



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, September 21, 2022

TIME: 11:00 a.m. to 1:30 p.m.

LOCATION: The health and well-being of the MetroTAC members/alternates and participating staff during the COVID-19 outbreak remains our top priority. The MetroTAC is taking steps to ensure the safety of all involved by holding its September meeting electronically via Zoom.

E-mail containing information on how to participate in the meeting will be distributed to the MetroTAC members e-mail list and approved San Diego City Staff by Monday, September 19, 2022, by 5:00 p.m. If you do not receive the e-mail, please contact Lori Peoples at lpeoples@chulavistaca.gov PRIOR to the meeting date

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1. Review and Approve Metro TAC Action Minutes for the Meeting of July 20, 2022 (**Attachment**)
 2. Metro Commission/JPA Board Meeting Recap (Standing Item) (Beth Gentry)
 3. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Proposed Change to Metro Wastewater JPA Agreement (Adriana Ochoa) (**Attachment**)
 4. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the FY2022 Year-End Financial Statements (Lee Ann Jones Santos/Karyn Keze) (**Attachment**)
 5. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Amendment to FY2023 Metro Wastewater JPA Budget Billings (Lee Ann Jones Santos, Karyn Keze) (**Attachment**)
 6. **DISCUSSION:** Review of Current PA Metro Billing Formulas (Dexter Wilson/Karyn Keze) (**Attachments**)
 7. **DISCUSSION:** Sanitary Sewer Management Performance Risk and System Optimization – Part 2 (Mike Rosenberg) (**Attachments**)
 8. **DISCUSSION:** Review of San Diego PUD Emergency Change Orders
 - A. \$80M Change Order for Chemical Contracts (**Attachment**)
 - B. \$20M Construction Change Orders (CCO) for Morena Pump Station (Amy Dorman) (**Attachment**)
 9. **DISCUSSION:** Review of Draft Language for the Conveyance and Treatment of Wastewater Generated at Military Bases to Address the Amended and Restated Agreement Section 2.9.1.6 (Dexter Wilson) (**Attachment**)
 10. **UPDATE:** East County Advanced Water Purification Program (Mark Niemiec)

11. **UPDATE:** Metro Wastewater (General) (Standing Item) (**Attachment Covers 11 A,B, and D**)
 - A. Pt. Loma Wastewater Treatment Plant Road
 - B. April 10, 2020, Spill Update – Supplemental Environmental Project Review, Duckbill Valve Sealing Details and Public Hearing Update
 - C. Capital Program Master Planning Process Overview and Status (no update)
 - D. Update on Tentative Order No. R9-2022-0078 Hearing and associated cost increases
12. **UPDATE:** 4th Quarterly Metro Capital Improvement Program and Funding Sources (**Attachment**) (Tung Phung)
13. **UPDATE:** Pure Water Program (Standing Item)
 - A. Pure Water Construction Contracts Update (Amy Dorman) (**Attachment**)
 - B. Secondary Equivalency
14. **UPDATE:** Committee on Proposed Mutual Aid Agreement with Wastewater Agencies (Standing Item) (Peejay Tubongbanua)
15. **UPDATE:** Industrial Wastewater Control Committee (Standing Item) (Beth Gentry)
16. **UPDATE:** Metro Wastewater (Financial) (Standing Item) (Adam Jones)
17. **UPDATE:** Financial (Standing Item) (Karyn Keze)
18. **UPDATE:** IRWMP Update (Standing Item) (Beth Gentry)
19. **ACTION:** New Members to IRWM Committee (Beth Gentry)
20. **REPORT:** MetroTAC Work Plan (Standing Item) (Beth Gentry) (**Attachment**)
21. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**October 6, 2022**)
22. Other Business of Metro TAC
23. Adjournment ([To the next Regular Meeting October 19, 2022](#))

Metro TAC 2022 Meeting Schedule

January 19	May 18	September 21
February 16	June 15	October 19
March 16	July 20	November 16
April 20	August 17	December 21

Attachment 1

Metro TAC Action Minutes for the Meeting of July 20, 2022



Metro TAC
(Technical Advisory Committee to Metro Commission/JPA)

ACTION MINUTES

DATE OF MEETING: July 20, 2022

TIME: 11:00 AM

LOCATION: Zoom Meeting held Online

MEETING ATTENDANCE:

Members Present

Beth Gentry, Chula Vista
Leon Firsht, Coronado (ABSENT)
Joe Bride, Del Mar
Blake Berringer, El Cajon
Hamed Hashemian, La Mesa
Eric Minicilli, Imperial Beach (ABSENT)
Open Position, Lemon Grove (ABSENT)
Carmen Kasner, National City
Robert Kennedy, Otay WD
Steven Beppler, Otay WD
Paul Clarke, Padre Dam MWD
Eliza Marrone, Poway
Peejay Tubongbanua, County of San Diego

San Diego City Staff/Consultants

Tom Rosales, City of San Diego
Adam Jones, City of San Diego
Amy Dorman, City of San Diego
Huy Nguyen, City of San Diego
Tung Phung, City of San Diego
Joy Newman, City of San Diego
Surraya Rashid, City of San Diego

Others Present

Doug Owen, Stantec
Benjamin Stewart, Stantec

Dean Gipson, HDR

Staff/Consultants Present

Karyn Keze, the Keze Group
Scott Tulloch, NV5
Dexter Wilson, Wilson Engineering
Lori Anne Peoples, MetroTAC

1. Review and Approve MetroTAC Action Minutes for the Meeting of May 18, 2022

ACTION: Motion by Bob Kennedy seconded by Joe Bride the Minutes be approved. Motion carried unanimously.

2. Metro Commission/JPA Board Meeting Recap

MetroTAC Chair Gentry reported that at the July 7 meeting of the Metro JPA, Commissioner Heinze was elected Vice Chair and Karen Jassoy accepted an appointment to the Finance Committee. They heard all items forwarded from TAC and voted to transfer the legal services to Procopio effective July 15, 2022.

3. PRESENTATION: Strength-Based Billing Framework Update

Adam Jones provided a brief introduction to the item and stated that Stantec would be presenting on the strength-based billing framework. Ben Stewart of Stantec provided a brief verbal overview of his PowerPoint presentation included in the agenda package

4. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the FY 2019 Audit

Karyn Keze apologized that all of the supporting documents had not been sent together. The audit had just been completed the day the Metro TAC agenda was sent out and since most of the PAs were getting sizable refunds things were moved forward quickly to get the audit on the agenda. She noted FY 2019 was not a remarkable year as far as the audit perspective; the main thing was the 2019 lawsuit on the Pure Water Program that held up construction and pushed out the start dates of Phase 1 which was a primary reason for the refunds to the PAs.

Adam Jones of City of San Diego provided a brief overview of the refunds that would be forthcoming along with a staff report (attached as Exhibit A) to these minutes.

ACTION: Motion by Bob Kennedy, seconded by Hamed Hashemian to approve the FY 2019 Audit. Motion carried unanimously.

5. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of Contract with ADS Corp. for Wastewater Flow Monitoring Equipment, Software and Services

Huy Nguyen of City of San Diego provided a brief overview of his staff report and Power Point presentation.

Dexter Wilson suggested a clause be put in the 2nd ARA Document requiring a review of the ADS meters to make sure that new ones did not need to be added to replace house counts, etc. at least every 3 to 5 years or in conjunction with strength-based billing rate studies.

ACTION: Motion by Hamed Hashemian, seconded by Joe Bride to approve forwarding the contract to the JPA. Motion carried unanimously.

6. UPDATE: East County Advanced Water Purification Program

Chair Gentry stated that there was no presentation as Yazmin Was unable to make the meeting.

Hamed Hashemian stated that the East County AWP JPA had received \$2M from Assemblywoman Weber for her area.

7. UPDATE: Committee on Proposed Mutual Aid Agreement with Wastewater Agencies

Peejay Tubongbanua, San Diego County and Chair of the Committee Stated they were still working on developing the agreement and that he appreciated everyone's patience and requested anyone interested in joining the group to send him an email and he will include them in future discussions.

8. UPDATE: Industrial Wastewater Control Committee

MetroTAC Chair Gentry stated there had not been a meeting, so she did not have an update.

9. UPDATE: Metro Wastewater (Financial)

Adam Jones, City of San Diego stated that he had nothing else to report on.

10. UPDATE: Metro Wastewater (General)

Chair Gentry stated that Tom Rosales had to leave the meeting due to an emergency, so his report was postponed until the next meeting.

- a. Pt. Loma Treatment Plant Road**
- b. April 10, 2020, Spill Update**
- c. Capital Program Master Planning Process Overview and Status**

11. UPDATE: 3rd Quarterly Metro Capital Improvement Program and Funding Sources

Tung Phung, City of San Diego provided a brief overview of his Power Point presentation included in the agenda package.

12. UPDATE: Pure Water Program

Amy Dorman, City of San Diego was experiencing sound difficulties, so her report was continued to the next meeting.

a. Pure Water Construction Contracts Update

Dexter Wilson was able to provide some information regarding the projects noting that all had been awarded and that he has reviewed most and is still working on 2. Additionally, the awards are fairly close to the estimates with a few bid packages up and down but most of the increased costs will be born by the water side.

b. General Update

Tom Rosales, City of San Diego had left the meeting due to an emergency, so his report was continued to the next meeting.

13. UPDATE: Financial

Karyn Keze stated that the next audit would be FY2020 and it was moving along. She and Dexter will have a meeting with City of San Diego staff next week to go over the details of the Pure Water Construction Contracts Owner Controlled Insurance Program which started at the beginning of the first construction project and will continue to the end of construction at which point their will be a reconciliation by the auditors for the insurance companies that are providing the insurance package. This will be available to the PA auditor to review and provide input.

14. UPDATE: Residuals Agreements

Chair Gentry stated that the City of San Diego and the East County AWP JPA are renegotiating their five agreements. Metro staff has received copies of the several drafts and appreciated having the opportunity to review and comment on them.

15. UPDATE: Integrated Regional Water Management (IRWM) Regional Advisory Committee

MetroTAC Chair Gentry stated there had not been a meeting and would not be until August.

16. ACTION: New Member IRWM Regional Advisory Committee

Chair Gentry stated that she was currently the primary representative as well as the TAC Chair and Yazmin Arellano was the alternate representative as well as the TAC Vice Chair. Due to their workloads, they were looking for a new primary and alternate. If replacements are not found, we will lose our Metro voting options and a lot of money goes through this committee. She noted that the time commitment is minimal and is every other month for about 2 hours. She then requested nominations anyone interested could also contact her to discuss the position prior to recommended appointment.

Karyn Keze inquired as to whether a PA Consultant would be able to represent us. Chair Gentry will look into that and report back.

17. REPORT: MetroTAC Work Plan

Chair Gentry noted that the MetroTAC Work Plan was attached to the agenda, and no updates were made since the last meeting.

18. Review of Items to be Brought Forward to the Regular Metro Commission/Metro Wastewater JPA Meeting August 4, 2022

Chair Gentry noted that the following items would be moving forward to the Metro JPA:

Item 3: Presentation – Strength-Based Billing Framework Update

Item 4: Action – Approval of FY 2019 Audit

Item 5: Action – Award of Contract to ADS Corp. for Wastewater Flow Monitoring

Item 11: 3rd Quarterly Metro Capital Improvement Program and Funding Sources

19. Other Business of MetroTAC

Chair Gentry reminded the TAC members that as of July 15, 2022, Procopio will be our new General as well as Special Counsel. They had been performing as our Special Counsel working on the 2nd ARA and we will have our assigned Attorney Adriana Ochoa, come to our next meeting.

20. Adjournment to the Next Regular Meeting August 17, 2022

There being no further business the meeting was adjourned at 12:32 p.m.

Attachment 3

Proposed Change to Metro Wastewater JPA Agreement



Metro JPA Board Meeting

STAFF REPORT

TO: Metro Wastewater JPA Board Members

DATE: Thursday, September 15, 2022

FROM: Adriana Ochoa, General Counsel

AGENDA ITEM NO. 3: Consideration and Possible Action to Approve an Amendment to Section 3.05 of the Metro Joint Powers Agreement to Eliminate Legal Advisor Conflict Language and Forward to Participating Agency Boards for Approval

BACKGROUND

Section 3.05 of Metro Wastewater JPA's ("Metro") Joint Powers Agreement requires its legal counsel to also be legal counsel to one of the Participating Agencies:

"3.05 Legal Advisor. The Board shall have the power to appoint the legal advisor of the JPA who shall perform such duties as may be prescribed by the Board. Such legal advisor shall be legal counsel to one of the Participating Agencies."

The Joint Powers Agreement has been amended three times since its adoption for various purposes; for the most part, these amendments have added Participating Agencies to Metro. However, Section 3.05 has not been amended since the Joint Powers Agreement was originally approved in October of 2000. Recent discussions among the Metro Board at public meetings indicate that there is a desire to amend Section 3.05 to remove the requirement that Metro's legal advisor also be legal counsel to one of the Participating Agencies. The current language is not required by law and arguably invites prospective conflicts of interest for Metro's legal advisor.

Each Participating Agency's respective governing board must approve any proposed amendment or revision to the Metro Joint Powers Agreement in order for it to be effective; a proposed amendment is not effective until and unless all Participating Agency's governing boards approve it. Therefore, we recommend the Metro Wastewater JPA approve and forward to their respective Participating Agencies for approval a Fourth Amendment to the Joint Powers Agreement which simply removes the second sentence from Section 3.05:

"3.05 Legal Advisor. The Board shall have the power to appoint the legal advisor of the JPA who shall perform such duties as may be prescribed by the Board. ~~Such legal advisor shall be legal counsel to one of the Participating Agencies.~~"

The Fourth Amendment to the Joint Powers Agreement in its proposed final draft is attached to this staff report for review.

RECOMMENDED ACTION

Legal counsel respectfully recommends the Metro Board of Directors approve the proposed Fourth Amendment to the Joint Powers Agreement and authorize the Board Secretary to forward the proposed Fourth Amendment to each Participating Agency for their approval.

**FOURTH AMENDMENT TO JOINT EXERCISE OF POWERS AGREEMENT
FOR THE METRO WASTEWATER JOINT POWERS AUTHORITY
TO AMEND SECTION 3.05 OF THE JOINT POWERS AGREEMENT**

This Fourth Amendment to the Joint Exercise of Powers Agreement for the Metro Wastewater Joint Powers Authority is made effective as of [REDACTED], 2022, in the County of San Diego, State of California by each of the participating agencies of the Metro Wastewater JPA, a Joint Powers Agency (“JPA”) existing and organized pursuant to the provisions of Government Code section 6500 et seq.

RECITALS

WHEREAS, on October 25, 2000, the City of Coronado, a municipal corporation; the City of Del Mar, a municipal corporation; the City of El Cajon, a municipal corporation; the City of Imperial Beach, a municipal corporation; the City of La Mesa, a municipal corporation; the Lemon Grove Sanitation District, a political subdivision of the State of California, the City of Poway, a municipal corporation; Padre Dam Municipal Water District, a political subdivision of the State of California; and the County of San Diego (on behalf of: the Winter Gardens Sewer Maintenance District, a maintenance district established pursuant to California Streets & Hwys. Code section 5820 et seq.; the Lakeside/Alpine Sanitation District, a political subdivision of the State of California; and the Spring Valley Sanitation District, a political subdivision of the State of California) (the “Participating Agencies”) entered into a Joint Exercise of Powers Agreement (“Agreement”), creating the JPA for the purpose of taking responsibility, actions, and decisions pertaining to the Regional Waste Water Disposal Agreement; and

WHEREAS, on February 12, 2003, the Otay Water District was added as a Participating Agency of the JPA; and

WHEREAS, on June 4, 2003, the City of National City was added as a Participating Agency of the JPA; and

WHEREAS, on October 17, 2007, the City of Chula Vista was added as a Participating Agency of the JPA; and

WHEREAS, Article VIII, Section 8.05 of the Agreement allows for amendments of the Agreement; and

WHEREAS, Section 3.05 states that the legal advisor to the JPA shall also be legal counsel to one of the Participating Agencies; and

WHEREAS, the JPA wishes to amend Section 3.05 of the Agreement to remove the requirement that the legal advisory to the JPA also be legal counsel to one of the Participating Agencies;

AGREEMENT

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

A. Pursuant to Article VIII, Section 8.05 of the Agreement, each of the Participating Agencies hereby amend the Joint Exercise of Powers Agreement for the Metro Wastewater JPA, as follows:

1. Article III, Section 3.05 is hereby revised in its entirety to read as follows:

The Board shall have the power to appoint the legal advisor of the JPA who shall perform such duties as may be prescribed by the Board.

C. All other terms and conditions of the Joint Exercise of Powers Agreement for the Metro Wastewater JPA shall remain in full force and effect and shall be binding upon each of the Participating Agencies.

IN WITNESS WHEREOF, the parties have executed this Fourth Amendment as of the date first written above.

1. CITY OF CORONADO

ATTEST

By: _____

2. CITY OF DEL MAR

ATTEST

By: _____

3. CITY OF EL CAJON

ATTEST

By: _____

4. CITY OF IMPERIAL BEACH

ATTEST

By: _____

5. CITY OF LA MESA

ATTEST

By: _____

6. LEMON GROVE SANITATION
DISTRICT

ATTEST

By: _____

7. CITY OF POWAY

ATTEST

By: _____

8. PADRE DAM MUNICIPAL WATER
DISTRICT

ATTEST

By: _____

9. COUNTY OF SAN DIEGO on behalf of
WINTER GARDENS SEWER
MAINTENANCE DISTRICT, LAKESIDE
SANITATION DISTRICT, ALPINE
SANITATION DISTRICT, AND SPRING
VALLEY SANITATION DISTRICT

ATTEST

By: _____

10. OTAY WATER DISTRICT

ATTEST

By: _____

11. NATIONAL CITY

ATTEST

By: _____

12. CHULA VISTA

ATTEST

By: _____

Attachment 4

Metro Wastewater JPA FY2022 Year-End Financial Statements



Metro Wastewater Joint Powers Authority
Treasurer's Report
Year ended June 30, 2022

Metro Wastewater JPA

Treasurer's Report

Year ended June 30, 2022

Beginning Cash Balance at July 1, 2021	\$ 567,325
Operating Results	
Membership Dues & Interest Income	229,913
Expenses	<u>(489,888)</u>
Change in Net Position	(259,975)
Net change in Receivables & Payables	<u>(9,937)</u>
Cash used in Operations	(269,912)
Ending Cash Balance at June 30, 2022	\$ 297,413

Metro Wastewater JPA
Statement of Net Position

As of July 1, 2021 and June 30, 2022

Unaudited

	<u>July 1, 2021</u>	<u>June 30, 2022</u>	<u>\$ Change</u>
<u>ASSETS</u>			
Checking/Savings	\$ 567,325	\$ 297,413	\$ (269,912)
Accounts Receivable	7,696	11,412	3,717
Total Assets	<u>\$ 575,021</u>	<u>\$ 308,825</u>	<u>\$ (266,196)</u>
<u>LIABILITIES</u>			
Accounts Payable	\$ 8,264	\$ 2,044	\$ (6,220)
Unearned Membership Billings	-	-	-
Total Liabilities	\$ 8,264	\$ 2,044	\$ (6,220)
<u>NET POSITION</u>			
Net Position at Beginning of Period	\$ 261,960	\$ 566,757	\$ 304,796
Change in Net Position	304,796	(259,975)	(564,771)
Net Position at End of Period	\$ 566,757	\$ 306,782	\$ (259,975)
<u>TOTAL LIABILITIES & NET POSITION</u>	<u>\$ 575,021</u>	<u>\$ 308,826</u>	<u>\$ (266,195)</u>
		FY23 Budget	Cash on Hand
<i>Net Position at 06/30/22</i>		\$ 306,782	\$ 308,826
<i>FY '23 Required Reserve (4 months of Op Exp)</i>		<u>209,485</u>	<u>209,485</u>
<i>Over (under) required reserve</i>		\$ 97,297	\$ 99,341

Metro Wastewater JPA
Statement of Operations
Budget vs. Actual

Year ended June 30, 2022
Unaudited

	<u>Actual</u>	<u>Budget</u>	<u>Over (Under) Budget</u>
Income			
Membership Dues	\$ 220,545	\$ 220,545	\$ -
City of San Diego	\$ 9,368		
Interest Income	-	150	(150)
Total Income	<u>\$ 229,913</u>	<u>\$ 220,695</u>	<u>\$ (150)</u>
Expense			
Administrative Assistant-LP	\$ 17,655	\$ 8,940	\$ 8,715
Bank Charges	-	200	(200)
Contingency	-	-	-
Dues & Subscriptions	-	600	(600)
Financial Services			
Audit Fees	5,300	12,000	(6,700)
Financial - The Keze Group	92,432	92,450	(18)
Treasurer - Padre Dam/El Cajon	8,193	31,500	(23,307)
JPA/TAC meeting expenses	-	5,000	(5,000)
Per Diem - Board	22,650	18,000	4,650
Professional Services			
Engineering - Dexter Wilson	141,700	141,700	-
Engineering - NV5	17,725	30,000	(12,275)
Legal - Procopio	125,281	65,000	60,281
Legal - BB&K	37,704	60,000	(22,296)
Paul Redvers Brown, Inc.	13,906	24,900	(10,994)
Strategic Planning	-	-	-
Other	4,457	2,150	2,307
Website Architecture Update	-	10,500	(10,500)
Website Maintenance & Hosting	2,885	2,900	(15)
Total Expense	<u>\$ 489,888</u>	<u>\$ 505,840</u>	<u>\$ (15,952)</u>
Net Income (Loss)	<u><u>\$ (259,975)</u></u>	<u><u>\$ (285,145)</u></u>	<u><u>\$ 25,170</u></u>

Metro Wastewater JPA
Statement of Cash Flows

Year ended June 30, 2022
Unaudited

OPERATING ACTIVITIES

Change in Net Position	\$ (259,975)
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**Adjustments to Reconcile Change in Net
Position to Net Cash Provided by Operations:**

Accounts Receivable	(3,717)
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Accounts Payable	(6,220)
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Deferred Revenue	-
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As of June 30, 2022	(269,912)
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Net cash increase (decrease) for period	567,325
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Cash at end of period	<u><u>\$ 297,413</u></u>
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Attachment 5

Amendment to FY2023 Metro Wastewater JPA Budget Billings

METRO WASTEWATER JPA
PROPOSED BUDGET - FY '23 Adjusted For Year-End Actuals

	FY '22 FORECAST 3/22						FY'22 ACTUALYEAR-END				FY '23		
	Actual Through 2/28/22	Estimate remaining Months	Forecast Through 6/30/22	Approved Annual Budget	Forecast Over /(Under) Budget		Amended Budget	Forecast Over /(Under) Budget			Proposed Annual Budget	Difference from FY '22 Forecast	Difference from FY '22 Budget
					\$	%		Actual	\$	%			
Income													
Membership Dues	\$ 225,553	\$ (5,008)	\$ 220,545	\$ 220,545	\$ -	0%	\$ 220,545	\$ 220,545	\$ -	0%	\$ 398,082	\$ 177,537	\$ 177,537
Use of Reserves*		150,472	174,173	\$ 245,295	(71,122)	-29%	\$ 285,145	259,975	\$ (25,170)	-9%	186,163	11,990	(59,132)
City of San Diego			13,293	-	13,293	17%	-	9,368	\$ 9,368		44,210	30,917	44,210
Interest Income	-	-	-	150	(150)	0%	150	-	\$ (150)		-	-	(150)
Total Income	\$ 225,553	\$ 145,464	\$ 408,011	\$ 465,990	\$ (57,979)	-12%	\$ 505,840	\$ 489,888	\$ (15,952)	-3%	\$ 628,455	\$ 220,444	\$ 162,465
Expense													
Administrative Assistant-LP	\$ 5,335 ⁽¹⁾	\$ 5,000	\$ 10,335	\$ 8,940	\$ 1,395	16%	\$ 8,940	\$ 17,655	\$ 8,715	97%	\$ 37,100	\$ 26,765	\$ 28,160
Bank Charges	-	-	-	200	(200)		200	-	\$ (200)		200	200	-
Contingency	-	-	-	-	-		-	-	\$ -		-	-	-
Dues & Subscriptions	-	-	-	600	(600)		600	-	\$ (600)		-	-	(600)
Financial Services													
Audit Fees	5,300 ⁽¹⁾	-	5,300	12,000	(6,700)	-56%	12,000	5,300	\$ (6,700)	-56%	12,000	6,700	-
Financial Consulting Support (Auditor)								-	\$ -		2,500	2,500	2,500
Financial - The Keze Group**	52,440 ⁽³⁾	40,010	92,450	\$77,600	14,850	19%	\$92,450	92,432	\$ (18)	0%	100,000	7,550	22,400
Treasurer - Padre Dam/El Cajon	5,528 ⁽³⁾	5,000	10,528	31,500	(20,972)	-67%	31,500	8,193	\$ (23,307)	-74%	30,000	19,472	(1,500)
JPA/TAC meeting expenses	-	-	-	5,000	(5,000)		5,000	-	\$ (5,000)		5,000	5,000	-
Miscellaneous (Other)	-	-	-	250	(250)		2,150	4,457	\$ 2,307	107%	250	250	-
Per Diem - Board	11,850 ⁽³⁾	5,550	17,400	18,000	(600)	-3%	18,000	22,650	\$ 4,650	26%	18,000	600	-
Printing, Postage, Supplies	295	150	445	500	(55)	-11%			\$ -		860	415	360
Professional Services									\$ -				
Engineering - Dexter Wilson***	90,645 ⁽³⁾	51,055	141,700	116,700	25,000	21%	141,700	141,700	\$ -	0%	141,700	-	25,000
Engineering - NV5	7,950 ⁽²⁾	9,975	17,925	30,000	(12,075)	-40%	30,000	17,725	\$ (12,275)	-41%	30,000	12,075	-
Legal - Procopio	49,680 ⁽³⁾	11,000	60,680	65,000	(4,320)	-7%	65,000	125,281	\$ 60,281	93%	150,000	89,320	85,000
Legal - BB&K	20,887 ⁽³⁾	6,962	27,849	60,000	(32,151)	-54%	60,000	37,704	\$ (22,296)	-37%	60,000	32,151	-
Paul Redvers Brown	8,990 ⁽²⁾	10,000	18,990	24,900	(5,910)	-24%	24,900	13,906	\$ (10,994)	-44%	24,900	5,910	-
Telephone, Internet, Software	762 ⁽¹⁾	762	1,524	1,400	124	9%		-	\$ -		2,140	616	740
Website Architecture Update	-	-	-	10,500	(10,500)		10,500	-	\$ (10,500)		10,500	10,500	-
Website Maintenance & Hosting	2,885	-	2,885	2,900	(15)	-1%	2,900	2,885	\$ (15)	-1%	3,305	420	405
Total Expense	\$ 262,547	\$ 145,464	\$ 408,011	\$ 465,990	\$ (57,979)	-12%	\$ 505,840	\$ 489,888	\$ (15,952)	-3%	\$ 628,455	\$ 220,444	\$ 162,465
Net Income (Loss)	\$ (36,994)	\$ (0)	\$ (0)	\$ -	\$ (0)	0%	\$ -	\$ -	\$ -		\$ -	\$ 0	\$ -

* Use of Reserves adjusted to cover Change Orders

**Includes approved change order of: \$14,850

***Includes approved change order of: \$25,000

(1) Invoices received through 12/31/21

(2) Invoices received through 1/31/22

(3) Invoices received through 2/28/22

FY '23 PROJECTED RESERVE REQUIREMENT	
Projected Fund Balance at 6/30/22	\$ 380,911
Projected Net Income FY '22	-
Projected Fund Balance at 6/30/22	\$ 380,911
4 Months Operating Expenses FY '23	(194,748)
Amount over Required Reserve	\$ 186,163

FY '23 AMENDED RESERVE REQUIREMENT	
Actual Fund Balance at 6/30/22	\$ 308,825
Projected Net Income FY '22	(0)
Actual Fund Balance at 6/30/22	\$ 308,825
4 Months Operating Expenses FY '23	(209,485)
Amount over Required Reserve	\$ 99,340

METRO WASTEWATER JPA

ALTERNATIVE AGENCY FY'23 BILLINGS WITHOUT FY2020 TRUE-UP

Agency	FY'22				FY'23 Projected				
	Estimated Flow/Strength Distribution	Total Agency Billings @ 50% of Budget	FY'19 Audit True-up	Revised Agency Billings Per Audit	Estimated Flow/Strength/ Exhibit G Distribution	Total Agency Billing Without Reserves	Difference From Prior Year	Total Agency Billing With Reserves	Difference From Prior Year
<i>Chula Vista</i>	31.26%	\$ 68,932	\$ 9,745	\$ 78,677	31.72%	\$ 185,323	\$ 106,646	\$ 126,272	\$ 47,595
<i>Coronado</i>	2.84%	6,256	\$ (8,081)	\$ (1,826)	2.58%	\$ 15,074	\$ 16,899	\$ 10,271	\$ 12,096
<i>County of SD*</i>	16.20%	35,726	\$ (1,864)	\$ 33,862	16.46%	\$ 96,167	\$ 62,305	\$ 65,524	\$ 31,663
<i>Del Mar</i>	0.05%	121	\$ 99	\$ 220	0.05%	\$ 292	\$ 73	\$ 199	\$ (20)
<i>El Cajon</i>	15.07%	33,228	\$ 1,952	\$ 35,180	14.56%	\$ 85,066	\$ 49,887	\$ 57,961	\$ 22,781
<i>Imperial Beach</i>	3.66%	8,072	\$ 262	\$ 8,334	3.71%	\$ 21,675	\$ 13,341	\$ 14,769	\$ 6,435
<i>La Mesa</i>	8.37%	18,463	\$ 2,173	\$ 20,636	8.18%	\$ 47,791	\$ 27,156	\$ 32,563	\$ 11,928
<i>Lemon Grove</i>	3.38%	7,452	\$ (3,298)	\$ 4,154	3.36%	\$ 19,631	\$ 15,477	\$ 13,376	\$ 9,222
<i>National City</i>	7.57%	16,694	\$ 122	\$ 16,816	8.45%	\$ 49,369	\$ 32,553	\$ 33,638	\$ 16,822
<i>Otay Water District</i>	0.88%	1,935	\$ 951	\$ 2,886	0.60%	\$ 3,505	\$ 619	\$ 2,388	\$ (498)
<i>Padre Dam MWD</i>	5.76%	12,694	\$ (117)	\$ 12,577	5.67%	\$ 33,127	\$ 20,550	\$ 22,571	\$ 9,995
<i>Poway</i>	4.98%	10,975	\$ (1,944)	\$ 9,031	4.66%	\$ 27,226	\$ 18,195	\$ 18,551	\$ 9,520
Total Flow & Strength	100.00%	\$ 220,545	\$ -	\$ 220,545	100.00%	\$ 584,245	\$ 363,700	\$ 398,082	\$ 177,537
						\$ -	Planned Use of Reserves:		
							\$	\$ 186,163	

* County of SD includes East Otay Mesa, Lakeside/Alpine, Spring Valley and Wintergardens

Attachment 6

Review of Current PA Metro Billing Formulas

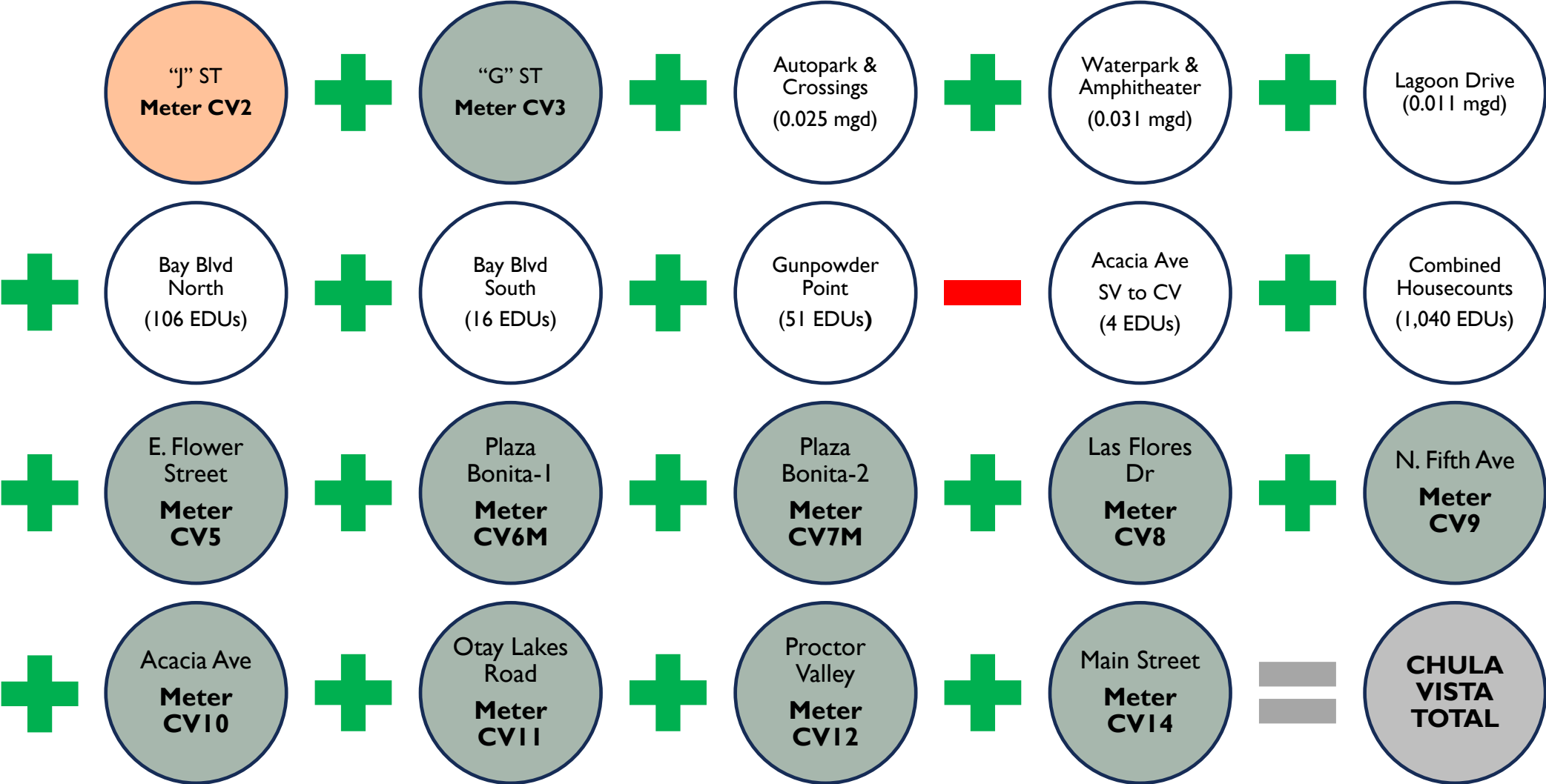
SEPTEMBER 2022

EXISTING METRO BILLING FORMULAS

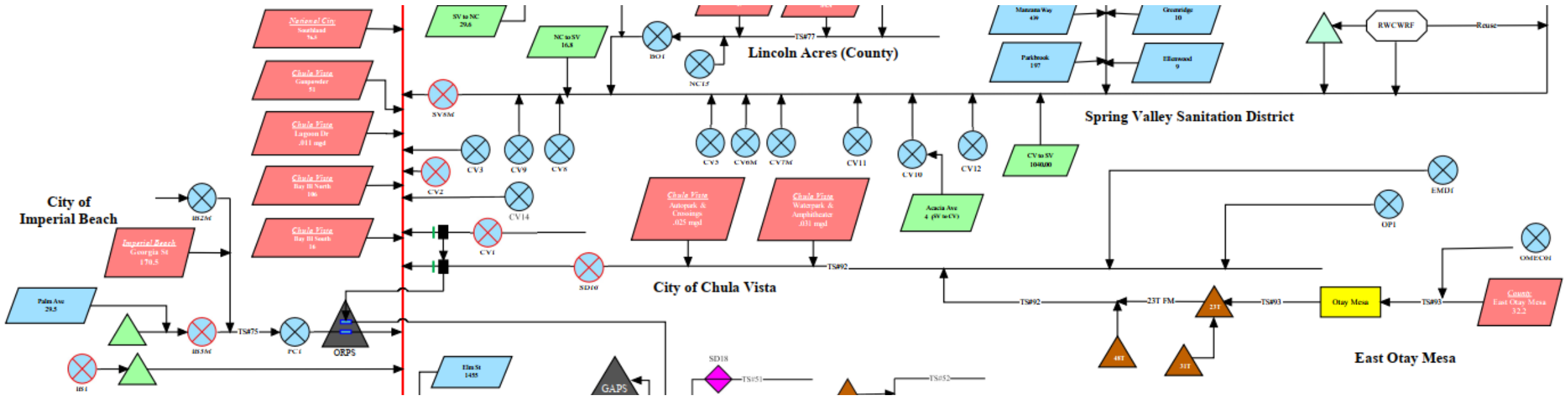
1. Billing and Sampling Meters
2. Billing Meters
3. City of San Diego Meters



CHULA VISTA



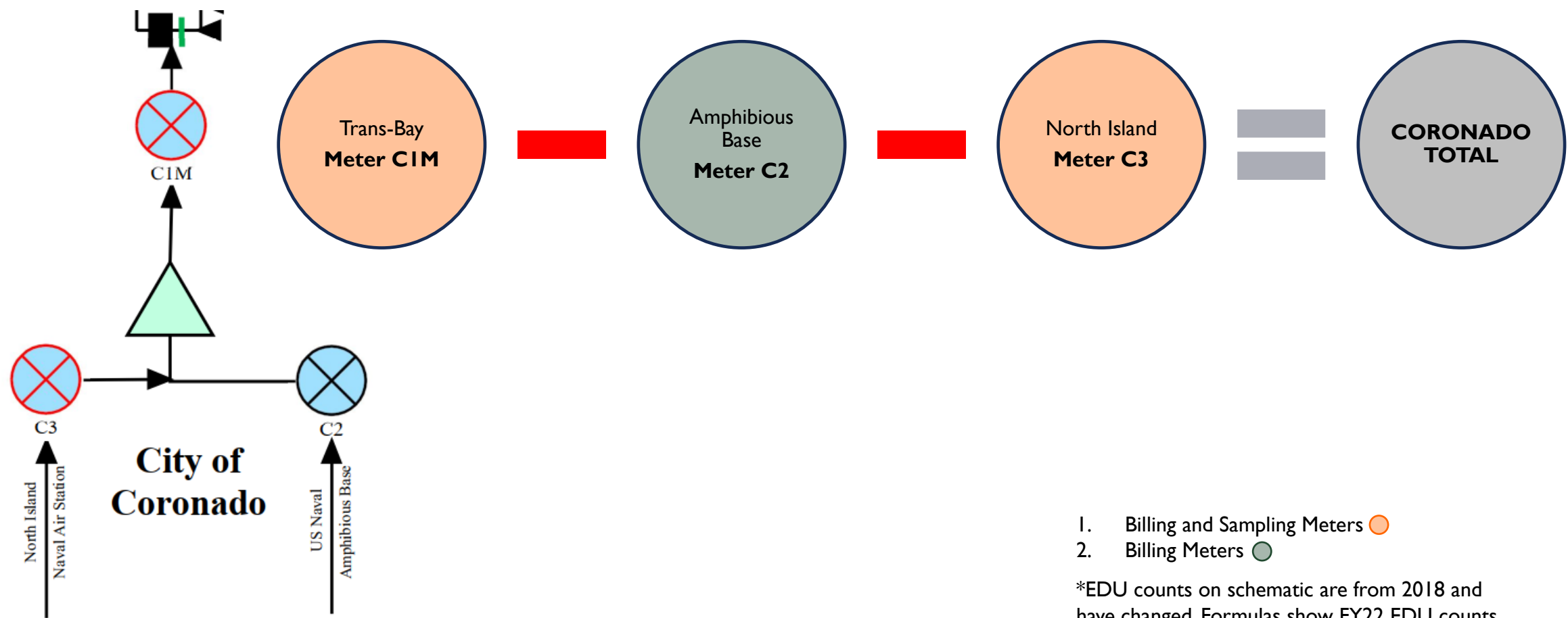
CHULA VISTA



1. Billing and Sampling Meters 
2. Billing Meters 

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

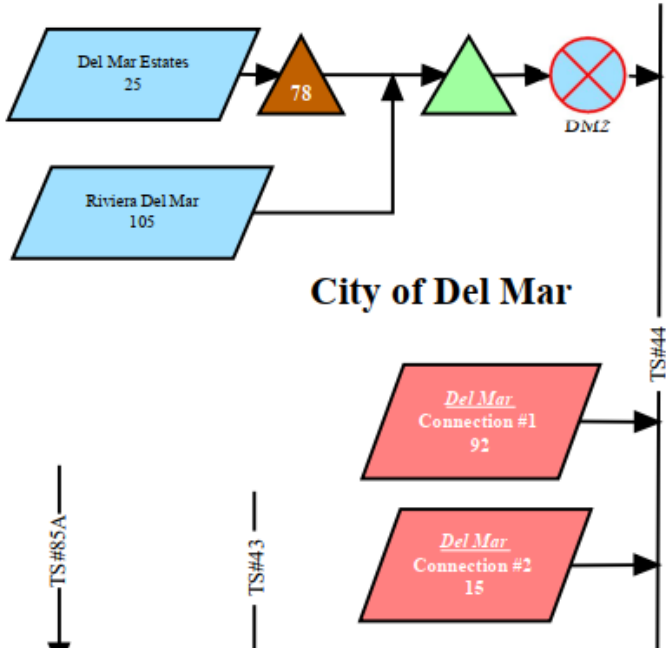
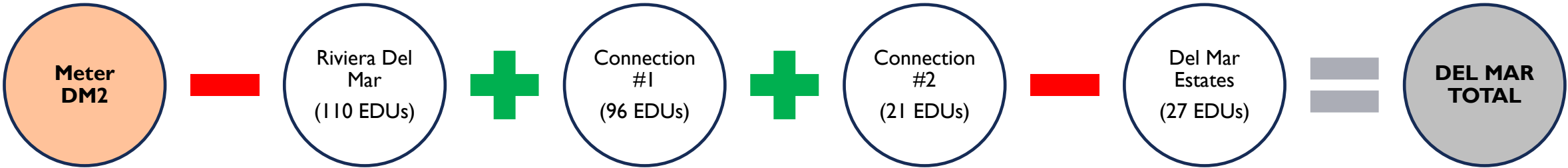
CORONADO



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

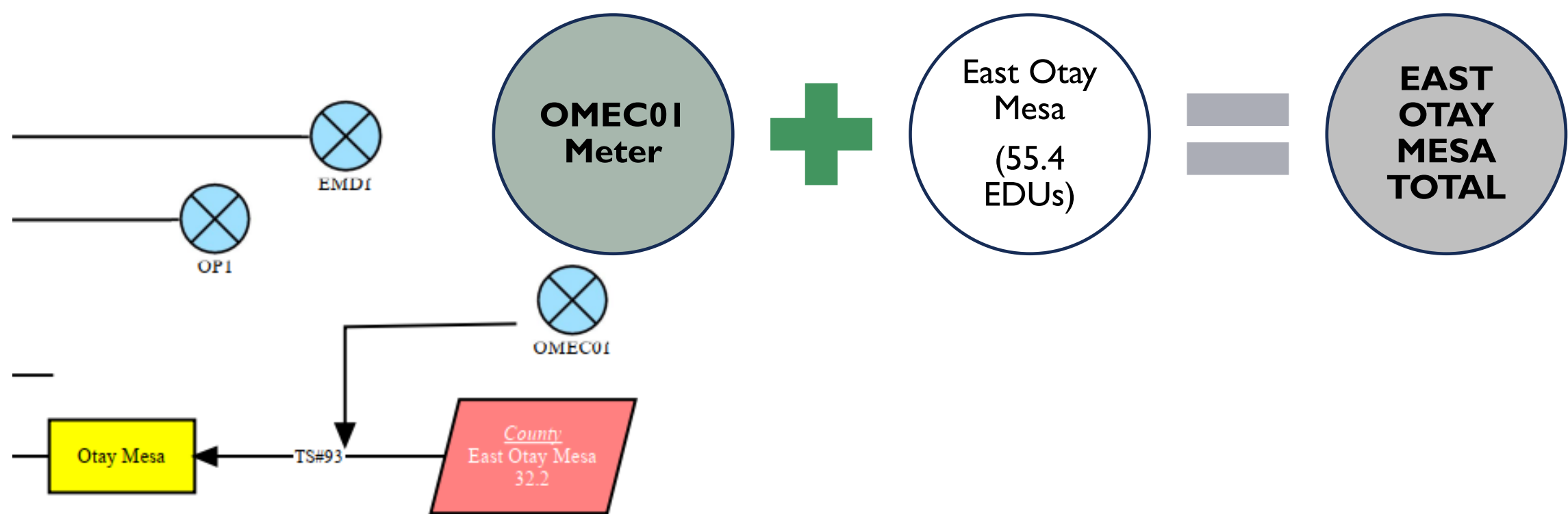
*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

DEL MAR



- 1. Billing and Sampling Meters 
 - 2. Billing Meters 
- *EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

EAST OTAY MESA

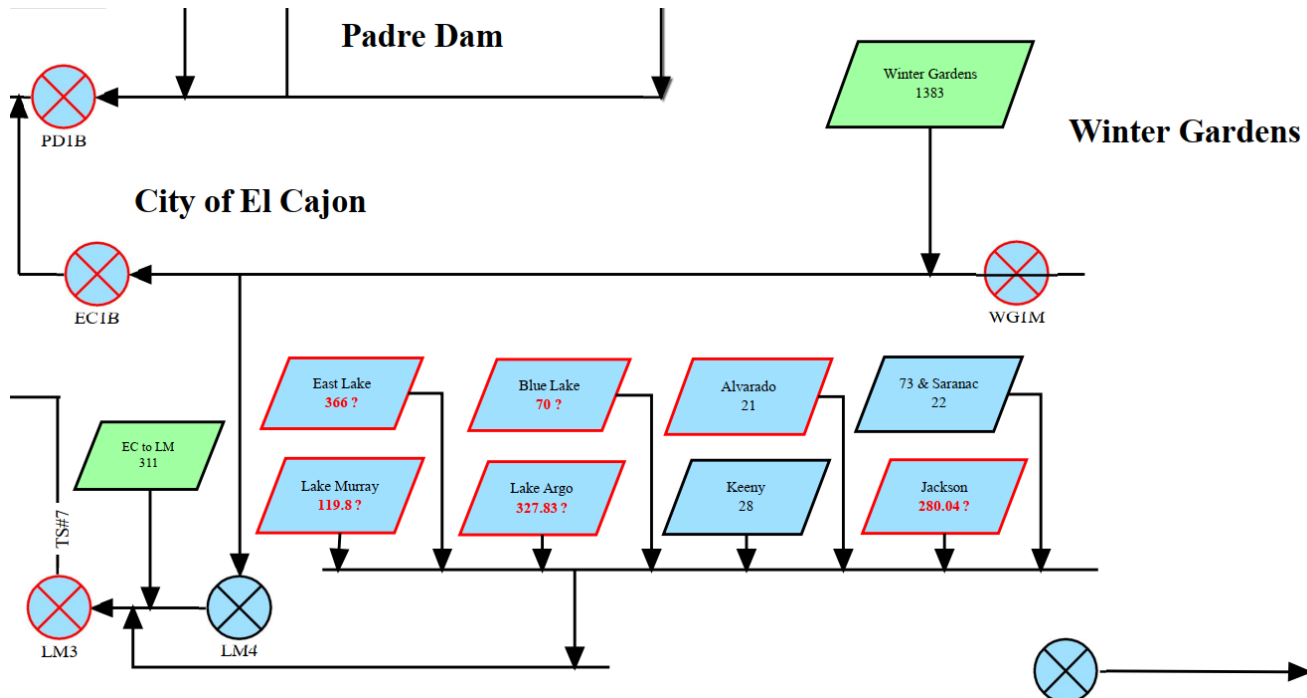
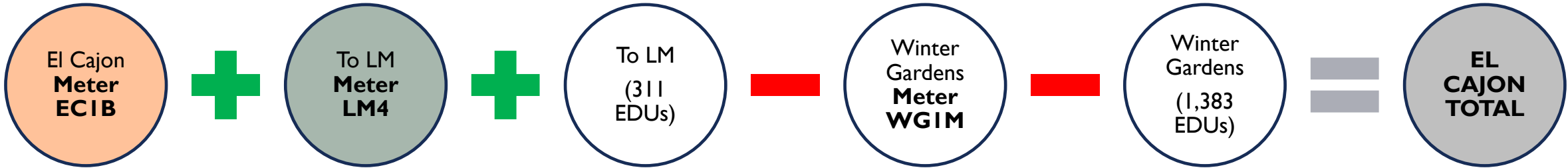


East Otay Mesa

- 1. Billing and Sampling Meters ●
- 2. Billing Meters ●

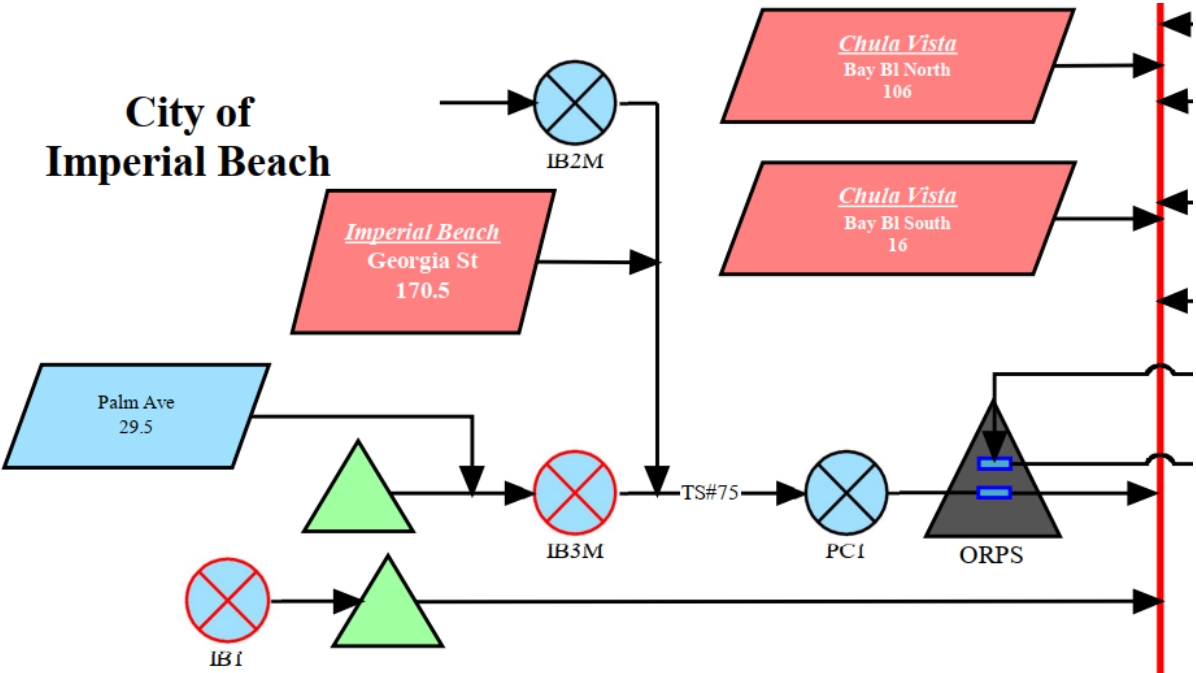
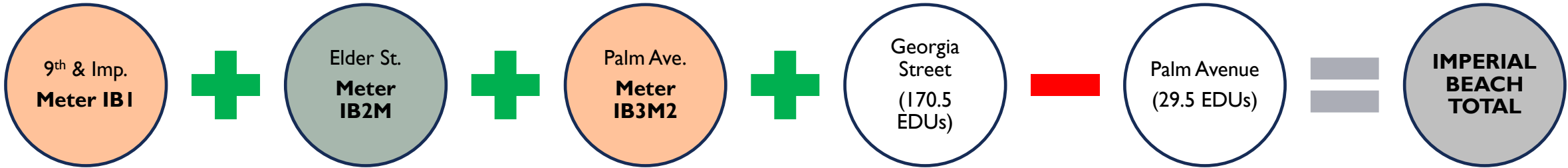
*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

EL CAJON



- 1. Billing and Sampling Meters ●
 - 2. Billing Meters ●
- *EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

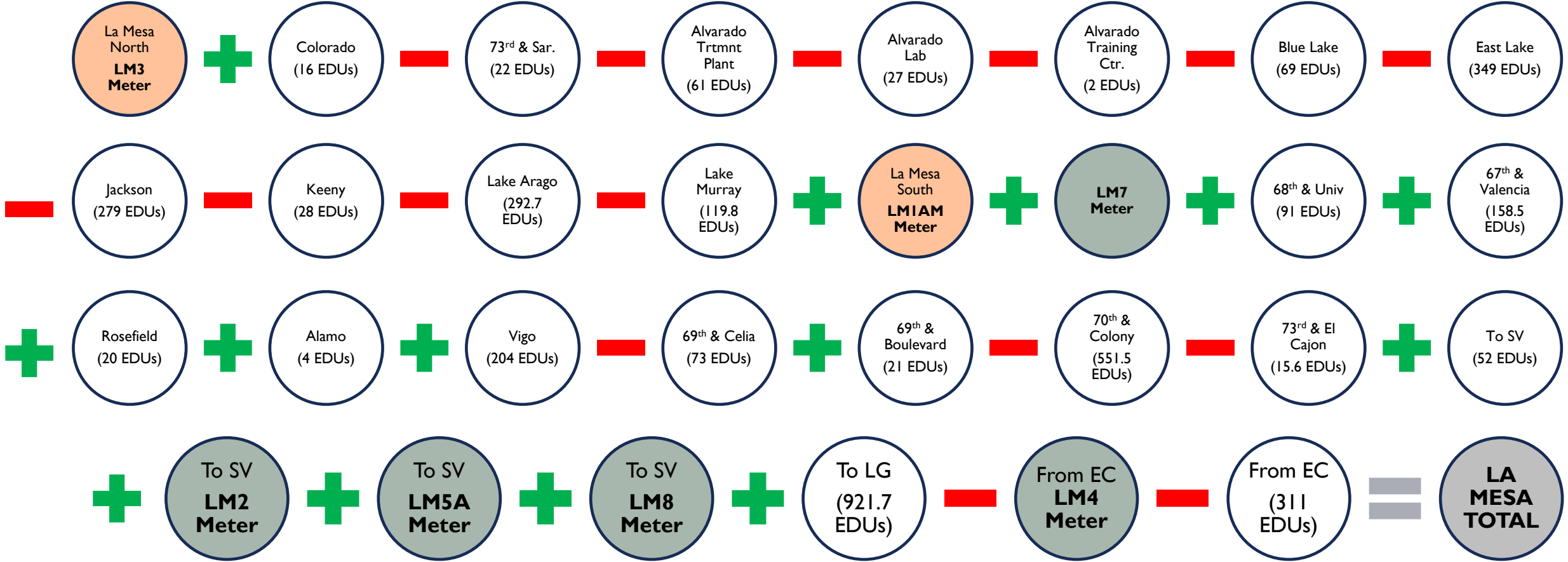
IMPERIAL BEACH



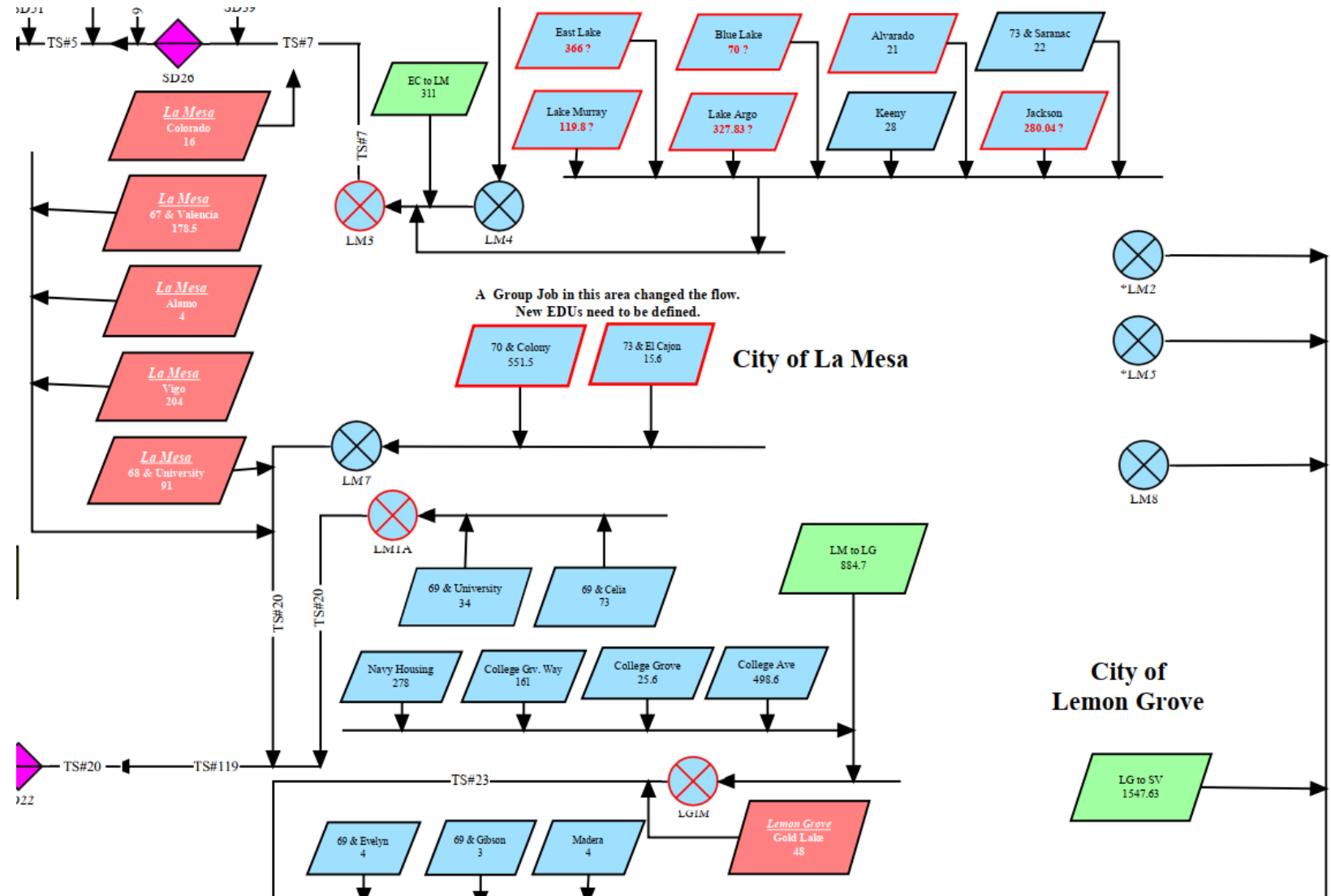
- 1. Billing and Sampling Meters 
- 2. Billing Meters 

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

LA MESA



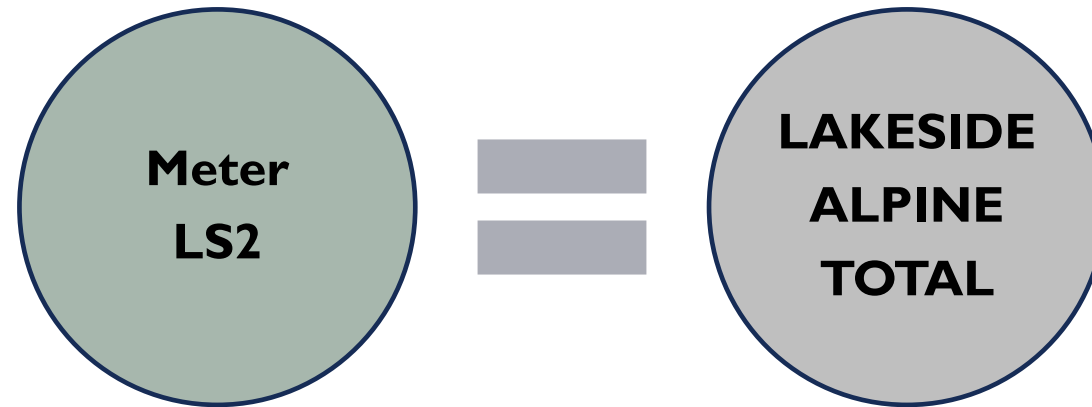
LA MESA



1. Billing and Sampling Meters ●
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

LAKE SIDE/ALPINE



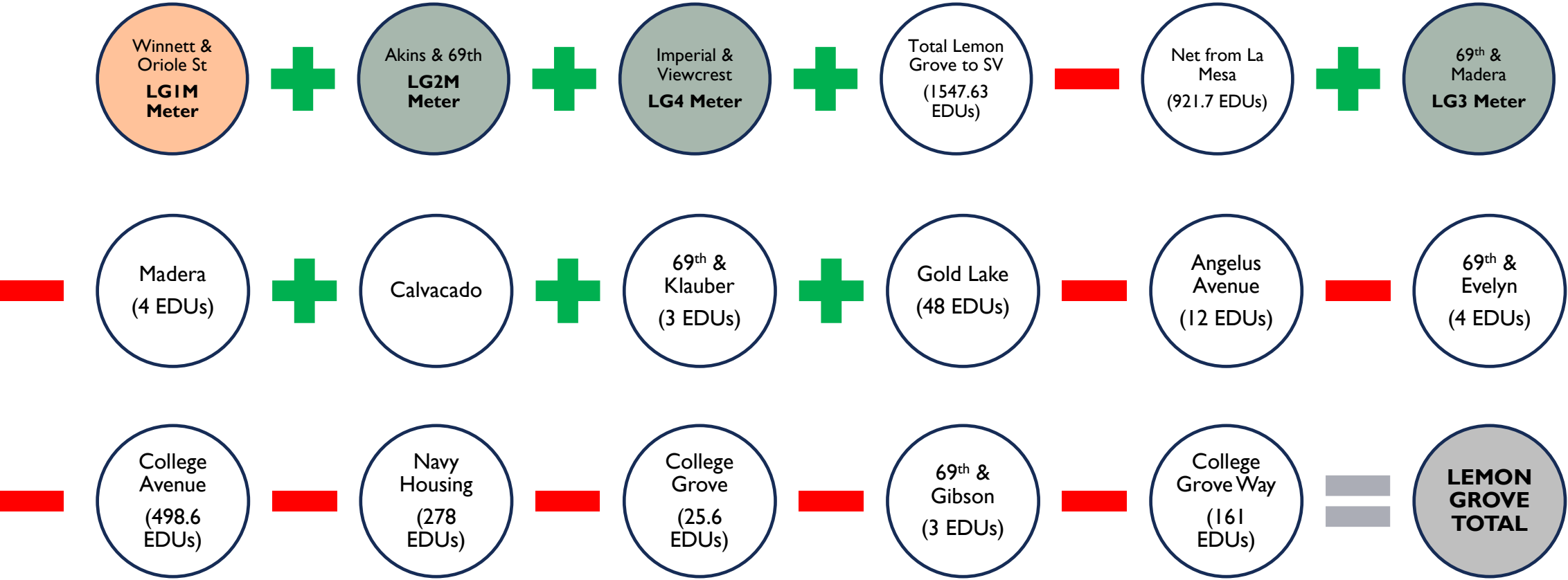
Lakeside/Alpine



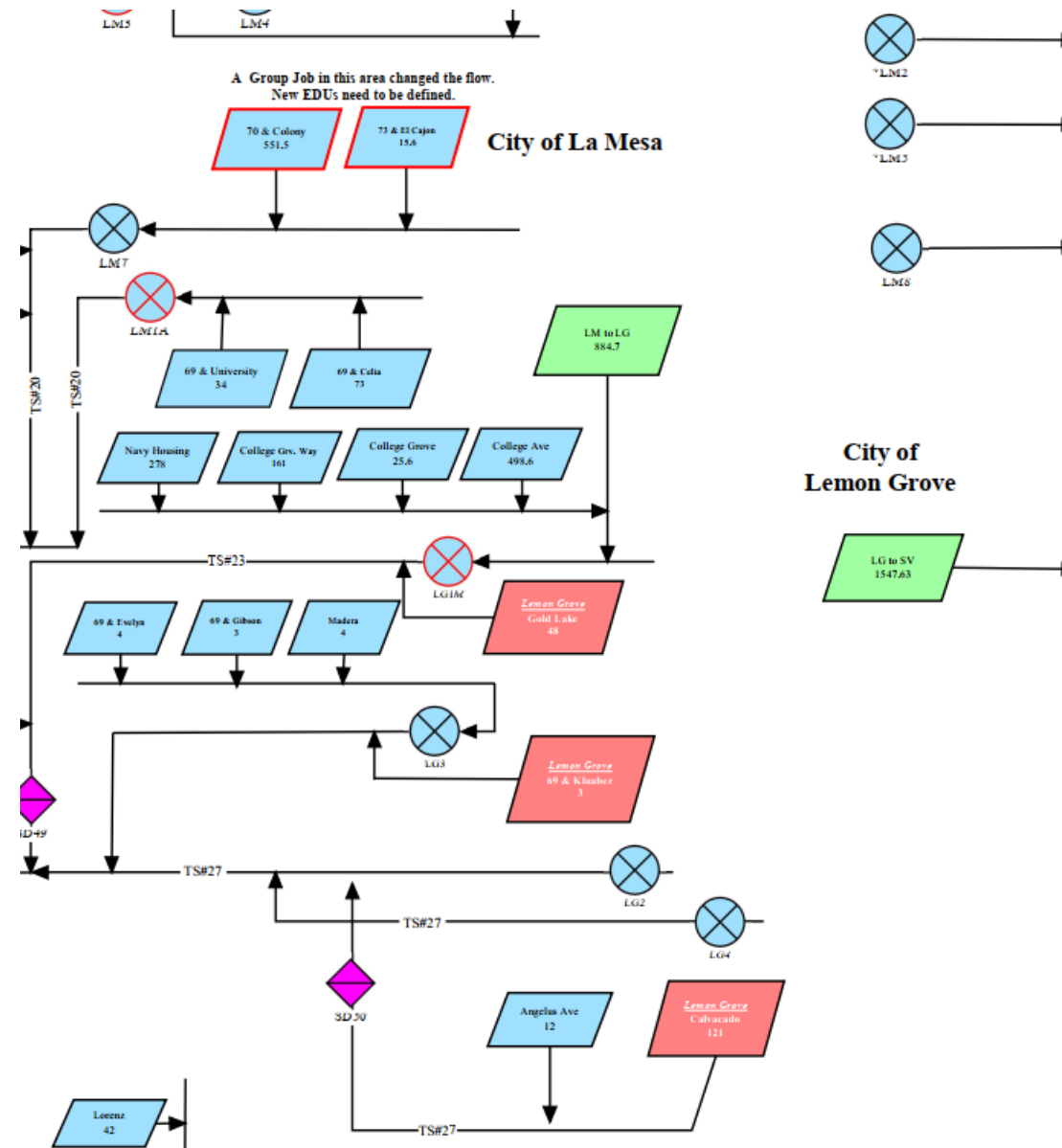
1. Billing and Sampling Meters ●
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

LEMON GROVE



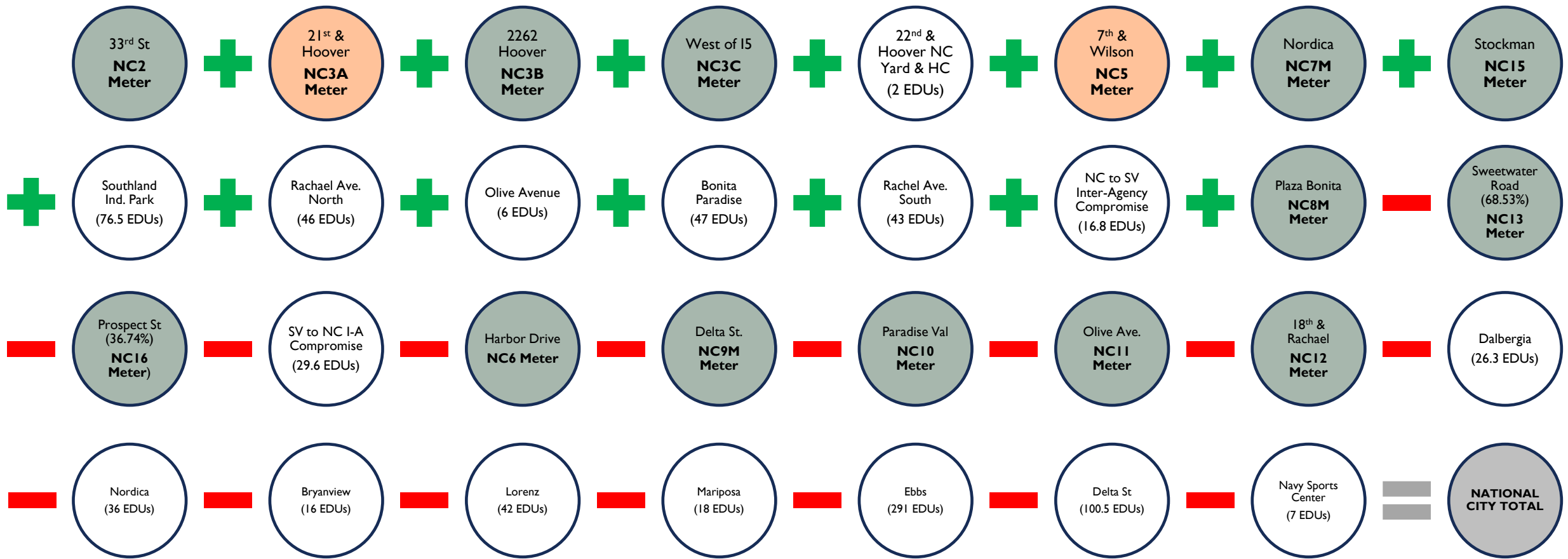
LEMON GROVE



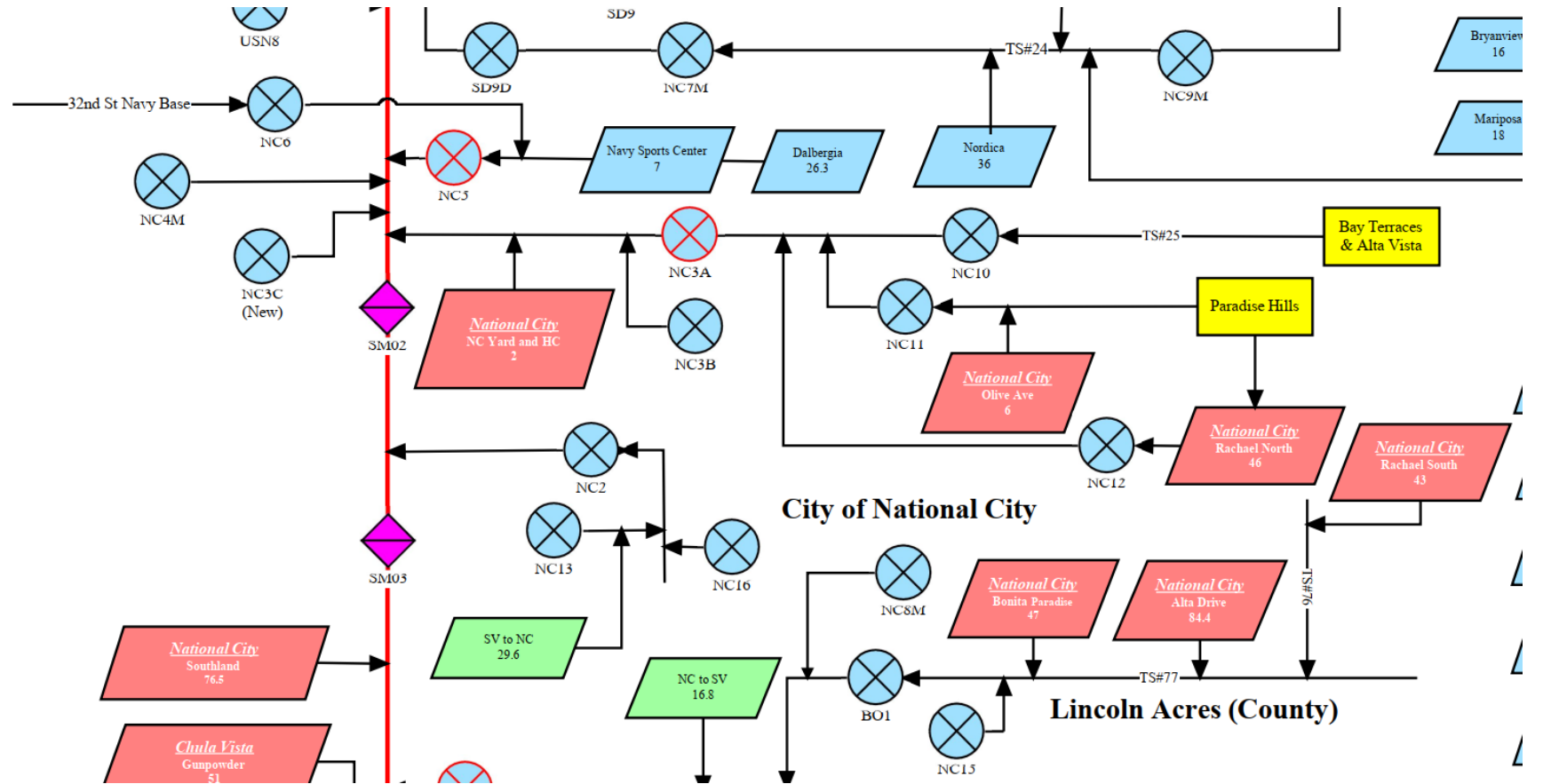
1. Billing and Sampling Meters ●
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

NATIONAL CITY

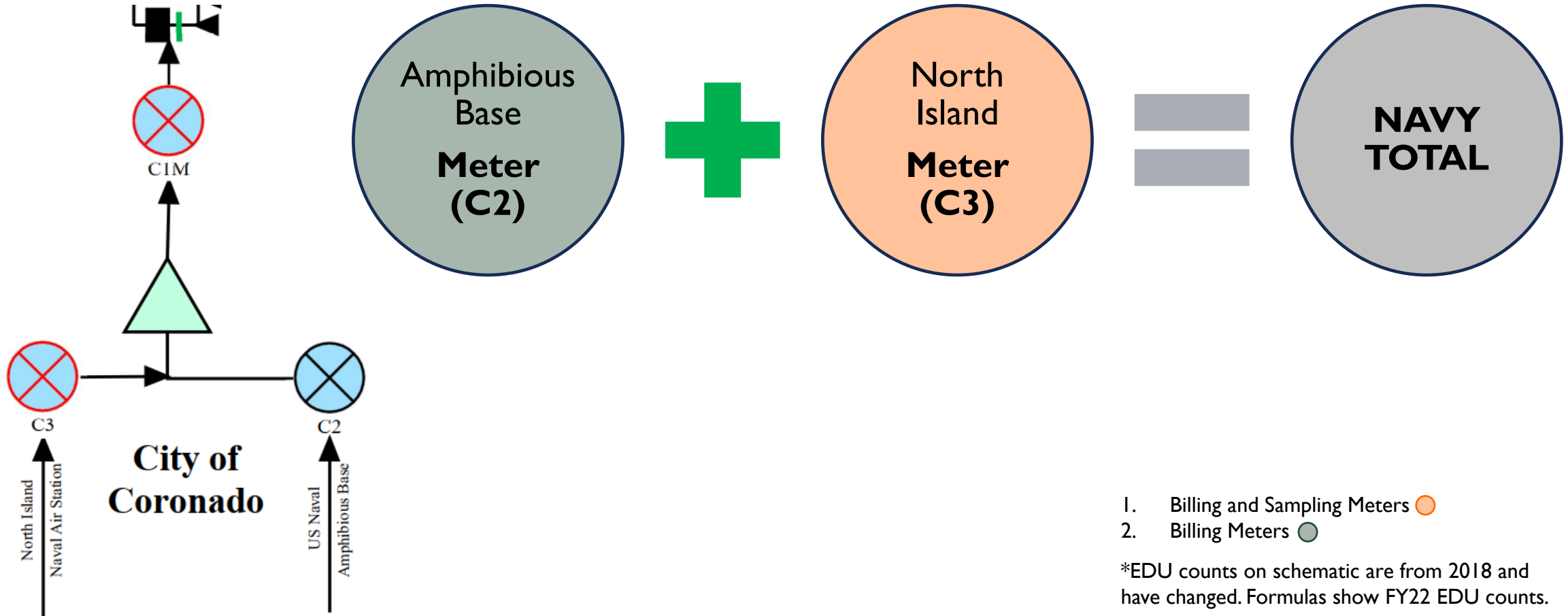


NATIONAL CITY

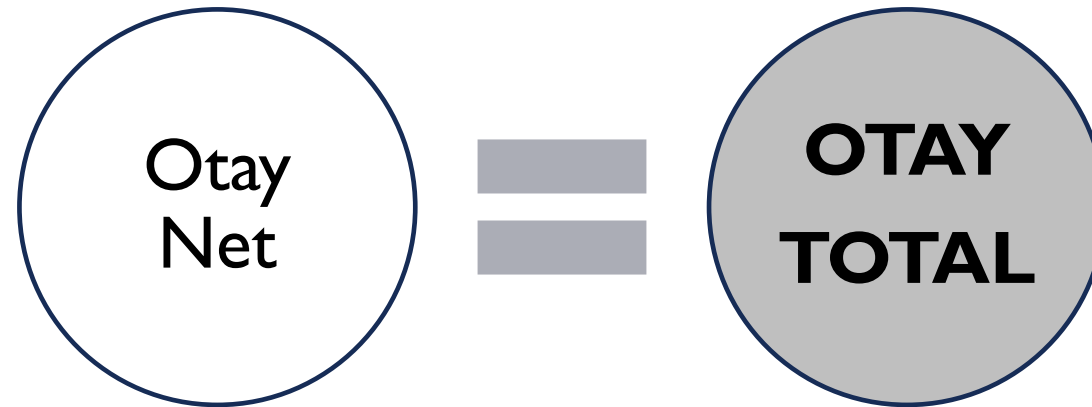


*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

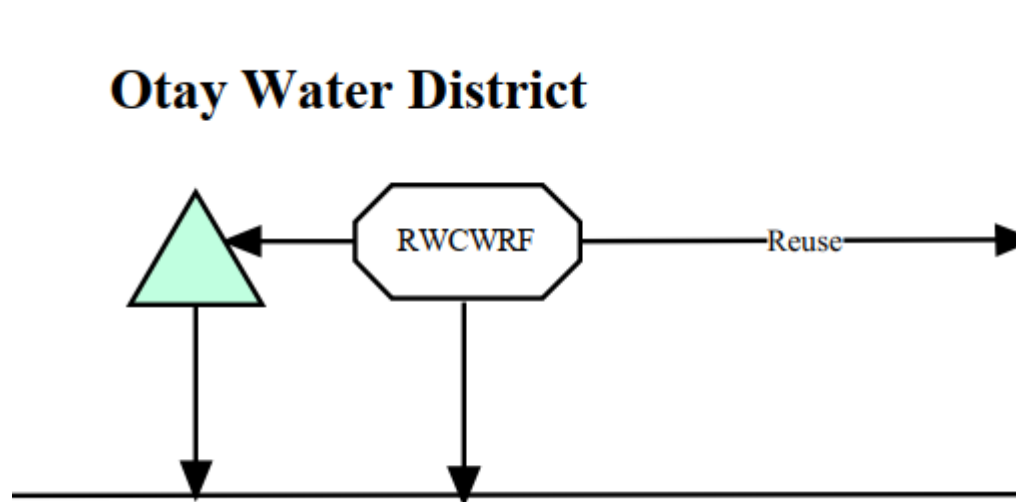
NAVY



OTAY



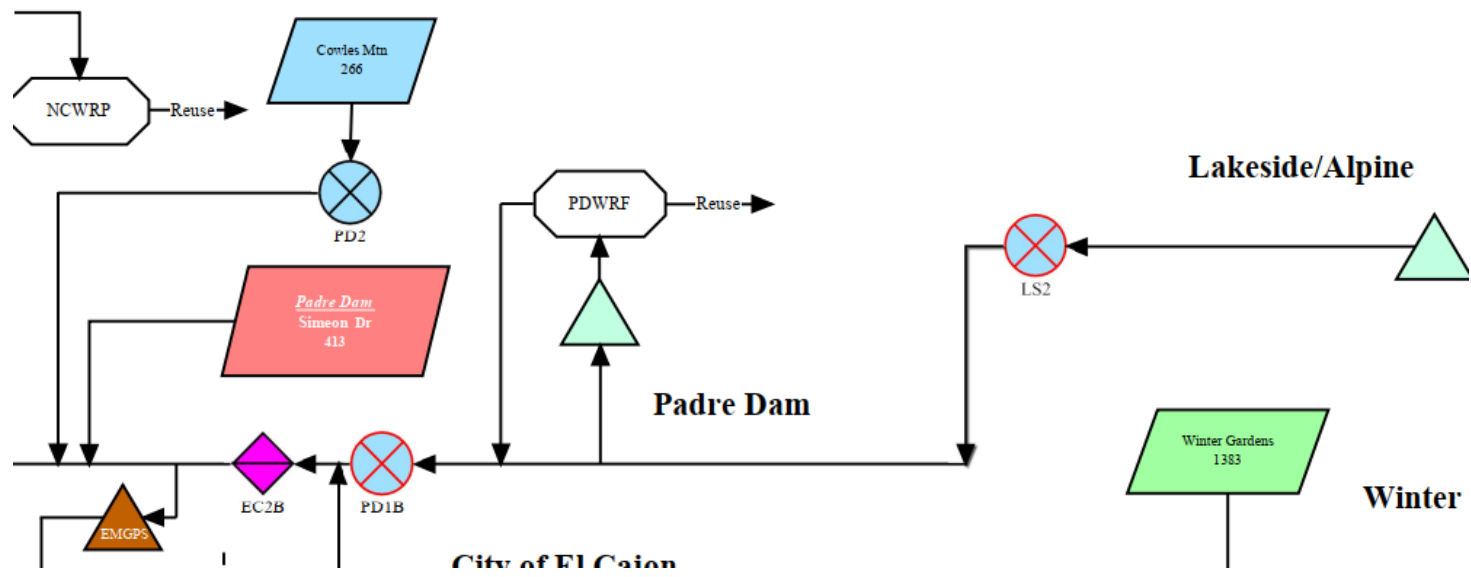
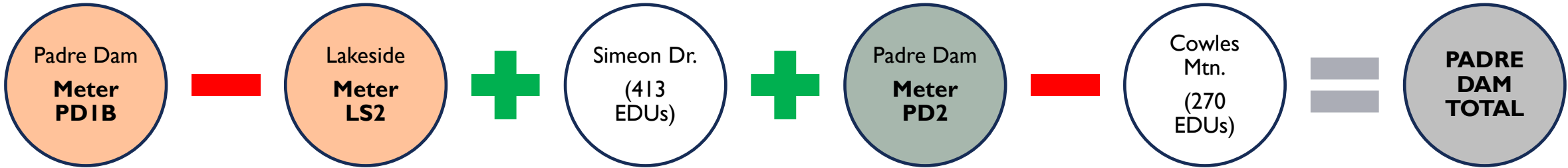
Otay Water District



1. Billing and Sampling Meters ●
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

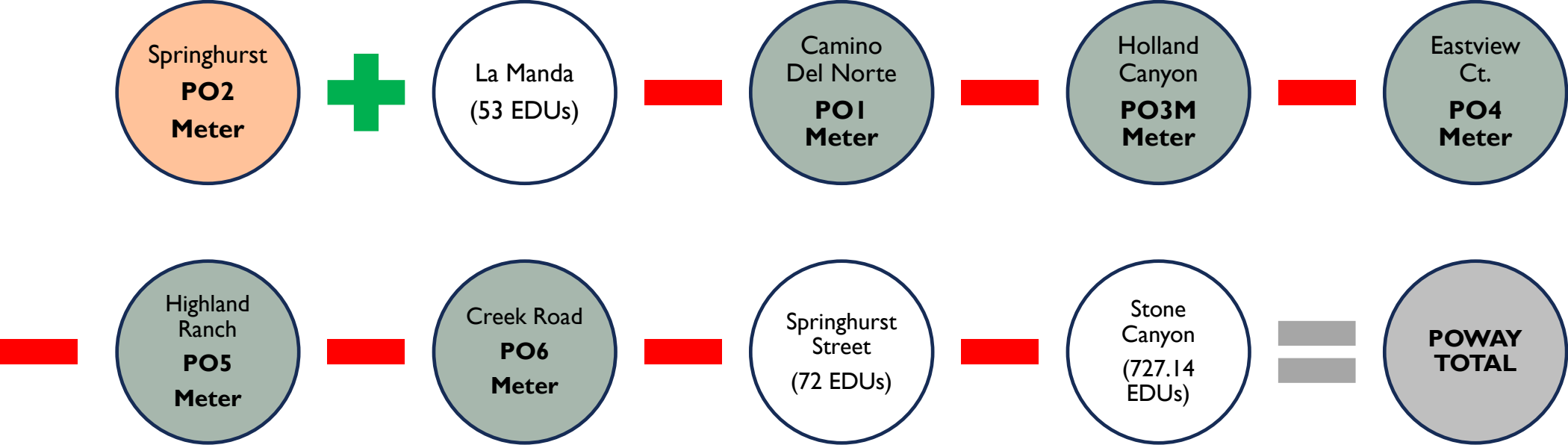
PADRE DAM



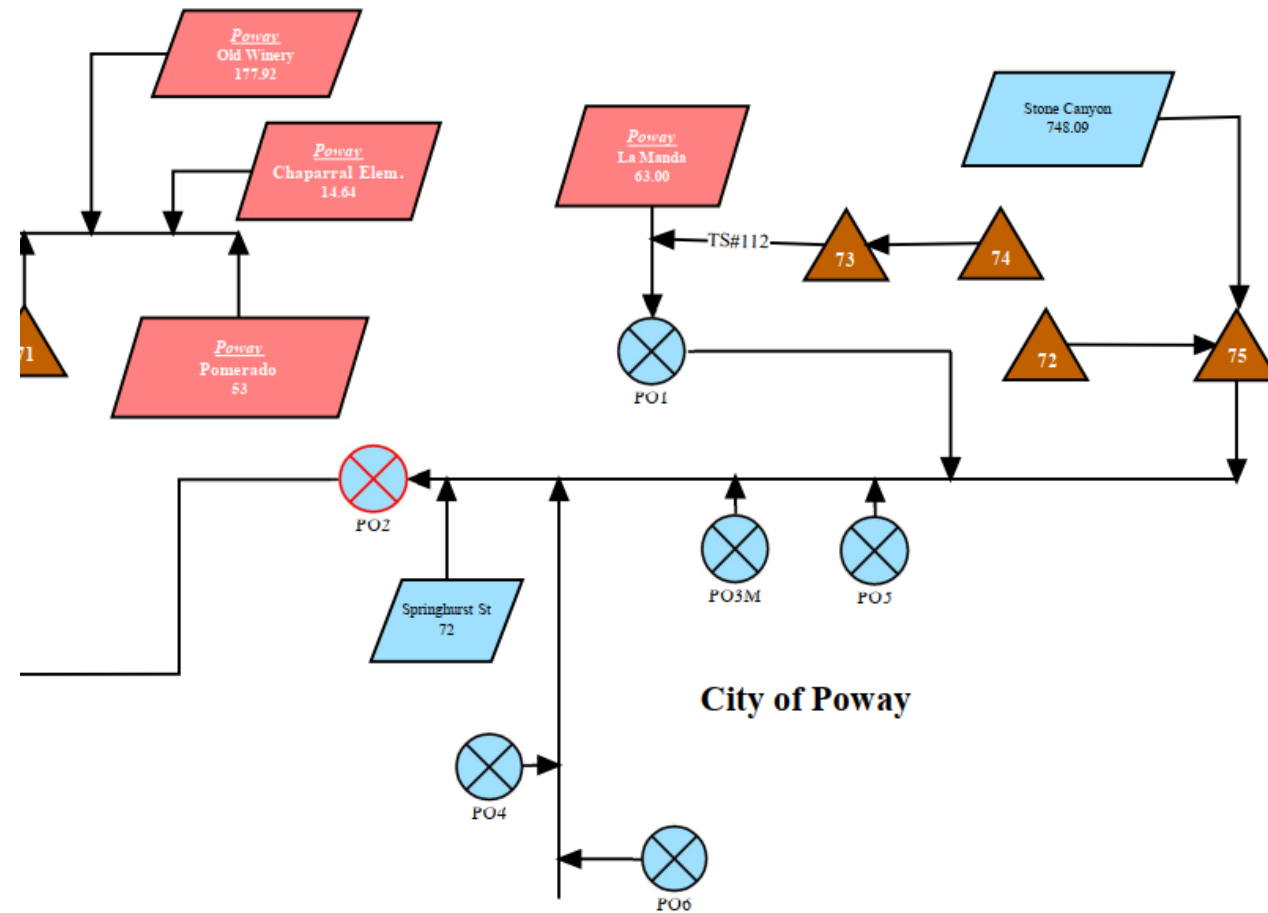
- 1. Billing and Sampling Meters ●
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

POWAY



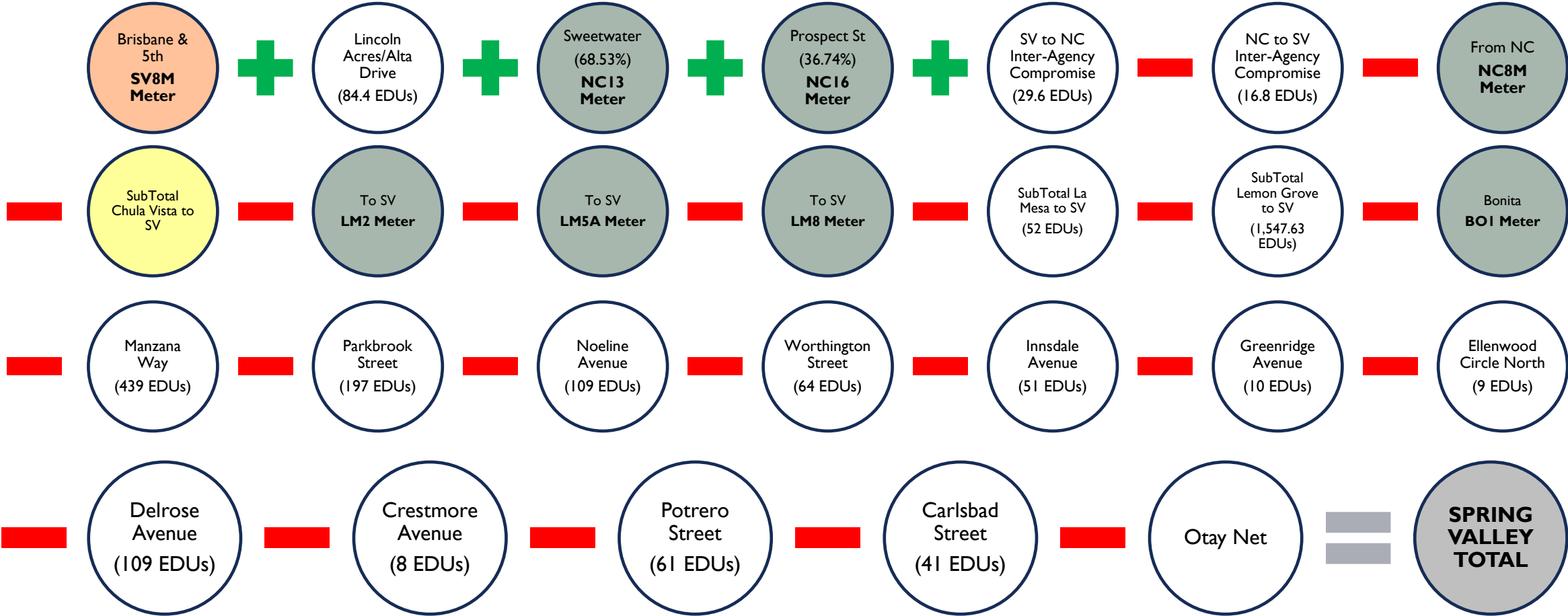
POWAY



1. Billing and Sampling Meters (orange circle)
2. Billing Meters (green circle)

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

SPRING VALLEY

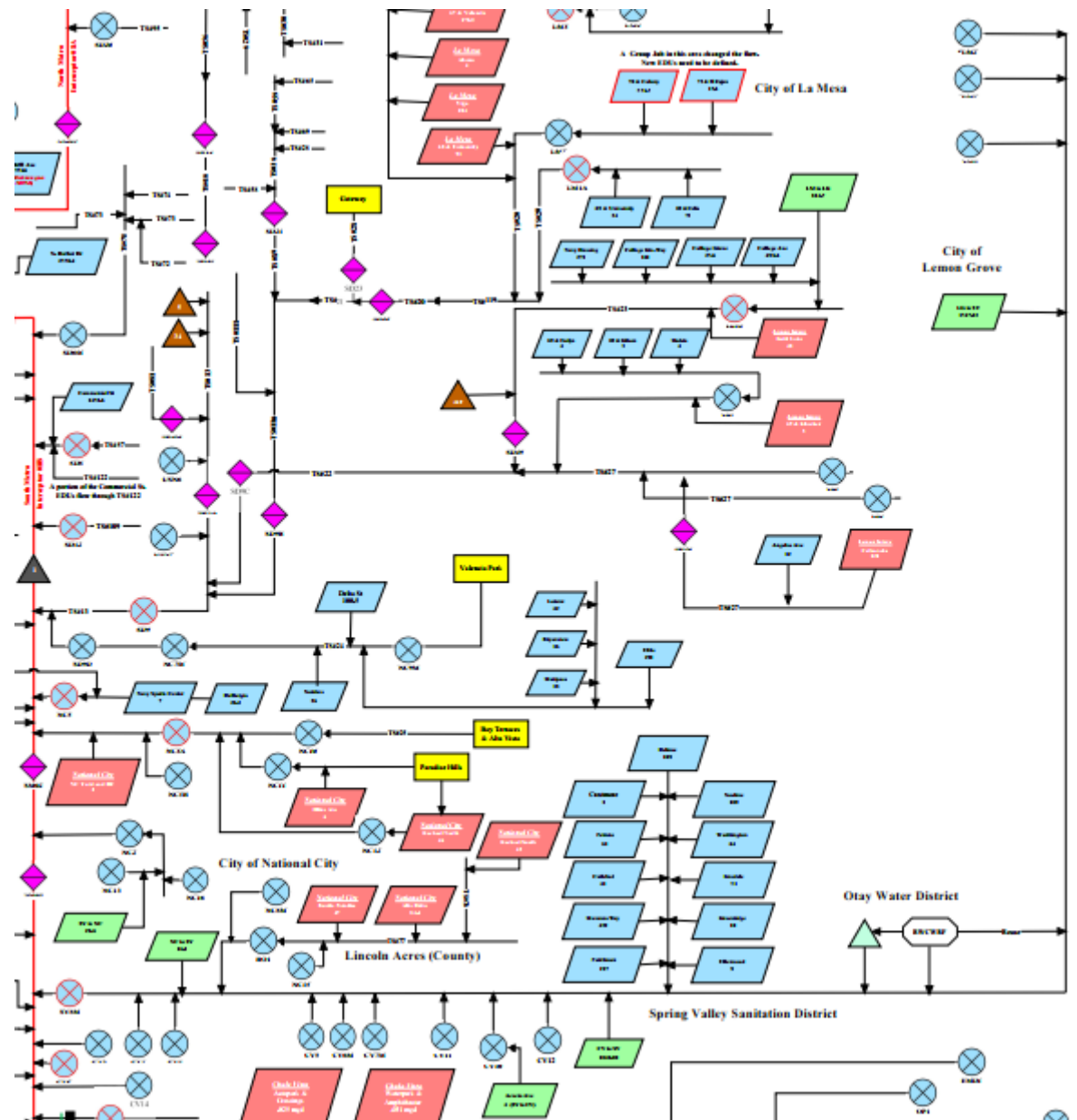


SubTotal Chula Vista to SV = Combined Housecounts – Acacia Ave + CV5 + CV6 + CV7M + CV8 + CV9 + CV10 + CV11 + CV12 + CV14

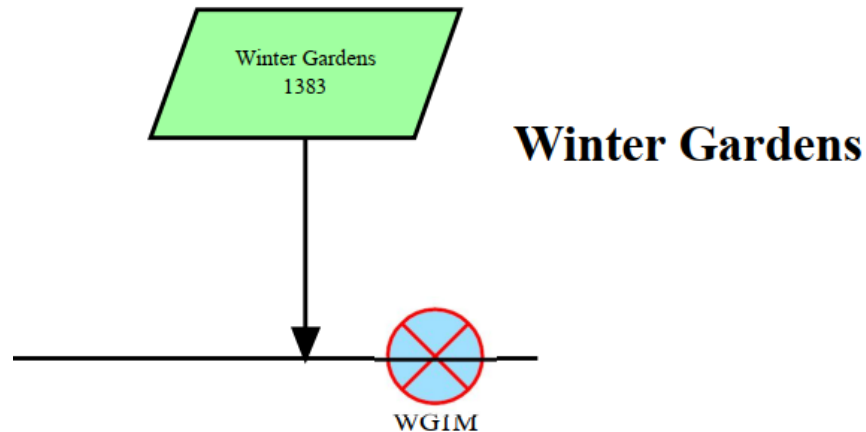
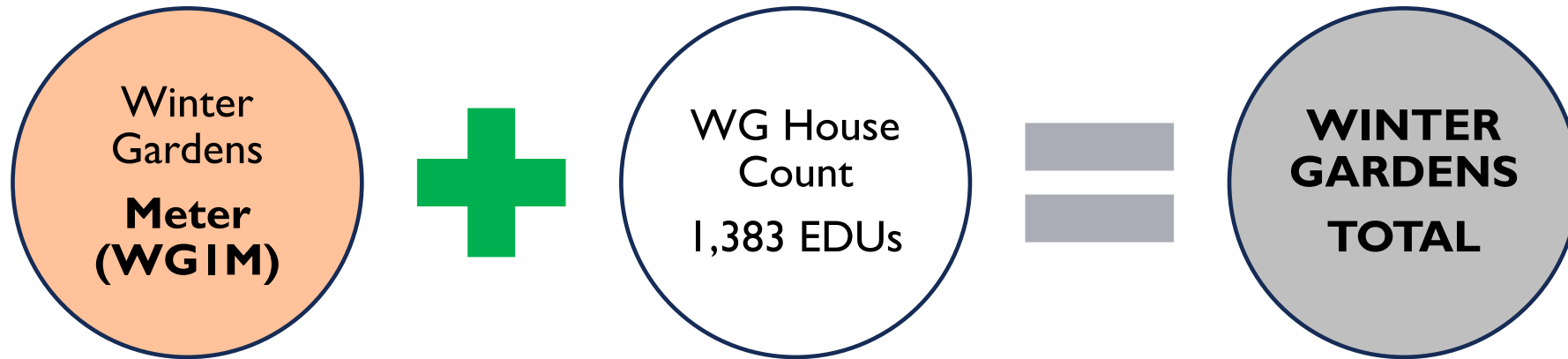
SPRING VALLEY

1. Billing and Sampling Meters 
2. Billing Meters 

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.



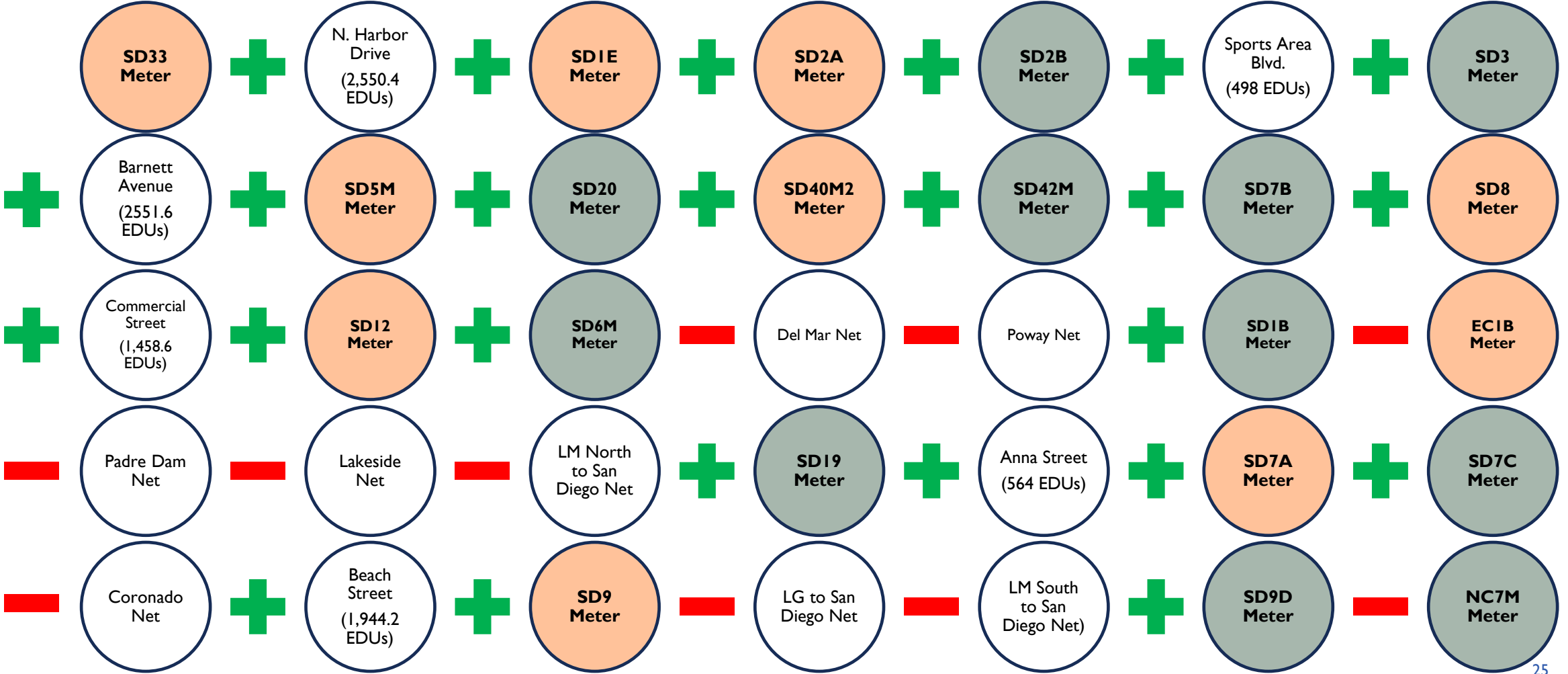
WINTER GARDENS



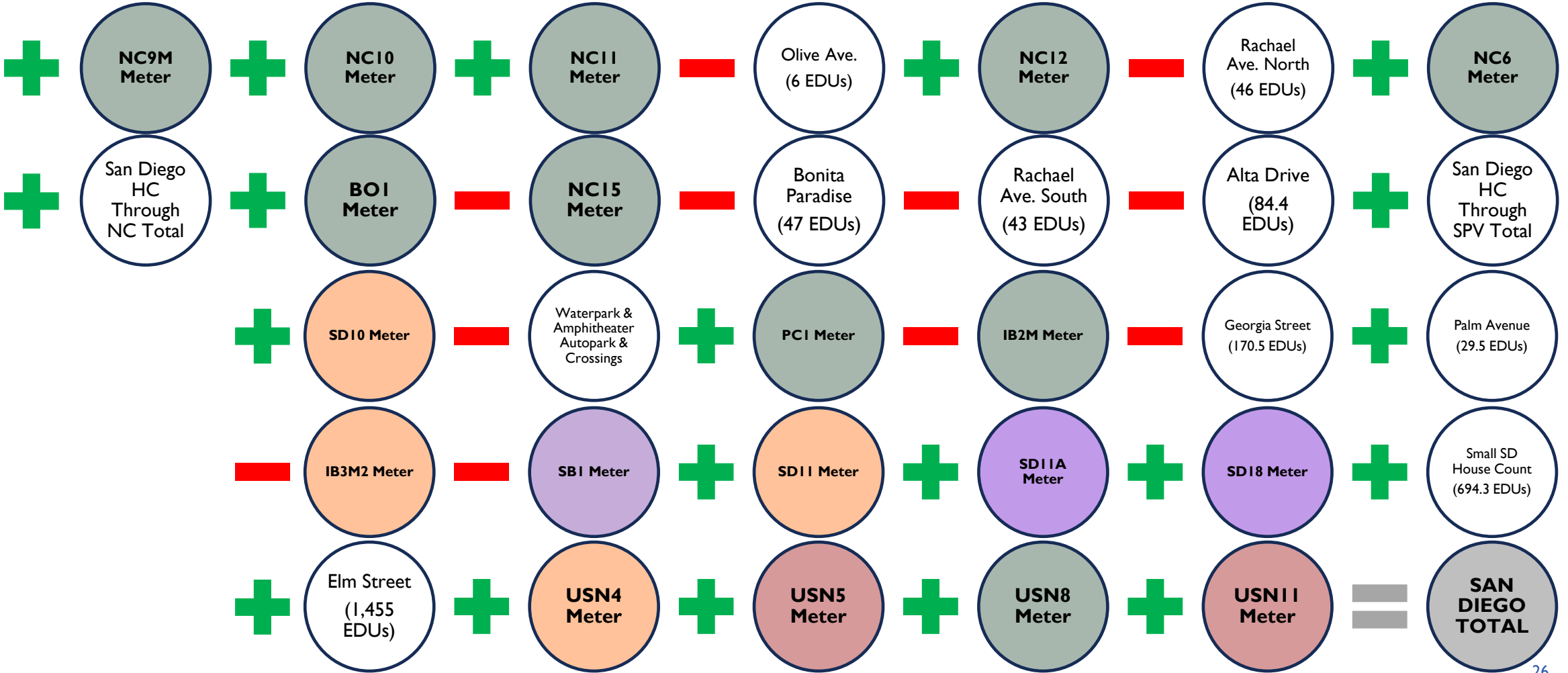
1. Billing and Sampling Meters 
2. Billing Meters 

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

CITY OF SAN DIEGO



CITY OF SAN DIEGO



1. Billing and Sampling Meters
2. Billing Meters
3. City of San Diego Meters
4. Participating Agency Billing Agreement



Attachment 7

Sanitary Sewer Management Performance Risk and System Optimization – Part 2

City of San Diego Public Utilities
Wastewater Collection Division

Metro TAC

Sewer System Maintenance Optimization

September 21, 2022

Mike Rosenberg
Deputy Director, Wastewater Collection



Wastewater Collection System Overview

- 2,880 miles of collection sewer mains (30" and less)
- 60,228 collection manholes
- 74 collection pump stations



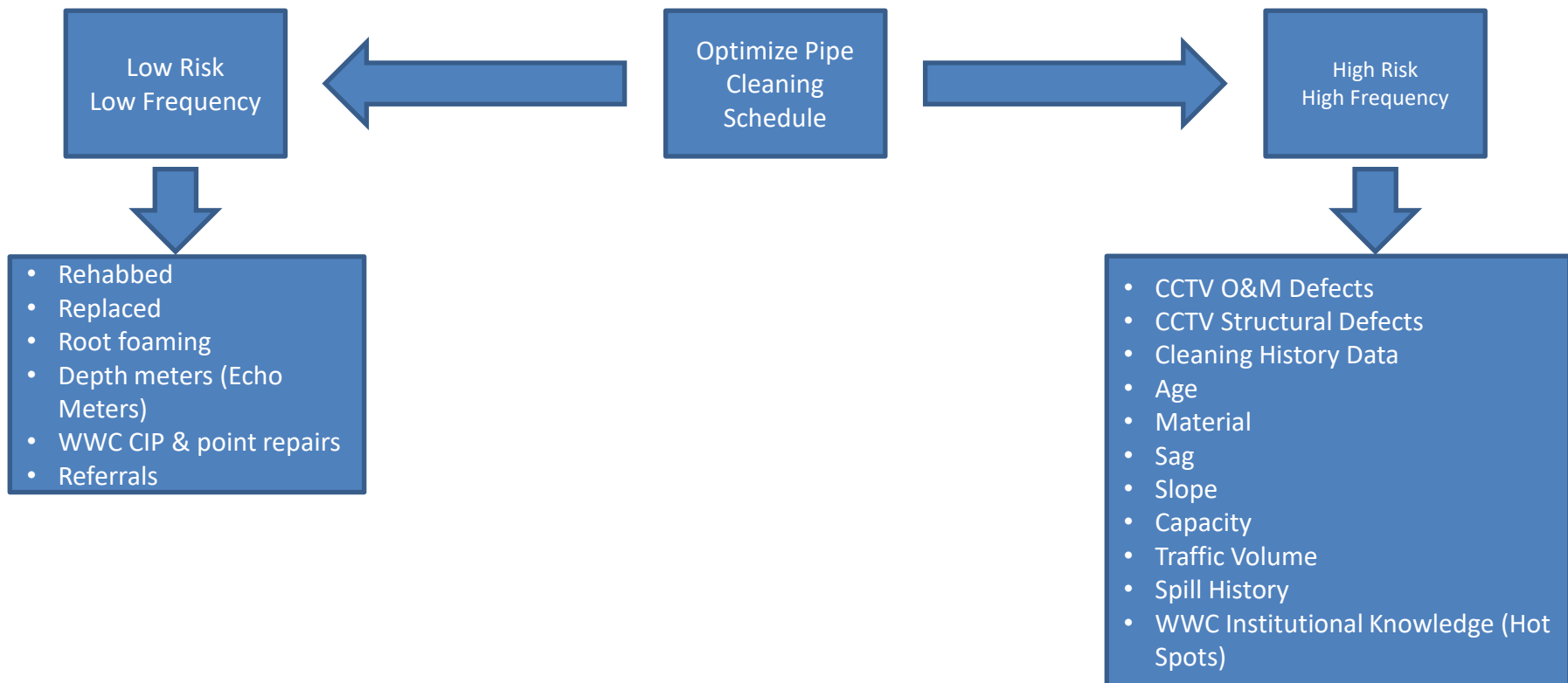


Project Goals and Objectives

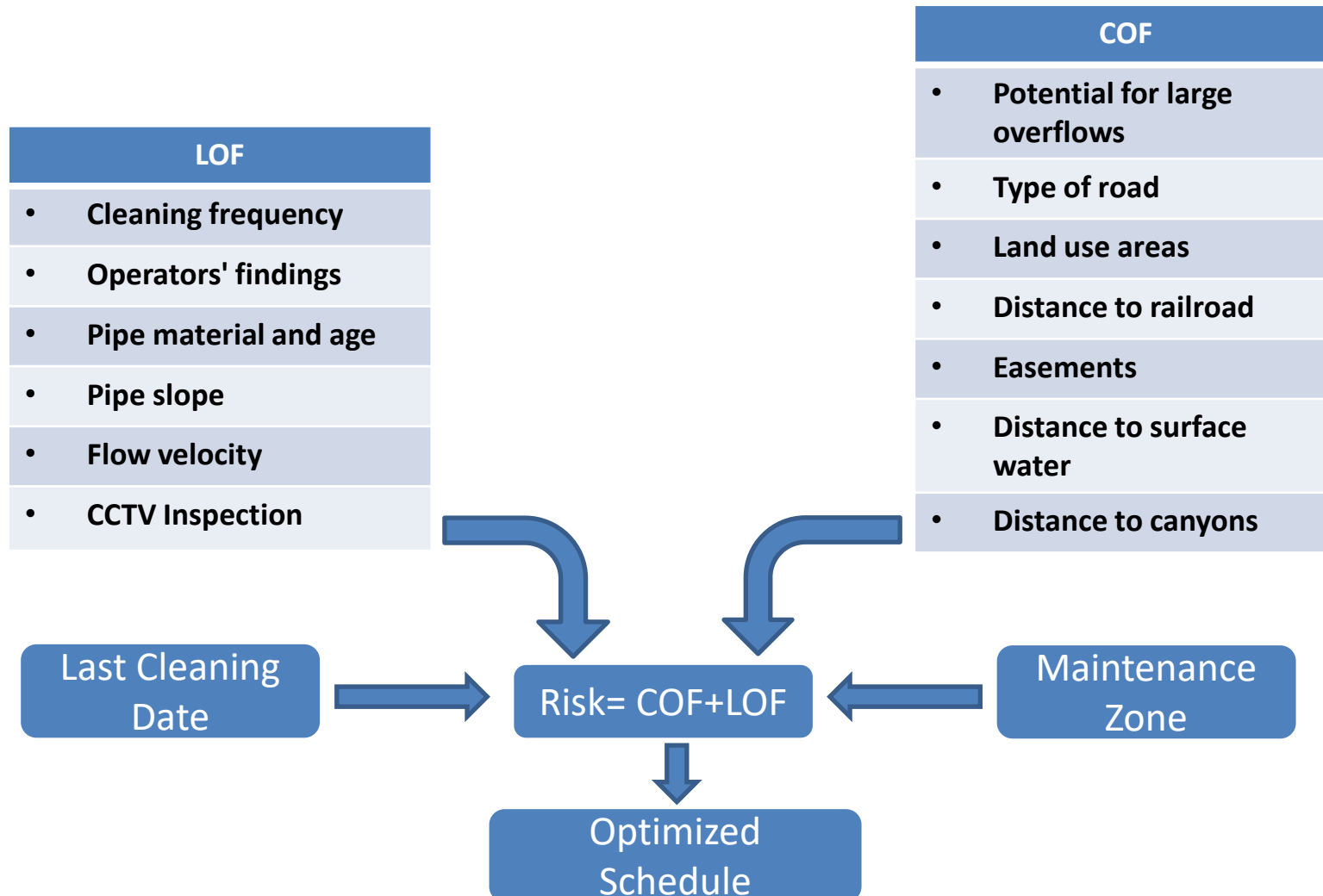
Optimization
• Maintain the right pipe at the right time
• Develop maintenance zones by grouping assets into Work Orders in small geographic areas
• Enhance proactive maintenance approach
• Develop a risk-based maintenance schedule
• Develop a 5-year maintenance plan for the entire collection system
• Reduce overflows
• Eliminate Backlog by March 2023
• Reduce CCTV red and blue flags

Sewer Optimization Strategies

Sewer cleaning optimization provides efficiency, while preventing or minimizing the high-risk factors



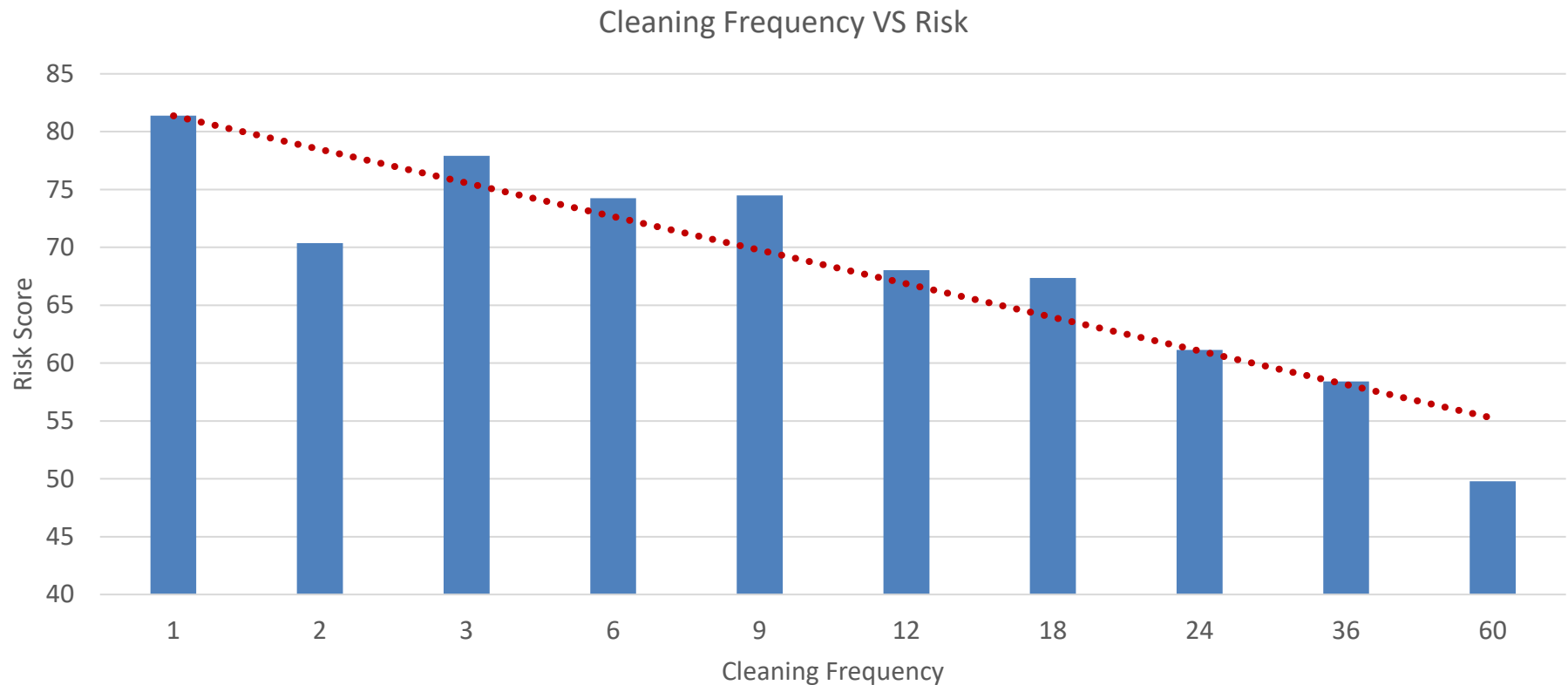
Maintenance optimization risk analysis uses LoF and CoF to calculate the sewer pipe segments risk





Risk and Frequency Correlation - Existing

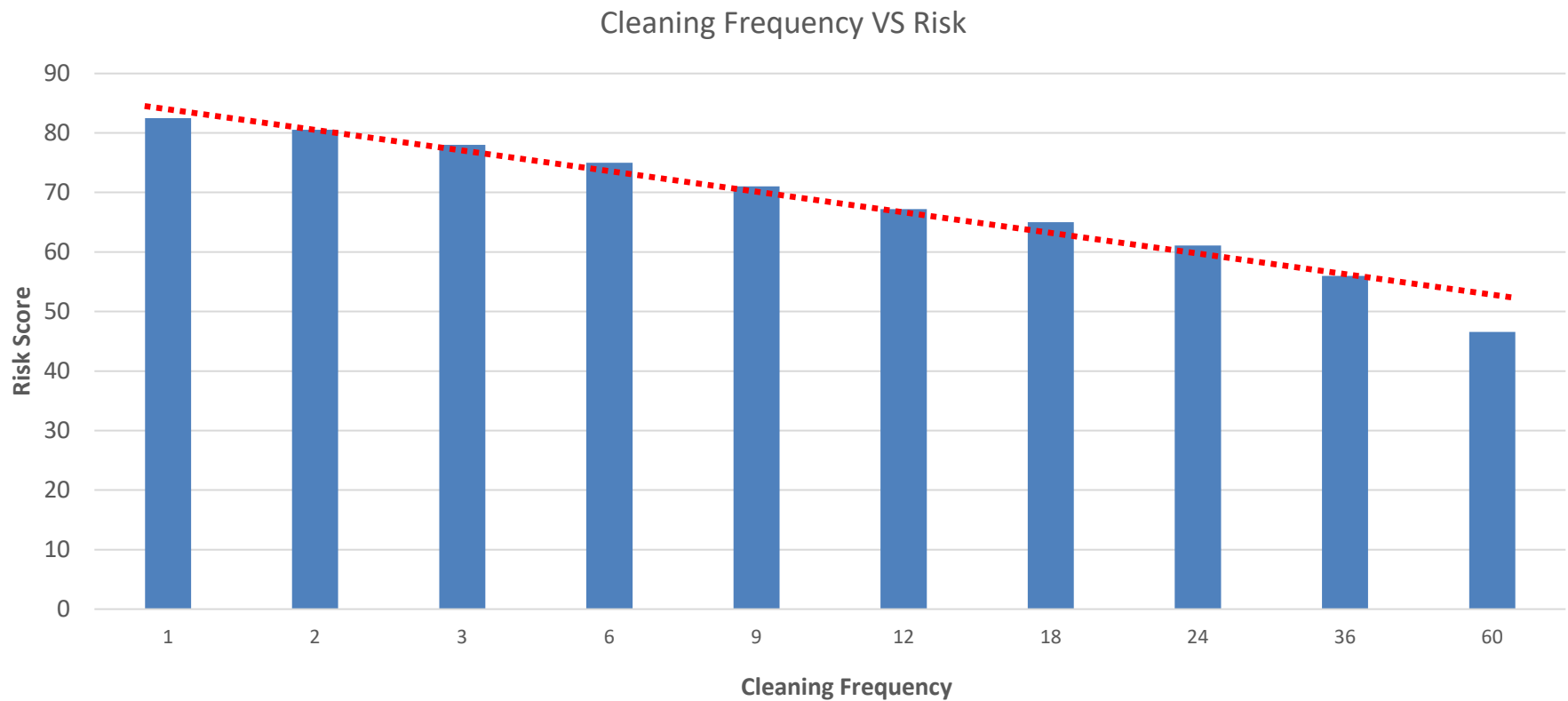
Before risk scores were developed, looked at each frequency to determine the amount of “risky” pipes





Risk and Frequency Correlation- Recommended

After risk scores were developed, looked at each frequency to determine the amount of “risky” pipes



Frequency Adjustment Based on Risk, Rehabilitation and Replace

366 miles (13%) of sewer pipes were moved out from aggressive maintenance



Benefits of the Optimization

Project Benefits

- Clean pipes at optimized frequency
- Reduce fuel usage (diesel cost increased by 75%)
- Reduce potable water used for flushing
- Reduce overtime
- Reduce travel to the same neighborhood
- Efficient use of resources
- Eliminate the risk of overflow
- Expand the useful life of the assets
- Substantial Financial saving in labor and resources
- Establish a protocol to update cleaning frequencies based on timely data collection

- Questions



Attachment 8

A. \$80M Change Order for Chemical Contracts

B. \$20 Million Construction Change Orders (CCO) for Morena Pump Station

Public Utilities Department

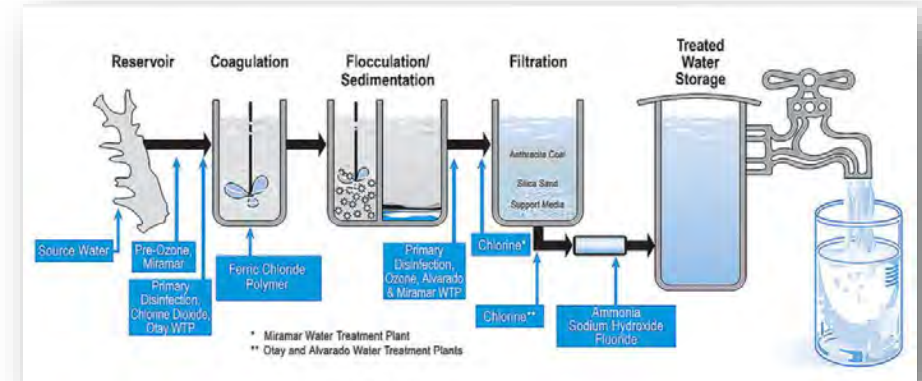
Contract Amendments for Critical Chemicals

Metro TAC, September 21, 2022
Agenda Item 9

Purpose

City Council Authoritization to Negotiate and Execute Amendments to Six Critical Chemical Contracts

- All contracts were competitively procured
- Contracts provide critical chemicals required to operate water and wastewater facilities to comply with all Federal, State, and County regulations and to ensure the health and safety of our residents
- Raw materials costs have, and continue to, significantly increase
 - COVID-19, supply chain issues, inflation
- Insufficient or any interruption in the application of these chemicals would directly impact public health and safety, protection of the environment and could results in fines and penalties





Public Utilities Department

Vendor	Chemical	Purpose	Estimated Volume (annually)	Cost/Unit Changes	Increase in Value of Contract (term)
Hill Brothers	Ammonium Hydroxide	Prolong the effectiveness of disinfecting chlorine when added to drinking water	1.46M gallons	\$0.56/gallon (orig) \$2.03/gallon (now)	\$4.3M (5yrs)
JCI Jones Chemical	Sodium Hypochlorite	Disinfection and odor control at wastewater facilities	3.1M gallons	\$0.644/gallon (orig) \$1.6836/gallon (now)	\$25.0M (5yrs)
	Caustic Soda	Corrosion control throughout water distribution system	2,780 dry tons W 2,128 dry tons WW	\$550/ton (orig) \$1,106/ton (now)	\$6.8M (5yrs)
	Liquid Chlorine	Disinfectant at water treatment facilities	2.1M lbs	\$439.79/ton (orig) \$1,450/ton (now)	\$5.7M (6yrs)
Kemira	Ferric Chloride	Coagulate particulates for sedimentation in water and wastewater facilities	2,750 dry tons	\$642/ton (orig) \$1,128/ton (now)	\$13.5M (5yrs)
US Peroxide	Hydrogen Peroxide and Ferrous Chloride	Odor control at wastewater facilities	667,245 gallons 219,101 dry tons	Varies	\$25.0M (6yrs)



The City of San Diego

Staff Report

DATE ISSUED: July 12, 2022

TO: City Council

FROM: Strategic Capital Projects

SUBJECT: Authority to Approve Construction Change Orders (CCO) for K-21-1807-DBB-3-A Morena Pump Station

Primary Contact: Akram Bassyouni, Deputy Director Phone: (619) 533-3616

Secondary Contact: Steve Lindsay, Sr. Civil Engineer Phone: (858) 495-7878

Council District(s): 2, 7

OVERVIEW:

This action will adopt a resolution authorizing the Mayor, or his designee to issue one or more construction change orders for the Morena Pump Station to address the dewatering changed condition to the construction contract with Flatiron West, Inc. for a total amount not to exceed \$20,000,000.

PROPOSED ACTIONS:

1. The Mayor or his designee is authorized to execute one or more Change Orders to Flatiron West Inc. for a total amount not to exceed \$20,000,000 for the dewatering changed condition;
2. The Chief Financial Officer is authorized to expend an additional amount not to exceed \$20,000,000 from CIP ALA00001 Pure Water Phase 1 (B-21061, PWP Morena Wastewater Pump Station), Fund 700009, Metro Sewer CIP, for one or more Change Orders for the construction of the Morena Pump Station, contingent upon the Chief Financial Officer furnishing one or more certificates certifying that funds necessary for expenditure are, or will be, on deposit with the City Treasurer.

DISCUSSION OF ITEM:

The City entered into a contract for the Morena Pump Station (K-21-1801-DBB-3-A) with Flatiron West, Inc. on April 28, 2021 for an amount not to exceed \$110,386,350.00 per resolution R-312062. The original contract was for 925 working days with a Notice to Proceed (NTP) date of June 14, 2021 to start construction activities. The Morena Pump Station project consists of the demolition of existing facilities at the proposed Morena Pump Station site, the construction of a new 37.7 million gallons per day (MGD) Morena Wastewater Pump Station facility, including Odor Control Systems, Electrical Building, Screening Facility, High Purity oxygen System, Maintenance Building, associated civil site work including storm drainage, yard piping, perimeter walls, access gates, pavement, landscaping and other appurtenances. The project also includes the construction of 48-inch, 60-inch & 66-inch diversion and overflow sewers, three diversion structures with slide gates and one junction structure on Friars Rd.

The majority of the pump station support infrastructure are underground, below the water table. Therefore, dewatering was required to lower the water table for construction. Unfortunately, the

construction effort is experiencing excessive amounts of dewatering flow rates greater than anticipated during the design and construction contract bid phase. The contract specifications stated that the Contractor shall assume a dewatering system capacity of 860,000 gallons per day and that this volume was provided as a guideline for the contractor assuming soldier beam and lagging excavation shoring. The Contractor has implemented the soldier beam and lagging shoring system. The 860,000 gpd flow rate was first exceeded on March 23, 2022 when the Contractor's dewatering system attained a sustained discharge rate of approximately 1.1 million gallons per day (MGD) with no measurable effect on the ground water as demonstrated in the subsequent daily measurements taken in the piezometers. The Contractor has since continued to perform modifications to include upsizing of equipment to the dewatering system in attempts to increase the discharge flow rate and lower the water table which, as of this date, has proven ineffective.

This has resulted in a changed condition to the construction contract that has impacts to the project's schedule and its ability to meet the overall program schedule. Major delays to this project can result in delays to the Pure Water Program schedule. This change has resulted in this urgent request due to the potential impacts to the critical path schedule and costs of the project and the Pure Water Program.

This action will authorize the Mayor, or his designee to execute one or multiple construction change orders with Flatiron West, Inc. for a total amount not to exceed \$20,000,000.00 for unforeseen conditions that were encountered during construction which resulted in additional costs. The additional costs associated with this changed condition include:

- Backfill existing excavation from elevation 0.00 Mean Sea Level (MSL) to elevation 10.00 MSL.
- Removal of the Existing Shoring System.
- Installation of Secant Pile & Jet Grouting Floor.
- Re-excavation from elevation 0.00 MSL to elevation 10.00 MSL.
- Removal of Internal Bracing.
- Reshoring Hydro-Modification Tank at elevation -2.00 MSL.
- Demolition of 140 LF of secant wall from elevation 10.00 MSL to elevation -2.00 MSL for installation of Hydro-Modification Tank.
- Removal of the Dewatering System.
- Prime and Sub's Time Related Overhead (TRO) costs due to impacts to critical path.

The time impacts associated with the changed condition will be presented in a subsequent staff report once the impacts have been determined.

The Total Construction cost to date is \$111,126,107.47. With this Change Order, it will bring the Total Construction cost to \$131,126,107.47.

Full accounting of all Pure Water Phase I construction contracts, including all construction change orders to date, will be provided to the Environment Committee as part of the semi-annual Pure Water update. Funding to cover this Action is currently available in the Pure Water Pooled Contingency and within the previously authorized budget.

City of San Diego Strategic Plan:

Pure Water San Diego is the City's 20-year program to provide a safe, secure, and sustainable local drinking water supply for San Diego. Awarding and funding the construction contracts for Phase 1 of the project directly supports the Strategic Plan's Priority Area: Championing Sustainability by diversifying San Diego's water supply and reducing dependence on imported water.

Fiscal Considerations:

The total cost of the original construction amount of \$110,386,350.00 was previously authorized per Resolution R-312062. The total cost of the contract to date is \$111,126,107.47 which includes six executed change orders.

The total cost of this changed condition is not to exceed \$20,000,000.00. Funding to cover this action is included in CIP P-19002, Pure Water Pooled Contingency.

Charter Section 225 Disclosure of Business Interests:

N/A; the contract is with a publicly traded company.

Environmental Impact:

This action, to authorize the Mayor or his designee to execute a construction change order for the Morena Pump Station to Flatiron West, Inc., is adequately addressed in the Final EIR prepared for the Pure Water San Diego Program, North City Project (No. 499621/SCH No. 2016081016), which was certified on April 10, 2018 by City Council Resolution R-311671. This activity is a subsequent discretionary action and therefore not considered a separate project for the purposes of CEQA pursuant to State CEQA Guidelines Section 15378(c), and there is no change in circumstance, additional information, or project changes to warrant additional environmental review.

Climate Action Plan Implementation:

The Pure Water Program is not specified in the Climate Action Plan, but it supports climate resiliency, Strategy 5, by providing a diversified, sustainable, and drought-proof source of water supply to the City of San Diego.

Equal Opportunity Contracting Information (if applicable):

The construction contract is subject to the City's Equal Employment Opportunity Outreach Program (San Diego Ordinance No. 18173, San Diego Municipal Code Sections 22.2701 through 22.2708) and Non-Discrimination in Contracting Ordinance (San Diego Municipal Code Sections 22.3501 through 22.3517).

Previous Council and/or Committee Actions:

On April 29, 2014, City Council adopted Resolution Number R-308906 in support of the Pure Water Program.

On April 10, 2018, City Council passed Resolution Number R-311671 which certified the Environmental Impact Report (EIR) No. 499621 and adopted the Mitigation Monitoring and Reporting Program (MMRP).

On April 10, 2018, City Council passed Resolution Number R-311672 granting the Site Development Permit (SDP) and a Multi-Habitat Planning Area Boundary Line Adjustment for the Pure Water North City Project.

On November 15, 2018, City Council adopted Resolution Number R-312062 authorizing the Mayor to advertise and execute the Pure Water Program construction contracts to the lowest responsible and reliable bidders and to expend funds for City Forces.

On December 4, 2018, City Council adopted Ordinance Number O-21029 authorizing the Mayor to execute construction change orders up to \$1,000,000.

On October 26, 2021, City Council adopted Resolution Number R-313764 authorizing the Mayor to execute construction change orders up to \$2,000,000.

This action will be heard by the Environment Committee prior to full Council.

Key Stakeholders and Community Outreach Efforts:

The stakeholders for this project include local planning groups, community organizations, business groups, civic associations, environmental groups, social services agencies, local businesses, civic and community leaders, commuters and community event organizers near the project alignment, and schools and religious centers near the alignment, and property owners and residents near the alignment. In 2018, Phase 1 Community Working Groups were established to gather input on community construction impacts, and the Bay Park/Morena and Clairemont Working Groups will continue to be engaged throughout construction of this project. Extensive community outreach will be conducted through doorhangers and printed notices, online notices and an established phone line for the community.

James Nagelvoort

Department Director

Kris McFadden

Interim Deputy Chief Operating Officer

Environment Committee Item # 3

Authority to Approve Construction Change Orders (CCO) for K-21-1807-DBB-3-A Morena Pump Station



Strategic Capital Projects Department



1. The Mayor or his designee is authorized to execute one or more Change Orders to Flatiron West Inc. for a total amount not to exceed \$20,000,000 for the dewatering changed condition;
2. The Chief Financial Officer is authorized to expend an additional amount not to exceed \$20,000,000 from CIP ALA00001 Pure Water Phase 1 (B-21061, PWP Morena Wastewater Pump Station), Fund 700009, Metro Sewer CIP, for one or more Change Orders for the construction of the Morena Pump Station, contingent upon the Chief Financial Officer furnishing one or more certificates certifying that funds necessary for expenditure are, or will be, on deposit with the City Treasurer



Pure Water Phase 1 Overview





Morena Wastewater Pump Station

Location



The City of
SAN DIEGO Public Works

Morena Pump Station

SENIOR ENGINEER
Nabil Batta
858-614-4524

PROJECT MANAGER
Nabil Batta
858-614-4524

PROJECT ENGINEER
Darin Sanchez
858-292-6420

FOR QUESTIONS ABOUT THIS PROJECT
Call: 619-533-4207
Email: engineering@sandiego.gov



Legend

- Morena Pump Station
- Influent and Overflow Sewers
- Morena Conveyance South (Outside of Contract)

COMMUNITY NAME: Linda Vista, Morena

COUNCIL DISTRICT: 2, 7

SAP ID: B15141 (S)

Morena Pump Station

Appendix E - Location Map



2054 | Page

Project Overview

The Morena Pump Station will divert an average of 32 million gallons per day (mgd) of wastewater through the Morena Pipeline to the North City Water Reclamation Plant for treatment and the Pure Water Facility for purification. Dewatering is required to construct pump station.



Summary of Major Construction Package Components

- Sewer Pump Station (43 feet deep)
- Screening Facility (22 feet deep)
- High Purity Oxygen System
- 48-inch to 60-inch diameter influent diversion sewers in Friars Road
- 66-inch Overflow Sewer
- Electrical and Instrumentation

Construction Contract Overview

- Original Contract K-21-1801-DBB-3-A) Morena Pump Station with Flatiron West, Inc. was signed and executed on April 28, 2021 in the amount of \$110,386,350.00 and 925 working days.
- Six Construction Change Orders have been approved and executed to date with no additional working days to the Contract. The total cost of the contract to date is \$111,126,107.47

Changed Condition: Overview

- Contract included a dewatering system capacity of 860,000 gallons per day (gpd) as a guideline for the contractor assuming soldier beam and lagging excavation shoring
- Soldier beam and lagging shoring system implemented by Contractor
- 860,000 gpd flow rate exceeded on March 23, 2022 when the Contractor's dewatering system attained a sustained discharge rate of approximately 1.1 million gallons per day (MGD) with no measurable effect on the ground water as demonstrated in the subsequent daily measurements taken in the piezometers.
- Contractor has since continued to perform modifications, to include, upsizing of equipment to the dewatering system in attempts to increase the discharge flow rate and lower the water table which, as of this date, has proven ineffective.



Beam and Lagging Shoring System Installation- March 1, 2022



Stone Column Installation- May 23, 2022

Changed Condition: Mitigation Options

Option 1- Upsizing Dewatering System

Upsizing (from 14" to 24" wells) the existing dewatering system to handle up to 2x the current discharge rates in attempt to lower water table to elevation -39.00 MSL

Option 2- Secant Pile Wall and Jet Grouting

Removal of the current shoring system (partially installed), installation of a secant pile and a jet grout treatment at the bottom of the excavation which should, all but eliminate the need for the current dewatering system

Option 3- Soil Freezing and Grout Plug

Installation of small diameters wells (~185 ea.) around the perimeter of the excavation and then install a jet grout bottom to eliminate the water intrusion into the excavation



Secant Pile Wall



Soil Freezing

- The contractor is currently experiencing a day for day delay since Critical Path work is on hold
- Delay Impacts
 - Project
 - Time related overhead costs for Prime and Subcontractors
 - Material escalation (concrete, steel, mechanical and electrical/instrumentation equipment)
 - Programmatic
 - Schedule impacts to testing and commissioning
 - Potential impact to meeting programmatic funding deadlines
 - Delay and cost impacts to other Pure Water contracts





Morena Wastewater Pump Station

- The total cost of this changed condition is not to exceed \$20,000,000.00. Funding to cover this action is included in CIP P-19002, Pure Water Pooled Contingency
- Full accounting of all Pure Water Phase I construction contracts, including all construction change orders to date will be provided to the Environment Committee as part of the semi-annual Pure Water update

Environment Committee Item # 3

Authority to Approve Construction Change Orders (CCO) for K-21-1807-DBB-3-A Morena Pump Station

Questions



Strategic Capital Projects Department



Attachment 9

Draft Language for the Conveyance and Treatment of Wastewater Generated at Military Bases to Address the Amended and Restated Agreement Section 2.9.1.6

Draft Military Language for 2nd ARA (9/14/22)

Existing: 2021 ARA Future Negotiation Language

2.9 Future Negotiations and Cooperation.

2.9.1 This Agreement and Exhibit F specifically contemplate Phase I of the Pure Water Program, which consists of new, expanded, or modified Metro System facilities and Water Repurification System facilities designed to produce only up to 30 million gallons per day of Repurified Water ("Phase I"). Within one year of the Effective Date of this Agreement, the Parties intend to meet and negotiate in good faith regarding one or more amendments to this Agreement or its Exhibits to address:

2.9.1.6 The conveyance and treatment of wastewater generated at United States military bases under this Agreement.

Suggested Draft Language 9/14/22

2.11 Wastewater Generated at Military Bases. Federal military bases that are connected to the Metro System may contract for wastewater services directly with, and purchase capacity directly from, the City subject to prior negotiation with and approval by the City and subject to the terms of this Section 2.11. If a United States military base is located within a Participating Agency's jurisdiction, the Participating Agency may request the City bill that military base directly as a separate and distinct customer. In the event the City agrees to accept the military's wastewater and bill the military base as a separate and distinct customer, then (1) the Participating Agency shall have no billing obligations with respect to the military base, (2) Each Participating Agency whose sewage line conveys the military base's wastewater reserves the right to negotiate and charge the federal government a conveyance or transportation fee for use of that Participating Agency's sewer line, (3) the City shall require that the military base comply with the applicable City pretreatment rules; and (4) The City agrees that the wastewater generated by the military base shall not be considered wastewater of the Participating Agency with respect to capacity moving forward. Any transfers of capacity that are appropriate or necessary to accommodate flow from military bases, if needed, would be governed by Section 4.2 herein, "Transfer of Contract Capacity."

Attachment 11

Attachment Covers 11 A, B, and D:

- A. Pt. Loma Wastewater Treatment Plant Road
- B. April 10, 2020 Spill Update – Supplemental Environmental Project Review, Duckbill Valve Sealing Details and Public Hearing Update
- D. Update on Tentative Order No. R9-2022-0078 Hearing and associated cost increases

Public Utilities Department

Metro TAC General Updates (Item 11)

September 21, 2022

Access road monitoring sites

- X Cave
- South Cove







Monitoring Program

- Topo surveys
- Visual inspections
- Drone imagery surveys
- Drone LIDAR surveys
- Geophysical investigations (surface waves and electrical resistivity)
- Groundwater monitoring
- Shape array ground movement monitoring (displacement and deformation)
- Dashboard operational
- Emergency Response Plan (finalized)



Status – Settlement and SEP

- Regional Water Quality Control Board will issue draft settlement agreement
- RWQCB allowing 50% for Supplemental Environmental Project (SEP) of total fine amount
- PUD would have to obtain City Council approval (closed session) to enter into agreement
- Timing (Sept-Nov)





Potential SEPs for Sweetwater River SSO

PROJECT	ORGANIZATION	FUNDING NEED	SEP APPROVAL	DESCRIPTION
D St Fill Restoration Project	Living Coast	\$30,000	No	Restoration project to be completed with community volunteers
Habitat Restoration & Education Program	Ocean Connectors	\$500,000	Yes	Free educational programs for community schools through hands-on restoration & classes
SD Bay Native Oyster Living Shoreline	Port of SD & CA Coastal Conservancy	\$836,428	No	Develop and deploy a nature-based solution to increase coastal ecosystem through a living shoreline
Chula Vista Bayfront Restoration/Enhancement Project	Port of SD	*\$10,500,000	Pending	Enhancement & restoration to create an additional 14 acres of wetland and coastal scrub habitat
Environmental Education Program	Port of SD	TBD	No	Stewardship approach to educate students & public on SD Bay

Port of San Diego

Chula Vista Bayfront Restoration & Enhancements

Sweetwater Shoreline Buffer

Shoreline restoration and enhancement buffer south of Sweetwater River.

Part of a larger project; The Chula Vista Bayfront Redevelopment project. Port is working on with the City of Chula Vista. The buffer will surround new Sweetwater Park.



Ocean Connectors

Habitat Restoration and Education Program

Outreach and education to local school district with in-classroom and hands-on restoration of upland, wetland, and river corridor habitat within SD Bay.

Provide free programs to half of the schools in National City. Want to expand to the entire district.

Program established in 2007.

Education is the focus of this program; restoration is part of the education.



Ocean Connectors

Goals & Impacts

To enhance student knowledge of marine science, environmental literacy, and conservation using case-study migratory species and related stewardship themes

- Approved and on current SEP list
- \$500,000 (funding need)
- Scalable?
- Application submitted 8/12/22



Port of San Diego

Israeli company (ECONcreteTech)

- Enables responsible building underwater and meet climate action goals
- Innovative concrete material provides a sustainable and ecological alternative to inorganic ripraps, traditionally used to stabilize and secure shores in marine construction
- Project location very near proximity to spill event
- SEP application being prepared



South Metro Interceptor South Siphon Transition Structure



Looking north across Sweetwater River



South Siphon Transition Structure

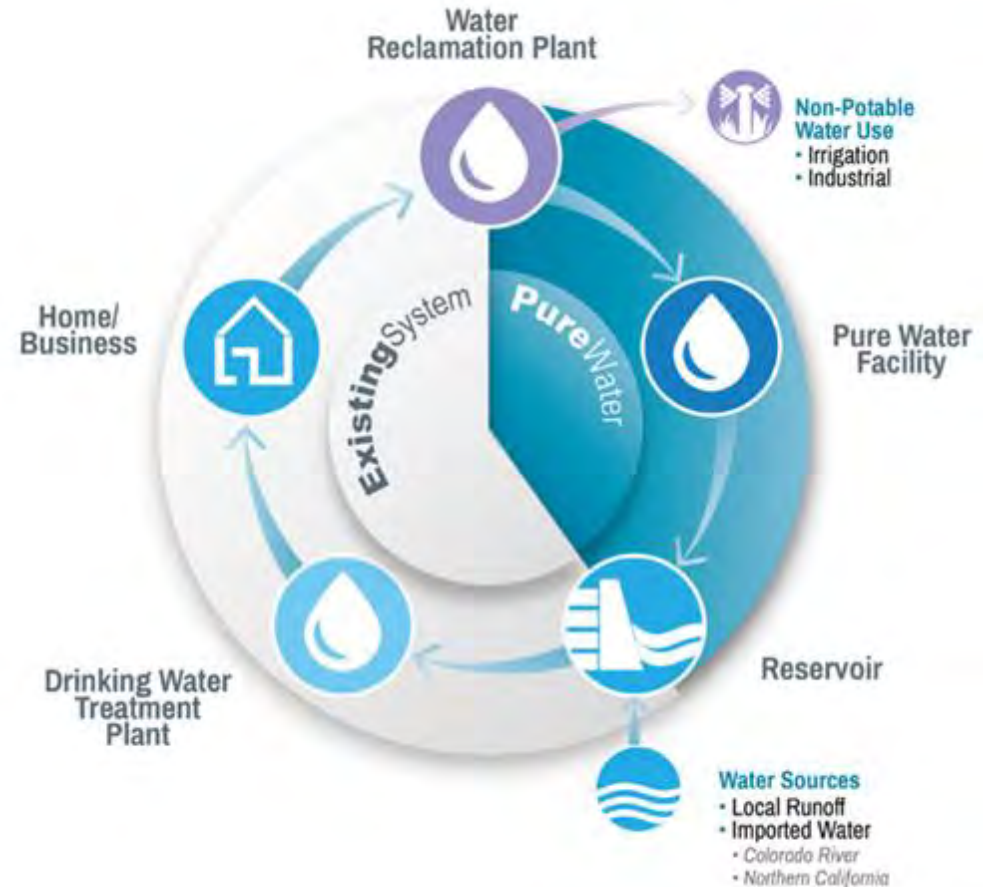
Sealing structure – Pros and Cons

- Pro – would mean no spills from this location
- Pro – inexpensive, blind flange and bolted manhole cover
- Con - maintenance still required, very high H₂S odors and corrosion
- Con - high system flows would possibly exit elsewhere



Purpose

- Examine the existing protocols used to manage all PUD assets including raw water, wastewater, pure water, potable water and recycled water
- Provide a standardized prioritization scoring framework for all asset types consistent with council policy
- Identify projects that can extend the useful life of existing assets
- Supports Climate Action Plan and Resiliency Plan Goals
- Environment Committee meeting (9/15/22) on consent calendar



Amendment to NPDES permit

The additional monitoring included in this amendment addresses terms and conditions from National Marine Fisheries Service:

- a phased study of nutrients and algal blooms in the receiving water, including an assessment of the euphotic zone (the area where light can penetrate, and thus is the depth of the ocean that can stimulate plankton and algae growth when nutrients are present)
- nutrient monitoring of the PLWTP's influent
- nutrient monitoring along with a handful of other parameters (associated with plankton/algae growth in the receiving water) in PLWTP's effluent
- effluent monitoring for constituents of emerging concern (CECs), specifically flame retardants
- Cost unknown at this point
- Adopted by RWQCB on 8/10/22 on consent calendar



Attachment 12

4th Quarterly Metro Capital Improvement Program and Funding Sources



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: August 9, 2022

TO: Metro Technical Advisory Committee (Metro TAC)

FROM: Surraya Rashid, Deputy Director, Public Utilities Department

SUBJECT: FY2022 Capital Improvements Projects (CIP) Report – 4th Quarter

The Public Utilities Department hereby submits the FY2022 CIP updates for the period of April 1, 2022 through June 30, 2022.

The report includes the following:

- Project Highlights
- Forecast versus actual expenditures report
- Projects expenditure updates

Project Highlights

Project	Total Project Cost	Status
SBWRP Variable Frequency Drive Replacement	\$955,500	Construction

Remove and replace two 600 HP Variable Frequency Drive and one 200 HP Variable Frequency Drive at the South Bay Wastewater Treatment Plant.



Photo 1. Removal of the old VDF.

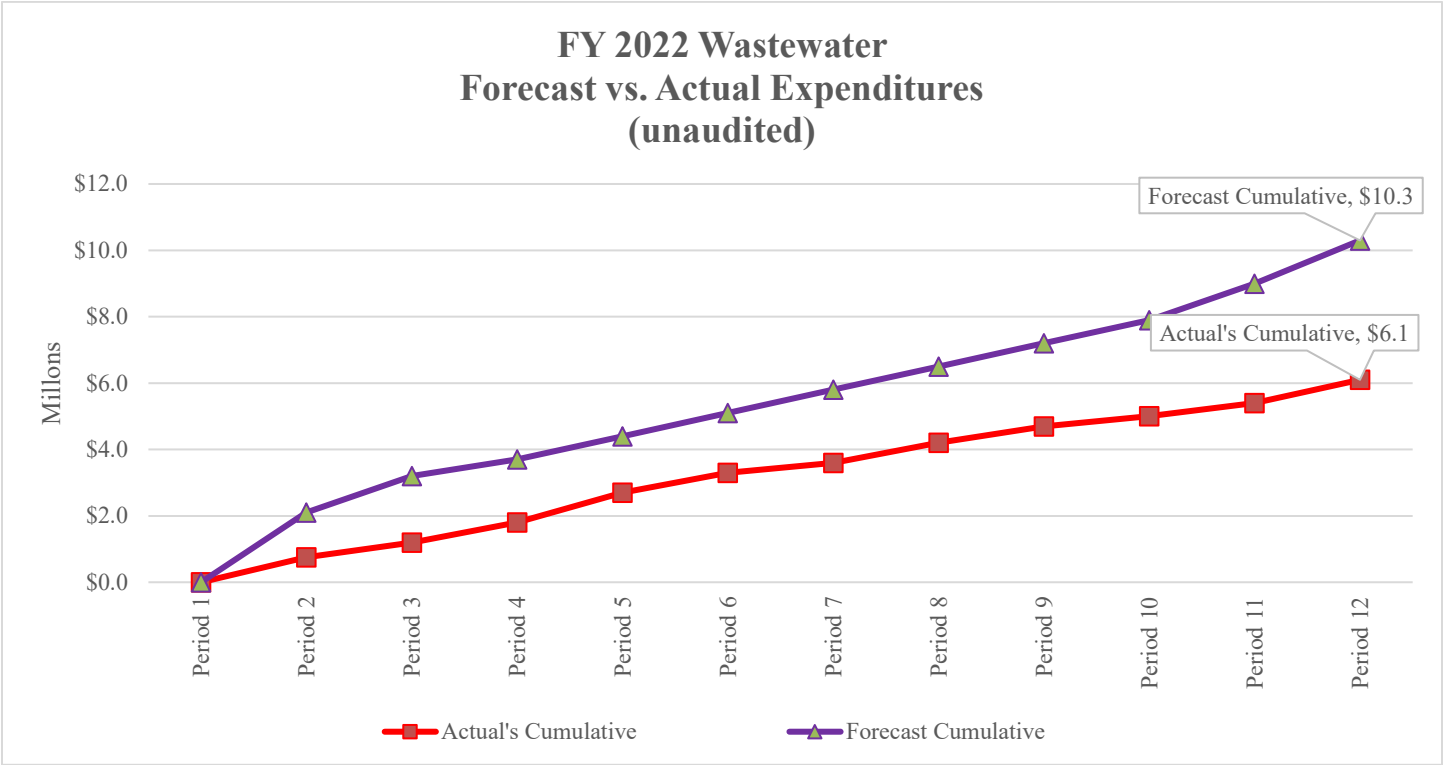


Photo 2. Crews installing new VDF.



Photo 3. The new installed VDF.

FORECAST VERSUS ACTUAL EXPENDITURES UPDATES



WASTEWATER PROJECTS
FY 2022 - 4th Quarter (Financial Data run June 30, 2022)

NOTES:
- Wastewater projects are separated into Muni and Metro

WASTEWATER PROJECTS								Design Phase			Construction Phase		
WBS	Project Name	Status	Estimated Total Project Cost	Project to Date Expenditures FY22, Pd 11	Encumbrance at FY22, Pd 11	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Design Start	Design Finish	Final Design Approval - End Variance	COSS BO/BU	BO/BU	BO/BU Variance
	LARGE SEWER PUMP STATIONS - METRO												
S00312	PS2 Power Reliability & Surge Protection Improve power reliability and provide standby power at the pump station, thus protecting against surges during outages and ultimately preventing sewage spills.	Construction	\$75,600,800	\$65,262,119	\$7,368,876	\$2,969,804	86.32%	2/1/2011	9/20/2016	2058	10/20/2021	9/11/2024	1057
	OTHER - METRO												
B20001	STORM WATER DIVERSION AT THE PLWTP Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the Point Loma Wastewater Treatment Plant.	Design	\$5,233,240	\$932,210	\$456,057	\$3,844,973	17.81%	11/7/2019	8/24/2022	1021	12/30/2022	6/4/2023	156
B20002	STORM WATER DIVERSION AT THE SBWRP Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the South Bay Water Reclamation Plant.	Bid / Award	\$3,908,100	\$859,321	\$164,138	\$2,884,641	21.99%	11/1/2019	5/12/2022	923	9/30/2022	4/5/2023	187
B19197	STORM DRAIN DIVERSION AT THE MBC Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the Metro Biosolids Center.	Bid / Award	\$3,481,800	\$1,054,053	\$16,697	\$2,411,050	30.27%	10/1/2019	4/26/2022	938	11/30/2022	1/11/2024	407
S00319	EMT&S Boat Dock Esplanade Construct one (1) acre esplanade between the existing EMTS building and channel.	Design	\$3,333,000	\$779,904	\$77,483	\$2,475,613	23.40%	10/1/2018	5/2/2022	1309	12/27/2022	8/2/2024	584
	SEWER TREATMENT PLANTS - METRO												
B20137	PLWTP Scum Injection Concentrators Improvements Remove existing scum concentrators and replace with scum screens, a decanter and associated piping so that the scum can be injected into the digesters.	Design	\$2,987,400	\$152,441	\$603,154	\$2,231,805	5.10%	8/13/2022	1/4/2023	144	4/19/2024	8/20/2024	123
B20121	Metro Biosolids Ctr Gas Detection Syst Replacement Replace the existing gas sensors with the most up-to-date gas sensors and ensure compatibility with the existing system.	Bid / Award	\$3,049,000	\$498,554	\$137,210	\$2,413,236	16.35%	8/13/2020	4/18/2022	613	12/29/2023	2/29/2024	62
B19066	SBWRP Variable Frequency Drive Repl Remove and replace two 600 HP Variable Frequency Drive and one 200 HP Variable Frequency Drive at the South Bay Wastewater Treatment Plant.	Construction	\$955,500	\$356,122	\$485,729	\$113,648	37.27%	1/29/2020	4/2/2020	64	2/1/2021	10/7/2022	613
B20122	SBWRP Reverse Osmosis System Remove two existing trailer mounted Electrodialysis Reversal (EDR) units and replace the entire EDR system with a two new slab mounted Reverse Osmosis Units.	Design	\$10,700,000	\$273,064	\$1,303,497	\$9,123,439	2.55%	9/18/2020	2/14/2023	879	9/19/2023	12/17/2024	455
B20148	NCWRP - Chiller Replacement Replace three (3) chillers and two (2) cooling towers, including the integration into the Distributed Controls System (DCS) at North City Water Reclamation Plant. This project also includes the installation of 65 Linear Feet (LF) of 12-inch Ductile Iron (DI) pipe and 35 LF of 16-inch DI pipe.	Design	\$3,000,000	\$216,965	\$18,511	\$2,764,524	7.23%	9/1/2020	9/30/2021	394	9/30/2022	6/9/2023	252

Attachment 13

Pure Water Construction Contracts Update

Schedule Data Date: August 31, 2022

21-Sep-22

Construction Package	Projected/Actual Bid Date	Projected/Actual Contractor Notice-To-Proceed	Projected Substantial Completion	Updated Engineer's Estimate	Bid Award (1)	Change Orders (2)	Total Contract	Paid to Date (2)	Construction Company
Early Sitework	October 18, 2018	May 22, 2019	July 27, 2021	\$14,500,000	\$16,403,300	\$1,184,211	\$17,587,511	\$17,282,294	Shimmick
NC Pure Water Facility & NC Pure Water Pump Station	August 7, 2020	April 19, 2021	September 18, 2025	\$455,704,000	\$356,681,930	\$977,483	\$357,659,413	\$92,344,016	Shimmick
Morena Northern Alignment & Tunnels	August 17, 2020	June 14, 2021	February 4, 2025	\$98,936,360	\$95,243,645	\$5,900,000	\$101,143,645	\$6,585,068	OHL USA, Inc
Morena Pump Station	October 21, 2020	June 14, 2021	July 14, 2025	\$109,700,000	\$110,386,350	\$339,757	\$110,726,107	\$33,970,391	Fiat Iron West
NC Pure Water Pipeline and Dechlorination Facility & Subaqueous Pipeline	November 30, 2020	June 1, 2021	December 30, 2025	\$138,010,000	\$123,456,027	\$0	\$123,456,027	\$11,610,831	W.A. Rasic Construction Company, Inc.
NCWRP Expansion & PWF Influent Conveyance	December 16, 2020	August 4, 2021	July 14, 2025	\$208,660,000	\$255,138,000	\$61,145	\$255,199,145	\$27,855,129	Kiewit Infrastructure West Co.
NC MBC Improvements	February 9, 2020	September 15, 2021	July 14, 2025	\$40,384,677	\$40,086,690	\$203,664	\$40,290,354	\$10,984,251	PCL Construction, Inc.
NCWRP EQ Basins	May 11, 2021	December 6, 2021	July 8, 2024	\$10,540,000	\$11,886,000		\$11,886,000	\$1,065,971	Kiewit Infrastructure West Co.
Morena Conveyance Southern & Middle	December 28, 2021	October 3, 2022	July 18, 2025	\$115,954,829	\$129,753,895		\$129,753,895		Sukut Construction, LLC
Miramar Reservoir Pump Station Improvements	March 18, 2022	October 7, 2022	November 1, 2024	\$10,253,000	\$12,692,000		\$12,692,000		Shimmick
				\$1,202,642,866	\$1,151,727,837	\$8,666,260	\$1,160,394,097	\$201,697,951	

1. Bid Award values are entered when Notice-of-Intent to Award has been issued.

2. Change order and paid-to-date amounts based on June 30, 2022 WIFIA report.

Attachment 17

Metro TAC Work Plan

Metro TAC & JPA Work Plan
Active & Pending Items
August 2022
Updated Items in Red Italics

Active Items	Description	Member(s)
Metro JPA AdHoc 2 nd ARA	JPA Board work group. Formed to review all items being negotiated in the 2 nd ARA prior to going to the full Board. Meets every 2-3 weeks as needed. First meeting March 16, 2022.	Jerry Jones Marvin Heinze Gary Kendrick Ed Spriggs JPA Support staff
IRWMP	JPA Members should monitor funding opportunities at: http://www.sdirwmp.org 1/21: Beth Gentry continues to give monthly TAC updates. Details can be found in minutes of each meeting.	Beth Gentry Yazmin Arellano
Exhibit E Audit	1/21: FY2019 Exhibit E audit is in fieldwork stage. JPA team reviewing SD responses to sample questions. 4/11/2022: FY2019 scheduled to complete April/May 2022; FY 2020 audit final field work completed. Owner controlled insurance program detail discussion (future). 6/13/22: FY 2021 Entrance Conference 7/14/22: FY2019 Audit received 8/22: FY2019 audit approved. OCIP meeting held.	Lee Ann Jones-Santos Karyn Keese Dexter Wilson
Industrial Wastewater Control Committee	Formed to work with San Diego on new standards for industrial waste discharge and cost allocation of same. 1/2021: SD is trying to formalize a pretreatment rate case and has hired a consultant. Monthly updates are presented at TAC and JPA. 3/16/2022: Monthly meetings to discuss the pretreatment agreement and considerations for the 2nd ARA, reviews of local limits, and the industrial user permit fees and program	Beth Gentry Interested JPA members Dexter Wilson SD Staff & Consultants
Emergency Mutual Aid Committee	Formed with the intent the sharing of resources during an emergency. First draft was completed and the next draft will be circulated for interested agencies.	Peejay Tuongbanua Steve Beppler, Yazmin Arellano, Mike James Hamed Hashemian
Phase I Financial Implementation Working Group (FIG)	This working group was formed to continue to work on Section 2.9.1 and other financial implementations issues in Exhibit F associated with the Amended Restated Agreement. 1/2021: Group will start meeting once the ARA is fully signed (January 2021) on a regular basis with a goal to complete all tasks by 1/2022. 3/16/2022: Group continues to meet every two weeks.	Karyn Keze Dexter Wilson SD staff & consultants
2 nd ARA Negotiating Team	This group was created to negotiate the 2 nd Amended Restated Agreement ARA2) which will incorporate the completed financial and other items from the first ARA. 3/16/2022: Negotiating Team meets every 3 weeks to follow through with topics raised during the First ARA.	Beth Gentry Yazmin Arellano Karyn Keze Scott Tulloch Dexter Wilson SD staff & consultants
Changes in wastewater/water legislation	NOTE: Procopio, Metro TAC and the Commission should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues.	Procopio JPA members as appropriate

Sewer Rate Comparison: Metro Participating Agencies
Single Family Monthly Rates Based on 7 HCF Water Usage
Effective January 1, 2022 for FY 2023

