30" Dia Manhole Frame and &cover	$	41,803	Collection System Manhole Upgrades-City of Ontario	2016	$	**46,070**
300509	NRW Wineville Ave 36" Dia Manhole Frame & cover	$	41,803	Collection System Manhole Upgrades-Cty of Ontario	2016	$	**46,070**
300512	NRW Cucamonga Chnl 36" Dia Manhole Frame & Cover	$	41,803	Collection System Manhole Upgrds-Cucamonga Channel	2016	$	**46,070**
600681	25 AERATION BASN MIXERS/HOIST	$	32,179	00OB99001:CCWRF - Primary/Secondary	2000	$	**58,937**
400857	HQ Parking Area Repair	$	38,469	HQ Building Parking Lot Repairs	2013	$	**45,910**
300093	ADD. C.O.-GOSH & GOSH	$	14,169	OLD00036:Regional Administration	1981	$	**45,670**
150133	CCWRF Storage Lagoon Rip-Rap Upgrading to 14"	$	50,823	CCWRF Lagoon Rip Rap Retrofit	2015	$	**57,703**
602890	RP1 Solids Valves	$	36,037	RP-1 Asset Replacement	2015	$	**40,915**
602875	RP1 Dewatering Polymer Transfer Pump	$	36,009	RP1 Dewatering Facility Expansion	2015	$	**40,883**
400875	Philadelphia Pump Station Asphalt Paving	$	38,594	NRWS Philadelphia Ave AIRVAC Installatio	2014	$	**44,841**
602953	RP-1 Primary Clarifier Remote Input/Out Panel	$	36,867	RP-1 Primary Clarifier W. Effluent	2016	$	**40,631**
150115	RP-1 East Side Fence Line Landscaping	$	32,254	RP-1 East Side Landscape	2011	$	**40,518**
400913	RP4 Blower Building 1-1.5" PVC Potable Water Line	$	53,911	CM Misc RC Construction & Emerg Proj FY1415	2015	$	**61,208**
900084	CAP COST 1989-90	$	18,261	OLD05581:NRW General Administration	1990	$	**43,969**
602830	RP1 Dewatering Building Electrical	$	35,170	Lighting Protection System	2015	$	**39,931**
603167	Phil Pump Station Variable Frequency Drive (VFD)	$	38,451	Philadelphia Pump Station	2015	$	**43,656**
400630	FILTER STRUCTURE	$	14,532	OLD02373:RP1 - Tertiary	1985	$	**39,591**
400631	FILTER STRUCTURE	$	14,532	OLD02379:RP1 - Tertiary	1985	$	**39,591**
400632	FILTER STRUCTURE	$	14,532	OLD02385:RP1 - Tertiary	1985	$	**39,591**
602384	RP1 Boom 45' 2W Genie Manlift	$	33,071	Major Facilities Repairs/Replacements	2013	$	**39,468**
400000	RP1 - SAFETY TRAINING	$	19,332	9600034A:RP1 - Primary/Secondary	1996	$	**39,193**
603158	Phil Pump Station 12" Mag Meter	$	37,697	Philadelphia Pump Station	2015	$	**42,800**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
601502	CCWRF Chlorination Facility-Mechancial Equip-15yr	$	39,899		2008	$	**54,699**
150126	RP4 Contour Grading Drainage / Erosion Control	$	50,688	RP-4 Grading and Drainage Improvements	2014	$	**58,893**
400669	CARBON CANYON SOLAR POWER PLANT STRUCTURE	$	40,973		2009	$	**54,474**
400031	RP2 CENTRIFUGE RELOCATION	$	115,129	06EN05018:RP2 - Solids Handling	2006	$	**169,230**
603733	RP4 9 Dissolved Oxygen (DO) Probes/Meters	$	55,120	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**58,491**
300586	NRW NORTH 40LF OF 8" VCP SEWER PIPELINE	$	41,091	PACIFIC AVE/MARLAY AVE LATERAL NRW PIPELINE	2018	$	**42,324**
400965	RP1 Dewatering Grating	$	33,679		2015	$	**38,238**
603164	Phil Pump Station Sluice Gate	$	36,979	Philadelphia Pump Station	2015	$	**41,984**
603144	Variable Frequency Drive (VFD)	$	38,070	Montclair Lift Station	2016	$	**41,956**
603144	Variable Frequency Drive (VFD)	$	38,070	Montclair Lift Station	2016	$	**41,956**
603144	Variable Frequency Drive (VFD)	$	38,070	Montclair Lift Station	2016	$	**41,956**
300055	RP4 CONNECTION SEGMENTS I & I	$	30,586	99EN97021703:RP4 - Primary / Secondary	1999	$	**57,517**
603984	RP1 Phil Pump Station Duplicate FLYCT A-C Pump	$	36,538		2018	$	**37,634**
602429	12" Resilient Seated Gat Valve	$	35,510	Philly PS Wet Well Condition Assessment	2014	$	**41,258**
603643	RP-1 Warehouse AC Unit #1	$	35,318	Agencywide HVAC Improvement Pkg 3	2017	$	**37,478**
603644	RP-1 Warehouse AC Unit #2	$	35,318	Agencywide HVAC Improvement Pkg 3	2017	$	**37,478**
603645	RP-1 Warehouse AC Unit #3	$	35,318	Agencywide HVAC Improvement Pkg 3	2017	$	**37,478**
400772	NRWS Connection Repair Concrete Saddles	$	32,811		2011	$	**41,218**
900079	CAP. COST 1984-85	$	14,978	OLD05576:NRW General Administration	1984	$	**41,143**
602572	RP1 Tertiary Bldg Split System Cooling Unit	$	32,845	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	**37,291**
400233	ENERGY RECOVERY STAT. BUILDING	$	13,456	OLD01083:RP1 - Solids Handling	1984	$	**36,960**
400910	RP4 Secondary 1000' CPVC Bleach Containment Line	$	48,763	CM Misc RO Construction & Emerg Proj FY1415	2015	$	**55,364**
400860	RP1 Roof Repairs	$	30,498	Agency Wide Plant Fac Roof Repair	2013	$	**36,398**
602813	RP1 Dewatering Sludge Grinder Monorail	$	31,788	RP1 Dewatering Facility Expansion	2015	$	**36,091**
602169	CCWRF Skimmer Pumps	$	41,108	CCWRF Trty Fltr Media Replacemnt & Rehab	2012	$	**50,320**
900099	CONTRIBUTION 1991-92	$	16,983	OLD05598:NRW General Administration	1992	$	**38,816**
401036	RP1 Tertiary (TP1) 10,300 Gal Bleach Tank #2	$	33,189	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**35,219**
602494	RP1 TCA-20 ECO Total Chlorine Analyzers	$	30,826	Agency Wide Chlorine Res Analzyer Rep	2015	$	**34,999**
900115	SAWPA CAPITAL REPLAC 1996/97	$	19,647	97SAWPA002:NRW Southern System	1997	$	**38,424**
900081	CAP. COST 1986-87	$	14,423	OLD05578:NRW General Administration	1986	$	**38,263**
400839	CCWRF Sludge Line Improvement-Relocation	$	31,251	CM Misc NRWS Construction & Emerg Proj	2012	$	**38,254**
400937	NRW Collectin Sys Manhole 30" Diameter Frame/cover	$	33,609	NRW Collection System Repair Phase 4 - R	2015	$	**38,159**
603098	RP-2 DRYING BEDS JOHN DEER TRACTOR	$	134,066	SOLIDS MANAGEMENT	2015	$	**152,214**
602164	CCWRF Porous Filter Plates	$	39,724	CCWRF Trty Fltr Media Replacemnt & Rehab	2012	$	**48,626**
400920	RP1 Philly Pump Station Bldg Electrical Improvemen	$	30,384	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	**34,497**
602404	CCWRF Clarifler #1 Skim Actuator	$	41,722	CCWRF Secondary Clarifiers Rehab Phase 1	2014	$	**48,475**
900080	CAP. COST 1985-86	$	13,860	OLD05577:NRW General Administration	1985	$	**37,760**
600200	RP1 DIGESTER GAS 8" ESSENTRIC PLUG VALVE	$	17,500	RP1 DIGESTER GAS SYSTEM	1997	$	**34,225**
300003	MISSION LINEN NRW CONNECTION	$	18,069	9500075:Main Office Administration	1995	$	**37,630**
602696	RP5 Primary Hot Water Pump Boiler	$	29,202	Central Plant for the New Operations Lab	2015	$	**33,155**

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Asset List

Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
401031	SB Ave 48" Manhole #6 @ STA 17+29.47	$	27,226	San Bernardino Lift Station-SB Ave Gravity Sewer	2017	**$**	**28,891**
401032	SB Ave 48" Manhole #7 @ STA 18+78.75	$	27,226	San Bernardino Lift Station-SB Ave Gravity Sewer	2017	**$**	**28,891**
401033	SB Ave 48" Manhole #8 @ STA 20+55.67	$	27,226	San Bernardino Lift Station-SB Ave Gravity Sewer	2017	**$**	**28,891**
401034	SB Ave 48" Manhole #9 @ STA 20+75.76	$	27,226	San Bernardino Lift Station-SB Ave Gravity Sewer	2017	**$**	**28,891**
900093	CONTRIBUTION 1984-85	$	10,497	OLD05592:NRW General Administration	1984	**$**	**28,834**
602367	RP1 8" Trash Diesel Pump, Trailer Mounted	$	21,795	Major Facilities Repairs/Replacements	2013	**$**	**26,011**
400123	RP4 ANOXIC TANK#1	$	20,994	99HAT#37001:RP4 - Primary / Secondary	1999	**$**	**39,479**
400124	RP4 ANOXIC TANK #2	$	20,994	99HAT#27001:RP4 - Primary / Secondary	1999	**$**	**39,479**
400125	RP4 ANOXIC TANK #3	$	20,994	99HAT#17001:RP4 - Primary / Secondary	1999	**$**	**39,479**
602402	Philadelphia Pump Station Air Release Valve #1	$	24,557	NRWS Philadelphia Ave AIRVAC Installatio	2014	**$**	**28,532**
602402	Philadelphia Pump Station Air Release Valve #2	$	24,557	NRWS Philadelphia Ave AIRVAC Installatio	2014	**$**	**28,532**
400126	RP4 ADMIN BUILDING LIGHTING IMPROVEMENT	$	20,926		1999	**$**	**39,352**
603293	RP1 40' Genie Manlift (Boom Lift)	$	22,797	Major Facilities Repairs/Replacements	2015	**$**	**25,883**
400744	ODOR CONTROL OPERATION SYSTEM	$	19,960		2010	**$**	**25,831**
400812	RP1 Pnuematic Actuator	$	21,099	RP-1 Digester No. 3 Roof Repair	2012	**$**	**25,828**
400210	DIGESTER TANKS #3 & #4	$	6,292	OLD00483:RP1 - Solids Handling	1978	**$**	**25,826**
300519	NRW Bastian Ave 30" Dia Manhole Frame & Cover	$	25,778	Collection System Manhole Upgrd-City of Chino Hill	2016	**$**	**28,410**
400906	RP1 Odor Control Biofilter No. 2 Upgrades & Clean	$	22,732	RP-1 Odor Control Biofilter No. 2	2015	**$**	**25,809**
601802	GENIE Z45/25 RT 2WD 45' Boom Lift	$	21,341		2009	**$**	**28,373**
400507	Painting of RP1 and Desalter	$	18,705		2008	**$**	**25,643**
603654	RP-5 HQ Contol Room AC Fan Coil Unit #1	$	23,588	Agencywide HVAC Improvement Pkg 3	2017	**$**	**25,031**
603655	RP-5 HQ Contol Room AC Fan Coil Unit #2	$	23,588	Agencywide HVAC Improvement Pkg 3	2017	**$**	**25,031**
600311	RP4 SEWERS/STORM DRAINS	$	20,553	99HPIPE7001:RP4 - Primary / Secondary	1999	**$**	**38,649**
602274	RP4 Bar Rake	$	32,144	RP1 Asset Replacement- In House Maint	2013	**$**	**38,362**
400052	RP2/CCWRP WARRANTY REPAIR	$	28,748	9500113:RP2/CCWRF - Administration	1995	**$**	**59,871**
600995	CONVEYOR SYSTEM-REPLACED	$	16,667	06PA06007:RP5 - Manure Digester	2006	**$**	**24,499**
602706	RP5 Air and Dirt Seperator	$	21,527	Central Plant for the New Operations Lab	2015	**$**	**24,441**
100008	RP #4 SITE ACQUISITION	$	15,387	OLD05484:Main Office Administration	1989	**$**	**37,989**
602382	RP1 Lab Champion Climate Control Compressor	$	20,719	Major Facilities Repairs/Replacements	2013	**$**	**24,727**
300293	RP2 GRAVITY THICKENER 1 Rpair	$	70,848	CM Misc RC Construction & Emerg Proj	2005	**$**	**108,412**
600183	RP2 SOLIDS LOADNG CONVEYR REL	$	73,571	06EN03013:RP2 - Primary/Secondary	2006	**$**	**108,144**
602452	CCWRF Clarif #1 Cage Drive Assembly/Speed Reducer	$	29,620	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$**	**34,414**
603171	Phil Pump Station AC Condenser Unit	$	23,548	Philadelphia Pump Station	2015	**$**	**26,736**
603170	Phil Pump Station AC Fan Coil Unit (FCU)	$	23,548	Philadelphia Pump Station	2015	**$**	**26,736**
602320	RP1 Seepex Scum Cavity Pump	$	20,327	Major Facilities Repairs/Replacements	2013	**$**	**24,259**
603134	Montclair Lift Station Level Trasmitter	$	23,884	Montclair Lift Station	2016	**$**	**26,322**
603134	Montclair Lift Station Level Trasmitter	$	23,884	Montclair Lift Station	2016	**$**	**26,322**
603723	RP1 Tertiary (TP1) Bleach Metering Pumps	$	22,519		2017	**$**	**23,897**
602279	CCWRF Mitsubishi 2012 Fork Lift	$	28,180	Major Facilities Repairs/Replacements	2013	**$**	**33,631**
603162	Phil PS Uninterruptible Power Supply (UPS) System	$	23,121	Philadelphia Pump Station Battery Backup System	2015	**$**	**26,251**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
603403	Allen Bradley Logic Controller	$	21,750	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$	**23,971**
900200	HQB Vsphere/VMWARE/Veeam/WINSVRCAL Software Licens	$	20,569	Software Licenses - PAC Network	2014	$	**23,898**
150086	Asphalt Repair/Slurry Sealing	$	17,400		2008	$	**23,854**
603290	RP1 DAF VAULT 2 12" ECCENTRIC PLUG VALVE`	$	19,670		2016	$	**21,678**
401009	Phil Pump Station T-Lock and Arrow Lock	$	20,943	Philadelphia Pump Station	2015	$	**23,778**
401042	RP-4 Maint Bldg Lighting Improvements	$	30,846		2017	$	**32,733**
150041	RP4 ALL GRATING -GENERAL SITE	$	17,371	99HSTIMP7001:RP4 - Administration	1999	$	**32,667**
602480	RP1 Flare Actuated Plug Valve	$	18,503	RP1 DIGESTER GAS SYSTEM	2014	$	**21,498**
602804	RP1 Dewatering Security Camera	$	18,836	RP1 Dewatering Facility Expansion	2015	$	**21,385**
300012	RP1 WSTE WTR PUMP WELL ACCESS	$	13,735	05EN02013:RP1 - Primary/Secondary	2005	$	**21,017**
150018	RP4 LAND IMPROVEMENTS-OUTFALL	$	16,925	99EN97020704:RP4 - Administration	1999	$	**31,827**
150027	RP1 PHIL ENTRY WIDENING	$	14,247	06EN99003:RP1 - Primary/Secondary	2006	$	**20,942**
602380	RP4 U320A/SS JDV Screw Screening Conveyor	$	26,517	Major Facilities Repairs/Replacements	2013	$	**31,647**
300468	Collection System Interceptor 10' Segment Liners	$	20,168	Repairs Phase V @ Pipline & Eucalyptus Ave	2015	$	**22,899**
400950	RP-1 Precast Water Reservoir Tank	$	18,285	San Bernardino Lift Station	2015	$	**20,760**
603216	RP1 RAS PUMP	$	18,225	AT WASTEWATER SECONDARY CLARIFIERS	2015	$	**20,692**
603217	RP1 RAS PUMP	$	18,225	AT WASTEWATER SECONDARY CLARIFIERS	2015	$	**20,692**
400790	RP2 Ductile Iron Sludge & Ferric Pipe	$	71,740	Misc RC Construction Projects & Emergenc	2011	$	**90,121**
602692	RP 5 Secondary Chilled Water Centrifugal Pump	$	17,643	Central Plant for the New Operations Lab	2015	$	**20,031**
300091	FINAL PROG EST. #11 INCL RET	$	5,934	OLD00034:Regional Administration	1979	$	**22,515**
602264	RP4 Odor Control Blower Electrical	$	25,978	RP-4 Odor Control Backup Blower	2013	$	**31,003**
601899	VINCENT SCREW PRESS KP-10	$	15,338		2010	$	**19,850**
900095	CONTRIBUTION 1986-87	$	8,393	OLD05594:NRW General Administration	1986	$	**22,266**
400639	PRIMARY EFF. DIVERSION STRUCT	$	8,118	OLD02411:RP1 - Tertiary	1989	$	**20,042**
603206	RP5 HEADWORKS GAS DETECTOR MONITOR	$	17,192		2015	$	**19,519**
602478	CCWRF 92"X48" S.S. DO Sluice Gates	$	24,121	Plant Equipment Improvements	2014	$	**28,025**
150012	RP3 LANDSCAPING & WALL	$	10,513	9500182:RP3 - Primary/Secondary	1995	$	**21,894**
602693	RP5 Vertical In-Line Centrifugal Pump w/VFD	$	17,034	Central Plant for the New Operations Lab	2015	$	**19,340**
300584	NRW PIPELINE 48" CONCRETE SEWER MANHOLE	$	21,056	PACIFIC AVE/MARLAY AVE LATERAL NRW PIPELINE	2018	$	**21,688**
401012	RP4 6,650 GAL DOUBLE WALL BLEACH SAFE TANK	$	26,183		2015	$	**29,727**
603646	RP-1 Warehouse Heater Unit #1	$	18,173	Agencywide HVAC Improvement Pkg 3	2017	$	**19,285**
603647	RP-1 Warehouse Heater Unit #2	$	18,173	Agencywide HVAC Improvement Pkg 3	2017	$	**19,285**
603648	RP-1 Warehouse Heater Unit #3	$	18,173	Agencywide HVAC Improvement Pkg 3	2017	$	**19,285**
603515	Montclair Flow Splitter Box Gate Actuator	$	19,959	Montclair Flow Splitter Box	2017	$	**21,180**
603516	Montclair Flow Splitter Box Gate Actuator	$	19,959	Montclair Flow Splitter Box	2017	$	**21,180**
603517	Montclair Flow Splitter Box Gate Actuator	$	19,959	Montclair Flow Splitter Box	2017	$	**21,180**
602842	RP1 Dewatering Disconnect Switches	$	16,874	RP1 Dewatering Facility Expansion	2015	$	**19,158**
400861	RP2 4" L.GL Gas Line	$	70,132	M Misc RC Construction & Emerg Proj FY1	2013	$	**83,699**
400038	RP1 RECTANG RP1 CLARIFIER CVR	$	11,903	04EN20036:RP1 - Primary/Secondary	2004	$	**19,061**
602803	RP1 Dewatering Building Observation Cameras	$	16,643	RP1 Dewatering Facility Expansion	2015	$	**18,896**

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Asset List

Asset	Asset description	Book val.		Additional description	Acquisition Year	RCNLD	
400751	SB Ave 30" Fiber Optic Manhole Frame and Cover	$	15,098	San Bernardino Lift Station	2010	**$**	**19,540**
400751	SB Ave 30" Fiber Optic Manhole Frame and Cover	$	15,098	San Bernardino Lift Station	2010	**$**	**19,540**
400751	SB Ave 30" Fiber Optic Manhole Frame and Cover	$	15,098	San Bernardino Lift Station	2010	**$**	**19,540**
400751	SB Ave 30" Fiber Optic Manhole Frame and Cover	$	15,098	San Bernardino Lift Station	2010	**$**	**19,540**
602152	RP1 DAFT Equipment No. 3 Pump & Motor	$	14,420	RP1 Assessment Work	2012	**$**	**17,651**
603289	RP1 DAF VAULT 3 10" ECCENTRIC PLUG VALVE	$	15,977		2016	**$**	**17,608**
400602	TP1 TERTIARY FILTER EXPANSION	$	8,449	9500161:RP1 - Tertiary	1995	**$**	**17,595**
150101	EN05056.01 RP5 FENCING IMRPOVEMENT	$	12,911	EN05056.01 RP5 FENCING IMRPOVEMENT	2009	**$**	**17,165**
150021	RP4 LAND IMPROVEMENTS-OUTFALL	$	14,176	99EN97021702:RP4 - Administration	1999	**$**	**26,658**
602691	RP 5 Secondary Chilled Water Pump	$	15,080	Central Plant for the New Operations Lab	2015	**$**	**17,121**
602369	CCWRF Wilo EMU Mixers	$	20,564	Major Facilities Repairs/Replacements	2013	**$**	**24,542**
300041	Pacific Coast Mfg-Lat. Repair	$	9,069	9400003:NRW Northern System	1994	**$**	**19,107**
400962	RP1 Dewatering 8" & 10" Buried DSL Pipeline	$	15,279		2015	**$**	**17,347**
400480	RP1 SOLIDS REDUC FACIL	$	12,126	:	2007	**$**	**17,333**
602841	RP1 Dewatering Pneumatic Air Compressor	$	15,262	RP1 Dewatering Facility Expansion	2015	**$**	**17,328**
300156	CULLIGAN WATER	$	8,711	EN92010Y:NRW General Administration	1993	**$**	**19,051**
300278	S.C. BLDG. ELECT. & INSTRUMNT	$	27,621	OLD01833:RP2 - Primary/Secondary	1984	**$**	**75,869**
602721	CCWRF 12" 10HP FLYGT Pump	$	21,430	AT EMERGENCY OVERFLOW LAGOON	2015	**$**	**24,330**
300488	NRW Collection Sys Repair 5' 21" RCP	$	16,741	NRW Collection System Repair Phase 4 - R	2015	**$**	**19,007**
603182	RP4 HEADWORK RAG COMPACTOR CONTROL PANEL	$	23,049	SCREENINGS WASHER CONTROL PANEL	2015	**$**	**26,169**
603182	RP4 HEADWORK RAG COMPACTOR CONTROL PANEL	$	23,049	SCREENINGS WASHER CONTROL PANEL	2015	**$**	**26,169**
602909	Allen Bradley 1756-L72 4MB Logix Controller	$	16,610	Replace Control Net @ Prado & 1630 E. Pump Station	2015	**$**	**18,859**
602322	RP1 Teledyne ISCO Refr. Samplers	$	14,280	Major Facilities Repairs/Replacements	2013	**$**	**17,042**
150134	RP-2 Drying Beds Concrete Curb and Gutter	$	65,593	RP-2 Drying Beds Rehabilitation	2015	**$**	**74,472**
602299	RP1 Aeration Pump	$	14,164	RP1 Odor Control - Phase I	2013	**$**	**16,904**
603474	RP1 VMWare Host Server	$	15,650	RP1 Replace VM Host Server	2017	**$**	**16,607**
400138	RP4 BLOWER BUILIDNG LIGHTING IMPROVEMENT	$	13,400		1999	**$**	**25,199**
600693	F'OLAY CIA PLINE/METER	$	5,185	OLD00109:NRW General Administration	1980	**$**	**18,250**
603879	PowerEdge FC630 Server	$	17,680	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**18,210**
601577	ELECTRONIC EQUIP	$	13,237		2008	**$**	**18,147**
602151	RP1 DAFT Equipment No. 1 Pump & Motor	$	13,346	RP1 Assessment Work	2012	**$**	**16,336**
602725	RP-1 CSI 2130 Vibration Analyzer w/Laser Sensor	$	14,384		2015	**$**	**16,332**
603194	RP4 HEADWORK JWC GRINDER CONVEYOR MOTOR	$	21,842		2015	**$**	**24,799**
603195	RP4 HEADWORK GRINDER MOTOR	$	21,842		2015	**$**	**24,799**
603196	RP4 HEADWORK AUGER/COMPACTOR	$	21,842		2015	**$**	**24,799**
602331	Muffin Monster Cutter Cartridge	$	13,617	Major Facilities Repairs/Replacements	2013	**$**	**16,251**
400636	MCC BUILDING	$	6,574	OLD02403:RP1 - Tertiary	1989	**$**	**16,231**
400898	Chino Creek Channel Manhole Liner Structures	$	15,324	Ramona Ave Siphon Lining & Manholes	2014	**$**	**17,805**
400898	Chino Creek Channel Manhole Liner Structures	$	15,324	Ramona Ave Siphon Lining & Manholes	2014	**$**	**17,805**
602117	RP1 8" Plug Valve	$	13,186	RP-1 Digester No. 3 Roof Repair	2012	**$**	**16,141**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
602325	Montclair Lift Station Fairbanks Morse Pump 8"	$	13,468	Major Facilities Repairs/Replacements	2013	$	16,073
300372	EN20046-TP1 Outfall Energy Recovery	$	11,714	EN20046-TP1 Outfall Energy Recovery	2008	$	16,059
300462	Collection System Interceptor Manhole Rehabilitati	$	15,536	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	17,639
300462	Collection System Interceptor Manhole Rehabilitati	$	15,536	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	17,639
300466	Collection System Interceptor Manhole Rehabilitati	$	15,536	Repairs Phase V @ Pipline & Eucalyptus Ave 60" Dia	2015	$	17,639
400949	RP-1 4,050 GAL Bleach Tank #1	$	14,070		2015	$	15,974
300167	MONTCLAIR INTERCEPTOR DIVERSION	$	5,862	OLD00221:RP1 - Administration	1985	$	15,972
602116	RP1 6" Plug Valve	$	13,002	RP-1 Digester No. 3 Roof Repair	2012	$	15,916
150098	HQA Solider Row Pavers, Diagonal Pavers, Remove DG	$	12,752		2008	$	17,482
300534	NRW Central Ave 30" Manhole Frame & Cover	$	15,813	NRW Coll Sys Manhole Upgrds-City of Chino	2016	$	17,428
300463	Collection System Interceptor Manhole Rehabilitati	$	15,252	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	17,317
300532	NRW Walker Ave 30" Manhole Frame & Cover	$	15,644	NRW Coll Sys Manhole Upgrds-City of Ontario	2016	$	17,242
602495	RP1 TC80 Total Chlorine Analyzers	$	13,761	Agency Wide Chlorine Res Analzyer Rep	2015	$	15,623
602588	RP-2 HOT WATER BOILER BURNER UNIT	$	60,369	RP-2 BOILER ROOM	2015	$	68,541
602377	RP2 ABS 100HP Pump	$	57,348	Major Facilities Repairs/Replacements	2013	$	68,442
300062	RP4 ENGINEERING SVS -OUTFALL	$	12,563	99EN97025705:RP4 - Primary / Secondary	1999	$	23,624
400717	EN08022.04-RP1 SOLAR POWER PLANT AREA 5	$	11,671	EN08022.04-RP1 SOLAR POWER PLANT AREA 5	2009	$	15,517
500013	PAINT HQ BLDG TRIM	$	12,758	PAINT HQ BLDG TRIM	2009	$	16,961
900066	ACR COSTS-CSDOC(2.5 MGD) 95/9	$	8,333	9600036:NRW General Administration	1996	$	16,894
601978	SEAL WATER SYSTEM #10 BIG BLUE-1-1 2"	$	12,961		2010	$	16,774
603761	SBLS Rebuild 24" Plug Valve	$	15,798		2017	$	16,765
400961	RP1 Dewatering 6" Drain Pipeline	$	13,357		2015	$	15,165
400279	STAIRS	$	6,113	OLD01260:RP1 - Solids Handling	1989	$	15,091
602295	RP1 GD Hoffman Bare Shaft Blower	$	12,615	Major Facilities Repairs/Replacements	2013	$	15,055
602722	RP-1 Daft Sludge Transfer Pump #1&2	$	13,235		2015	$	15,027
400132	RP4 N.A.T.S. FACILITY DESIGN	$	12,043	99HDSGN7001:RP4 - Administration	1999	$	22,646
602954	CCWRF Sump Pump	$	18,450		2015	$	20,948
300159	143 FT. 6 IN. C.I.P.	$	3,424	OLD00182:NRW General Administration	1976	$	16,248
603212	RP1 DIGESTER #3 GAS BLOWER/MIXER	$	12,919	MAJOR FACILITIES REPAIRS/REPLACEMENTS	2015	$	14,667
603213	RP1 DIGESTER #4 GAS BLOWER/MIXER	$	12,919		2015	$	14,667
300277	SOL. CNTRL BLDG PIPING	$	23,179	OLD01832:RP2 - Primary/Secondary	1984	$	63,668
400154	RP4 TANK#1 BLEACH STORAGE	$	11,659	99HTPS7201:RP4 - Solids Handling	1999	$	21,924
400157	RP4 TANK-PLYMER STORAGE	$	11,659	99HTBS7201:RP4 - Solids Handling	1999	$	21,924
602854	RP1 Dewatering 4" Knife Gate Valve	$	12,684	RP1 Dewatering Facility Expansion	2015	$	14,401
603173	Phil Pump Station Trash Rack for Wet Well Effluent	$	13,911	Philadelphia Pump Station	2015	$	15,794
900188	HQB IT Pipes CCTV Software	$	13,229	CCTV Software/Hardware Upgrade	2013	$	15,789
400837	RP2 Vaults Covers w/ Steel Covers & Std Manholes	$	51,354	CM Misc RC Construction & Emerg Proj	2012	$	62,862
400935	NRW Collection Sys Manhole Base & Pave	$	13,868	NRW Collection System Repair Phase 4 - R	2015	$	15,745
300276	SOL. CNTRL BLDG STRUCTURE	$	22,870	OLD01831:RP2 - Primary/Secondary	1984	$	62,819

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
300595	NRW PIPELINE 30" MANHOLE FRAME AND COVER	$	15,248	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,705**
400911	HQ Back Flow Device Enclosure Cage	$	13,822	CM Misc RO Construction & Emerg Proj FY1415	2015	**$**	**15,693**
602699	RP5 BTU Flow Meter	$	12,167	Central Plant for the New Operations Lab	2015	**$**	**13,815**
602700	RP5 Electromagnetic (MAG) Flow Meter	$	12,167	Central Plant for the New Operations Lab	2015	**$**	**13,815**
602698	RP5 Flow Meter	$	12,167	Central Plant for the New Operations Lab	2015	**$**	**13,815**
602701	RP5 Valve Actuator	$	12,167	Central Plant for the New Operations Lab	2015	**$**	**13,815**
603880	PowerEdge FC630 Server	$	15,030	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**15,481**
603881	PowerEdge FC630 Server	$	15,030	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**15,481**
602291	CCWRF Case Drive Unit	$	16,532	Major Facilities Repairs/Replacements	2013	**$**	**19,731**
603142	Montclair Lift Station 25 KVA Transformer	$	13,971	Montclair Lift Station	2016	**$**	**15,397**
602496	RP1 DC80 Dechlor Analyzers	$	12,295	Agency Wide Chlorine Res Analzyer Rep	2015	**$**	**13,959**
300513	NRW Champagne Ave 30" Dia Manhole Frame & Cover	$	13,934	Collection System Manhole Upgrades-City of Ontario	2016	**$**	**15,357**
300514	NRW Chablis Ave 36" Dia Manhole Frame & Cover	$	13,934	Collection System Manhole Upgrades-City of Ontario	2016	**$**	**15,357**
300520	NRW Central & El Prado 30" Manhole Frame & Cover	$	13,934	Collection System Manhole Upgr-City of Chino Hills	2016	**$**	**15,357**
300521	NRW Pomona Rinco Rd 36" Dia Manhole Frame & Cover	$	13,934	Collection System Manhole Upgd-City of Chino Hills	2016	**$**	**15,357**
300522	NRW Off Pomona Rinco Rd 30" Manhole Frame & Cover	$	13,934	Collection System Manhole Upgd-City of Chino Hills	2016	**$**	**15,357**
300524	NRW Off Chino Creek 24" Dia Manhole Frame & Cover	$	13,934	Collection System Manhole Upgd-City of Chino Hills	2016	**$**	**15,357**
300526	NRW Chino Creek & Ramona 36" Manhole Frame & Cover	$	13,934	Collection System Manhole Upgrades-City of Chino	2016	**$**	**15,357**
601574	MCC UTILITY WATER PUMP	$	11,111		2008	**$**	**15,232**
603994	RP4 CCB #2 Submerged Chemical Induction Mix	$	20,319	RP4 Tertiary	2018	**$**	**20,929**
150072	Asphalt Maintenance-RP1	$	10,062		2008	**$**	**13,794**
150099	EN05056.01 Final Design Package	$	11,335	EN05056.01 Final Design Package	2009	**$**	**15,069**
300587	NRW PIPELINE 30" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300588	NRW PIPELINE 24" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300589	NRW PIPELINE 24" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300590	NRW PIPELINE 24" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300591	NRW PIPELINE 30" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300592	NRW PIPELINE 30" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300593	NRW PIPELINE 24" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
300594	NRW PIPELINE 24" MANHOLE FRAME AND COVER	$	14,613	NRW 10" 4TH STREET LATERAL	2018	**$**	**15,051**
602280	Mobile 4"&6" Submersible Cutter Shredder Pump	$	16,125	Major Facilities Repairs/Replacements	2013	**$**	**19,244**
400763	COMPOSTING MONITORING & WATER WELLS #1, #2, #3	$	11,297		2009	**$**	**15,020**
300461	Collection System Interceptor Manhole Rehabilitati	$	13,173	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	**$**	**14,956**
300461	Collection System Interceptor Manhole Rehabilitati	$	13,173	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	**$**	**14,956**
300461	Collection System Interceptor Manhole Rehabilitati	$	13,173	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	**$**	**14,956**
602446	CCWRF Secondary Clarifier #1 16" Knife Gate Valve	$	16,353	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$**	**19,000**
400719	EN08022.04-RP1 SOLAR POWER PLANT AREA 5	$	10,095	EN08022.04-RP1 SOLAR POWER PLANT AREA 5	2009	**$**	**13,422**
602669	RP1 Motor Contor Center	$	11,797	TP-1 WWW Basin	2015	**$**	**13,394**
300144	DEDICATED BY ECOLOCHEM IN 86/	$	5,550	OLD00157:NRW General Administration	1986	**$**	**14,723**
602097	RP5 Conduit & Wire	$	10,648	Phase II Flare Repair & Back Up Generator	2012	**$**	**13,034**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
602661	RP-1 RAS #3 PUMP (AC PUMP)	$	11,717		2015	$	13,303
300080	ONT CONNECTION O-45	$	5,815	EN91101:RP1 - Primary/Secondary	1992	$	13,292
400211	DEWATERING STRUCTURE	$	3,228	OLD00500:RP1 - Solids Handling	1978	$	13,248
602729	RP-5 18 Air Lift Pump w/o Housing	$	11,612		2015	$	13,184
150105	RP-1 Access Road Landscaping	$	10,183		2010	$	13,179
603141	Montclair Lift Station Automatic Transfer Switch	$	13,111	Montclair Lift Station	2016	$	14,449
400001	TP1 - SAFETY RAILING	$	6,444	9600034B:RP1 - Tertiary	1996	$	13,064
602573	RP1 Tertiary Bldg Split System Fan Coil Unit	$	11,470	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	13,022
602944	CCWRF Server Room Air Conditioning	$	16,066		2015	$	18,241
602945	CCWRF Control Room Air Conditioning	$	16,066		2015	$	18,241
300094	GOSH & GOSH LITIGATION	$	4,784	OLD00037:Regional Administration	1982	$	14,249
500011	STORAGE BUILDING	$	10,387		2008	$	14,240
602510	RP4 Allen Bradley 2-Port Enet/IP Module	$	17,297	RP4 ContolNet Replacement	2015	$	19,639
603220	RP2 DIGESTER 2 50 DEZURIK PLUG VALVES	$	49,753	DIGESTER 2 CLEANING	2015	$	56,488
602802	RP1 Dewatering Data Acquisition System (DAS)	$	11,285	RP1 Dewatering Facility Expansion	2015	$	12,812
300527	NRW E Francis 30" Manhole Frame & Cover	$	12,781	Collection System Manhole Upgrades-City of Ontario	2016	$	14,086
602724	CCWRF STANDBY GENERATOR	$	15,869	EL PRADO LIFT STATION	2015	$	18,017
400941	RP-1 GRAVITY THICKENER STRUCTURE	$	11,219		2015	$	12,738
603136	Montclair Lift Station MCC Power Monitor	$	12,705	Montclair Lift Station	2016	$	14,002
602668	RP1 Motor Contor Center	$	11,203	Replace MCC #6 at RP-1	2015	$	12,719
602732	RP-5 Self Dumping Hopper	$	11,139		2015	$	12,647
602287	RP1 Monlflo Sludge Transfer Pump	$	10,590	Major Facilities Repairs/Replacements	2013	$	12,639
400051	RP1 44 MGD EXPANSION-ADD'L CO	$	6,015	9500114:RP1 - Administration	1995	$	12,526
300529	NRW Holt Blvd 30" Manhole Frame & Cover	$	12,484	NRW Coll Sys Manhole Upgrds-City of Ontario	2016	$	13,759
300048	CCWRP STORM WTR TO EMERG POND	$	9,357	99EN97006:CCWRF-Emergency Storage Lago	1999	$	17,595
300535	NRW Mulberry Ave 30" Manhole Frame & Cover	$	12,447	NRW Coll Sys Manhole Upgrds-City of Fontana	2016	$	13,718
602541	RP5 Recycled Water 6" Gate Valve	$	10,715	RP-5 Underground Water Leak	2015	$	12,166
602300	RP1 Allen Bradley Bulletin 2100 MCC	$	10,409	RP1 Odor Control - Phase I	2013	$	12,423
300088	CUCAMONGA INTERCEPTOR-C.C.W.D	$	1,499	OLD00030:RP1 - Primary/Secondary	1970	$	12,366
900105	RP3 MASTER PLAN	$	6,517	9500193:RP3 - Primary/Secondary	1995	$	13,572
300279	S.C. BLDG-GEN. SITE WORK	$	19,491	OLD01834:RP2 - Primary/Secondary	1984	$	53,539
601797	Repair Compressors	$	9,784		2008	$	13,413
602368	CCWRF VFD Drive	$	14,375	Major Facilities Repairs/Replacements	2013	$	17,156
150106	GREENLEE NURSERY RW CONNECTION	$	10,326		2010	$	13,364
400532	CHINO CREEK PARK-Wetland/Ecosyst	$	9,739		2008	$	13,352
400939	NRW Collctin Sys Manhole Wrought Iron Fence w/Gate	$	11,708	NRW Collection System Repair Phase 4 - R	2015	$	13,293
603466	Montclair Lift Station PLC System	$	11,987	Montclair Lift Station	2016	$	13,210
400079	RP4 TREATMENT PLANT CONSTRUCT	$	9,921	00EN96043/04:RP4 - Primary / Secondary	2000	$	18,170
400162	OVERHAUL 2 SECONDARY CLARIFIER	$	5,718	9500076:RP1 - Primary/Secondary	1995	$	11,907
400459	RP2 PRE-DESIGN	$	13,577	9500150:RP2/CCWRF - Administration	1995	$	28,276

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
602868	RP1 Dewatering 4" Centrifuge Utility Wtr FlowMeter	$ 8,511	RP1 Dewatering Facility Expansion	2015	**$ 9,663**
602283	RP1 Monoflo EZ Strip Pump	$ 8,095	Major Facilities Repairs/Replacements	2013	**$ 9,662**
150020	RP4 MOBIL/PRMTS/CAP INTEREST	$ 7,760	99EN97021701:RP4 - Administration	1999	**$ 14,593**
400477	MANHOLE SEALING PROJECT	$ 7,362	:	2007	**$ 10,524**
602717	RP-1 Gravity Thickener 70" Drive Assembly (Motor)	$ 8,400		2015	**$ 9,537**
900094	CONTRIBUTION 1985-86	$ 3,833	OLD05593:NRW General Administration	1985	**$ 10,444**
300367	EN03750-NRWS Conn & Emerg Pipeline Rpr	$ 7,612		2008	**$ 10,435**
602329	CIW 30kW Standby Generator Tier 4	$ 7,911	Major Facilities Repairs/Replacements	2013	**$ 9,442**
602285	RP1 Rosemont FlowMeter	$ 7,890	Major Facilities Repairs/Replacements	2013	**$ 9,416**
300574	COLL SYS 36 INCH MANHOLE FRAME AND COVER	$ 9,937	24 IN WESTSIDE INTERCEPTOR SEWER-CHINO CREEK	2018	**$ 10,235**
300575	COLL SYS 36 INCH MANHOLE FRAME AND COVER	$ 9,937	24 IN ARCHIBALD TRUNK SEWER	2018	**$ 10,235**
300430	RP1 Gas Line & Chlorine Contact Riser	$ 7,605	CM Misc RC Construction & Emerg Proj	2012	**$ 9,309**
400642	DIVIDER WALL	$ 3,758	OLD02407:RP1 - Tertiary	1989	**$ 9,278**
602381	CCWRF McQuay Air Cooled Scroll Chiler	$ 10,910	Major Facilities Repairs/Replacements	2013	**$ 13,020**
300546	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	24 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300547	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	24 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300548	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300549	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300550	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300551	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300552	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300553	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300554	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	24 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300555	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN WESTSIDE INTERCEPTOR SEWER ADJ CHINO CREEK	2018	**$ 10,107**
300568	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 9,813	18 IN FREEWAY TRUNK SEWER - I-10 FWY & HOPE AVE	2018	**$ 10,107**
300569	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN UPLAND INTERCEPTOR SEWER - N GROVE AVE	2018	**$ 10,107**
300570	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN GROVE AVE OUTFALL SEWER - I-10 FWY&4TH ST	2018	**$ 10,107**
300571	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 9,813	21 IN GROVE AVE OUTFALL SEWER - I-10 FWY&4TH ST	2018	**$ 10,107**
300572	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 9,813	30 IN CUCAMONGA TRUNK RELIEF SEWER	2018	**$ 10,107**
150072	Asphalt Maintenance-RP5	$ 6,534		2008	**$ 8,958**
602912	Allen Bradley 1756-EN2TR 2-Port-Enet/P Logix Modul	$ 8,851	Replace Control Net @ Prado & 1630 E. Pump Station	2015	**$ 10,049**
602801	RP1 Dewatering Laser Printer	$ 8,025	RP1 Dewatering Facility Expansion	2015	**$ 9,112**
300464	Collection System Interceptor Concrete Apron Pour	$ 8,824	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	**$ 10,018**
300464	Collection System Interceptor Concrete Apron Pour	$ 8,824	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	**$ 10,018**
602171	RP4 20" Valve Gear Assembly	$ 11,217	CM Misc RC Construction & Emerg Proj	2012	**$ 13,730**
602655	RP1 Areation Basin Secondary Butterfly Valves	$ 7,920	RP-1 Aeration Ducting	2015	**$ 8,992**
150017	RP4 MOBIL.PRMTS. CAP INTEREST	$ 7,261	99EN97020701:RP4 - Administration	1999	**$ 13,653**
602113	RP2 30" Primary Slide Gate Valve	$ 32,243	RP-2 & RP-5 IPS Overflow	2012	**$ 39,468**
602732	CCWRF Self Dumping Hopper	$ 11,139		2015	**$ 12,647**
700125	Chino Creek Park 2007 Silver Creek Office Trailer	$ 8,640	Chino Creek Park Modular Office/Educ Center	2015	**$ 9,810**

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Asset List

Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
603208	RP5 6" BJM SKSERIES SHREDDER PUMP #2	$	6,863		2015	$	**7,792**
602660	RP-1 PERISTALTIC PUMP	$	7,000	FOR RP-4 BLEACH SYSTEM	2015	$	**7,947**
300119	FRITO LAY. INC.	$	969	OLD00106:NRW General Administration	1969	$	**8,704**
400184	MNHL ADJMNT-PIPELINE AVE	$	2,244	OLD00051:RP1 - Primary/Secondary	1980	$	**7,899**
400793	RP2 Double Containment Sludge & PVC Pipe	$	27,525	Misc RC Construction Projects & Emergenc	2011	$	**34,577**
400513	Storage Building-A/C Controlled Chem Storage Bldg	$	6,313		2008	$	**8,655**
600070	24 VALVE CNTRL PSITIONR-FISHE	$	8,075	06EA04009:RP4 - Tertiary	2006	$	**11,869**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
300467	Collection System Interceptor Frame&Cover Replacmt	$	7,563	Repairs Phase V @ Pipline & Eucalyptus Ave 48" Dia	2015	$	**8,587**
602444	CCWRF Secondary Clarifier #2 Sump/Submeible Pump	$	9,434	CCWRF Secondary Clarifier No.2 Rehab.	2014	$	**10,961**
900226	Veeam Backup Management Suite License	$	7,768	For SCADA Network Switch Mgmt and Authentication	2016	$	**8,561**
300154	UNIQUE STAMPING & COATING	$	3,901	CW93003R:NRW General Administration	1993	$	**8,532**
400481	RED SHOWER TRAILER	$	5,956	:	2007	$	**8,514**
400277	SPLASH PADS & CONC. PIPE SPR.	$	3,118	OLD01258:RP1 - Solids Handling	1989	$	**7,697**
400395	RP1 (3) CARPORT COVERS	$	5,211	06PA05003:Maintenance Facilitiy-North	2006	$	**7,660**
603159	Phil Pump Station Differential Pressure Sensor	$	7,419	Philadelphia Pump Station	2015	$	**8,423**
603160	Phil Pump Station Pressure Transmitter	$	7,419	Philadelphia Pump Station	2015	$	**8,423**
602723	RP1 LAB A/C UNIT	$	6,725		2015	$	**7,636**
150022	JURUPA ROAD PAVEMENT REPAIR	$	4,439	99EN97025:Maintenance Facilitiy-North	1999	$	**8,348**
602866	RP1 Dewatering 12" Plug Valve	$	6,650	RP1 Dewatering Facility Expansion	2015	$	**7,550**
300269	ELECTRICAL & INSTRUMENTATION	$	12,052	OLD01792:RP2 - Primary/Secondary	1984	$	**33,104**
600778	WW METER VAULT	$	3,044	OLD01261:RP1 - Solids Handling	1989	$	**7,515**
400624	STRUCTURE ADDITION	$	2,728	OLD02201:RP1 - Tertiary	1984	$	**7,492**
603181	RP4 HEADWORK SLIDE GATES	$	10,011		2015	$	**11,366**
603181	RP4 HEADWORK SLIDE GATES	$	10,011		2015	$	**11,366**
300128	AMERON STEEL PRODUCING DIVISI	$	1,266	OLD00119:NRW General Administration	1972	$	**8,228**
603138	Montclair Lift Station Mathane Analyzer	$	7,451	Montclair Lift Station	2016	$	**8,211**
400718	EN08022.04-RP1 SOLAR POWER PLANT AREA 5	$	5,597	EN08022.04-RP1 SOLAR POWER PLANT AREA 5	2009	$	**7,441**
400482	TP1-BUILD SHOPS AT CL2 BLDG	$	5,178	:	2007	$	**7,401**
150019	RP4 LAND IMPROVEMENTS -OUTFAL	$	5,964	99EN97020705:RP4 - Administration	1999	$	**11,215**
300423	RP2 Primary 24" Storm Drain Concrete Pipe	$	26,391	RP-2 & RP-5 IPS Overflow	2012	$	**32,305**
900173	FOXRAY SOFTWARE	$	6,235		2010	$	**8,069**
300291	RP2 DIGESTERS	$	20,904	R5EN95028/30:RP2 - Primary/Secondary	2005	$	**31,987**
150117	Retaining Stone Walls	$	6,514	Philly Lift Station-Erosion Control	2012	$	**7,974**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
400690	ABIC SS Enclosure	$	5,169		2009	$	**6,872**
602326	SB Lift Station Fairbanks Morse Pump Shaft	$	5,222	Major Facilities Repairs/Replacements	2013	$	**6,232**
602731	RP-5 WILO EMU MIXERS	$	5,365	BASIN #2 MIXER #18	2015	$	**6,092**
602731	RP-5 WILO EMU MIXERS	$	5,365	BASIN #2 MIXER #19	2015	$	**6,092**
400283	SHEETING & SHORING	$	2,455	OLD01265:RP1 - Solids Handling	1989	$	**6,061**
602911	Allen Bradley 1756-EN2T Logix Ethernet/IP Module	$	5,869	Replace Control Net @ Prado & 1630 E. Pump Station	2015	$	**6,663**
300386	NRWS CONN & EMERG PIPELINE RPT	$	5,111		2010	$	**6,614**
602708	RP-5 WILO EMU MIXERS 7.4 HP 460V	$	5,160	AERATION BASIN #4 MIXER #32	2015	$	**5,858**
602709	RP-5 WILO EMU MIXERS 7.4 HP 460V	$	5,160	AERATION BASIN #6 MIXER #43	2015	$	**5,858**
602666	RP-5 WILO EMU MIXERS	$	5,160	AERATION BASIN #4 MIXER #31	2015	$	**5,858**
300245	PIPE-CAST IRON-ACT SLUDGE	$	8,149	OLD01559:RP2 - Primary/Secondary	1981	$	**26,266**
900224	HP Intrusion Prevention System Sensor	$	5,852	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$	**6,449**
602493	RP4 Ethernet Based Remove I/O Scanners	$	7,831	Replace Remote I/O Scanners at RP4	2015	$	**8,891**
603760	San Bernardino Lift Station Flow Meter	$	6,041		2017	$	**6,410**
603753	RP1 ControlLogix 5582E PLC	$	5,484	RP1 Centrifuge Plant Ethernet	2017	$	**5,820**
300053	RP4 ENGINEERING SVS - OUTFALL	$	4,697	99EN97020712:RP4 - Primary / Secondary	1999	$	**8,833**
602168	CCWRF Skimmer Floats	$	6,654	CCWRF Trty Fltr Media Replacemnt & Rehab	2012	$	**8,145**
300583	COLL SYS 36 INCH MANHOLE FRAME AND COVER	$	6,147	36 IN WEST CUCAMONGEA CHANNEL	2018	$	**6,331**
602111	RP2 18" Primary Manual Plug Valve	$	20,655	RP-2 & RP-5 IPS Overflow	2012	$	**25,284**
602118	RP1 1" Plag Valve	$	4,692	RP-1 Digester No. 3 Roof Repair	2012	$	**5,744**
603183	RP4 HEADWORK ZERO-LEAKAGE AIR ISOLATION FRP DAMPER	$	7,653		2015	$	**8,689**
603183	RP4 HEADWORK ZERO-LEAKAGE AIR ISOLATION FRP DAMPER	$	7,653		2015	$	**8,689**
603183	RP4 HEADWORK ZERO-LEAKAGE AIR ISOLATION FRP DAMPER	$	7,653		2015	$	**8,689**
603184	RP4 HEADWORK BACKDRAFT FRP DAMPER	$	7,653		2015	$	**8,689**
603184	RP4 HEADWORK BACKDRAFT FRP DAMPER	$	7,653		2015	$	**8,689**
603184	RP4 HEADWORK BACKDRAFT FRP DAMPER	$	7,653		2015	$	**8,689**
300124	ROBERTS MFG. CO.	$	869	OLD00113:NRW General Administration	1971	$	**6,260**
602580	RP1 Tertiary Bldg Electrial Transformer	$	4,953	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	**5,623**
602861	RP1 Dewatering 6" Backflow Device	$	4,950	RP1 Dewatering Facility Expansion	2015	$	**5,620**
400901	RP2 42" Gas Pressure Filter with 54 Elements	$	21,704	REPLACE TWO GAS CONDITIONER TANKS AT RP2	2015	$	**24,642**
300136	HI-WEST LIVESTOCK TRUCKING	$	1,502	OLD00139:NRW General Administration	1978	$	**6,163**
700100	Lift Truck-3000 lbs	$	4,493		2008	$	**6,160**
603137	Montclair Lift Station Oxygen Analyzer	$	5,516	Montclair Lift Station	2016	$	**6,079**
603137	Montclair Lift Station H2S Analyzer	$	5,516	Montclair Lift Station	2016	$	**6,079**
602958	CCWRF 16" KNIFE VALVE	$	6,814		2015	$	**7,736**
400791	RP2 PVC Ferric Chloride Pipe	$	19,199	Misc RC Construction Projects & Emergenc	2011	$	**24,118**
600777	HEADWALL A/C 12	$	2,209	OLD01257:RP1 - Solids Handling	1989	$	**5,455**
603161	Phil Pump Station Radar Level Transmitter	$	5,278	Philadelphia Pump Station	2015	$	**5,992**
603161	Phil Pump Station Radar Level Transmitter	$	5,278	Philadelphia Pump Station	2015	$	**5,992**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	4,673	AERATION BASIN #3	2015	$	**5,305**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
150067	RP2-PAVING LANDSCAPE SOLIDS HND	$	16,671	:	2007	$	**23,830**
602509	Lab Sterilizer w/Temp Control 230-250F	$	5,257	Autoclave Replacement	2015	$	**5,969**
603103	RP4 Storage Area Network (SAN) Infrastructure	$	7,465		2016	$	**8,227**
602406	CCWRF Clarifler #1 Squeegee	$	6,559	CCWRF Secondary Clarifiers Rehab Phase 1	2014	$	**7,620**
300481	RP2 1.5" New H2O Water Line	$	20,814	RP-2 Drying Beds Rehabilitation	2015	$	**23,631**
602568	RP2 Telescoping Valves on New H2O Line	$	20,722	RP-2 Drying Beds Rehabilitation	2015	$	**23,527**
602115	RP1 2" Plug Valve	$	4,340	RP-1 Digester No. 3 Roof Repair	2012	$	**5,312**
602591	RP-1 BOILER #1 DIGESTER GAS FLOW METER	$	4,644		2015	$	**5,273**
602592	RP-1 BOILER #2 DIGESTER GAS FLOW METER	$	4,644		2015	$	**5,273**
602594	RP-1 BOILER #1 DIGESTER GAS FLOW METER	$	4,644		2015	$	**5,273**
602595	RP-1 BOILER #2 NATURAL GAS FLOW METER	$	4,644		2015	$	**5,273**
300112	KAISER STEEL CORP.	$	645	OLD00097:NRW General Administration	1969	$	**5,788**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	4,518	AERATION BASIN #4D2	2015	$	**5,130**
603523	Montclair Flow Metering Station Level Transmitter	$	5,433	Montclair Flow Metering Station	2017	$	**5,766**
603524	Montclair Flow Metering Station Level Transmitter	$	5,433	Montclair Flow Metering Station	2017	$	**5,766**
400688	ABIC Relay Output Module, Analog CRNT Opt Module	$	4,325		2009	$	**5,750**
900096	CONTRIBUTION 1987-88	$	2,278	OLD05595:NRW General Administration	1988	$	**5,743**
300432	RP2 Dump Station Outlet	$	4,689	CM Misc NRWS Construction & Emerg Proj	2012	$	**5,740**
400643	STAIRS	$	2,112	OLD02408:RP1 - Tertiary	1989	$	**5,215**
602372	RP5 SBS System Power Center #3	$	4,247	Major Facilities Repairs/Replacements	2013	$	**5,069**
100004	RP4 LAND PURCHASES	$	4,187	99EN97020702:RP4 - Administration	1999	$	**7,874**
900176	Linko Software Custom Program	$	4,500		2011	$	**5,653**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	4,406	AERATION BASIN	2015	$	**5,002**
602061	RP5 OPS Taylor Dunn B2-48 Electric Cart	$	3,973	Technical Service Vehicles	2011	$	**4,991**
602062	RP5 Maint Taylor Dunn B2-48 Electric Cart	$	3,973	Technical Service Vehicles	2011	$	**4,991**
900246	SCADA Remote Access Server (SSL VPN) Licences	$	5,409	SCADA Network Secure Access	2018	$	**5,571**
602664	RP-2 GRAVITY THICKENER SLUDGE TRANSFER PUMP	$	19,438	RP-2 GT PROGRESSIVE CAVITY (SEEPEX) PUMP	2015	$	**22,070**
602707	RP-2 GRAVITY THICKENER SLUDGE TRANSFER PUMP	$	19,438	RP-2 GT PROGRESSIVE CAVITY (SEEPEX) PUMP	2015	$	**22,070**
601776	Towable Portable Air Compressor	$	4,148		2009	$	**5,515**
300115	ADD. FROM W.O. 282-81/82	$	1,848	OLD00100:NRW General Administration	1982	$	**5,504**
602064	RP1 Maint Taylor Dunn B2-48 Electric Cart	$	3,973	Technical Service Vehicles	2011	$	**4,991**
602059	RP1 OPS Taylor Dunn B2-48 Electric Cart	$	3,973	Technical Service Vehicles	2011	$	**4,991**
602060	RP1 Maint Taylor Dunn B2-48 Electric Cart	$	3,973	Technical Service Vehicles	2011	$	**4,991**
602063	Taylor Dunn B2-48 Electric Cart	$	3,973	Technical Service Vehicles	2011	$	**4,991**
602294	RP1 Milroyal B HPD Simplex Pump	$	4,181	Major Facilities Repairs/Replacements	2013	$	**4,990**
300244	PIPE-CAST IRON-PRIM CLAR	$	6,791	OLD01558:RP2 - Primary/Secondary	1981	$	**21,888**
300246	PIPE-CAST IRON-SEC CLAR	$	6,791	OLD01560:RP2 - Primary/Secondary	1981	$	**21,888**
300272	DIVERSION STRUCTURE BLDG	$	7,960	OLD01814:RP2 - Primary/Secondary	1984	$	**21,866**
603653	RP-2 DWTR Contol Bldg AC Dry Type Transformer	$	20,596	Agencywide HVAC Improvement Pkg 3	2017	$	**21,856**
300573	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$	5,284	21 IN WESTSIDE INTERCEPTOR SEWER	2018	$	**5,443**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
300576	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	30 IN UPLAND INTERCEPTOR SEWER	2018	$ 5,443
300577	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	21 IN WESTSIDE INTERCEPTOR SEWER-CHINO AVE	2018	$ 5,443
300578	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	30 IN UPLAND INTERCEPTOR SEWER	2018	$ 5,443
300582	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	30 IN CUCAMONGEA TRUNK RELIEF SEWER	2018	$ 5,443
300579	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	36 IN UPLAND INTERCEPTOR RELIEF SEWER	2018	$ 5,443
300580	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	30 IN CUCAMONGEA TRUNK RELIEF SEWER	2018	$ 5,443
300581	COLL SYS 32 INCH MANHOLE FRAME AND COVER	$ 5,284	30 IN CUCAMONGEA TRUNK RELIEF SEWER	2018	$ 5,443
300131	FASSON - DIV. OF AVERY PRODUC	$ 836	OLD00134:NRW General Administration	1972	$ 5,434
602667	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #2 METER TRAIN #1	2015	$ 4,815
401040	RP-4 Power Center 5 Lighting Improvements	$ 7,050		2017	$ 7,481
602451	CCWRF Clarifier #1 6" Flap Valve/16" Pipe Spool	$ 5,952	CCWRF Secondary Clarifier No.2 Rehab.	2014	$ 6,915
300556	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN FREEWAY TRUNK SEWER - I-10 FWY & HOPE AVE	2018	$ 5,375
300557	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN FREEWAY TRUNK SEWER - I-10 FWY & N HOPE AVE	2018	$ 5,375
300558	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN FREEWAY TRUNK SEWER - I-10 FWY & HOLMES AVE	2018	$ 5,375
300559	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	21 IN GROVE AVE OUTFALL SEWER	2018	$ 5,375
300560	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	30 IN GROVE AVE OUTFALL SEWER	2018	$ 5,375
300561	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	30 IN GROVE AVE OUTFALL SEWER	2018	$ 5,375
300562	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	24 IN TURNER TRUCK SEWER	2018	$ 5,375
300563	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN CUCAMONGA TRUNK RELIEF SEWER	2018	$ 5,375
300564	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN CUCAMONGA TRUNK RELIEF SEWER	2018	$ 5,375
300565	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN CUCAMONGA TRUNK RELIEF SEWER	2018	$ 5,375
300566	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN CUCAMONGA TRUNK RELIEF SEWER	2018	$ 5,375
300567	COLL SYS 24 INCH MANHOLE FRAME AND COVER	$ 5,218	18 IN FREEWAY TRUNK SEWER - S CAMPUS AVE	2018	$ 5,375
602498	RP1 10k Ml/Min Ferric Metering Pump	$ 4,306	Agency Wide Chlorine Res Analzyer Rep	2015	$ 4,889
602324	RP1 Bear Pump Monyno Series 2000	$ 4,096	Major Facilities Repairs/Replacements	2013	$ 4,888
602275	RP1 Actuators Digesters	$ 4,064	RP1 Asset Replacement- In House Maint	2013	$ 4,851
300092	TUTOR SALIBA LITIGATION	$ 1,505	OLD00035:Regional Administration	1980	$ 5,299
602670	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #2 METER TRAIN #2	2015	$ 4,815
602671	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #2 METER TRAIN #4	2015	$ 4,815
602672	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #2 METER TRAIN #5	2015	$ 4,815
602673	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #2 METER TRAIN #6	2015	$ 4,815
602674	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #3 METER TRAIN #1	2015	$ 4,815
602675	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #3 METER TRAIN #2	2015	$ 4,815
602676	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #3 METER TRAIN #4	2015	$ 4,815
602677	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #3 METER TRAIN #5	2015	$ 4,815
602678	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #3 METER TRAIN #6	2015	$ 4,815
602679	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #4 METER TRAIN #1	2015	$ 4,815
602680	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #4 METER TRAIN #2	2015	$ 4,815
602681	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #4 METER TRAIN #4	2015	$ 4,815
602683	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$ 4,241	BASIN #4 METER TRAIN #5	2015	$ 4,815

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Asset List

Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
602684	RP-1 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	4,241	BASIN #4 METER TRAIN #6	2015	$	**4,815**
300460	RW Chino El Prado Rd Water Valve Box/Lid/Concrete	$	4,665	Valve Box Replacement in El Prado Road	2015	$	**5,297**
300404	SBPS Air Vacuums and Canisters	$	16,750	Misc RC Construction Projects & Emergenc	2011	$	**21,042**
300302	DIVERSION STRUCTURE	$	7,488	OLD00223:RP2 - Primary/Secondary	1983	$	**20,982**
603128	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603128	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603128	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603129	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603129	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603129	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603130	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603130	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603130	Montclair Lift Station Eccentric Plug Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603131	Montclair Lift Station Eccentric Check Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603131	Montclair Lift Station Eccentric Check Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
603131	Montclair Lift Station Eccentric Check Valve	$	4,735	Montclair Lift Station	2016	$	**5,219**
601798	Repair Turblex Blower S/N5460 & 5461	$	3,762		2008	$	**5,158**
603730	RP4 Tietiary Bleach Metering Pump #1	$	6,703	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**7,113**
603731	RP4 Tietiary Bleach Metering Pump #2	$	6,703	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**7,113**
300123	SOUTHERN CALIFORNIA EDISON CO	$	623	OLD00112:NRW General Administration	1970	$	**5,137**
100016	ADDITIONAL COSTS 86/87	$	1,805	OLD05494:RP1 - Primary/Secondary	1987	$	**4,668**
601565	Laser Alignment Kit	$	3,746		2008	$	**5,135**
602282	RP1 UTS230 Pressure Washer Trailer Sys	$	3,909	Major Facilities Repairs/Replacements	2013	$	**4,665**
300122	UNION CARBIDE - LINDE	$	621	OLD00111:NRW General Administration	1970	$	**5,126**
400912	RP5 Recycled Water AC Paving	$	4,002	RP-5 Underground Water Leak	2015	$	**4,544**
400025	RP1 RAMP REPAIR-DEWATER BLDG	$	3,041	05EN03021:RP1 - Solids Handling	2005	$	**4,653**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	3,993	AERATION BASIN #6	2015	$	**4,534**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	3,990	AERATION BASIN #4A1	2015	$	**4,531**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	3,990	AERATION BASIN #4C2	2015	$	**4,531**
602726	RP-5 LUMINESCENT DISSOLVED OXYGEN PROBES/METERS	$	3,990	AERATION BASIN #4	2015	$	**4,531**
603727	RP4 Secondary Compressor #1	$	6,609	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**7,013**
603728	RP4 Secondary Compressor #2	$	6,609	MAJOR FACILITIES REPAIRS/REPLACEMENT	2017	$	**7,013**
602290	RP5 Scum XFP Pump	$	3,730	Major Facilities Repairs/Replacements	2013	$	**4,451**
900174	RS VIEW DISPLAY 9305RSVADFCENE	$	3,435		2010	$	**4,445**
150003	REGIONAL FACILITIES LANDSCAPE	$	3,406	06CP06006:Main Office Administration	2006	$	**5,007**
300268	EQUAL. PUMP STATN. STRUCTURE	$	7,272	OLD01791:RP2 - Primary/Secondary	1984	$	**19,976**
400874	RP2 Sludge Drying Beds Drainage Impro.	$	17,031	RP-2 Drying Beds Drainage Improvments	2014	$	**19,788**
602437	Cisco Catalyst 3560X-48T-S Network Switches	$	4,262	Switch/Router Replacement-PAC Network	2014	$	**4,952**
400595	TP1 SEDIMENT BASIN SLUDGE REP	$	2,160	9500086:RP1 - Tertiary	1995	$	**4,499**
602519	RP2 Gravity Thickener SBox 8"Butterfly Plug Valve	$	17,377	RP-2 GT Splitter Box Gates Replacement	2015	$	**19,729**

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Asset List

Asset	Asset description	Book val.		Additional description	Acquisition Year	RCNLD	
603169	Phil Pump Station Ferric Valve	$	4,332	Philadelphia Pump Station	2015	$	4,919
603169	Phil Pump Station Ferric Valve	$	4,332	Philadelphia Pump Station	2015	$	4,919
602840	RP1 Dewatering Level Transmitter(Polymer Day Tank)	$	3,928	RP1 Dewatering Facility Expansion	2015	$	4,460
100015	ADDITIONAL COSTS 85/86	$	1,677	OLD05493:RP1 - Primary/Secondary	1986	$	4,448
603133	Montclair Lift Station Pressure Tranmistter	$	4,406	Montclair Lift Station	2016	$	4,855
600075	RP1-DIGESTER GAS METER	$	2,293	98EA97001003:RP1 - Digester Cleaning	1998	$	4,413
600076	RP1-DIGESTOR GAS METER	$	2,293	98EA97001002:RP1 - Digester Cleaning	1998	$	4,413
600077	RP1-DIGESTOR GAS METER	$	2,293	98EA97001001:RP1 - Digester Cleaning	1998	$	4,413
300074	CHINO NON-RECLAIMABLE LINE-8	$	747	OLD00011:NRW General Administration	1972	$	4,854
602618	RP-1 BOILER #1 SAFETY PRESSURE REDUCING VALVE	$	3,870		2015	$	4,394
602619	RP-1 BOILER 21 SAFETY PRESSURE REDUCING VALVE	$	3,870		2015	$	4,394
603987	Vartech Panel Mount PC	$	4,686	VERSAVIEW REPLACEMENT	2018	$	4,827
603988	Vartech Panel Mount PC	$	4,686	VERSAVIEW REPLACEMENT	2018	$	4,827
603989	Advartech Panel Mount PC	$	4,686	VERSAVIEW REPLACEMENT	2018	$	4,827
603985	Vartech Panel Mount PC	$	4,686	VERSAVIEW REPLACEMENT	2018	$	4,827
603986	Vartech Panel Mount PC	$	4,686	VERSAVIEW REPLACEMENT	2018	$	4,827
603990	Vartech Panel Mount PC	$	4,686	VERSAVIEW REPLACEMENT	2018	$	4,827
602379	2007 Volvo Airsource Portable Air Compressor	$	16,105	Major Facilities Repairs/Replacements	2013	$	19,221
600688	SERVICE BOX-CENTER ST	$	2,103	EN91104:NRW General Administration	1992	$	4,807
300072	CHINO INTERCEPTOR	$	580	OLD00009:NRW General Administration	1970	$	4,784
603404	Barracuda 460 Firewall	$	4,326	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$	4,767
300320	RP2 GAS FLOW METERS	$	9,858	98TS95003001:RP2 - Primary/Secondary	1998	$	18,973
650078	CCWRF Server Room Desks	$	5,355		2015	$	6,080
603649	RP-2 DWTR Contol Bldg AC Fan Coil Unit #1	$	17,720	Agencywide HVAC Improvement Pkg 3	2017	$	18,803
603650	RP-2 DWTR Contol Bldg AC Fan Coil Unit #2	$	17,720	Agencywide HVAC Improvement Pkg 3	2017	$	18,803
603651	RP-2 DWTR Contol Bldg AC Fan Coil Unit #3	$	17,720	Agencywide HVAC Improvement Pkg 3	2017	$	18,803
603652	RP-2 DWTR Contol Bldg AC Fan Coil Unit #4	$	17,720	Agencywide HVAC Improvement Pkg 3	2017	$	18,803
601566	AIR COMPRESSOR	$	3,434		2008	$	4,708
601566	AIR COMPRESSOR	$	3,434		2008	$	4,708
603870	ElTek Redundant Power System	$	4,562	Microwave Communication	2018	$	4,699
603871	ElTek Redundant Power System	$	4,562	Microwave Communication	2018	$	4,699
603872	ElTek Redundant Power System	$	4,562	Microwave Communication	2018	$	4,699
603873	ElTek Redundant Power System	$	4,562	Microwave Communication	2018	$	4,699
900073	MASTER PLANNING - INDUSTRIAL	$	476	OLD05563:NRW General Administration	1968	$	4,691
300273	DIVERS. STRCT.-GEN SITE WORK	$	6,812	OLD01816:RP2 - Primary/Secondary	1984	$	18,712
603489	RP1 Cisco ASA 5515-X (SCADA Network Firewall)	$	3,945	SCADA Network Firewall	2017	$	4,187
603490	RP1 Cisco ASA 5515-X (SCADA Network Firewall)	$	3,945	SCADA Network Firewall	2017	$	4,187
603747	RP1 ControlLogix 5581E PLC	$	3,927	RP1 Centrifuge Plant Ethernet	2017	$	4,167
603748	RP1 ControlLogix 5581E PLC	$	3,927	RP1 Centrifuge Plant Ethernet	2017	$	4,167
603749	RP1 ControlLogix 5581E PLC	$	3,927	RP1 Centrifuge Plant Ethernet	2017	$	4,167

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
603750	RP1 ControlLogix 5581E PLC	$ 3,927	RP1 Centrifuge Plant Ethernet	2017	**$ 4,167**
603751	RP1 ControlLogix 5581E PLC	$ 3,927	RP1 Centrifuge Plant Ethernet	2017	**$ 4,167**
603752	RP1 ControlLogix 5581E PLC	$ 3,927	RP1 Centrifuge Plant Ethernet	2017	**$ 4,167**
602665	CCWRF WILO EMU MIXERS	$ 5,160	AERATION BASIN #4 MIXER #29	2015	**$ 5,858**
602710	CCWRF WILO EMU MIXERS	$ 5,160	AERATION BASIN #1 MIXER #1	2015	**$ 5,858**
602711	CCWRF WILO EMU MIXERS	$ 5,160	AERATION BASIN #5 MIXER #33	2015	**$ 5,858**
602578	RP1 Administra Bldg Secondary Hot Water Pump Motor	$ 3,649	Agency Wide HVAC & Server Room Fire Suppression Im	2015	**$ 4,143**
602579	RP1 Administrati Bldg Primary Hot Water Pump Motor	$ 3,649	Agency Wide HVAC & Server Room Fire Suppression Im	2015	**$ 4,143**
900236	DCS VantagePoint SQL Server Connector License	$ 4,287		2017	**$ 4,549**
602327	RP4 AB #1 Mixer #1 NE 4HP, 855 RPMN, 460V, 3PH	$ 5,232	Major Facilities Repairs/Replacements	2013	**$ 6,244**
650074	RP1 Fluorescent Lights F34W	$ 3,442	Major Facilities Repairs/Replacements	2013	**$ 4,108**
602374	SBLS Pumps #3 & #4 Parts	$ 14,721	Major Facilities Repairs/Replacements	2013	**$ 17,569**
300271	EQUAL PMP STAT-YARD PIPING &	$ 6,390	OLD01794:RP2 - Primary/Secondary	1984	**$ 17,553**
603991	Intel Corei5 FHD PCT Panel PC	$ 4,227	VERSAVIEW REPLACEMENT	2018	**$ 4,353**
603992	Advartech Panel Mount PC	$ 4,227	VERSAVIEW REPLACEMENT	2018	**$ 4,353**
603497	1630 E PS PTP800 Modem	$ 4,083	1630 E Pump Station PTP800 Modem	2017	**$ 4,333**
603498	1630 E PS PTP800 Modem	$ 4,083	1630 E Pump Station PTP800 Modem	2017	**$ 4,333**
603491	Phil LS PTP800 Modem	$ 4,083	Philadelphia Lift Station PTP800 Modem	2017	**$ 4,333**
603492	Phil LS PTP800 Modem	$ 4,083	Philadelphia Lift Station PTP800 Modem	2017	**$ 4,333**
603493	Ely Basin PTP800 Modem	$ 4,083	Ely Basin PTP800 Modem	2017	**$ 4,333**
603494	Ely Basin PTP800 Modem	$ 4,083	Ely Basin PTP800 Modem	2017	**$ 4,333**
602688	RP5 Differetial Pressure Transmitter	$ 3,369	Central Plant for the New Operations Lab	2015	**$ 3,826**
900250	VLA Windows Server Core License	$ 4,157	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$ 4,281**
603185	RP4 HEADWORK ULTRASONIC LEVEL SENSOR	$ 5,203		2015	**$ 5,907**
603185	RP4 HEADWORK ULTRASONIC LEVEL SENSOR	$ 5,203		2015	**$ 5,907**
603185	RP4 HEADWORK ULTRASONIC LEVEL SENSOR	$ 5,203		2015	**$ 5,907**
603185	RP4 HEADWORK ULTRASONIC LEVEL SENSOR	$ 5,203		2015	**$ 5,907**
602860	RP1 Dewatering 10" Plug Valve	$ 3,409	RP1 Dewatering Facility Expansion	2015	**$ 3,871**
900244	CISCO ASA 5515-X ADAPTIVE SECURITY FIREWALL	$ 4,121		2018	**$ 4,245**
603401	Dell UltraSharp Monitor	$ 3,851	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 4,244**
900251	VMWare Workstation Pro License	$ 4,047	RP-4 Replace OITs	2018	**$ 4,169**
602658	RP1 AMONIA & NITRATE SENSORS	$ 3,329	RP-1 SECONDARY AERATION TREATMENT	2015	**$ 3,780**
603868	Cisco Network Switch	$ 3,980	Microwave Communication	2018	**$ 4,099**
603869	Cisco Network Switch	$ 3,980	Microwave Communication	2018	**$ 4,099**
602289	RP5 Filter Recycle 1750 RPM Submersible Pump	$ 3,026	Major Facilities Repairs/Replacements	2013	**$ 3,612**
300052	RPP4 SECONDARY LABOR-OUTFALL	$ 2,965	99EN97020711:RP4 - Primary / Secondary	1999	**$ 5,575**
400686	Multivariable Transmitter-3095MA2CA0013AA10N0BC2S5	$ 3,025		2009	**$ 4,021**
300270	EQUAL. PMP STAT.-GEN SITE WOR	$ 5,783	OLD01793:RP2 - Primary/Secondary	1984	**$ 15,885**
700128	7X20 STEEL BOX TRAILER	$ 3,498	MAJOR FACILITIES REPAIRS/REPLACEMENTS	2015	**$ 3,972**
300016	RP5 CAMPUS APPURTENANCES	$ 2,386	06EN03032:RP5 - Primary / Secondary	2006	**$ 3,507**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
601789	Scum Sweepers	$	2,868		2008	$	**3,932**
602235	ISCO 6712 Sampler Compact Portable	$	3,291	Flo-Dar Flow Monitoring and Data	2013	$	**3,927**
602839	RP1 Dewatering 2.5" Flow Control	$	3,118	RP1 Dewatering Facility Expansion	2015	$	**3,540**
300071	ETIWANDA I.W. RELIEF SEWER	$	1,097	OLD00008:NRW Southern System	1980	$	**3,862**
900139	ADDITION TO BERM	$	1,417	OLD05561:Cucamonga Creek Dechlor	1985	$	**3,861**
603888	HQ VARTECH PANEL MOUNT PC	$	5,165	RP-4 Replace OITs	2018	$	**5,319**
603889	HQ VARTECH PANEL MOUNT PC	$	5,165	RP-4 Replace OITs	2018	$	**5,319**
603890	HQ VARTECH PANEL MOUNT PC	$	5,165	RP-4 Replace OITs	2018	$	**5,319**
603891	HQ VARTECH PANEL MOUNT PC	$	5,165	RP-4 Replace OITs	2018	$	**5,319**
602838	RP1 Dewatering Pressure Switch	$	3,053	RP1 Dewatering Facility Expansion	2015	$	**3,466**
300057	RP4 SECONDARY LABOR - OUTFALL	$	2,794	99EN97021706:RP4 - Primary / Secondary	1999	$	**5,253**
300126	MODIFY IW CONNECTION	$	1,349	OLD00116:NRW General Administration	1983	$	**3,780**
603209	RP1 ENCORE 700 METERING CHEMICAL PUMP	$	3,025		2015	$	**3,434**
603210	RP1 ENCORE 700 METERING CHEMICAL PUMP	$	3,025		2015	$	**3,434**
603211	RP1 ENCORE 700 METERING CHEMICAL PUMP	$	3,025		2015	$	**3,434**
603859	SCADA Remote Access Server (SSL VPN)	$	3,649	SCADA Network Secure Access	2018	$	**3,759**
603860	SCADA Remote Access Server (SSL VPN)	$	3,649	SCADA Network Secure Access	2018	$	**3,759**
300118	ADDITION 72/73	$	577	OLD00105:NRW General Administration	1972	$	**3,748**
300151	UYEMURA INTERNATIONAL	$	1,615	OLD00173:NRW General Administration	1992	$	**3,691**
602736	RP-4 8 I/P Valve Assembly w/Shroud	$	4,459		2015	$	**5,063**
602685	RP5 Virtual PC Workstation	$	2,808	Central Plant for the New Operations Lab	2015	$	**3,188**
603140	Uninterruptible Power Supply (UPS) System	$	3,224	Montclair Lift Station	2016	$	**3,553**
602597	RP-1 8" PLUG VALVE	$	2,806	FOR RP-1 HWS TO BOILER #1	2015	$	**3,186**
602610	RP-1 8" PLUG VALVE	$	2,806	FOR HWR TO BOILER #2	2015	$	**3,186**
400710	ST98 FLexMasster Flowmeter, Insertion	$	2,619		2009	$	**3,482**
900227	APC StruxureWare Appliance License	$	3,121	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$	**3,439**
500005	RP1 ADMIN BLDG ENHANCEMENT	$	2,123	06OA05005:Operations Center RP-1	2006	$	**3,120**
300275	U.W.P.S.-GEN SITE WORK	$	4,983	OLD01821:RP2 - Primary/Secondary	1984	$	**13,688**
300143	ENGR. & INSP. COSTS	$	1,293	OLD00156:NRW General Administration	1986	$	**3,430**
603200	RP4 HEADWORK SCREEN #2 DRIVE MOTOR	$	4,272		2016	$	**4,708**
300240	REINFORCEMNT STEEL-ACT SLUDGE	$	4,219	OLD01514:RP2 - Primary/Secondary	1981	$	**13,599**
603197	RP4 HEADWORK SCREEN #1 MOTOR FOR BRUSH	$	4,124		2015	$	**4,683**
603198	RP4 HEADWORK SCREEN #1 DRIVE MOTOR	$	4,124		2015	$	**4,683**
603199	RP4 HEADWORK SCREEN #2 MOTOR FOR BRUSH	$	4,124		2015	$	**4,683**
603402	NTP Time Server	$	3,058	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$	**3,371**
602719	RP-4 480V Electric Actuator	$	4,092	FOR SECONDARY CLARIFIER #3 SCUM WEIR	2015	$	**4,645**
601875	TAYLOR-DUNN NARROW ISLE CART	$	2,528		2009	$	**3,362**
602720	CCWRF 480V Electric Actuator	$	3,788	For Basin #2 Air Flow Control Valve	2015	$	**4,301**
602720	CCWRF 480V Electric Actuator	$	3,788	For Basin #3 Air Flow Control Valve	2015	$	**4,301**
602720	CCWRF 480V Electric Actuator	$	3,788	For Basin #4 Air Flow Control Valve	2015	$	**4,301**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
602720	CCWRF 480V Electric Actuator	$	3,788	For Basin #5 Air Flow Control Valve	2015	$	4,301
602720	CCWRF 480V Electric Actuator	$	3,788	For Basin #6 Air Flow Control Valve	2015	$	4,301
300138	LANGLOIS PICKLE CO.	$	882	OLD00146:NRW General Administration	1979	$	3,345
300063	MO1-S.B. AVE INTERCEPTER & LA	$	1,918	02EN99002:Main Office Administration	2002	$	3,342
602490	RP4 Junction Box Upgrade Foundation Fieldbus	$	4,045		2015	$	4,593
602837	RP1 Dewatering Polymer Blending Unit Motor	$	2,663	RP1 Dewatering Facility Expansion	2015	$	3,023
400185	MANHOLE	$	936	OLD00053:RP1 - Primary/Secondary	1981	$	3,017
400689	ABIC AC Input MOdule, Expansion Rack, Rack MTD	$	2,484		2009	$	3,303
600213	CCWRF MXD LIQUOR RTRN PUMP MO	$	2,188	98EN96052001:CCWRF - Primary/Secondary	1998	$	4,211
600214	CCWRF MXD LIQUOR RTRN PUMP MO	$	2,188	98EN96052003:CCWRF - Primary/Secondary	1998	$	4,211
600215	CCWRF MXD LIQUOR RTRN PUMP MO	$	2,188	98EN96052002:CCWRF - Primary/Secondary	1998	$	4,211
602852	RP1 Dewatering 2" Air Release Valve	$	2,630	RP1 Dewatering Facility Expansion	2015	$	2,986
602031	N. NRW Reliant Energy 21" Gate Valve	$	2,599	Reliant Energy 21" Valve	2011	$	3,265
602957	CCWRF 10" ECCENTRIC PLUG VALVE	$	3,641		2015	$	4,134
603486	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603476	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603477	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603478	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603479	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603480	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603481	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603482	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603483	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603484	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603485	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603487	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
603488	RP1 PAC Smart-UPS RT 3000	$	2,748	Replace RP1 PAC UPS (Battery Backup System)	2017	$	2,916
400489	WURD GRNT/CECMTCH CONS	$	2,240	:	2007	$	3,201
900206	HQB OLP GOVT DATACTR 2012R2 NL MS SERVER LIC	$	2,817		2015	$	3,198
300221	RP2 DIGESTER #4 REPAIR	$	7,899	04EN02039:RP2 - Primary/Secondary	2004	$	12,650
900208	HQB Veeam Backuo & Relication Licenses	$	2,790	Veeam Virtual Mach Backup/Recvry Softwr	2015	$	3,167
602956	CCWRF SLUDGE SCUM SMIMMER/WIPER BLADES	$	3,561		2015	$	4,043
150097	HQ Parking Lot-Removal of Dividers	$	2,301		2008	$	3,155
603495	RP4 PTP800 Modem	$	4,083	RP4 PTP800 Modem	2017	$	4,333
603496	RP4 PTP800 Modem	$	4,083	RP4 PTP800 Modem	2017	$	4,333
602697	RP5 Cooling Tower Water Filter	$	2,434	Central Plant for the New Operations Lab	2015	$	2,763
300150	AMERICAN FOODS CO.	$	1,358	OLD00172:NRW General Administration	1992	$	3,105
400032	RP4 LAGOON MODIFICATIONS	$	2,665	04EN20011:RP4 - Solids Handling	2004	$	4,267
300427	RP2 14" Primary Ductile Iron Pipe Sludge	$	10,046	RP-2 & RP-5 IPS Overflow	2012	$	12,297
400789	SB Lift Station Perimeter Iron Fence	$	9,761	Misc RC Construction Projects & Emergenc	2011	$	12,262

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Asset	Asset description	Book val.		Additional description	Acquisition Year	RCNLD	
300262	VALVE VAULT STRUCTURE	$	4,462	OLD01766:RP2 - Primary/Secondary	1984	$	**12,257**
300073	CHINO NON-RECLAIMABLE LINE	$	472	OLD00010:NRW General Administration	1972	$	**3,068**
400397	RP1 ROOF-SOLIDS MGT BLDG REPL	$	1,822	05PA05006:RP1 - Primary/Secondary	2005	$	**2,788**
150040	RP4 PERMITS	$	2,224	99HPRMTS7001:RP4 - Administration	1999	$	**4,183**
602965	NRW SEWER SPEED REDUCER VALVE ACTUATOR	$	2,661		2015	$	**3,021**
602024	Agency Wide Gate Tracking System Updates	$	2,376	Agency-wide entrance gates automatic	2011	$	**2,984**
400027	RP1-DIGESTER IMPROV PROJECT	$	1,685	04EN03026:RP1 - Primary/Secondary	2004	$	**2,698**
602518	RP2 Gravity Thickener SBox 4" Eccentric Plug Valve	$	10,426	RP-2 GT Splitter Box Gates Replacement	2015	$	**11,838**
602831	RP1 Dewatering Polymer Blending Unit Valve Motor	$	2,369	RP1 Dewatering Facility Expansion	2015	$	**2,690**
603863	Cisco Network Switch	$	2,860	Microwave Communication	2018	$	**2,946**
603864	Cisco Network Switch	$	2,860	Microwave Communication	2018	$	**2,946**
603865	Cisco Network Switch	$	2,860	Microwave Communication	2018	$	**2,946**
603866	Cisco Network Switch	$	2,860	Microwave Communication	2018	$	**2,946**
603867	Cisco Network Switch	$	2,860	Microwave Communication	2018	$	**2,946**
602571	RP1 Tertiary Bldg Chiller Water Pump Motor	$	2,346	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	**2,664**
602576	RP1 Tertiary Bldg Chiller Air Seperator	$	2,346	Agency Wide HVAC & Server Room Fire Suppression Im	2015	$	**2,664**
400641	SPLASH PADS & CONC. PIPE SPR.	$	1,077	OLD02406:RP1 - Tertiary	1989	$	**2,660**
300129	ADDITION 73/74	$	486	OLD00120:NRW General Administration	1973	$	**2,924**
601678	REPLACE OUTFALL PUMP VALVES	$	1,160	OP91009:RP1 - Tertiary	1992	$	**2,652**
300364	EN03750-NRWS Conn & Emerg Pipeline Rpr	$	2,111		2008	$	**2,894**
602963	CCWRF CAGE DRIVE/MOTOR	$	3,255		2015	$	**3,695**
602447	CCWRF Secondary Clarifier #1 4" Check Valve	$	3,157	CCWRF Secondary Clarifier No.2 Rehab.	2014	$	**3,668**
601675	WW METER VAULT	$	1,052	OLD02409:RP1 - Tertiary	1989	$	**2,597**
602504	HQB Veeam Backup Management Suite	$	2,514	Veeam Virtual Mach Backup/Recvry Softwr	2015	$	**2,854**
300059	RP4 ENGINEERING SVS-OUTFALL	$	2,084	99EN97021708:RP4 - Primary / Secondary	1999	$	**3,919**
602716	RP-5 Chlorine Residual Analyzer	$	2,219		2015	$	**2,519**
602716	RP-5 Chlorine Residual Analyzer	$	2,219		2015	$	**2,519**
602836	RP1 Dewatering Sludge Grinder Motor	$	2,269	RP1 Dewatering Facility Expansion	2015	$	**2,576**
300133	TAMCO	$	591	OLD00136:NRW General Administration	1976	$	**2,805**
602596	RP-1 6" PLUG VALVE	$	2,225	FOR RP-1 DISCHARGE GAS BOOSTER PUMP #2	2015	$	**2,527**
602598	RP-1 6" PLUG VALVE	$	2,225	FOR RP-1 DISGESTER GAS (HWR BOILER #1)	2015	$	**2,527**
602599	RP-1 6" PLUG VALVE	$	2,225	FOR RP-1 DISGESTER GAS (HWR BOILER #2)	2015	$	**2,527**
602606	RP-1 6" PLUG VALVE	$	2,225	FOR INLET TO BOTH GAS BOOSTER PUMPS AT RP-1	2015	$	**2,527**
602607	RP-1 6" PLUG VALVE	$	2,225	FOR INLET TO GAS BOOSTER PUMP #1	2015	$	**2,527**
602608	RP-1 6" PLUG VALVE	$	2,225	FOR INLET TO GAS BOOSTER PUMP #2	2015	$	**2,527**
602609	RP-1 6" PLUG VALVE	$	2,225	FOR DISCHARGE GAS BOOSTER PUMP #1	2015	$	**2,527**
602611	RP-1 6" PLUG VALVE	$	2,225	FOR HWR TO BOILER #1	2015	$	**2,527**
602612	RP-1 6" PLUG VALVE	$	2,225	FOR HWR TO BOILER #2	2015	$	**2,527**
602613	RP-1 6" CHECK VALVE	$	2,225	FOR RP-1 GAS BOOSTER #1	2015	$	**2,527**
602614	RP-1 6" CHECK VALVE	$	2,225	FOR RP-1 GAS BOOSTER #2	2015	$	**2,527**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
150064	RP2/CCP LANDSCAPING/PAVING	$	7,735	:	2007	**$**	**11,056**
150023	RP4 MOBIL/PRMTS/CAP INT.	$	2,025	99EN97025701:RP4 - Administration	1999	**$**	**3,808**
602718	RP-4 15HP Rotary Air Compressor #2	$	3,341		2015	**$**	**3,793**
602718	RP-4 15HP Rotary Air Compressor #2	$	3,341		2015	**$**	**3,793**
602737	RP-4 480V Electric Actuator	$	3,329	FOR SECONDARY CLARIFIER #3 SCUM WEIR	2015	**$**	**3,779**
602835	RP1 Dewatering Motors	$	2,178	RP1 Dewatering Facility Expansion	2015	**$**	**2,473**
400672	RP1 Concrete Pad & Exaporator System	$	1,800		2008	**$**	**2,468**
401023	RP2 Drying Beds Manhole	$	9,825	RP-2 Drying Beds Rehabilitation	2016	**$**	**10,829**
602427	HP Proliant Servers	$	2,333	Replace Telephone System Server Hardware	2014	**$**	**2,711**
602859	RP1 Dewatering 4" Swing Check Valve	$	2,166	RP1 Dewatering Facility Expansion	2015	**$**	**2,459**
900237	RP1 FactoryTalk (FT) Asset Center	$	2,310	RP1 Centrifuge Plant Ethernet	2017	**$**	**2,452**
400120	RP4 TEMPORARY LABOR ALLOCATIO	$	1,978	99HALLOC7007:RP4 - Administration	1999	**$**	**3,720**
300098	PIPELINE & CHINO/FLUME	$	810	OLD00058:RP1 - Primary/Secondary	1982	**$**	**2,413**
603884	Dell 8 Port KVM Switch	$	2,573	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**2,650**
603885	Dell 8 Port KVM Switch	$	2,573	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**2,650**
603886	Dell 8 Port KVM Switch	$	2,573	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**2,650**
603887	Dell 8 Port KVM Switch	$	2,573	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$**	**2,650**
602728	RP-1 Floating Lagoon Aerator	$	2,107	RP-1 Floating Lagoon Aerator #3	2015	**$**	**2,393**
602728	RP-1 Floating Lagoon Aerator #4	$	2,107		2015	**$**	**2,393**
602728	RP-1 Floating Lagoon Swing Aerator	$	2,107		2015	**$**	**2,393**
601496	Wemco Pumps for RP2	$	7,499		2008	**$**	**10,281**
601497	Wemco Pumps for RP2	$	7,499		2008	**$**	**10,281**
601498	Wemco Pumps for RP2	$	7,499		2008	**$**	**10,281**
601499	Wemco Pumps for RP2	$	7,499		2008	**$**	**10,281**
300130	ADDITION 75/76	$	495	OLD00121:NRW General Administration	1975	**$**	**2,552**
600697	F-M PUMP/10HP MOTOR	$	534	OLD00189:NRW General Administration	1976	**$**	**2,534**
300307	80FT. +/-21IN. VCP	$	3,595	OLD00238:RP2 - Primary/Secondary	1983	**$**	**10,075**
400396	RP1 ROOF ON ERB REPL	$	1,496	05PA05005:RP1 - Energy Recovery	2005	**$**	**2,289**
602858	RP1 Dewatering Actuator 10" Plug Valve MOV	$	2,011	RP1 Dewatering Facility Expansion	2015	**$**	**2,283**
900252	MS Virtual Desktop Access (VDA) License	$	2,405	RP-4 Replace OITs	2018	**$**	**2,477**
603527	Montclair Flow Metering Station UPS	$	2,329	Montclair Flow Metering Station	2017	**$**	**2,471**
400691	Rack Channel, Sensor HGS Comb H2S	$	1,858		2009	**$**	**2,470**
300387	MCC NRW Connection Repair	$	1,902		2010	**$**	**2,462**
602833	RP1 Dewatering Level Float Switch Hi	$	1,964	RP1 Dewatering Facility Expansion	2015	**$**	**2,230**
602834	RP1 Dewatering Level Float Switch Lo	$	1,964	RP1 Dewatering Facility Expansion	2015	**$**	**2,230**
603754	RP1 1756-EN2T/D Ethernet Module	$	2,097	RP1 Centrifuge Plant Ethernet	2017	**$**	**2,225**
603755	RP1 1756-EN2T/D Ethernet Module	$	2,097	RP1 Centrifuge Plant Ethernet	2017	**$**	**2,225**
603756	RP1 1756-EN2T/D Ethernet Module	$	2,097	RP1 Centrifuge Plant Ethernet	2017	**$**	**2,225**
603757	RP1 1756-EN2T/D Ethernet Module	$	2,097	RP1 Centrifuge Plant Ethernet	2017	**$**	**2,225**
300263	VALVE VAULT-GEN. SITE WORK	$	3,548	OLD01767:RP2 - Primary/Secondary	1984	**$**	**9,747**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
650070	High Speed Scanner for PTSC	$ 1,777		2008	**$ 2,436**
900207	HQB MS WINDOWS SERVER 2012 REMOTE SERVICES LIC	$ 2,121		2015	**$ 2,408**
603405	PAC Network Firewall	$ 2,160	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 2,381**
603882	PowerEdge FC630 Server	$ 2,301	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$ 2,370**
603883	PowerEdge FC630 Server	$ 2,301	VIRTUALIZATION HOST SERVER RPLCMNT	2018	**$ 2,370**
400192	3760 GAL. HOLDING TANK	$ 499	OLD00186:NRW General Administration	1976	**$ 2,367**
602600	RP-1 4" PLUG VALVE	$ 1,887	FOR NATURAL GAS SUPPLY TO BOILER #1	2015	**$ 2,142**
602601	RP-1 4" PLUG VALVE	$ 1,887	FOR NATURAL GAS SUPPLY TO BOILER #2	2015	**$ 2,142**
602615	RP-1 4" PLUG VALVE	$ 1,887	FOR RP-1 DIGESTER GAS	2015	**$ 2,142**
300232	CONCRETE 4000 PSI-PRIM. CLAR.	$ 2,870	OLD01505:RP2 - Primary/Secondary	1981	**$ 9,252**
400640	SHEETING & SHORING	$ 848	OLD02413:RP1 - Tertiary	1989	**$ 2,094**
400119	RP4 SECONDARY LABOR ALLOCATIO	$ 1,666	99HALLOC7005:RP4 - Administration	1999	**$ 3,133**
601900	RP5 DIGESTER ENGINE PERMITS	$ 1,545	RP5 Digester Reliability	2010	**$ 1,999**
300265	METER VAULT STRUCTURE	$ 3,252	OLD01773:RP2 - Primary/Secondary	1984	**$ 8,933**
600186	RP1 SOLIDS CONTROL BLDG EQUIP	$ 1,346	06EN04023:RP1 - Primary/Secondary	2006	**$ 1,979**
602516	Chino Creek Park Club Golf Car&Charge	$ 1,917	Chino Creek Park Modular Office/Educ Center	2015	**$ 2,176**
300213	RP2 DUCT BANK FOR CO-GEN LOAD	$ 4,161	9500105:RP2 - Primary/Secondary	1995	**$ 8,665**
300258	HEADWORKS STRUCTURE ADDITION	$ 3,148	OLD01757:RP2 - Primary/Secondary	1984	**$ 8,647**
300061	RP4 SECONDARY LABOR -OUTFALL	$ 1,558	99EN97025704:RP4 - Primary / Secondary	1999	**$ 2,930**
300000	COLA COLA ONTARIO CONNECTION	$ 1,019	9500065:Main Office Administration	1995	**$ 2,121**
602448	CCWRF Secondary Clarifier #1 4" Flap Gate Valve	$ 2,336	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$ 2,715**
603758	RP1 Cisco IE3000 Switch	$ 1,807	RP1 Centrifuge Plant Ethernet	2017	**$ 1,917**
603148	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603148	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603148	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603148	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603148	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603149	Phil Pump Station Sewer Valve Actuator	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603150	Phil Pump Station Forcemain Isolation Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603151	Phil Pump Station Swing Check Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603151	Phil Pump Station Swing Check Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603151	Phil Pump Station Swing Check Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603152	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603152	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603152	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603153	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603153	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603154	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603155	Phil Pump Station Sewer Collection Valve Actuator	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603156	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
603156	Phil Pump Station Eccentric Plug Valve	$	1,851	Philadelphia Pump Station	2015	**$**	**2,102**
603156	Phil Pump Station Eccentric Plug Valve	$	1,851	Philadelphia Pump Station	2015	**$**	**2,102**
603157	Phil Pump Station Swing Check Valve	$	1,851	Philadelphia Pump Station	2015	**$**	**2,102**
300375	EN20893-Cal Leep-Hydroturbine Analysis	$	1,531	EN20893-Cal Leep-Hydroturbine Analysis	2008	**$**	**2,099**
602735	RP-4 Electronic Valve Controller/Positioner	$	2,522		2015	**$**	**2,864**
603843	RP5 CENTRAL PLANT SHARK POWER METER	$	1,786		2018	**$**	**1,839**
601621	HEADWALL A/C 12	$	763	OLD02405:RP1 - Tertiary	1989	**$**	**1,885**
400685	Differential Pressure Transmitter-3051CD1A02A1AH2M	$	1,551		2009	**$**	**2,062**
400683	Differential Pressure Transmitter-3051CD1A02A1AH2M	$	1,551		2009	**$**	**2,062**
400684	Differential Pressure Transmitter-3051CD1A02A1AH2M	$	1,551		2009	**$**	**2,062**
602564	RP4 Blower Building 2" Valve	$	2,501	CM Misc RC Construction & Emerg Proj FY1415	2015	**$**	**2,839**
150001	TP1 AUTO IRRIGATION SYSTEM	$	1,217	05CP04009:RP1 - Tertiary	2005	**$**	**1,862**
300241	REINFORCEMNT STEEL-SEC CLAR	$	2,531	OLD01515:RP2 - Primary/Secondary	1981	**$**	**8,159**
602734	RP-4 4 Tri-Loop Signal Converter	$	2,482		2015	**$**	**2,818**
150072	Asphalt Maintenance-TP1	$	1,350		2008	**$**	**1,851**
601793	Repair 1080 T Revision Stage II Valve	$	1,475		2008	**$**	**2,022**
400394	RP1/4 PRIMARY CLARIFIERS OVER	$	1,135	04PA04005:RP1 - Primary/Secondary	2004	**$**	**1,818**
602939	CCWRF Dry Type Transformer	$	2,304	Agency-Wide HVAC Improvements - Pckg No.2	2016	**$**	**2,539**
603525	Montclair Flow Metering Station Level Transponder	$	1,863	Montclair Flow Metering Station	2017	**$**	**1,977**
603526	Montclair Flow Metering Station Level Transponder	$	1,863	Montclair Flow Metering Station	2017	**$**	**1,977**
900091	CONTRIBUTION 1982-83	$	662	OLD05590:NRW General Administration	1982	**$**	**1,970**
600695	5-6 IN. PLUG VALVES	$	409	OLD00187:NRW General Administration	1976	**$**	**1,941**
300260	HEADWORKS-YARD PIPING & VALVE	$	2,766	OLD01759:RP2 - Primary/Secondary	1984	**$**	**7,598**
300261	HEADWORKS-GENERAL ELECTRICAL	$	2,753	OLD01760:RP2 - Primary/Secondary	1984	**$**	**7,562**
700108	Taylor Dunn Electric Carts	$	1,415		2009	**$**	**1,882**
602365	CIW Vaughan Submersible Chopper Pump	$	6,287	Major Facilities Repairs/Replacements	2013	**$**	**7,504**
602432	RP1 HP E5406 ZL Core Switch	$	1,454	Core Switch RP1 - PAC Network	2014	**$**	**1,689**
400687	ABIC Analog Input Module	$	1,387		2009	**$**	**1,845**
603842	1630 E PS SHARK POWER METER	$	1,786		2018	**$**	**1,839**
602593	RP-1 1.5" GAS BYPASS MOV	$	1,474	FOR RP-1 GAS BOOSTER PUMPS	2015	**$**	**1,673**
602397	RP5 Dell PowerEdge R720 Server	$	1,401	Server Replacement Project - PAC Network	2014	**$**	**1,628**
602616	RP-1 HOT WATER BOILER #1 BLOWER MOTOR	$	1,463		2015	**$**	**1,661**
602617	RP-1 HOT WATER BOILER #2 BLOWER MOTOR	$	1,463		2015	**$**	**1,661**
300096	SEWER LINE	$	515	OLD00054:RP1 - Primary/Secondary	1981	**$**	**1,660**
400393	RP1-OVERHAUL 2 PRIM CLARIFIER	$	1,036	04PA03010:RP1 - Primary/Secondary	2004	**$**	**1,659**
603139	Montclair Lift Station Pressure Switch High	$	1,647	Montclair Lift Station	2016	**$**	**1,816**
603139	Montclair Lift Station Pressure Switch High	$	1,647	Montclair Lift Station	2016	**$**	**1,816**
603139	Montclair Lift Station Pressure Switch High	$	1,647	Montclair Lift Station	2016	**$**	**1,816**
602959	CCWRF SUMP PUMP 4" CHECK VALVE	$	2,023		2015	**$**	**2,297**
300308	40FT. +/-18IN. VCP	$	2,552	OLD00239:RP2 - Primary/Secondary	1983	**$**	**7,150**
300266	METER VAULT-GEN SITE WORK	$	2,586	OLD01774:RP2 - Primary/Secondary	1984	**$**	**7,103**
300259	HEADWORKS-GEN SITE WORK	$	2,503	OLD01758:RP2 - Primary/Secondary	1984	**$**	**6,876**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
603156	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
603156	Phil Pump Station Eccentric Plug Valve	$ 1,851	Philadelphia Pump Station	2015	**$ 2,102**
602569	RP1 Tertiary Bldg Chiller Expension Tank	$ 1,376	Agency Wide HVAC & Server Room Fire Suppression Im	2015	**$ 1,563**
300070	ADDITION 78/79	$ 415	OLD00007:NRW Southern System	1978	**$ 1,704**
602454	CCWRF Secondary Clarifier #1 Squeegees	$ 1,875	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$ 2,178**
400792	RP2 SOLIDS Asphalt Paving	$ 5,397	Misc RC Construction Projects & Emergenc	2011	**$ 6,780**
150013	RP3 LANDSCAPING & WALL	$ 809	9500183:RP3 - Primary/Secondary	1995	**$ 1,685**
400701	Two-Wire Transmitter pH/ORP Hart Communication	$ 1,267		2009	**$ 1,684**
400702	Two-Wire Transmitter pH/ORP Hart Communication	$ 1,267		2009	**$ 1,684**
400703	Two-Wire Transmitter pH/ORP Hart Communication	$ 1,267		2009	**$ 1,684**
400704	Two-Wire Transmitter pH/ORP Hart Communication	$ 1,267		2009	**$ 1,684**
602398	RP5 Dell PowerEdge R720 Server	$ 1,285	Server Replacement Project - PAC Network	2014	**$ 1,493**
400682	Pressure Transmitter-3051TG3A2B21AI5M5	$ 1,257		2009	**$ 1,672**
400681	Pressure Transmitter-3051TG3A2B21AI5M5	$ 1,257		2009	**$ 1,672**
650072	RP2 DEWATERING BLDG SKYLIGHT	$ 5,087		2010	**$ 6,583**
700110	2006 129 Chassis Welding Trailer	$ 1,197		2008	**$ 1,640**
400678	Two-Wire Transmitter Conductivity, Totoidal Hart	$ 1,228		2009	**$ 1,633**
400677	Two-Wire Transmitter Conductivity, Totoidal Hart	$ 1,228		2009	**$ 1,633**
603861	Cisco Network Switch	$ 1,542	Microwave Communication	2018	**$ 1,588**
603862	Cisco Network Switch	$ 1,542	Microwave Communication	2018	**$ 1,588**
602431	RP1 APC Smart UPS Routers	$ 1,240	UPS Replacement PAC	2014	**$ 1,440**
602460	1747-L551 SLC 5/05 Processor	$ 1,355	Replace PLC-5 Rack Sol w/ControlLogix	2014	**$ 1,574**
600692	METER 1500-266NC/1212-107NC	$ 445	OLD00107:NRW General Administration	1980	**$ 1,566**
401010	RP4 HEADWORK (FRP) BUILDING LIGHTING IMPROVEMENT	$ 1,872	FIBERGLASS REINFORCED OPTIC (FRP) BUILDING	2015	**$ 2,126**
601796	Multiquip MT84F Rammer, Gas, 3550# Forc	$ 1,097		2008	**$ 1,504**
602376	Dezurik Eccentric 6" Plug Valve	$ 4,993	Major Facilities Repairs/Replacements	2013	**$ 5,959**
650076	Chino Creek Park Storage Garage	$ 1,303	Chino Creek Park Modular Office/Educ Center	2015	**$ 1,480**
300101	ADDITIONAL COSTS - 1985/1986	$ 504	OLD00062:RP1 - Primary/Secondary	1986	**$ 1,336**
300203	84 IN. METER MANHOLE	$ 2,088	OLD00228:RP2 - Primary/Secondary	1983	**$ 5,850**
602461	1747-AENTR DCS Ethernet IP Adopter	$ 1,256	Replace PLC-5 Rack Sol w/ControlLogix	2014	**$ 1,459**
602960	CCWRF 4" DRAIN PIPE AND FLAP VALVE	$ 1,618		2015	**$ 1,838**
650077	CCWRF Control Room Cabinets	$ 1,607		2015	**$ 1,824**
300585	NRW PIPELINE 32" GMI MANHOLE FRAME AND COVER	$ 1,359	PACIFIC AVE/MARLAY AVE LATERAL NRW PIPELINE	2018	**$ 1,399**
900189	Smart Management Pack License for APC UPS	$ 1,168	Uninterruptable Power Supply (UPS) Redun	2013	**$ 1,394**
602857	RP1 Dewatering 8" Plug Valve	$ 1,114	RP1 Dewatering Facility Expansion	2015	**$ 1,264**
300264	VALVE VAULT-YARD PIPING & VAL	$ 1,997	OLD01768:RP2 - Primary/Secondary	1984	**$ 5,486**
602408	CCWRF Clarifier #1 Valve	$ 1,488	CCWRF Secondary Clarifiers Rehab Phase 1	2014	**$ 1,729**
900228	HP IMC Solution Licenses	$ 1,220	For SCADA Network Switch Mgmt and Authentication	2016	**$ 1,345**
300319	RP2 DIGESTER GAS STORAGE TANK	$ 3,346	04EN01043:RP2 - Primary/Secondary	2004	**$ 5,357**
602604	RP-1 GAS BOOSTER #1 MOTOR	$ 1,072		2015	**$ 1,217**

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Asset	Asset description		Book val.	Additional description	Acquisition Year		RCNLD
602605	RP-1 GAS BOOSTER #2 MOTOR	$	1,072		2015	$	**1,217**
602832	RP1 Dewatering Booster Pump Motors	$	1,064	RP1 Dewatering Facility Expansion	2015	$	**1,208**
300097	EAST END & RIVERSIDE	$	405	OLD00057:RP1 - Primary/Secondary	1982	$	**1,206**
300099	PIPELINE & EDISON	$	405	OLD00059:RP1 - Primary/Secondary	1982	$	**1,206**
300100	CHINO AT NAPA AVE.	$	405	OLD00060:RP1 - Primary/Secondary	1982	$	**1,206**
602624	RP-2 BOILER #1 NATURAL GAS FLOW METER TRANSMITTER	$	4,644	FOR RP-2 BOILER	2015	$	**5,273**
602625	RP-2 BOILER #1 DIGESTER GAS FLOW METER TRANSMITTER	$	4,644	FOR RP-2 BOILER	2015	$	**5,273**
300366	EN03750-NRWS Conn & Emerg Pipeline Rpr	$	960		2008	$	**1,317**
400692	Model 2602A Controller	$	984		2009	$	**1,309**
400693	Model 2602A Controller	$	984		2009	$	**1,309**
602468	1756-L72 DCS-4MB Controller	$	1,119	Replace PLC-5 Rack Sol w/ControlLogix	2014	$	**1,300**
400694	4802A Controller	$	974		2009	$	**1,295**
400695	4802A Controller	$	974		2009	$	**1,295**
601795	Repair 8" Water Main & Remove Pine Tree	$	941		2008	$	**1,290**
400623	PRESS OTFLL PMP STAT STRUCTUR	$	422	OLD02352:RP1 - Tertiary	1984	$	**1,160**
400676	Regional Facilities Repair	$	926		2008	$	**1,270**
602856	RP1 Dewatering 10" Plug Valve MOV	$	1,005	RP1 Dewatering Facility Expansion	2015	$	**1,142**
300148	ENGR & INSP COSTS	$	480	OLD00168:NRW General Administration	1988	$	**1,210**
300139	ONTARIO AT PHIL. & MILLIKEN	$	405	OLD00148:NRW General Administration	1982	$	**1,206**
300140	ONTARIO AT WINEVILLE	$	405	OLD00147:NRW General Administration	1982	$	**1,206**
400118	RP4 CONSULTATION FEES	$	885	99HALLOC7002:RP4 - Administration	1999	$	**1,663**
603467	RP1 1756-L72 4MB Controller	$	984	PACNet-Replace L55 Processors	2016	$	**1,084**
900225	HP Intelligent Management Center License	$	1,075	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$	**1,185**
150063	MONTCLAIR L/S PAVEMENT MAINTENANCE	$	817	:	2007	$	**1,168**
300230	CONCRETE 4000 PSI-GRIT CHAMB	$	1,435	OLD01503:RP2 - Primary/Secondary	1981	$	**4,626**
602733	RP-4 8 Valve Relay Assembly	$	1,399	RP-4 8 Pneumatic valve Relay Assembly	2015	$	**1,588**
600180	RP1 DAFT 1.2&3 HPPR SLDG DRN	$	653	04EN03006:RP1 - Solids Handling	2004	$	**1,046**
602966	CCWRF SKIMMER ACTUATOR/MOTOR	$	1,295		2015	$	**1,470**
602855	RP1 Dewatering 4" Plug Valve	$	919	RP1 Dewatering Facility Expansion	2015	$	**1,043**
400304	METER VAULT-YARD PIPING & VAL	$	1,659	OLD01775:RP2 - Primary/Secondary	1984	$	**4,558**
602428	Cisco 2801 Integrated Services Router	$	955	Replace Telephone System Server Hardware	2014	$	**1,109**
602467	1756-EN2T Ethernet IP Module	$	951	Replace PLC-5 Rack Sol w/ControlLogix	2014	$	**1,105**
602426	HP Proliant DL380-G5 Servers	$	945	Replace Telephone System Server Hardware	2014	$	**1,098**
300242	PIPE-CAST IRON-GRIT CHAMB	$	1,358	OLD01556:RP2 - Primary/Secondary	1981	$	**4,378**
300243	PIPE-CAST IRON-SCREEN/COMMIN	$	1,358	OLD01557:RP2 - Primary/Secondary	1981	$	**4,378**
300247	PIPE-CAST IRON-SLUDGE THICK	$	1,358	OLD01561:RP2 - Primary/Secondary	1981	$	**4,378**
600714	SUMP PUMP WELL & RELATED ALLO	$	241	OLD00492:RP1 - Solids Handling	1978	$	**991**
900180	SYMC Backup EXEC 2010 Agent for SQL	$	1,028	RP-1, RP-2 & CCWRF Upgrade to Version 8.	2011	$	**1,291**
602449	CCWRF Secondary Clarifier #1 Ball Valve	$	1,129	CCWRF Secondary Clarifier No.2 Rehab.	2014	$	**1,312**
300120	PIPELINE 1500-265NC/1212-107N	$	290	OLD00108:NRW General Administration	1980	$	**1,021**

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400409	CCWRF BLOWER BLDG ROOF REPLAC	$ 813	04PB04003:CCWRF - Primary/Secondary	2004	**$ 1,302**
300117	PACIFIC FORGE	$ 110	OLD00103:NRW General Administration	1969	**$ 987**
602434	RP4 AB 1769-L32E Compact Logix Processor	$ 1,169	RACO Replace Project (CCWRF,RP2,RP5)	2014	**$ 1,358**
602433	RP4 AB 1756-L72 4MB Controller	$ 1,154	RACO Replace Project (CCWRF,RP2,RP5)	2014	**$ 1,341**
300306	20FT. +/-30IN. VCP	$ 1,353	OLD00237:RP2 - Primary/Secondary	1983	**$ 3,792**
603388	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603389	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603390	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603391	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603392	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603393	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603394	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603395	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603396	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
603397	Dell Precision T1700	$ 860	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 948**
602436	Cisco Catalyst 3560X-48T-S Network Switches	$ 803	Switch/Router Replacement-PAC Network	2014	**$ 933**
300231	CONCRETE 4000 PSI-SCREEN/COMM	$ 1,148	OLD01504:RP2 - Primary/Secondary	1981	**$ 3,701**
100040	LAND IMPROVEMENTS-MASINGALE P	$ 2,689	OLD05508:RP2 - Tertiary	2008	**$ 3,687**
603468	RP1 1756-ENTR 2-port ENET/P Module	$ 754	PACNet-Replace L55 Processors	2016	**$ 831**
602652	RP1 Areation Basin Secondary Butterfly Valves	$ 715	RP-1 Aeration Ducting	2015	**$ 812**
602439	CISCO IE 3000 Network Switches	$ 766	Switch/Router Replacement-PAC Network	2014	**$ 890**
400645	WASHWTR HLDG TANK CONTAINMENT	$ 335	OLD02153:RP1 - Tertiary	1990	**$ 807**
602512	RP4 Allen Bradley 1 MB Controller	$ 1,075	RP4 ContolNet Replacement	2015	**$ 1,220**
602469	1756-EN2T Ethernet IP Module	$ 758	Replace PLC-5 Rack Sol w/ControlLogix	2014	**$ 881**
700109	KUDO, Solor Power Cart	$ 662		2009	**$ 880**
300110	SUPRACOTE	$ 88	OLD00095:NRW General Administration	1968	**$ 873**
603385	RP1 Laser Jet Color Printer	$ 719	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 792**
602964	CCWRF GEAR DRIVE MOTOR	$ 971		2015	**$ 1,103**
400160	RP4 EARTHQUAKE INSURANCE	$ 625	99HINS7002:RP4 - Administration	1999	**$ 1,175**
603398	Dell Latitude E6440 CT Laptop	$ 755	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 832**
603399	Dell Latitude E6440 CT Laptop	$ 755	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 832**
603400	Dell Latitude E6440 CT Laptop	$ 755	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 832**
300206	72 IN. MANHOLE	$ 1,160	OLD00232:RP2 - Primary/Secondary	1983	**$ 3,250**
603380	Surface Pro Tablet	$ 736	Plant Operations Workstation	2016	**$ 811**
602621	RP-2 6" PLUG VALVE	$ 2,806	FOR RP-2 HWR TO BOILER #1	2015	**$ 3,186**
602623	RP-2 8" PLUG VALVE	$ 2,806	FOR RP-2 HWS TO BOILER #1	2015	**$ 3,186**
602234	Gas Alert Docking Mod Max XT II	$ 666	Flo-Dar Flow Monitoring and Data	2013	**$ 795**
602234	Gas Alert Docking Mod Max XT II	$ 666	Flo-Dar Flow Monitoring and Data	2013	**$ 795**
602234	Gas Alert Docking Mod Max XT II	$ 666	Flo-Dar Flow Monitoring and Data	2013	**$ 795**
603383	HQB Laser Jet Color Printer	$ 719	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 792**

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Asset	Asset description	Book val.	Additional description	Acquisition Year	RCNLD
603386	HQB Laser Jet Color Printer	$ 719	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$ 792
602265	RP4 RTU 6 & MCC 4 Hardware Install	$ 900	RP-4 Odor Control Backup Blower	2013	$ 1,074
600694	2-6 IN. PLUG VALVES	$ 164	OLD00184:NRW General Administration	1976	$ 776
100021	RIGHT OF WAY VS. BAINBRIDGE 8	$ 280	OLD05499:RP1 - Primary/Secondary	1989	$ 691
150096	SITE WORK	$ 1,102	OLD02664:RP2 - Tertiary	1984	$ 3,026
602438	CAT3560X 48PT Network Switches	$ 641	Switch/Router Replacement-PAC Network	2014	$ 745
300251	PIPE-ACP-ACT SLUDGE	$ 920	OLD01567:RP2 - Primary/Secondary	1981	$ 2,966
602462	1756-EN2TR 2-Port ENET IP Module	$ 631	Replace PLC-5 Rack Sol w/ControlLogix	2014	$ 733
400680	Toroidal Conductivity Sensor, Lo Temp Peek	$ 527		2009	$ 700
400679	Toroidal Conductivity Sensor, Lo Temp Peek	$ 527		2009	$ 700
300239	REINFORCEMNT STEEL-PRIM CLAR.	$ 844	OLD01513:RP2 - Primary/Secondary	1981	$ 2,720
602396	RP5 Dell PowerEdge R320 Server	$ 518	Server Replacement Project - PAC Network	2014	$ 602
602513	RP4 Allen Bradley Ethernet/IP Adopter	$ 820	RP4 ContolNet Replacement	2015	$ 931
602399	RP1 DCS Room Dell PowerEdge R320 Server	$ 518	Server Replacement Project - PAC Network	2014	$ 602
300029	UPLAND INTERCEPTOR-ADD'L COST	$ 283	EN91055:RP1 - Administration	1995	$ 590
400696	FM002A Facilities Module	$ 483		2009	$ 642
150054	TP1 PAVEMENT/EQUIP PARKING AREA	$ 309	99PA99001:RP1 - Administration	1999	$ 582
602622	RP-2 6" CHECK VALVE	$ 2,225	FOR RP-2 HWR TO BOILER #1	2015	$ 2,527
602464	1785-ENET PCL-5 Ethernet Interface	$ 539	Replace PLC-5 Rack Sol w/ControlLogix	2014	$ 627
300254	PIPE-VCP-ACT SLUDGE	$ 772	OLD01575:RP2 - Primary/Secondary	1981	$ 2,487
300250	PIPE-ACP-PRIM CLAR	$ 767	OLD01566:RP2 - Primary/Secondary	1981	$ 2,471
300252	PIPE-ACP-SEC CLAR	$ 767	OLD01568:RP2 - Primary/Secondary	1981	$ 2,471
603384	CCWRF Laser Jet Color Printer	$ 719	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	$ 792
400673	RP2 Concrete Pad & Exaporator System	$ 1,800		2008	$ 2,468
400697	Sensor H2S 4Wire AL 0-100	$ 445		2009	$ 592
400698	Sensor H2S 4Wire AL 0-100	$ 445		2009	$ 592
400081	TP1 CHLORINE ROOM CONVERSION	$ 265	9600033:RP1 - Tertiary	1996	$ 537
602267	RP4 200A Disconnect Switch	$ 675	RP-4 Odor Control Backup Blower	2013	$ 806
602268	RP4 Capacitor Bank Panel	$ 675	RP-4 Odor Control Backup Blower	2013	$ 806
400705	TUpH Sensor for Use wth Remote Preamp, 15 FT Cable	$ 418		2009	$ 556
400706	TUpH Sensor for Use wth Remote Preamp, 15 FT Cable	$ 418		2009	$ 556
400707	TUpH Sensor for Use wth Remote Preamp, 15 FT Cable	$ 418		2009	$ 556
400708	TUpH Sensor for Use wth Remote Preamp, 15 FT Cable	$ 418		2009	$ 556
602626	RP-2 BOILER #1 PRESSURE RELIEF VALVE	$ 1,935		2015	$ 2,197
602628	RP-2 BOILER #1 AIR RELEASE VALVE	$ 1,935	FOR RP-2 BOILER #1 HWR	2015	$ 2,197
602629	RP-2 BOILER #1 DG PRESSURE RELIEF VALVE	$ 1,935		2015	$ 2,197
300248	PIPE-CAST IRON-BUILDINGS	$ 679	OLD01562:RP2 - Primary/Secondary	1981	$ 2,189
300249	PIPE-CAST IRON-MISC.	$ 679	OLD01563:RP2 - Primary/Secondary	1981	$ 2,189
150065	RP2/CCP LANDSCAPING/PAVING	$ 1,526	:	2007	$ 2,182
400486	WURD GRNT/CECMTCH PREL	$ 380	:	2007	$ 544

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400487	WURD GRNT/CECMTCH FINL	$	380	:	2007	**$**	**544**
300127	SWIFT & CO.	$	82	OLD00118:NRW General Administration	1972	**$**	**534**
602375	SARI Line Magnetic Flowmeter Flowtube and Remote	$	1,755	Major Facilities Repairs/Replacements	2013	**$**	**2,095**
300253	PIPE-VCP-PRIM CLAR	$	643	OLD01574:RP2 - Primary/Secondary	1981	**$**	**2,072**
300255	PIPE-VCP-SEC CLAR	$	643	OLD01576:RP2 - Primary/Secondary	1981	**$**	**2,072**
602455	CCWRF Secondary Clarifier #1 Gear Drive Motor	$	555	CCWRF Secondary Clarifier No.2 Rehab.	2014	**$**	**645**
602463	372-COROM1-LTDF-12 Aerial Outdoor	$	427	Replace PLC-5 Rack Sol w/ControlLogix	2014	**$**	**496**
900172	G1701DA MSD CHEMSTATION SOFTWARE	$	382		2010	**$**	**494**
300204	60 IN. MANHOLE	$	696	OLD00230:RP2 - Primary/Secondary	1983	**$**	**1,950**
300116	ABITIBI - WEYERHAEUSER	$	53	OLD00102:NRW General Administration	1969	**$**	**479**
601792	RP1 FLYT PUMP	$	317		2008	**$**	**434**
300205	48 IN. MANHOLE	$	657	OLD00231:RP2 - Primary/Secondary	1983	**$**	**1,842**
400191	MODIFICATION OF EXISTING MANH	$	162	OLD00151:NRW General Administration	1983	**$**	**454**
600265	RP4 ALLOC. MISC. MTRLS & SUPP	$	332	99HALLOC7004:RP4 - Administration	1999	**$**	**625**
400666	CARBON CANYON SOLAR POWER PLANT STRUCTURE	$	421		2009	**$**	**560**
300161	OUTFALL LINE R.P. #2	$	333	OLD00196:NRW General Administration	1975	**$**	**1,715**
603469	RP1 1756 EN2T Ethernet/IP Module	$	350	PACNet-Replace L55 Processors	2016	**$**	**386**
400596	VALVE REPL TP1 SETTLING BASIN	$	184	9500087:RP1 - Tertiary	1995	**$**	**384**
602620	RP-2 HOT WATER BOILER #1 BLOWER MOTOR	$	1,463		2015	**$**	**1,661**
150000	CCWRF 7 SPRINKLER CONT PEDIST	$	328	05CP04007:CCWRF - Primary/Secondary	2005	**$**	**501**
602266	RP4 OCP-8110-2 Control Panel	$	450	RP-4 Odor Control Backup Blower	2013	**$**	**537**
100023	P. AND J. WARE EASEMENT OR R/	$	132	OLD05501:RP1 - Primary/Secondary	1986	**$**	**350**
400699	Sensor STD IND HC	$	290		2009	**$**	**385**
400700	Sensor STD IND HC	$	290		2009	**$**	**385**
300303	9 IN. PARSHALL FLUME	$	542	OLD00226:RP2 - Primary/Secondary	1983	**$**	**1,518**
603238	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603240	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603241	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603242	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603243	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603244	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603245	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603246	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603247	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603248	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603249	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603250	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603251	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603252	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**
603253	Dell Latitude 3550 Laptop	$	343	Plant Operations Workstation	2016	**$**	**378**

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603254	Dell Latitude 3550 Laptop	$ 343	Plant Operations Workstation	2016	**$ 378**
603255	Dell Latitude 3550 Laptop	$ 343	Plant Operations Workstation	2016	**$ 378**
603256	Dell Latitude 3550 Laptop	$ 343	Plant Operations Workstation	2016	**$ 378**
400121	RP4 UTILITY CONNECTIONS	$ 277	99HALLOC7008:RP4 - Administration	1999	**$ 520**
900165	Model 3710FR Controller w/PWR PK High Cap	$ 266		2008	**$ 365**
300111	CALIFORNIA FINISHED METALS	$ 37	OLD00096:NRW General Administration	1968	**$ 364**
400488	WURD GRNT/CECMTCH BDDG	$ 254	:	2007	**$ 362**
400478	RP1 SLUDGE HOPPER PORTS	$ 230	:	2007	**$ 328**
600696	1-6 IN. CHECK VALVE	$ 75	OLD00188:NRW General Administration	1976	**$ 355**
300237	REINFORCMNT STEEL-GRIT CHAMBE	$ 422	OLD01511:RP2 - Primary/Secondary	1981	**$ 1,360**
602466	1747-AENTR IP Adapter	$ 289	Replace PLC-5 Rack Sol w/ControlLogix	2014	**$ 336**
300196	ADDITION 76/77	$ 62	OLD00201:RP1 - Tertiary	1976	**$ 295**
602514	RP4 Allen Bradley 5700 6-Port Managed Switch	$ 393	RP4 ContolNet Replacement	2015	**$ 447**
300309	10FT. +/-12IN. VCP	$ 425	OLD00240:RP2 - Primary/Secondary	1983	**$ 1,192**
300238	REINFORCMNT STEEL-SCREEN/COMM	$ 338	OLD01512:RP2 - Primary/Secondary	1981	**$ 1,088**
400491	WURD GRNT/CECMTCH RPT	$ 169	:	2007	**$ 242**
300219	RP2 RECYCLE FLOW PS REPAINT	$ 593	04EN02005:RP2 - Primary/Secondary	2004	**$ 950**
300235	CONCRETE 4000 PSI-BUILDINGS	$ 287	OLD01508:RP2 - Primary/Secondary	1981	**$ 925**
602465	1756-PA75 120VAC Power Related	$ 196	Replace PLC-5 Rack Sol w/ControlLogix	2014	**$ 227**
601790	Model 200 Hydroranger	$ 162		2008	**$ 222**
300060	RP4 APPRAISALS FOR OUTFALL	$ 163	99EN97025702:RP4 - Administration	1999	**$ 306**
400654	CONCRETE SLAB	$ 310	OLD02743:RP2 - Tertiary	1984	**$ 853**
100024	CBMWD LABOR EXPENSE	$ 76	OLD05503:RP1 - Primary/Secondary	1988	**$ 191**
300035	RP4 SECONDARY LABOR-OUTFALL	$ 153	99EN93004701:RP4 - Primary / Secondary	1999	**$ 287**
400305	U.W.P.S. STRUCTURE	$ 301	OLD01819:RP2 - Primary/Secondary	1984	**$ 828**
300304	CO#2-1 MODIFICATION MTR M/H	$ 290	OLD00229:RP2 - Primary/Secondary	1983	**$ 812**
603387	RP2 Laser Jet Color Printer	$ 719	PROCESS AUTOMATION CONTROLS IT IMPROVEMENT	2016	**$ 792**
400709	Type430 SS Sure-fit solenoid Valve, Normally Close	$ 138		2009	**$ 183**
400306	U.W.P.S.-ELECT. & INSTRUMENT	$ 264	OLD01822:RP2 - Primary/Secondary	1984	**$ 724**
300058	RP4 TEMPORARY SERVICES-OUTFAL	$ 123	99EN97021707:RP4 - Primary / Secondary	1999	**$ 230**
600886	RP1 FRT ON PHONE SYSTEM	$ 51	OLD04947:RP1 - Administration	1991	**$ 121**
300347	PIPE-ACP-GRIT CHAMB	$ 153	OLD01564:RP2 - Primary/Secondary	1981	**$ 494**
300348	PIPE-ACP-SCREEN/COMMIN.	$ 153	OLD01565:RP2 - Primary/Secondary	1981	**$ 494**
300349	PIPE-ACP-SLUDGE THICK	$ 153	OLD01569:RP2 - Primary/Secondary	1981	**$ 494**
600204	DEFOAMING FACILITIES RP2 DGST	$ 242	97EN93026001:RP2 - Primary/Secondary	1997	**$ 473**
601794	6"C HVT-CI	$ 83		2008	**$ 113**
601791	Model XPS10F Level Probe	$ 77		2008	**$ 105**
300352	PIPE-VCP-GRIT CHAMB	$ 129	OLD01572:RP2 - Primary/Secondary	1981	**$ 414**
300353	PIPE-VCP-SCREEN/COMMIN	$ 129	OLD01573:RP2 - Primary/Secondary	1981	**$ 414**
300354	PIPE-VCP-SLUDGE THICK	$ 129	OLD01577:RP2 - Primary/Secondary	1981	**$ 414**

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601530	CCWRP Aeration System Modification	$	94		2008	$	**129**
300305	CO#2-2 EPOXY ADD. TO 30IN. ST	$	135	OLD00235:RP2 - Primary/Secondary	1983	$	**379**
400410	RP2 CENTRIFUGE CATWALK CONSTR	$	224	04PB04008:RP2 - Solids Handling	2004	$	**359**
300370	NRWS CONN & EMERG PIPELINE RPT	$	66		2009	$	**88**
300113	ADDITION 70/71	$	9	OLD00098:NRW General Administration	1970	$	**77**
300342	PIPE-STNLSS STEEL-ACT SLUDGE	$	85	OLD01551:RP2 - Primary/Secondary	1981	$	**274**
300338	REINFORCEMNT STEEL-BUILDINGS	$	84	OLD01516:RP2 - Primary/Secondary	1981	$	**272**
300350	PIPE-ACP-BUILDINGS	$	77	OLD01570:RP2 - Primary/Secondary	1981	$	**247**
300351	PIPE-ACP-MISC.	$	77	OLD01571:RP2 - Primary/Secondary	1981	$	**247**
300341	PIPE-STNLSS STEEL-PRIM CLAR	$	71	OLD01550:RP2 - Primary/Secondary	1981	$	**228**
300343	PIPE-STNLSS STEEL-SEC CLAR	$	71	OLD01552:RP2 - Primary/Secondary	1981	$	**228**
300202	CONNECTION TO 30 IN. STUB	$	77	OLD00234:RP2 - Primary/Secondary	1983	$	**217**
300337	CONCRETE 2000 PSI-MISC EQUIP	$	66	OLD01509:RP2 - Primary/Secondary	1981	$	**213**
300355	PIPE-VCP-BUILDINGS	$	64	OLD01578:RP2 - Primary/Secondary	1981	$	**207**
300356	PIPE-VCP-MISC.	$	64	OLD01579:RP2 - Primary/Secondary	1981	$	**207**
300369	NRWS CONN & EMERG PIPELINE RPT	$	37		2009	$	**49**
600264	RP4 EQUIPMENT RENTAL	$	17	99HALLOC7003:RP4 - Administration	1999	$	**32**
150007	RP4-ADD'L SIDEWALK-ADD'L COST	$	18	04EN20026/A:RP4 - Administration	2004	$	**29**
300339	PIPE-STNLSS STEEL-GRIT EHAMB	$	14	OLD01548:RP2 - Primary/Secondary	1981	$	**46**
300340	PIPE-STNLSS STEEL-SCREEN/COMM	$	14	OLD01549:RP2 - Primary/Secondary	1981	$	**46**
300344	PIPE-STNLSS STEEL-SLUDGE THIC	$	14	OLD01553:RP2 - Primary/Secondary	1981	$	**46**
300345	PIPE-STNLSS STEEL-BUILDINGS	$	7	OLD01554:RP2 - Primary/Secondary	1981	$	**23**
300346	PIPE-STNLSS STEEL-MISC.	$	7	OLD01555:RP2 - Primary/Secondary	1981	$	**23**

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Inland Empire Utilites Agency

Wastewater Connection Fee

Asset Functional Allocation

Functional Allocation

Unit Process	Allocation Number	Flow	BOD	TSS	TOC	NH3
Collection System	1	100%				
Preliminary Treatn	2	100%				
Primary Clarifiers	3	80%		20%		
Activated Sludge	4		100%			
Secondary Clarifie	5	80%	20%			
Tertiary Treatment	6	100%				
DAF Thickening (W	7		100%			
Gravity Thickening	8			100%		
Anaerobic Digesti	9		45%	55%		
Sludge Dewaterin	10		45%	55%		
Sludge Disposal	11		45%	55%		
As All Others	0					

	RP Association	Flow	BOD	TSS	As All Others
RP1 Allocation	1	36%	24%	21%	19%
RP2 Allocation	2	32%	26%	33%	9%
RP4 Allocation	4	15%	19%	3%	63%
RP5 Allocation	5	26%	22%	6%	46%
CCWRF	c	32%	17%	1%	50%

		Flow	BOD	TSS	
RP1 Allocation	1	44.4%	29.4%	26.2%	0.0%
RP2 Allocation	2	35.3%	28.2%	36.5%	0.0%
RP4 Allocation	4	39.1%	51.5%	9.4%	0.0%
RP5 Allocation	5	48.5%	40.3%	11.1%	0.0%
CCWRF	c	64.3%	34.5%	1.2%	0.0%
All	all				100.0%

Inland Empire Utilites Agency

Wastewater Connection Fee

Asset Functional Allocation

RCNLD Allocation	Flow	BOD	TSS	As All Others
Allocated RCNLD	$ 259,409,660	$ 152,092,604	$ 77,523,852	$ 17,361,382
Reallocation of As All Other	9,209,550	5,399,585	2,752,248	(17,361,382)
Resulting Allocation	**$ 268,619,210**	**$ 157,492,189**	**$ 80,276,100**	**$ -**
Percentage Allocation	**53.0%**	**31.1%**	**15.9%**	**0.0%**

RCNLD Available Cap Allocation	Flow	BOD	TSS	As All Others
Allocated RCNLD Available Cap	$ 79,223,034	$ 46,164,565	$ 21,646,555	$ 5,458,361
Reallocation of As All Other	2,941,003	1,713,771	803,587	(5,458,361)
Resulting Allocation	**$ 82,164,037**	**$ 47,878,336**	**$ 22,450,142**	**$ -**
Percentage Allocation	**53.9%**	**31.4%**	**14.7%**	**0.0%**

Replacement Cost Allocation	Flow	BOD	TSS	As All Others
Allocated Replacement Cost	$ 485,155,624	$ 297,696,138	$ 163,925,268	$ 29,613,412
Reallocation of As All Other	15,174,759	9,311,377	5,127,275	(29,613,412)
Resulting Allocation	**$ 500,330,383**	**$ 307,007,515**	**$ 169,052,543**	**$ -**
Percentage Allocation	**51.2%**	**31.4%**	**17.3%**	**0.0%**

Appendix D
CONSTRUCTION IN PROGRESS

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Inland Empire Utilites Agency

One Water Connection Fee

Construction in Progress & Completed Projects

Include?	Fund Code	Fund	Project Number	Total	Growth Allocation	Replacement Allocation	Growth	Exisiting Customers	Total Allocation	Growth	Exisiting Customers	Total Allocation
✓	10200	GG	CP16005.00	$ 7,249	28%	72%	$ -	$ -	$ -	$ 2,030	$ 5,219	$ 7,249
✓	10200	GG	CP17001.00	76,453	28%	72%	$ 21,407	$ 55,046	$ 76,453	$ -	$ -	$ -
✓	10200	GG	EN15008.00	118	28%	72%	$ 33	$ 85	$ 118	$ -	$ -	$ -
✓	10200	GG	EN18055.00	751,400	28%	72%	$ 210,392	$ 541,008	$ 751,400	$ -	$ -	$ -
✓	10200	GG	EP17003.00	430,061	28%	72%	$ -	$ -	$ -	$ 120,417	$ 309,644	$ 430,061
✓	10200	GG	IS18013.00	5,711	28%	72%	$ -	$ -	$ -	$ 1,599	$ 4,112	$ 5,711
✓	10200	GG	IS18014.00	31,464	28%	72%	$ -	$ -	$ -	$ 8,810	$ 22,654	$ 31,464
✓	10200	GG	LB18004.00	41,141	28%	72%	$ 11,519	$ 29,621	$ 41,141	$ -	$ -	$ -
			Total GG Fund	**$ 1,343,596**			**$ 243,351**	**$ 625,760**	**$ 869,112**	**$ 132,856**	**$ 341,629**	**$ 474,485**
✓	10800	RO	EN13016.02	$ 400,426	28%	72%	$ -	$ -	$ -	$ 112,119	$ 288,306	$ 400,426
✓	10800	RO	EN13016.03	640,486	28%	72%	$ -	$ -	$ -	$ 179,336	$ 461,150	$ 640,486
✓	10800	RO	EN13016.04	2,578,954	28%	72%	$ -	$ -	$ -	$ 722,107	$ 1,856,847	$ 2,578,954
✓	10800	RO	EN13016.05	82,656	28%	72%	$ 23,144	$ 59,513	$ 82,656	$ -	$ -	$ -
✓	10800	RO	EN15008.00	24,362,838	28%	72%	$ 412,165	$ 1,059,854	$ 1,472,020	$ 6,409,429	$ 16,481,389	$ 22,890,819
✓	10800	RO	EN15012.00	768,976	28%	72%	$ 7,829	$ 20,131	$ 27,960	$ 207,485	$ 533,532	$ 741,017
✓	10800	RO	EN15012.01	930	28%	72%	$ 261	$ 670	$ 930	$ -	$ -	$ -
✓	10800	RO	EN15013.00	671,164	28%	72%	$ 87	$ 224	$ 312	$ 187,839	$ 483,013	$ 670,852
✓	10800	RO	EN17034.00	1,472,281	28%	72%	$ -	$ -	$ -	$ 412,239	$ 1,060,042	$ 1,472,281
✓	10800	RO	EN17042.00	273,364	28%	72%	$ 1,352	$ 3,476	$ 4,828	$ 75,190	$ 193,346	$ 268,537
✓	10800	RO	EN17043.00	243,434	28%	72%	$ 2,582	$ 6,640	$ 9,222	$ 65,579	$ 168,632	$ 234,212
✓	10800	RO	EN17043.01	5,857	28%	72%	$ 1,640	$ 4,217	$ 5,857	$ -	$ -	$ -
✓	10800	RO	EN17045.00	49,213	28%	72%	$ -	$ -	$ -	$ 13,780	$ 35,434	$ 49,213
✓	10800	RO	EN17072.00	128,161	28%	72%	$ -	$ -	$ -	$ 35,885	$ 92,276	$ 128,161
✓	10800	RO	EN17082.00	465,876	28%	72%	$ 66,992	$ 172,264	$ 239,255	$ 63,454	$ 163,167	$ 226,621
✓	10800	RO	EN17110.00	693,518	28%	72%	$ 3,188	$ 8,198	$ 11,386	$ 190,997	$ 491,135	$ 682,132
✓	10800	RO	EN17110.01	2,322,101	28%	72%	$ 39,922	$ 102,656	$ 142,577	$ 610,267	$ 1,569,257	$ 2,179,524
✓	10800	RO	EN17110.02	4,295	28%	72%	$ 1,203	$ 3,092	$ 4,295	$ -	$ -	$ -
✓	10800	RO	EN17110.03	28,939	28%	72%	$ 8,103	$ 20,836	$ 28,939	$ -	$ -	$ -
✓	10800	RO	EN18039.00	34,753	28%	72%	$ 4,524	$ 11,634	$ 16,158	$ 5,207	$ 13,388	$ 18,595
✓	10800	RO	EN18040.00	172,305	28%	72%	$ 1,099	$ 2,825	$ 3,923	$ 47,147	$ 121,235	$ 168,382
✓	10800	RO	EN18042.00	87,814	28%	72%	$ 14,432	$ 37,111	$ 51,543	$ 10,156	$ 26,115	$ 36,271
✓	10800	RO	EN18056.00	107,292	28%	72%	$ 30,042	$ 77,250	$ 107,292	$ -	$ -	$ -
✓	10800	RO	EN19010.00	3,741	28%	72%	$ 1,047	$ 2,693	$ 3,741	$ -	$ -	$ -
✓	10800	RO	EP18002.00	694,356	28%	72%	$ 2,653	$ 6,821	$ 9,473	$ 191,767	$ 493,116	$ 684,883
✓	10800	RO	EP18003.00	580,463	28%	72%	$ 5,120	$ 13,167	$ 18,287	$ 157,409	$ 404,767	$ 562,176
✓	10800	RO	IS17035.00	45,575	28%	72%	$ -	$ -	$ -	$ 12,761	$ 32,814	$ 45,575
✓	10800-005	RO	EN15008.00	45,520	28%	72%	$ 12,746	$ 32,774	$ 45,520	$ -	$ -	$ -
			Total RO Fund	**$ 36,965,292**			**$ 640,129**	**$ 1,646,047**	**$ 2,286,176**	**$ 9,710,152**	**$ 24,968,963**	**$ 34,679,116**

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Inland Empire Utilities Agency

One Water Connection Fee

Construction in Progress & Completed Projects

Include?	Fund Code	Fund	Project Number	Total	Growth Allocation	Replacement Allocation	Growth	Exisiting Customers	Total Allocation	Growth	Exisiting Customers	Total Allocation
			Total RO Fund	**$ 36,965,292**			**$ 640,129**	**$ 1,646,047**	**$ 2,286,176**	**$ 9,710,152**	**$ 24,968,963**	**$ 34,679,116**
✓	10900	RC	EN08009.00	$ **885,666**	28%	72%	$ -	$ -	$ -	$ 247,986	$ 637,679	$ 885,666
✓	10900	RC	EN11031.00	**2,510,453**	28%	72%	$ 1,358	$ 3,493	$ 4,851	$ 701,569	$ 1,804,033	$ 2,505,602
✓	10900	RC	EN11039.00	**1,062,627**	28%	72%	$ -	$ -	$ -	$ 297,536	$ 765,092	$ 1,062,627
✓	10900	RC	EN14018.00	**2,881,586**	28%	72%	$ 1,358	$ 3,492	$ 4,850	$ 805,486	$ 2,071,250	$ 2,876,736
✓	10900	RC	EN14019.00	**3,530,074**	28%	72%	$ -	$ -	$ -	$ 988,421	$ 2,541,653	$ 3,530,074
✓	10900	RC	EN15020.00	**11,037**	28%	72%	$ -	$ -	$ -	$ 3,090	$ 7,946	$ 11,037
✓	10900	RC	EN15042.00	**3,379**	28%	72%	$ -	$ -	$ -	$ 946	$ 2,433	$ 3,379
✓	10900	RC	EN16024.00	**7,688,124**	28%	72%	$ 3,189	$ 8,201	$ 11,391	$ 2,149,485	$ 5,527,248	$ 7,676,734
✓	10900	RC	EN16025.00	**917,824**	28%	72%	$ -	$ -	$ -	$ 256,991	$ 660,833	$ 917,824
✓	10900	RC	EN16028.00	**2,651,874**	28%	72%	$ -	$ -	$ -	$ 742,525	$ 1,909,349	$ 2,651,874
✓	10900	RC	EN17006.00	**2,058,133**	28%	72%	$ 1,933	$ 4,971	$ 6,905	$ 574,344	$ 1,476,884	$ 2,051,228
✓	10900	RC	EN17015.01	**7,631**	28%	72%	$ 2,137	$ 5,494	$ 7,631	$ -	$ -	$ -
✓	10900	RC	EN17030.00	**3,604**	28%	72%	$ -	$ -	$ -	$ 1,009	$ 2,595	$ 3,604
✓	10900	RC	EN17044.00	**344,852**	28%	72%	$ 33	$ 84	$ 116	$ 96,526	$ 248,209	$ 344,735
✓	10900	RC	EN17063.00	**59,801**	28%	72%	$ -	$ -	$ -	$ 16,744	$ 43,056	$ 59,801
✓	10900	RC	EN17063.01	**88,314**	28%	72%	$ -	$ -	$ -	$ 24,728	$ 63,586	$ 88,314
✓	10900	RC	EN18006.00	**367,899**	28%	72%	$ 281	$ 723	$ 1,004	$ 102,731	$ 264,165	$ 366,896
✓	10900	RC	EN18015.00	**174,343**	28%	72%	$ 48,816	$ 125,527	$ 174,343	$ -	$ -	$ -
✓	10900	RC	EN18026.00	**2,379**	28%	72%	$ 666	$ 1,713	$ 2,379	$ -	$ -	$ -
✓	10900	RC	EN18028.00	**68,479**	28%	72%	$ 757	$ 1,946	$ 2,703	$ 18,417	$ 47,359	$ 65,776
✓	10900	RC	EN18036.00	**137,866**	28%	72%	$ 29,330	$ 75,421	$ 104,751	$ 9,272	$ 23,843	$ 33,115
✓	10900	RC	EN18037.00	**88,165**	28%	72%	$ 15,599	$ 40,112	$ 55,710	$ 9,087	$ 23,367	$ 32,455
✓	10900	RC	EN18038.00	**71,402**	28%	72%	$ 4,697	$ 12,077	$ 16,774	$ 15,296	$ 39,332	$ 54,628
✓	10900	RC	EN19001.00	**5,046,180**	28%	72%	$ 450,626	$ 1,158,754	$ 1,609,380	$ 962,304	$ 2,474,496	$ 3,436,800
✓	10900	RC	EN19006.00	**4,304,707**	28%	72%	$ 420,727	$ 1,081,870	$ 1,502,598	$ 784,591	$ 2,017,518	$ 2,802,109
✓	10900	RC	EN19026.00	**57**	28%	72%	$ 16	$ 41	$ 57	$ -	$ -	$ -
✓	10900	RC	EN24001.00	**1,400,566**	28%	72%	$ 12,552	$ 32,277	$ 44,829	$ 379,606	$ 976,131	$ 1,355,737
✓	10900	RC	EN24002.00	**448,956**	28%	72%	$ 7,283	$ 18,727	$ 26,010	$ 118,425	$ 304,521	$ 422,946
✓	10900	RC	IS18009.00	**86,923**	28%	72%	$ -	$ -	$ -	$ 24,339	$ 62,585	$ 86,923
			Total RC Fund	**$ 36,902,901**			**$ 1,001,359**	**$ 2,574,923**	**$ 3,576,282**	**$ 9,331,453**	**$ 23,995,166**	**$ 33,326,619**
			Total Construction in Progress	**$ 90,411,735**			**$ 1,907,826**	**$ 4,908,191**	**$ 6,816,017**	**$ 19,253,911**	**$ 49,518,189**	**$ 68,772,100**

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Appendix E

PROPERTY TAX AND GRANT RECEIPT CREDITS

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Inland Empire Utilites Agency

Wastewater Connection Fee

Property Tax and Grant Revenue

	TOTAL	FYE 2002	FYE 2003	FYE 2004	FYE 2005	FYE 2006	FYE 2007	FYE 2008	FYE 2009	FYE 2010	FYE 2011
Property Tax Receipts	**$ 416,392,358**	$ 11,123,639	$ 12,433,093	$ 13,865,236	$ 10,750,711	$ 12,945,498	$ 22,183,182	$ 22,300,234	$ 23,324,917	$ 22,145,038	$ 21,584,498
Debt Service	**$ 253,949,503**	$ 6,275,522	$ 6,659,090	$ 6,311,319	$ 9,625,488	$ 16,479,370	$ 12,938,028	$ 16,525,828	$ 16,819,899	$ 16,921,986	$ 12,668,815
O&M	**$ 109,133,678**	$ 2,190,269	$ 1,979,012	$ 4,636,112	$ 4,763,380	$ 5,543,647	$ 5,481,070	$ 9,389,155	$ 5,931,471	$ 6,489,798	$ 5,654,544
Total Debt Service and O&M	**$ 363,083,181**	**$ 8,465,791**	**$ 8,638,102**	**$ 10,947,431**	**$ 14,388,868**	**$ 22,023,017**	**$ 18,419,098**	**$ 25,914,983**	**$ 22,751,370**	**$ 23,411,784**	**$ 18,323,359**
Property Taxes *(Net Debt and O&M)*	**$ 53,309,177**	**$ 2,657,848**	**$ 3,794,991**	**$ 2,917,805**	**$ (3,638,157)**	**$ (9,077,519)**	**$ 3,764,084**	**$ (3,614,749)**	**$ 573,547**	**$ (1,266,746)**	**$ 3,261,139**
PV - Debt and O&M	**$ 470,257,107**	$ 14,753,447	$ 14,700,721	$ 17,531,061	$ 22,017,828	$ 32,372,130	$ 26,328,519	$ 35,527,817	$ 30,248,066	$ 30,298,795	$ 23,018,058
PV - Property Taxes *(Net Debt/O&M)*	**$ 61,059,163**	$ 4,631,867	$ 6,458,491	$ 4,672,532	$ (5,567,103)	$ (13,343,250)	$ 5,380,435	$ (4,955,594)	$ 762,534	$ (1,639,383)	$ 4,096,688

Inland Empire Utilites Agency

Wastewater Connection Fee

Property Tax and Grant Revenue

	TOTAL	FYE 2012	FYE 2013	FYE 2014	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021
Property Tax Receipts	**$ 416,392,358**	$ 21,118,918	$ 31,505,242	$ 24,759,344	$ 26,413,822	$ 27,658,602	$ 29,688,120	$ 31,468,738	$ 31,127,100	$ 32,372,200	$ 33,343,300
Debt Service	**$ 253,949,503**	$ 12,901,052	$ 15,045,048	$ 14,525,356	$ 29,494,132	$ 12,753,326	$ 12,255,178	$ 11,935,494	$ 11,714,376	$ 12,296,746	$ 14,163,887
O&M	**$ 109,133,678**	$ 6,546,867	$ 8,677,862	$ 7,266,943	$ 6,239,519	$ 6,484,037	$ 6,105,213	$ 5,972,672	$ 6,264,581	$ 6,205,753	$ 6,455,047
Total Debt Service and O&M	**$ 363,083,181**	**$ 19,447,919**	**$ 23,722,910**	**$ 21,792,299**	**$ 35,733,651**	**$ 19,237,363**	**$ 18,360,391**	**$ 17,908,166**	**$ 17,978,957**	**$ 18,502,499**	**$ 20,618,934**
Property Taxes *(Net Debt and O&M)*	**$ 53,309,177**	**$ 1,670,999**	**$ 7,782,332**	**$ 2,967,045**	**$ (9,319,829)**	**$ 8,421,239**	**$ 11,327,729**	**$ 13,560,572**	**$ 13,148,143**	**$ 13,869,701**	**$ 12,724,366**
PV - Debt and O&M	**$ 470,257,107**	$ 23,806,066	$ 28,312,089	$ 25,319,778	$ 40,570,734	$ 21,201,295	$ 19,483,478	$ 18,445,411	$ 17,978,957	$ 18,502,499	$ 20,618,934
PV - Property Taxes *(Net Debt/O&M)*	**$ 61,059,163**	$ 2,045,459	$ 9,287,818	$ 3,447,315	$ (10,581,407)	$ 9,280,959	$ 12,020,635	$ 13,967,389	$ 13,148,143	$ 13,869,701	$ 12,724,366

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Appendix F

CAPITAL IMPROVEMENT PLAN

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Inland Empire Utilites Agency

One Water and Wastewater Connection Fee Study

Capital Improvement Projects (CIP)

Project Number	Project Title	Project Type	Fund	Note	Growth - Wastewater	Non-Growth	FYE 2020 through FYE 2040 Total		FYE 2020 through FYE 2040 Growth - Wastewater	
							NOTE: Only the amounts that are allocated to growth are included in the			
							Split for GG Projects			
							Wastewater			93%
							One Water			7%
Administrative Service Fund - GG										
EN16049	Conference Rooms Audio Visual Upgrades	10200	GG	Overall EDU Growth	28%	72%	**$**	**10,000**	$	2,613
EN18055	Headquarters Roofing	10200	GG	Overall EDU Growth	28%	72%	**$**	**15,000**	$	3,920
EN20021	Agency SCADA Integration with SAP	10200	GG	Overall EDU Growth	28%	72%	**$**	**500,000**	$	130,674
EN20040	Headquarters Campus Driveway Improvements	10200	GG	Overall EDU Growth	28%	72%	**$**	**400,000**	$	104,539
EN22010	GG Asset Management	10200	GG	Overall EDU Growth	28%	72%	**$**	**7,050,000**	$	1,842,501
EP20004	Agency Wide Vehicle Replacement	10200	GG	Overall EDU Growth	28%	72%	**$**	**1,983,850**	$	518,475
EP20006	Fleet OBDM System	10200	GG	Overall EDU Growth	28%	72%	**$**	**85,000**	$	22,215
EP21004	Agency Wide Vehicle Replacement	10200	GG	Overall EDU Growth	28%	72%	**$**	**1,523,865**	$	398,259
FM20001	HQ Interior Replacements	10200	GG	Overall EDU Growth	28%	72%	**$**	**150,000**	$	39,202
FM20002	Agency Wide Roofing	10200	GG	Overall EDU Growth	28%	72%	**$**	**1,481,100**	$	387,082
FM20003	Agency Wide Facilities Rehab & Repairs	10200	GG	Overall EDU Growth	28%	72%	**$**	**50,000**	$	13,067
FM20004	HQ Door System Upgrades	10200	GG	Overall EDU Growth	28%	72%	**$**	**180,000**	$	47,043
FM20005	Agency Wide HVAC Replacement	10200	GG	Overall EDU Growth	28%	72%	**$**	**670,000**	$	175,103
FM21002	Agency Wide Roofing	10200	GG	Overall EDU Growth	28%	72%	**$**	**2,392,964**	$	625,396
FM21003	Agency Wide Facilities Rehab & Repairs	10200	GG	Overall EDU Growth	28%	72%	**$**	**523,195**	$	136,736
IS20001	BIZ Microwave Upgrade Phase 1	10200	GG	Overall EDU Growth	28%	72%	**$**	**70,000**	$	18,294
IS20002	BIZ Cybersecurity Project (Hardware)	10200	GG	Overall EDU Growth	28%	72%	**$**	**30,000**	$	7,840
IS20003	BIZ Infrastructure Replacement Project	10200	GG	Overall EDU Growth	28%	72%	**$**	**410,000**	$	107,153
IS20006	BIZ New Workstations	10200	GG	Overall EDU Growth	28%	72%	**$**	**40,000**	$	10,454
IS20011	BIZ Conference Room TV	10200	GG	Overall EDU Growth	28%	72%	**$**	**3,500**	$	915
IS20012	BIZ Backup System SAN	10200	GG	Overall EDU Growth	28%	72%	**$**	**20,000**	$	5,227
IS20014	Technology Master Plan Update	10200	GG	Overall EDU Growth	28%	72%	**$**	**100,000**	$	26,135
IS20015	SAP Roadmap & Strategy	10200	GG	Overall EDU Growth	28%	72%	**$**	**400,000**	$	104,539
IS21001	BIZ Microwave Upgrade Phase II	10200	GG	Overall EDU Growth	28%	72%	**$**	**70,000**	$	18,294
IS21002	BIZ Cybersecurity Project (Assessment)	10200	GG	Overall EDU Growth	28%	72%	**$**	**140,000**	$	36,589
IS21006	Replace RP-1 Trailer	10200	GG	Overall EDU Growth	28%	72%	**$**	**200,000**	$	52,270
LB20001	ICPInstrument	10200	GG	Overall EDU Growth	28%	72%	**$**	**200,000**	$	52,270
LB20003	Titrator	10200	GG	Overall EDU Growth	28%	72%	**$**	**50,000**	$	13,067

Inland Empire Utilites Agency

One Water and Wastewater Connection Fee Study

Capital Improvement Projects (CIP)

Project Number	Project Title	Project Type	Fund	Note	Growth - Wastewater	Non-Growth	FYE 2020 through FYE 2040 Total	FYE 2020 through FYE 2040 Growth - Wastewater
							NOTE: Only the amounts that are allocated to growth are included in the	
LB20004	TurboVap Replacements	10200	GG	Overall EDU Growth	28%	72%	**$ 60,000**	$ 15,681
EN21020	Primavera Enhancements	10200	GG	Overall EDU Growth	28%	72%	**$ 120,000**	$ 31,362
EN22010	GG Asset Management	10200	GG	Overall EDU Growth	28%	72%	**$ 17,600,000**	$ 4,599,720
EP20004	Agency Wide Vehicle Replacement	10200	GG	Overall EDU Growth	28%	72%	**$ 1,650,000**	$ 431,224
EP21004	Agency Wide Vehicle Replacement	10200	GG	Overall EDU Growth	28%	72%	**$ 2,090,165**	$ 546,260
IS25002	Technology Master Plan Development	10200	GG	Overall EDU Growth	28%	72%	**$ 1,100,000**	$ 287,482
Future	Roofing Repair/Replace	10200	GG	Overall EDU Growth	28%	72%	**$ 11,000,000**	$ 2,874,825
	Administrative Service Fund - GG		**GG Total**				**$ 52,368,639**	**$ 13,686,424**
Non-Reclaimable Wastewater Fund - NC								
EN19027	NRW Pipeline Relining Along Cucamonga Cr	10500	NC	Overall Flow Growth	27%	73%	**$ 2,150,000**	$ 585,226
EN19028	NRW Man Hole and Pipeline Condition Asse	10500	NC	Overall Flow Growth	27%	73%	**$ 500,000**	$ 136,099
EN20014	NRWS Manhole Upgrades - 19/20	10500	NC	Overall Flow Growth	27%	73%	**$ 2,000,000**	$ 544,396
EN20016	NRWS Emergency O&M Projects FY 19/20	10500	NC	No Growth Allocation	0%	100%	**$ 1,000,000**	$ -
EN22002	NRW East End Flowmeter Replacement	10500	NC	Overall Flow Growth	27%	73%	**$ 1,650,000**	$ 449,127
EN22007	NRW Asset Management	10500	NC	Overall Flow Growth	27%	73%	**$ 6,000,000**	$ 1,633,188
EN23002	Philadelphia Lift Station Force Main Imp	10500	NC	Overall Flow Growth	27%	73%	**$ 18,500,000**	$ 5,035,662
EN26020	Lift Station AMP Projects	10500	NC	Overall Flow Growth	27%	73%	**$ 200,000**	$ 54,440
EN20014	NRWS Manhole Upgrades - 19/20	10500	NC	Overall Flow Growth	27%	73%	**$ 2,200,000**	$ 598,836
EN20016	NRWS Emergency O&M Projects FY 19/20	10500	NC	No Growth Allocation	0%	100%	**$ 1,100,000**	$ -
EN22007	NRW Asset Management	10500	NC	Overall Flow Growth	27%	73%	**$ 12,100,000**	$ 3,293,595
EN26020	Lift Station AMP Projects	10500	NC	Overall Flow Growth	27%	73%	**$ 2,000,000**	$ 544,396
	Non-Reclaimable Wastewater Fund - NC		**NC Total**				**$ 49,400,000**	**$ 12,874,964**
Wastewater Regional Capital Fund - RC								
EN11039	RP-1 Disinfection Pump Improvements	10900	RC	Project Specific	44%	56%	**$ 7,483,000**	$ 3,292,520
EN14019	RP-1 Headworks Primary and Secondary Upg	10900	RC	Project Specific	13%	87%	**$ 15,000**	$ 1,950
EN16011	Whispering Lakes Pump Station Rehab	10900	RC	Project Specific	27%	73%	**$ 4,500,000**	$ 1,224,891
EN17006	CCWRF Assets Management and Improvements	10900	RC	Project Specific	49%	51%	**$ 24,000,000**	$ 11,760,000
EN17044	RP-1 12 kV Switchgear and Generator Cont	10900	RC	Project Specific	13%	87%	**$ 50,000**	$ 6,500
EN18004	RP-1 IPS System Improvements	10900	RC	Project Specific	13%	87%	**$ 825,000**	$ 107,250
EN18006	RP-1 Flare Improvements	10900	RC	No Growth Allocation	0%	100%	**$ 5,000,000**	$ -
EN18036	CCWRF Asset Management and Improvements Pck III	10900	RC	Project Specific	49%	51%	**$ 2,101,500**	$ 1,029,735
EN18037	CCWRF Asset Management and Improvements Pck III	10900	RC	Project Specific	49%	51%	**$ 785,000**	$ 384,650
EN19001	RP-5 Liquids Treatment Expansion to 22.5 MGD	10900	RC	Project Specific	76%	24%	**$ 149,700,000**	$ 113,772,000
EN19006	RP-5 SHF	10900	RC	Project Specific	67%	33%	**$ 155,200,000**	$ 103,984,000

Inland Empire Utilites Agency

One Water and Wastewater Connection Fee Study

Capital Improvement Projects (CIP)

Project Number	Project Title	Project Type	Fund	Note	Growth - Wastewater	Non-Growth	FYE 2020 through FYE 2040 Total	FYE 2020 through FYE 2040 Growth - Wastewater
							NOTE: Only the amounts that are allocated to growth are included in the	
EN19025	Montclair and San Bernardino Force Main	10900	RC	Project Specific	26%	74%	**$ 4,050,000**	$ 1,061,100
EN19026	CCWRF 12kV Switchgear	10900	RC	Project Specific	49%	51%	**$ 1,500,000**	$ 735,000
EN19041	San Bernardino Lift Station Facility Improvement	10900	RC	Overall Flow Growth	27%	73%	**$ 300,000**	$ 81,659
EN20006	RP-1 Digester Mixing Upgrade	10900	RC	No Growth Allocation	0%	100%	**$ 750,000**	$ -
EN20015	Collection System Upgrades 19/20	10900	RC	Overall Flow Growth	27%	73%	**$ 5,000,000**	$ 1,360,990
EN22006	RC Asset Management	10900	RC	Overall EDU Growth	28%	72%	**$ 65,700,000**	$ 18,396,000
EN24001	RP-1 Liquid Treatment Capacity Recovery	10900	RC	Project Specific	87%	13%	**$ 64,350,000**	$ 55,984,500
EN24002	RP-1 Solids Treatment Expansion	10900	RC	All Expansion	61%	39%	**$ 16,100,000**	$ 9,821,000
EN26022	RP-4 Tertiary Expansion	10900	RC	Project Specific	66%	34%	**$ 500,000**	$ 330,000
IS20004	WW Cybersecurity Projects	10900	RC	Overall EDU Growth	28%	72%	**$ 110,000**	$ 30,800
IS20005	WW Infrastructure Replacement Project	10900	RC	Overall EDU Growth	28%	72%	**$ 130,000**	$ 36,400
IS20008	WW Contractor Laptops	10900	RC	Overall EDU Growth	28%	72%	**$ 5,000**	$ 1,400
IS21003	Wireless Manager Software Replacement	10900	RC	Overall EDU Growth	28%	72%	**$ 30,000**	$ 8,400
IS21004	Secure Access for RP-2	10900	RC	No Growth Allocation	0%	100%	**$ 20,000**	$ -
PL17002	HQ Solar Photovoltaic Power Plants Ph. 2	10900	RC	Overall EDU Growth	28%	72%	**$ 1,400,000**	$ 392,000
PL19001	Purchase Existing Solar Installation	10900	RC	Overall EDU Growth	28%	72%	**$ 3,500,000**	$ 980,000
EN19005	Haven LS SCADA Improvements	10900	RC	Project Specific	13%	87%	**$ 750,000**	$ 97,500
EN20015	Collection System Upgrades 19/20	10900	RC	Overall Flow Growth	27%	73%	**$ 5,500,000**	$ 1,497,089
EN22006	RC Asset Management	10900	RC	Overall EDU Growth	28%	72%	**$ 165,000,000**	$ 46,200,000
EN24001	RP-1 Liquid Treatment Capacity Recovery	10900	RC	Project Specific	74%	26%	**$ 176,000,000**	$ 130,240,000
EN24002	RP-1 Solids Treatment Expansion	10900	RC	All Expansion	61%	39%	**$ 44,000,000**	$ 26,840,000
EN26022	RP-4 Tertiary Expansion	10900	RC	Project Specific	66%	34%	**$ 4,500,000**	$ 2,970,000
Future	RP-4 Expansion Projects to 21 MGD	10900	RC	Overall EDU Growth	50%	50%	**$ 125,000,000**	$ 62,500,000
Future	RP-5 Expasion to 30 MGD	10900	RC	Fully Growth Related	100%	0%	**$ 60,000,000**	$ 60,000,000
Future	Methanol Treatment Projects - 3 sites	10900	RC	Overall EDU Growth	28%	72%	**$ 4,000,000**	$ 1,120,000
Future	RP-5 Maintenance Building	10900	RC	Overall EDU Growth	28%	72%	**$ 20,000,000**	$ 5,600,000
	Wastewater Regional Capital Fund - RC	**RC Total**					**$ 1,117,854,500**	**$ 661,847,334**
Wastewater Regional Operations and Maintenance Fund - RO								
EN13016	SCADA Enterprise System	10800	RO	Overall EDU Growth	28%	72%	**$ 8,500,000**	$ 2,380,000
EN15008	Water Quality Laboratory	10800	RO	Overall EDU Growth	28%	72%	**$ 50,000**	$ 14,000
EN15012	RP-1 Primary Effluent Conveyance Improve	10800	RO	Project Specific	13%	87%	**$ 2,660,000**	$ 345,800
EN16021	TCE Plume Cleanup	10800	RO	No Growth Allocation	0%	100%	**$ 2,135,000**	$ -
EN17042	Digester 6 and 7 Roof Repairs	10800	RO	No Growth Allocation	0%	100%	**$ 4,300,000**	$ -
EN17043	RP4 Primary Clarifier Rehab	10800	RO	Project Specific	34%	66%	**$ 7,130,000**	$ 2,424,200
EN17045	RP-1 Filter Valve Replacement	10800	RO	Project Specific	36%	64%	**$ 600,000**	$ 216,000
EN17082	RP-1 Mechanical Restoration and Upgrades	10800	RO	Project Specific	13%	87%	**$ 9,855,000**	$ 1,281,150

Inland Empire Utilites Agency

One Water and Wastewater Connection Fee Study

Capital Improvement Projects (CIP)

Project Number	Project Title	Project Type	Fund	Note	Growth - Wastewater	Non-Growth	FYE 2020 through FYE 2040 Total	FYE 2020 through FYE 2040 Growth - Wastewater
							NOTE: Only the amounts that are allocated to growth are included in the	
EN17110	RP-4 Process Improvements	10800	RO	Project Specific	34%	66%	**$ 6,150,000**	$ 2,091,000
EN18025	RP-1 Secondary System Rehabilitation	10800	RO	Project Specific	13%	87%	**$ 3,200,000**	$ 416,000
EN18042	RP-1 Civil Restoration and Upgrades	10800	RO	Project Specific	13%	87%	**$ 320,000**	$ 41,600
EN19009	RP-1 Energy Recovery	10800	RO	Project Specific	7%	93%	**$ 2,500,000**	$ 175,000
EN19010	RP-4 Influent Screen Replacement	10800	RO	Project Specific	34%	66%	**$ 2,850,000**	$ 969,000
EN19023	Asset Managment Planning Document	10800	RO	No Growth Allocation	0%	100%	**$ 1,550,000**	$ -
EN19024	Collection System Asset Management (Asse	10800	RO	No Growth Allocation	0%	100%	**$ 2,500,000**	$ -
EN20019	RO Emergency O&M Projects FY 19/20	10800	RO	No Growth Allocation	0%	100%	**$ 5,000,000**	$ -
EN20037	Agency Wide Chemical Containment Coating Rehab and R	10800	RO	No Growth Allocation	0%	100%	**$ 350,000**	$ -
EN20039	CCWRF Headworks Electrical Replacement	10800	RO	No Growth Allocation	0%	100%	**$ 300,000**	$ -
EN20041	RP-1 Tertiary Treatment FM-1 Bleach Mixing & Access	10800	RO	No Growth Allocation	0%	100%	**$ 680,000**	$ -
EN20042	RP-1 Headworks Sump Pump Redundancy	10800	RO	No Growth Allocation	0%	100%	**$ 150,000**	$ -
EN20044	RP-1 Plant 3 Primary Cover Replacement	10800	RO	No Growth Allocation	0%	100%	**$ 600,000**	$ -
EN20045	RP-1 TP-1 Level Sensor Replacement	10800	RO	No Growth Allocation	0%	100%	**$ 200,000**	$ -
EN20048	RP-4 1158 RW Wet Well Level Sensors	10800	RO	No Growth Allocation	0%	100%	**$ 65,000**	$ -
EN20051	RP-1 MCB and Old Lab Building Rehab	10800	RO	No Growth Allocation	0%	100%	**$ 1,600,000**	$ -
EN20056	RSS Haven Avenue Repair & Replace from Airport to Missi	10800	RO	Overall Flow Growth	27%	73%	**$ 6,000,000**	$ 1,633,188
EN20057	RP-4 Process Improvements Phase II	10800	RO	No Growth Allocation	0%	100%	**$ 8,300,000**	$ -
EN20058	RP-1 TP-1 Wash Water Basin Pumps Replacement	10800	RO	No Growth Allocation	0%	100%	**$ 650,000**	$ -
EN21002	Chino Creek Wetlands & Educational Park	10800	RO	Overall EDU Growth	28%	72%	**$ 500,000**	$ 140,000
EN22005	RO Asset Management	10800	RO	Overall EDU Growth	28%	72%	**$ 6,000,000**	$ 1,680,000
EN26021	Regional Conveyance AMP	10800	RO	Overall Flow Growth	27%	73%	**$ 500,000**	$ 136,099
EN26025	RP2-Preliminary Design Report for Decomm	10800	RO	Overall EDU Growth	28%	72%	**$ 3,200,000**	$ 896,000
EP20002	North Major Facilities Repair/Replacemen	10800	RO	Overall Flow Growth	27%	73%	**$ 600,000**	$ 163,319
EP20003	South Major Facilities Repair/Replacemen	10800	RO	Overall Flow Growth	27%	73%	**$ 618,000**	$ 168,218
EP20005	GapVax Replacement	10800	RO	Overall Flow Growth	27%	73%	**$ 750,000**	$ 204,148
EP21002	North Major Facilities Repair/Replacemen	10800	RO	Overall Flow Growth	27%	73%	**$ 5,400,000**	$ 1,469,869
EP21003	South Major Facilities Repair/Replacemen	10800	RO	Overall Flow Growth	27%	73%	**$ 6,466,676**	$ 1,760,216
IS20007	Control System Enterprise Historian Enhancement	10800	RO	No Growth Allocation	0%	100%	**$ 110,000**	$ -
IS20009	Control System Enhancement Projects	10800	RO	No Growth Allocation	0%	100%	**$ 30,000**	$ -
IS20010	Control System Replacement Projects	10800	RO	No Growth Allocation	0%	100%	**$ 150,000**	$ -
IS21005	Upgrade Carbon Canyon to Plant PAX 4.5	10800	RO	No Growth Allocation	0%	100%	**$ 75,000**	$ -
IS21007	WW Cybersecurity Assessment	10800	RO	No Growth Allocation	0%	100%	**$ 75,000**	$ -
PA17006	Agency-Wide Aeration Panel Replacement	10800	RO	Overall EDU Growth	28%	72%	**$ 4,200,000**	$ 1,176,000
PL17001	RO Planning Documents	10800	RO	Overall EDU Growth	28%	72%	**$ 2,200,000**	$ 616,000
PL17004	Wastewater Flow and Loading Study	10800	RO	Overall EDU Growth	28%	72%	**$ 100,000**	$ 28,000
PL19002	Regional Contract Facilitation	10800	RO	No Growth Allocation	0%	100%	**$ 500,000**	$ -
PL26001	RP-1 Advanced Water Treatment Facility	10800	RO	Overall EDU Growth	28%	72%	**$ 20,000,000**	$ 5,600,000

Inland Empire Utilites Agency

One Water and Wastewater Connection Fee Study

Capital Improvement Projects (CIP)

Project Number	Project Title	Project Type	Fund	Note	Growth - Wastewater	Non-Growth	FYE 2020 through FYE 2040 Total	FYE 2020 through FYE 2040 Growth - Wastewater
							NOTE: Only the amounts that are allocated to growth are included in the	
EN19023	Asset Managment Planning Document	10800	RO	No Growth Allocation	0%	100%	$ 5,060,000	$ -
EN19024	Collection System Asset Management (Asse	10800	RO	No Growth Allocation	0%	100%	$ 810,000	$ -
EN20019	RO Emergency O&M Projects FY 19/20	10800	RO	Overall EDU Growth	0%	100%	$ 5,500,000	$ -
EN22005	RO Asset Management	10800	RO	Overall EDU Growth	28%	72%	$ 12,100,000	$ 3,388,000
EN26021	Regional Conveyance AMP	10800	RO	Overall Flow Growth	0%	100%	$ 1,100,000	$ -
EN26025	RP2-Preliminary Design Report for Decomm	10800	RO	No Growth Allocation	0%	100%	$ 5,800,000	$ -
EP21002	North Major Facilities Repair/Replacemen	10800	RO	Overall Flow Growth	27%	73%	$ 6,600,000	$ 1,796,507
EP21003	South Major Facilities Repair/Replacemen	10800	RO	Overall Flow Growth	27%	73%	$ 8,869,850	$ 2,414,355
IS25001	SCADA Network Master Plan Dev	10800	RO	Project Specific	28%	72%	$ 1,100,000	$ 308,000
PL17001	RO Planning Documents	10800	RO	Overall EDU Growth	28%	72%	$ 330,000	$ 92,400
PL26001	RP-1 Advanced Water Treatment Facility	10800	RO	Overall Flow Growth	27%	73%	$ 60,000,000	$ 16,331,878
Future	RP-2 Decommissioning	10800	RO	No Growth Allocation	0%	100%	$ 35,000,000	$ -
Future	IERCA Improvements - Loader/Screens/Building R&R	10800	RO	Overall EDU Growth	28%	72%	$ 15,000,000	$ 4,200,000
	Wastewater Regional Operations and Maintenance Fund - RO	**RO Total**					**$ 286,939,526**	**$ 54,555,947**

Project Fund	FYE 2020 through FYE 2040 Total	FYE 2020 through FYE 2040 Growth - Wastewater
Administrative Service Fund - GG	$52,368,639	$13,686,424
Non-Reclaimable Wastewater Fund - NC	$49,400,000	$12,874,964
Wastewater Regional Capital Fund - RC	$1,117,854,500	$661,847,334
Wastewater Regional Operations and Maintenance Fund - RO	$286,939,526	$54,555,947
Total	**$ 1,506,562,665**	**$ 742,964,668**

DRAFT

Attachment 4

Wastewater & One Water Connection Fees and Service Rates Study

Workshop 2 – May 2, 2019

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Workshop Agenda

1. Connection Fee Background
2. Wastewater Connection Fees
3. One-Water Connection Fees

IEUA Funding Strategy: Based upon a comprehensive and integrated approach

General Study Approach: Each fee or rate analysis follows a similar approach.

Connection Fee Basics

Inland Empire Utilities Agency
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What is a connection fee? One-time charge imposed on new or upsized meters or connections to compensate for the cost of providing system capacity

- Assessed per unit of capacity required:
  - Wastewater per Equivalent Dwelling Unit (EDU)
  - Water per Meter Equivalent Unit (MEU)

Adopted Fees	
Wastewater Connection Fees	FY 2018/19: $6,624 per EDU FY 2019/20: $6,955 per EDU
One Water Connection Fees	FY 2018/19: $1,604 per MEU FY 2019/20: $1,684 per MEU

Regulatory Requirements: Connection fees are subject to California Government Code §66013

- Requires a reasonable nexus between the amount of the charge and the cost of capacity to serve the new development
- Defines maximum fee that may be imposed
- Legally permissible to include components for water resources, production, storage, distribution, and financial reserves
- Expansion fee revenues may only fund expansion related projects
- Not subject to Proposition 218

Hybrid Connection Fee Methodology:

Recovers proportionate share of capacity for existing system and planned future improvements

$$\text{Connection Fee} = \frac{\text{Replacement Cost of Available Capacity} + \text{Future Capacity CIP}}{\text{Future Customers}}$$

System Value and Cost Components: Hybrid connection fees account for existing assets as well as future improvements.

Existing Assets (Buy-In)

- **Existing Physical Assets** (Replacement Cost New Less Depreciation, RCNLD)
- ***Plus:*** Construction in Progress
- ***Plus:*** Cash Reserves
- ***Less:*** Adjustment for property tax revenues used for capital projects

Future Improvements (Incremental)

- Capital Improvements Attributable to Growth

Wastewater Connection Fees

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Existing System Assets: Value based on Replacement Cost New Less Depreciation (RCNLD)

- RCNLD
  - Book Value
    - Original Value
    - Less: Accumulated Depreciation
  - Escalated to FY 2018/19 using ENR CCI

Wastewater System Valuation

	Original Value	Accumulated Depreciation	Book Value	RCNLD (Trended Book Value)
Total (M)	$716.4	($373.4)	$343.0	**$505.9**

Note: Totals may not tie due to rounding.

Asset Allocation: Asset values are allocated to billable constituents based on each assets function within the system.

Wastewater System

System Functions

- Collection
- Treatment Flow
- BOD
- TSS
- Billing & Admin

- Ex 1. Collection Assets
  - Allocated to flow since collection systems are sized based on flow
- Ex 2. Aeration Basins
  - Allocated to BOD since they are used to remove BOD from wastewater

Wastewater RCNLD Functional Allocation

Billable Constituent	Flow	BOD	TSS	Total
Total (M)	$268.3	$157.3	$80.2	**$505.9**

Available Existing System Assets: The value of existing physical system available to serve growth is based on available capacity within the system.

- Each asset was associated with a particular treatment plant (or the collection system) in order to determine the "capacity" of the asset available for future users.
- Using the asset's RCNLD, the value of its available capacity was calculated

RCNLD of Available Wastewater Capacity

Billable Constituent	Flow	BOD	TSS	Total
Total (M)	$82.1	$47.8	$22.4	**$152.3**
Resulting Functional Allocation	54%	31%	15%	100%

Note: Totals may not tie due to rounding.

Applicable Reserves: Approximately 28% of IEUA's reserves are included based on the total growth in EDUs.

- The reserve funds of the wastewater system include:
  - Regional Operations and Maintenance (RO) Fund
  - Regional Wastewater Capital Improvement (RC) Fund
  - Non-Reclaimable Wastewater (NC) Fund
- Additionally, a share of the Administrative Services (GG) Fund proportional to the wastewater assets' total RCNLD out of all Agency RCNLD was included.

Wastewater Reserves

Fund	Fund Report Balance 17/18 (M)	Future User's Share (M)
Regional Operations	$76.8	$21.5
Regional Capital	$79.6	$22.3
Non Reclaimable Wastewater	$9.8	$2.7
Administrative Services	$8.4	$2.3
Total	**$174.6**	**$48.9**

Note: Totals may not tie due to rounding.

Construction-in-Progress: Approximately 28% of the construction in progress value is included based on the total growth in EDUs.

- Construction in progress costs are escalated to current dollars using the ENR CCI
- A share of the Administrative Services (GG) Fund costs were included proportional to the wastewater assets' total RCNLD out of all Agency RCNLD

Wastewater Construction In Progress

Fund	Total Construction In Progress (M)	Future Users' Share (M)
Regional Operations	$36.9	$10.3
Regional Capital	$36.9	$10.3
Non Reclaimable Wastewater	$0.4	$0.1
Administrative Services	$1.3	$0.4
Total	**$75.5**	**$21.1**

Note: Totals may not tie due to rounding.

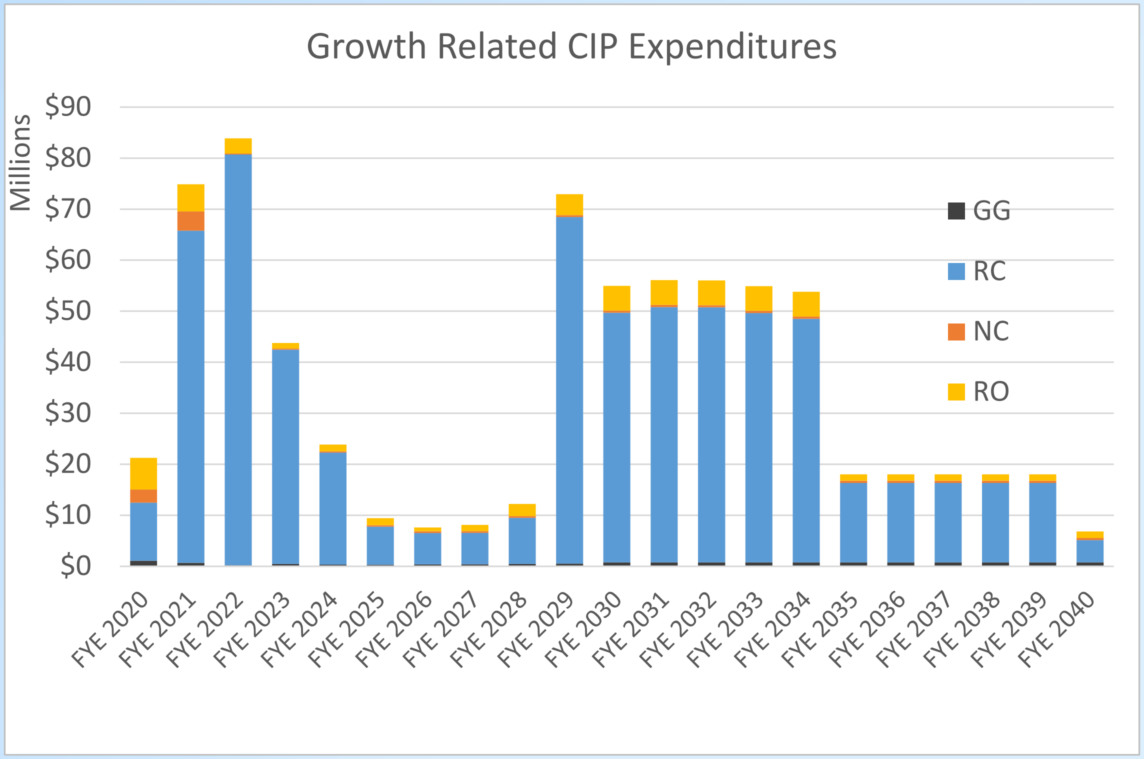
Property Tax Offset: Approximately 28% of the construction in progress value is included based on the total growth in EDUs.

- Each year a share of property tax revenues collected by IEUA are allocated to pay for capital projects, debt service, and O&M
- The present values of each recorded property tax receipt used for capital projects since FY 1999/00 totals $61.0M
- Percentage of all customers by buildout that are new, 28%, represents the percentage of $61.0M that has been collected from undeveloped properties
- $17.1M is allocated to future users

Capital Improvement Plan: Approximately 46% of CIP costs through 2040 are considered to be growth related.

Wastewater Capital Improvement Plan

Fund	2020 - 2040 Project Costs (M)	Future Users' Share (M)
Regional Operations (RO)	$286.9	$58.6
Regional Capital (RC)	$1,192.9	$645.0
Non Reclaimable Wastewater (NC)	$49.4	$13.4
Administrative Services (GG)	$48.9	$13.7
Total	**$1,578**	**$730.8**



Note: Totals may not tie due to rounding.

Customer Base: Determined based on flow and loading forecasts and Equivalent Dwelling Unit (EDU) assumptions.

Flow Forecast

Loading Forecast

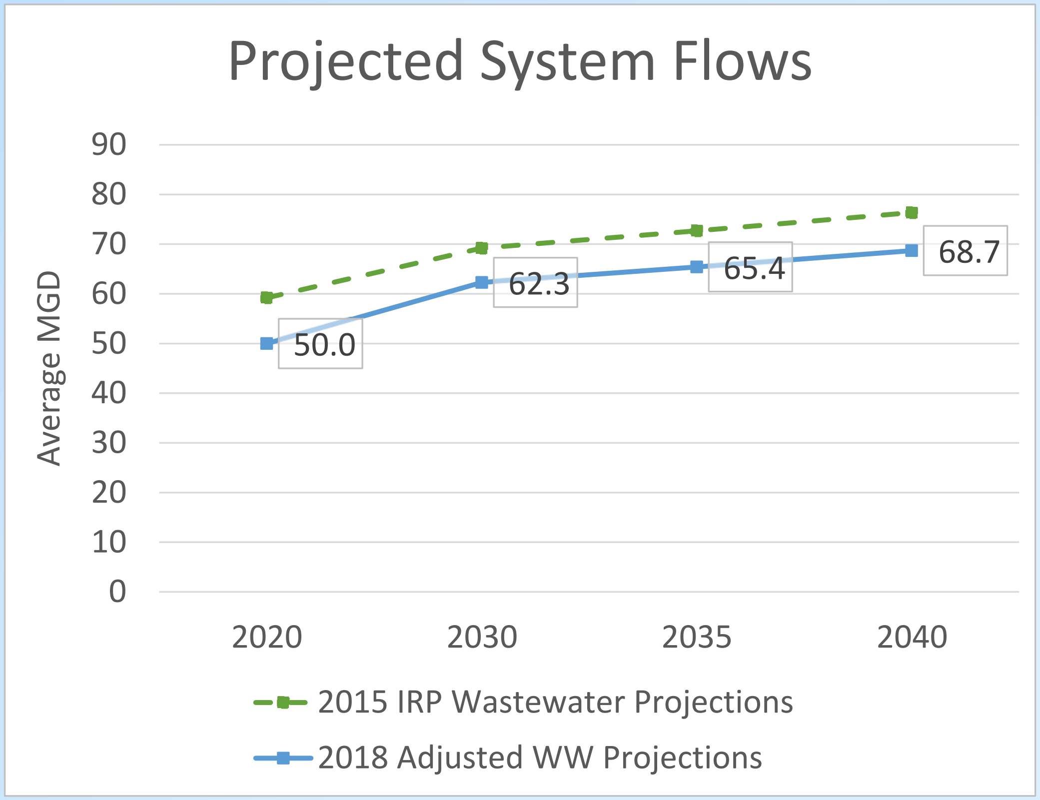
EDU Assumptions

Cost Allocations

Existing and Future Customer Base (EDUs)

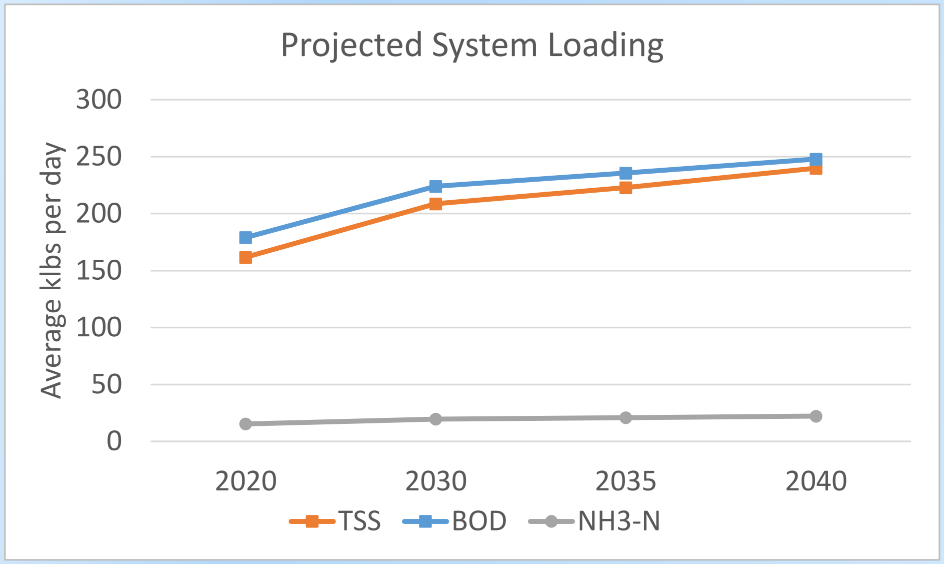
Flow Forecast: Projected flows are updated from the 2015 IRP to reflect actual flows in recent years.

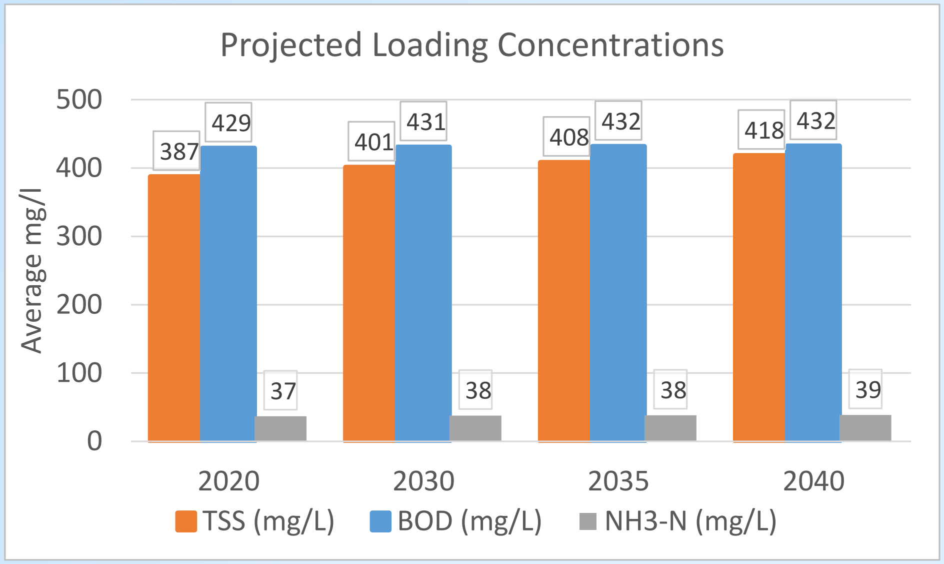
- Flow increase through 2040
  - 18.7 MGD
- Projected flows represent a 10% reduction from the 2015 IRP
  - Impact of water use efficiency measures and ongoing plumbing code updates



Loading Forecast: System loadings are expected to be consistent with projections from the 2015 Wastewater Facilities Master Plan.

- Loading concentrations are expected to increase over time due to continued indoor water use efficiency improvements for new development as well as existing customers





Resulting Growth Forecast: Loadings are expected to increase slightly faster than flows.

Flow and Loading Projections

	2020	2040	Future Users	
Flow (MGD)	50.0	68.7	**18.7**	**27%**
BOD (klbs/day)	179.0	247.9	**68.8**	**28%**
TSS (klbs/day)	161.6	239.8	**78.2**	**33%**

Note: Totals may not tie due to rounding.

EDU Definition: The EDU definition represents the expected flow and loading from a typical single family customer and accounts for IEUA's asset base.

- Updated flow assumption of 180 gpd based on 50 gpcd and projected persons per household
- Loading concentration assumptions may be refined as additional information becomes available (CASA Study, etc.)
  - Two options have been developed
    - Option A: Low Strength Concentrations: scaled loading assumptions based on current contract and updated gpd
    - Option B: High Strength Concentrations: assumes incrementally higher concentrations that Option A

EDU Definition: Continued

- Cost weighting factors are used to incorporate IEUAs asset base (physical system) into the EDU calculation
  - Weighting factors have been updated by allocating asset values to Flow, BOD, and TSS based on the function served by and sizing of each asset

EDU Assumptions

	Regional Contract	2015 Study	Updated Low Concentration		Updated High Concentration		Weighting Factor*
Flow	270 gpd	195 gpd	180 gpd	-	180 gpd	-	54%
BOD	230 mg/L	318 mg/L	345 mg/L	0.52 lbs/day	380 mg/L	0.57 lbs/day	31%
TSS	220 mg/L	304 mg/L	330 mg/L	0.50 lbs/day	365 mg/L	0.55 lbs/day	15%

*Weighting factors may change as the asset allocation is refined.

EDU Calculation: Determines the total number of EDUs based on flow and loading growth over the study period.

Option A: Low Loading Concentrations

Component	Future Users		Per EDU (Low Concentration)		Weighting Factor		EDU Components
Flow	18.7 MGD	÷	180 gpd	x	54%	=	55,976
BOD	69.0 klbs	÷	0.52 lb	x	31%	=	41,784
TSS	78.2 klbs	÷	0.50 lb	x	15%	=	23,220
					Future EDUs		**120,980**

Option B: High Loading Concentrations

Component	Future Users		Per EDU (High Concentration)		Weighting Factor		EDU Components
Flow	18.7 MGD	÷	180 gpd	x	54%	=	55,976
BOD	69.0 klbs	÷	0.57 lb	x	31%	=	37,935
TSS	78.2 klbs	÷	0.55 lb	x	15%	=	20,993
					Future EDUs		**114,905**

- Higher loading concentration assumptions result in lower future EDUs because overall loading projections are fixed

Note: Totals may not tie due to rounding.

Preliminary Wastewater Connection Fees

Component	Value (M)
RCNLD (Existing Physical System)	$152.3
Construction in Progress	$21.1
Reserves	$48.9
Less: Property Tax Offset	($17.1)
Subtotal Buy-In Portion	**$205.3**
Incremental Portion (Growth Related CIP)	**$730.8**
Option A: Low Loading Concentrations Scenario	
Expected Future Users (EDUs)	120,980
Buy-In Fee ($ per EDU)	$1,700
Incremental Fee ($ per EDU)	$6,000
Total Connection Fee ($ per EDU)	**$7,700**
Option B: High Loading Concentrations Scenario	
Expected Future Users	114,905
Buy-In Fee ($ per EDU)	$1,800
Incremental Fee ($ per EDU)	$6,400
Total Connection Fee ($ per EDU)	**$8,200**

Note: Totals may not tie due to rounding.

- Results of the preliminary analyses suggest fees ranging from:
  - **$7,700 per EDU** in the low loading concentration scenario

  to:
  - **$8,200 per EDU** in the high loading concentration scenario
- *The adopted fee for FY 2019/20 is $6,955 per EDU*

One-Water Connection Fees

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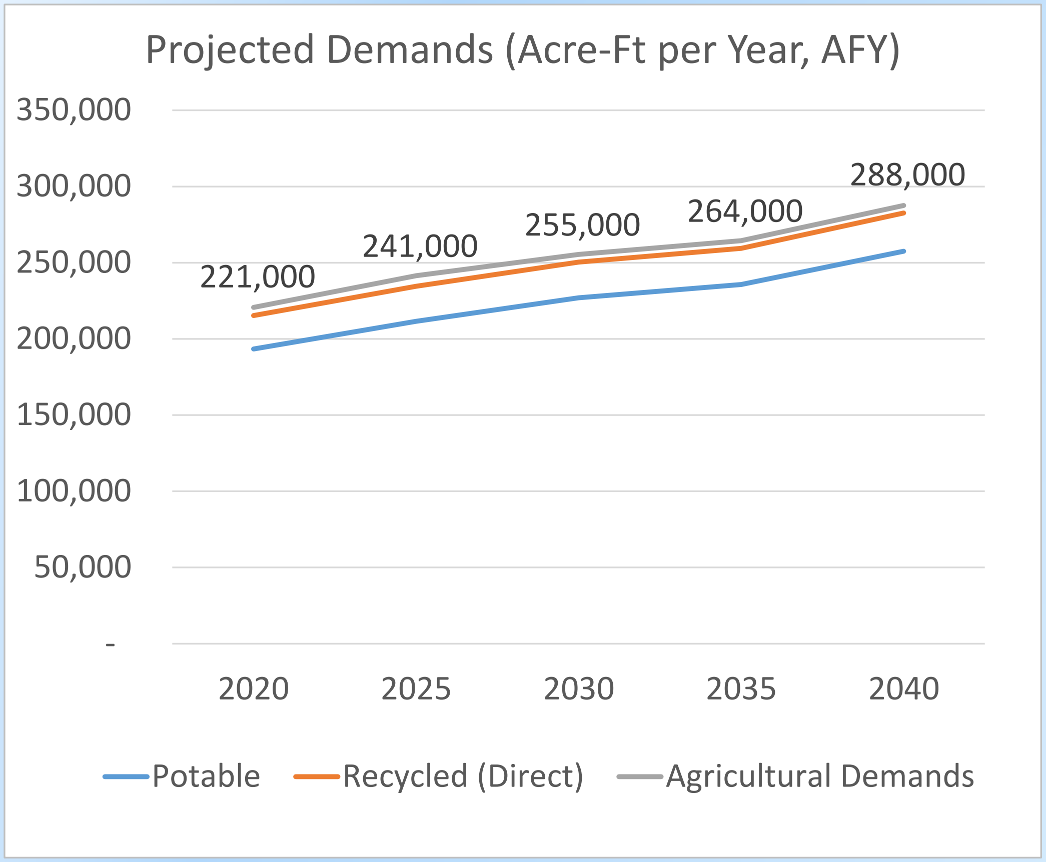
Customer Base: Determined based on water usage projections and demands per Meter Equivalent Unit (MEU).

Water Demand Forecast

Calculated Usage per Meter Equivalent Unit (MEU)

Existing and Future Customer Base (MEUs)

Water Usage Forecast: Based on 2015 UWMP or values provided by member agencies.



Water Usage Projection

	2020	2040	Future Users
Potable	193,327	257,543	64,216
Recycled (Direct)	22,000	25,000	3,000
Agricultural Demands	5,344	4,990	-354
Total	**220,671**	**287,533**	**66,862**
Percent for Future Users			**23%**

Note: Totals may not tie due to rounding.

MEU Calculations: Future MEUs are calculated based on the current usage per MEU and projected demands.

Current Connections and MEUs

Meter Size	MEU Ratio	Potable Connections	Recycled Connections
5/8"	1.0	83,869	
3/4"	1.0	56,733	
1"	2.5	43,528	122
1.5"	5.0	5,410	214
2"	8.0	8,244	458
3"	17.5	697	117
4"	31.5	356	36
6"	70.0	152	30
8"	120.0	266	11
10"	150.0	36	23
12"	175.0	2	
Total Connections		**199,293**	**1,011**
MEUs		**414,146**	**15,091**

MEU Calculation	
Current MEUs	
Potable	414,146
Recycled	15,091
Total	**429,236**
2020 Usage (AFY)	220,671
AFY per MEU	0.514
2040 Usage	287,533
2040 MEUs	**559,292**
New MEUs	**130,056**
Percent	**23%**

Note: Totals may not tie due to rounding.

Existing System Assets: The future users' share of the RCNLD and Construction in Progress is 23% based on the expected MEU growth through 2040.

Water System Valuation*

	Original Value	Accumulated Depreciation	Book Value	RCNLD (Trended Book Value)	Future Users' Share
Total (M)	$283.7	($71.5)	$212.2	$268.1	**$61.7**

*Includes assets from the Recycled Water, Recharge Water, and Water Resources Funds

Water System Construction in Progress

Fund	Total Construction In Progress (M)	Future Users' Share (M)
Recycled Water	$11.0	$0.02
Recharge Water	$3.4	$0.8
Water Resources	$1.3	$2.5
Total	**$15.7**	**$3.3**

Note: Totals may not tie due to rounding.

Applicable Reserves: Approximately 23% of IEUA's reserves are included based on the total growth in MEUs.

- The reserve funds of the water system include:
  - Recycled Water (WC) Fund
  - Recharge Water (RW) Fund
  - Water Resources (WW) Fund
- Additionally, a share of the Administrative Services (GG) Fund proportional to the water assets' total RCNLD out of all Agency RCNLD was included.

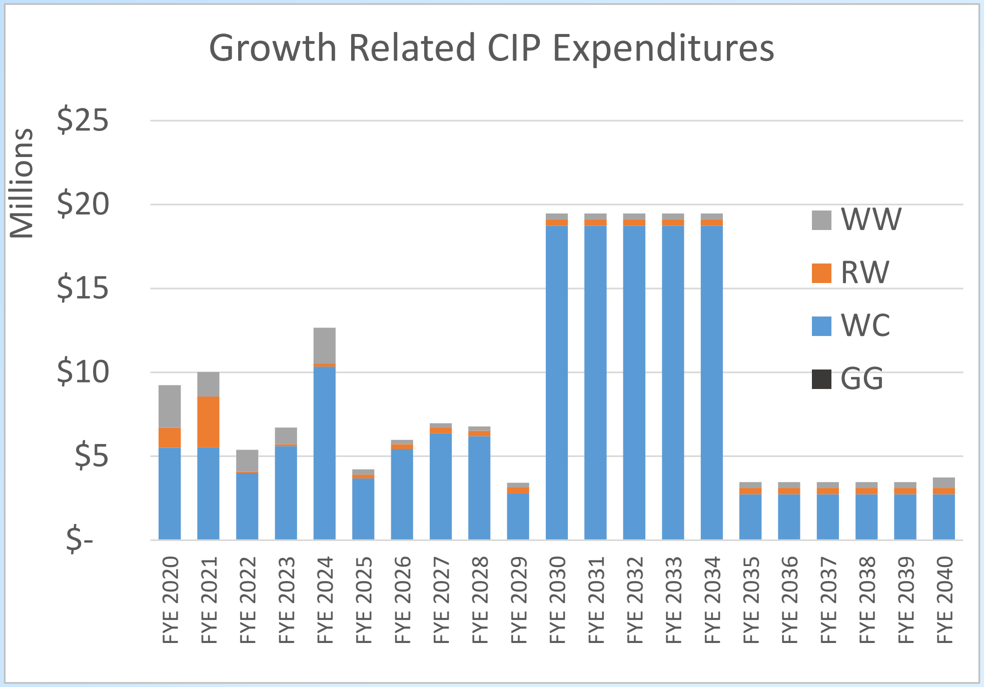
Water System Reserves

Fund	Balance (M)	Future User's Share (M)
Recycled Water	$35.1	$8.1
Recharge Water	$3.3	$0.7
Water Resources	$10.6	$2.4
Administrative Services	$4.8	$1.1
Total	**$53.7**	**$12.4**

Note: Totals may not tie due to rounding.

Capital Improvement Plan: Approximately 28% of CIP costs through 2040 are considered to be growth related.

Water System Capital Improvement Plan		
Fund	**2020 - 2040 Project Costs (M)**	**Future Users' Share (M)**
Recycled Water (WC)	$421.3	$164.8
Recharge Water (RW)	$44.8	$10.3
Water Resources (WW)	$60.3	$13.9
Administrative Services (GG)	$3.5	$0.8
Total	**$592.9**	**$189.8**



Note: Totals may not tie due to rounding.

Preliminary One-Water Connection Fees

Component	Value (M)
RCNLD (Existing Physical System)	$61.7
Construction in Progress	$3.3
Reserves	$12.4
Less: Property Tax Offset	n/a
Subtotal Buy-In Portion	**$77.3**
Incremental Portion (Growth Related CIP)	**$189.8**
Expected Future Users (MEUs)	130,056
Buy-In Fee ($ per MEU)	$600
Incremental Fee ($ per MEU)	$1,500
Total Connection Fee per MEU	**$2,100**

Note: Totals may not tie due to rounding.

- Results of the preliminary analyses suggest fees of approximately **$2,100 per MEU**
- Calculations will continue to be refined based on:
  - CIP Costs
  - Growth Projections
  - Growth Allocations
- *The adopted fee for FY 2019/20 is $1,684 per MEU*

Next Steps

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Next Steps:

- Continue to refine connection fee analyses
- Develop analyses for service rates
  - Wastewater Monthly EDU Rate
  - Water Monthly MEU Rate
  - Recycled Water Volumetric Rates
  - Recharge Water Volumetric Rate
- Incorporate scenarios to assess the impact of the Chino Basin Program

RECEIVE AND FILE

4F

Draft Regional Contract Milestone Schedule

Milestone	Deadline*	Turnaround (Days)	Turnaround (weeks)
Comments of Significance to Jeff	June 10, 2021		
Compile and categorize comments and meet to discuss incorporation	June 23, 2021	13	1.9
Jeff to revise the contract (Draft 4)	July 5, 2021	25	3.6
Contract Agencies to review Draft 4 and provide further comments to Jeff	July 23, 2021	18	2.6
Jeff to revise contract (Draft 5)	August 4, 2021	12	1.7
K&W to review and provide comments to the CAs	August 18, 2021	14	2.0
CAs perform review in parallel prior to releasing to IEUA			
Jeff to revise contract (Draft 6)	August 30, 2021	12	1.7
Release to IEUA for review	October 4, 2021	35	5.0
Contract Negotiations - CAs and IEUA	**December 27, 2021**	**84**	**12.0**
Jeff to revise contract (Draft 7)	January 10, 2022	14	2.0
Final review by all parties (CAs and IEUA)	February 7, 2022	28	4.0

*** - Deadlines are estimated and subject to change based on comments and negotiations**

Updated 07/16/21

POLICY COMMITTEE ITEMS DISTRIBUTED

5A

Chino Basin Program | Water Storage Investment Program (CBP | WSIP)

June 2021

CBP

WHAT IS THIS PROGRAM?

The Inland Empire Utilities Agency (IEUA) submitted the Chino Basin Program for Proposition 1 Water Storage Investment Program (WSIP) funding in 2017 on behalf of the IEUA region. The CBP | WSIP invests $212M of State funding to augment local investment in wastewater treatment, wells, pumps, and pipelines to make available, distribute and store new advanced treated water supplies within the Chino Basin. In exchange for this funding, the CBP | WSIP would make available 375,000 acre-feet of water in Lake Oroville over 25 years for the California Department of Fish & Wildlife to manage for the purpose of improving habitat for native fish populations in the Bay-Delta watershed.

HOW WILL THIS PROGRAM WORK?

The CBP | WSIP new advanced treated local water supplies would meet a portion of IEUA's State Water Project (SWP) demand with the objective of providing an equal amount of SWP supplies in Lake Oroville that would otherwise have been delivered to the Metropolitan Water District of Southern California (MWD). MWD recognizes the benefits of the CBP | WSIP project and has committed to partnering with IEUA to facilitate the exchange of water between the SWP and IEUA. To keep MWD "whole," IEUA would replace MWD's reduced SWP supplies with local CBP | WSIP supplies through a combination of actions: (1) IEUA reducing its MWD water demands by consuming the locally stored CBP | WSIP water and (2) pumping CBP | WSIP local water into MWD's Rialto Feeder.

HOW MUCH WILL THIS PROGRAM COST?

The CBP | WSIP total capital cost is estimated to be $650M ($2019). With a State investment of $212M, the local cost share is approximately $438M ($2019). The capital cost is proposed to be funded by a combination of wastewater rates, One Water connection fees, property taxes, and investments by participating agencies. The Operations and Maintenance (O&M) cost for the wastewater related costs will be borne by monthly wastewater rates. The O&M cost for water supply resilience and reliability will be borne by participating agencies.

In addition, IEUA was approved for $8.9M by the California Water Commission for reimbursement of 100% of all planning costs related to the CBP | WSIP program.

WHAT ARE THE BENEFITS?

Chino Basin Benefits: The advanced treated water would reduce salinity and improve water quality in the Chino Basin, while also addressing subsidence concerns. This program will enhance local water supplies, provide new levels of intra-basin water management flexibility, and reduce regional dependence on imported water from the SWP.
Specific benefits include:

- This external funding would help fund many of the capital improvement projects already planned for the Chino Basin.
- The facilities would remove salinity from recycled water, improving the sustainability of local water supplies and decreasing dependency on SWP supplies.
- The facilities would be available for local use during the 25-year CBP | WSIP water exchange commitment period when not needed for the CBP | WSIP purpose.
- The facilities and water supplies would help mitigate water shortages during low SWP allocation years, such as 2021.
- The facilities would provide local water deliveries replacing the SWP deliveries in the Rialto Feeder service area during planned and unplanned service interruptions.
- The facilities would provide emergency water supplies following a catastrophic event that damages imported water infrastructure.
- The facilities would be available to meet IEUA and its member agencies' needs after the 25-year CBP | WSIP commitment in perpetuity.

IEUA has been working collaboratively with the member agencies to refine the facilities and terms of operations to meet the needs raised by the stakeholders within the Chino Basin while balancing the CBP | WSIP requirements, including the proposed water exchange.

WHAT ARE THE NEXT STEPS?

CBP | WSIP Workgroup Meetings

- Mid-July
- Mid-August

Policy Workshop

- Mid-September

IEUA Board Action (Final Assessment)

- October 20

California Water Commission Meeting

- November 17