METRO WASTEWATER JPA

METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, May 18, 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 May 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, May 16, 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 MetroTAC Action Minutes for the Meeting of April 20, 2022 (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **PRESENTATION:** Update on Local Limits Evaluation for the Pure Water Program (Doug Owen) (**Attachment**)
4. **UPDATE:** East County Advanced Water Purification Program (Yazmin Arellano/Mark Niemiec)
5. **DISCUSSION**: Flow Options & Draft Participating Agency Pure Water Capital Cost Comparison (Dexter Wilson) (**Attachment**)
6. **DISCUSSION**: Sanitary Sewer Management – Performance Risk and System Optimization (Mike Rosenberg) (**Attachments**)
7. **ACTION**: Recommend Approval to Send Clarification Letter to East County Advanced Water Purification (AWP) JPA Regarding Metro TAC Staff's Limited Involvement in the Financial Analysis of the East County Advanced Water Purification Project (Beth Gentry) (**Attachment** Forthcoming)
8. **ACTION**: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Following Contract Extensions for the Pure Water Program (Amy Dorman)
    A. North City Metropolitan Biosolids Center Improvements for Design and Engineering Construction Professional Services with CH2M Hill (**Attachment**)
    B. Pure Water Project Construction Document Management Software Application provided by PMWeb, Inc. (**Attachment**)

9. **ACTION**: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the First Amendment to the Agreement with the Regents of the University of California, San Diego's Scripps Institution of Oceanography, for continued support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls (Ryan Kempster) (**Attachment**)

10. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Execution of Polydyne Inc. Contracts for Mannich Polymer and Anionic Polymer (Craig Boyd/David Bryant) (**Attachments**)

11. **UPDATE:** Committee on Proposed Mutual Aid Agreement with Wastewater Agencies (Standing Item) (Peejay Tubongbanua)

12. **UPDATE:** Industrial Wastewater Control Committee (Standing Item) (Beth Gentry) (**Attachment**)

13. **UPDATE:** Metro Wastewater (Financial) (Standing Item) (Adam Jones)

14. **UPDATE:** Metro Wastewater (General) (Standing Item) (Tom Rosales)
    a. Pt. Loma Treatment Plant Road
    b. April 10, 2020 Spill Update
    c. Capital Program Master Planning Process Overview and Status

15. **UPDATE:** 2nd Quarterly Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung) (Next Update in June)

16. **UPDATE:** Pure Water Program (Standing Item) (Amy Dorman & Tom Rosales)
    A. Pure Water Construction Contracts Update
    B. Secondary Equivalency (late summer) (Tom Rosales)

17. **UPDATE:** Financial (Standing Item) (Karyn Keze)

18. **REPORT**: Integrated Regional Water Management (IRWM) Regional Advisory Committee Update (Standing Item) (Beth Gentry) (**Attachment**)

19. **ACTION**: Solicit Nominations and Recommend Approval of Metro TAC Representatives to Serve on the IRWM Regional Advisory 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 (**June 2, 2022**)

22. Other Business of Metro TAC

23. Adjournment (To the next Regular Meeting June 15, 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

MINUTES FOR THE MEETING OF APRIL 20, 2022

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

ACTION MINUTES

DATE OF MEETING: April 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
Mike James, El Cajon
Eric Minicilli, Imperial Beach
Hamed Hashemian, La Mesa
Open Position, Lemon Grove (ABSENT)
Carla Hutchinson, National City
Robert Kennedy, Otay WD
Steven Beppler, Otay WD
Paul Clarke, Padre Dam MWD
Alan Carlisle, Padre Dam MWD
Karen Jassoy, Padre Dam MWD
Jessica Parks, Poway
Peejay Tubongbanua, County of San Diego

San Diego City Staff/Consultants
Amy Dorman, City of San Diego
Adam Jones, City of San Diego
Lisa Celaya, City of San Diego
Joy Newman, City of San Diego
Jean Jordan, City of SD General Counsel

Others Present
Doug Owen, Stantec
Benjamin Stewart, Stantec
Thomas Falk, cdm Smith
Mark Elliott, Jacobs (legacy CH2M)
Sanjay Garu, Raftelis - ECAWP

Staff/Consultants Present

Nicholaus Norvell, General Counsel
Karyn Keze, the Keze Group
Scott Tulloch, NV5
Julian Palacios, NV5
Carmen Kasner, NV5
Dexter Wilson & Fernando Fregoso, Wilson Engineering
Lee Ann Jones-Santos, Treasurer
Lori Anne Peoples, MetroTAC

1. **Review and Approve MetroTAC Action Minutes for the Meeting of March 16, 2022**

ACTION: Motion by Jessica Parks 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 April 7th Metro JPA meeting they heard and the 5-Year PUD Projections as presented by Adam Jones of San Diego; added additional modifications to the Metro JPA Bylaws to include the requirement for any item a member wants to add to a future agenda be supported by at least 2 members; an increase in the number of per diems to be provided for meeting attendance by members due to the increase for the 2nd ARA Ad Hoc Committee. General Counsel Norvell to make the corrections and bring back to the next meeting; heard the presentation on the Pure Water Phase 2 Cost split and approved it unanimously. Dexter, Karyn, and Adam Jones among other San Diego staff worked very hard to set the foundation for the cost split and San Diego is moving forward to implement it which is much appreciated; heard Tom Rosales' update on the 4/2020 Spill wherein the Regional Board requested an environmental assessment of the spill area. They have hired Dudek to do the assessment.

Last but not least, in being as transparent as possible on the negotiating process, Beth provided the following updates:

- 3/24/22: Pretreatment Agreement - *discussion at 3/16/22 TAC*
- 3/24/22 & 4/14/22: Pure Water Phase II Metro Flow Options Discussion (41.5 vs 53 mgd) to be presented at this meeting as Item 8, right after the budget
- 3/16/22: Pure Water Program Phase II Cost Split - *approved at 1/19/22 TAC*
- 3/16/22: Capital Expense Rate and Cap Determination: Clarifications to the Amended and Restated Agreement, Exhibit F, Section V - *approved at 11/17/21 TAC*
- *4/14/22:* Metro flow capabilities (existing and future) – Part of this was to provide background to the Ad Hoc committee but the discussion was valuable and will likely be a presentation at the May TAC meeting. It should help new members with background as well as a solid foundation for understanding proposed ARA amendments.

And noted that the standard updates and presentations that were elevated from TAC were completed.

3. <u>UPDATE</u>: List of MetroTAC Contacts

MetroTAC Chair Gentry noted that only 3 PAs had submitted information on their updated contact list and that it was most important to get the TAC representative contact information as meeting links will only go to the primary and alternate representative. She requested information be provided to Lori by April 30th.

4. <u>ACTION</u>: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Metro Wastewater Joint Powers Authority Treasurer's Report for Eight Months Ending February 28, 2022

Treasurer Lee Ann Jones-Santos provided a verbal overview of the report included in the agenda package. She identified the overages and trends that lead to change orders through year end and the introduction to financial needs for 2 of the current contracts which will be addressed in the next item. She emphasized that even with these the JPA budget is projected to stay within the approved amount.

ACTION: Motion by Robert Kennedy, seconded by Jessica Parks, to approve the Metro Wastewater JPA Treasurer's Report for the eight months ending February 28, 2022. Motion carried unanimously.

5. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JP Approval of the Following Budget/Contract Amendments Relating to the FY 2022 Budget Year

Nick presented both items as they are interrelated. Karyn commented on the cost factors which are causing both she and Dexter to potentially exceed their contract amounts by the end of FY2022: compression of 2nd ARA work items as the ARA was not signed until September 2021 and some of the items were to have been completed in FY2021 (which ended June 20, 2021); inclusion in the current Metro rate study and meetings associated with selecting the consultant and bi-weekly work meetings; additional cost allocation work on the PWP CIP contracts as they have been bid over the past year, especially the North City expansion project. One vote taken for both

a. Budget Adjustment and Contract Amendment for the Professional Services Agreement with Dexter Wilson Engineering for Engineering Services

b. Budget Adjustment and Contract Amendment for the Professional Services Agreement with The Keze Group, LLC for Financial Services

ACTION: Motion by Hamed Hashemian, seconded by Joe Bride, to approve the contract amendments for Dexter Wilson Engineering and the Keze Group, LLC. Motion carried unanimously.

6. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of a Change in Key Personnel for Performance of Services for the Professional Services Agreement with NV5 as Referenced in the April14, 2022 Letter from Julian Palacios

TAC Chair Gentry reported on this change of personnel for the upcoming FY2023 NV5 contract. Beth has worked with Julian on several Chula Vista projects and has been favorably impressed. Scott Tulloch will continue in his role as staff to the JPA with no changes anticipated. She then personally thanked Carmen for the help she provided regarding the TAC and JPA and stated that although she and TAC were happy to welcome Julian, Carmen would be missed.

ACTION: Motion by Hamed Hashemian, seconded by Jessica Parks, to recommend approval to the Metro JPA. Motion carried unanimously.

7 ACTION: Consideration and Possible Acton to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Following Budget/Contract Items Relating to FY 2023 (All of the following items will be approved in one motion)

Karyn Keze provided an overview of the item noting that there will be a presentation on each item. She stated that they will be changing/simplifying the contracts by executing them as 4-year versus annual and are recommending the use of reserves to even out the budget. Additionally, she noted that in past budgets the amounts only showed portions being paid for the Board Secretary and Phase 2 ARA Facilitator due to their having contracts with the City of San Diego as well for portions of their payments. The full amount will now be reflected in the budget. With the change to multi year contracts with the consultants, they will all expire at the same time and not need to be rewritten each year which saves time in the preparation of the entire budget.

General Counsel Norvell explained the concept of how the 4-year contracts will work. The scope of work and tasks will be provided for 4-years and will be a not to exceed amount. The JPA members can then focus on the budget and not the routine contracts as in the past. They will still have the flexibility to continue or cancel the contracts and authorize increases in hourly rates by change in the San Diego COLA.

a. FY 2023 Metro Wastewater JPA Budget

Karyn Keze provided a PowerPoint presentation which contained the FY 2023 budget trends and changes in the budget format. She explained a graphic which shows the uses of reserves in offsetting the full JPA Budget amount since FY 2017 through FY 2026 (projected). The FY 2023 JPA budget is $628,455 which is higher than the average of $400k shown mainly due to one-year expenses for Procopio and Paul Brown for work on the completion and implementation of the 2nd ARA by the end of FY 2023. In addition, FY 2023 is the year for the next JPA Audit, which happens every two years. Also, a one-time budget is included for potential website architecture expenses. It is proposed that excess reserves are used to lower the total billing to JPA members to $398,082 to stay in line with the average JPA budget amount for FY2024 to FY2026 of $400k.

b. Professional Services Agreement with The Keze Group, LLC for Financial Management Services for FY 2023 through FY 2026

MetroTAC Chair Gentry reviewed the Scope of Work for the Keze group as included in their draft proposal. The financial services scope is divided into six major categories, one each for: routine JPA services; participation in the

annual “Exhibit E” audit; oversight of the Public Utilities Department (PUD) annual O&M and CIP budget preparation and cost allocations to the PA’s, and five-year forecast; review of PUD’s rate case(s); Pure Water Program support; and Metro TAC and JPA technical staff support. The FY 2024 to FY 2026 NTE is budgeted at $100,000 per year, which is based on the existing level of effort for FY 2022.

c. Professional Services Agreement with NV5 for Engineering Services for FY 2023 through FY 2026

Karyn Keze provided a review of the NV5 contract. The NTE amount remains unchanged from FY 2022 at $30,000/year and is based on the current level of effort. The primary consultant to the JPA from NV5 is Scott Tulloch, with other engineers brought in as needed if special projects arise. In the past NV5 engineers assisted the PAs in negotiations on the Transportation Contract(s) increases proposed by the City of San Diego.
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d. Professional Services Agreement with Dexter Wilson Engineering for Engineering Services for FY 2023 through FY 2026

Karyn Keze summarized the scope of work which is an engineering parallel to the financial services she provides. Dexter Wilson has provided valuable engineering justifications for the change in the 50/50 cost split, the Phase 2 cost allocations, and has saved the PA’s millions of dollars in recent negotiations on the cost allocation for the PWP North City Expansion Project. The FY 2023 to FY2026 NTE amount of his contract is $141,700 annually and is based on the current level of effort for FY 2022.

Dexter spoke regarding things he was doing on Phase 2 design work and noted his time working with the JPA, Karyn and Beth trying to move the JPA into a situation to have more of an agency feel. He therefore is getting more involved and continues keeping an eye on the JPAs behalf.

e. Professional Services Agreement with Granicus for Website Hosting Services for FY 2023 through FY 2026

General Counsel Norvell presented the website hosting contract for Granicus, the current service provider. The four-year NTE amount is $3,305 annually. The contract does provide that the JPA can change vendors should they so choose during that time.

f. Amendment to Agreement for Administrative Support Services with Lori Anne Peoples for FY 2023 through FY 2026

General Counsel Norvell reviewed the various components of the Board Secretary’s proposed contract. The general terms of the agreement remain the same as past contracts with only financial changes. A position survey was performed of Metro PA Board Secretary’s and City Clerk’s to establish a

market-value hourly rate for this position. The average of survey was $68 per/hour. Nick also noted that if just a COLA was applied the increase from the past $55/hour would be $63. The Budget Work Group is recommending $70/hour plus annual COLA adjustments for the four-year term.

g. Reimbursement Agreement with the City of San Diego for Administrative Support Services with Lori Anne Peoples for FY 2023 through FY 2026

General Counsel Norvell provided an overview of the reimbursement agreement with the City of San Diego. San Diego reimburses the Metro JPA for the time and expenses related to the Board Secretary's support of the Metro Commission and Metro TAC agendas and meetings. This reimbursement will be shown as offsetting revenue to the Metro JPA budget this year.

h. Professional Services Agreement with Paul Redvers Brown, Inc. for Facilitator Services for FY 2023

Karyn Keze reviewed the contract with Paul Brown. The Metro JPA entered a one-year contract with Paul Brown for facilitation services for the 2nd ARA for FY 2022. The 2nd ARA will not be completed in FY 2022 and thus a new one-year contract is needed. The contract is identical in terms and dollar amounts as the FY 2022 contract.

i. Reimbursement Agreement with the City of San Diego for Facilitator Services with Paul Redvers Brown, Inc. for FY 2023

General Counsel Norvell and Karyn Keze provided the overview of this agreement. The City of San Diego reimburses 70% of the costs for Paul Brown's contract. This reimbursement will be shown as offsetting revenue to the Metro JPA budget this year. This was reviewed by NN/KK.

j. Agreement with CliftonLarsonAllen LLP for Audits of Metro JPA for FY 2020 and FY 2021

Karyn Keze and Treasurer Lee Ann Jones-Santos reviewed the auditor's contract. CLA has been the Metro JPA's auditor in the past and Lee Ann, as the current Treasurer, is recommending that they be retained for the upcoming two years audit of FY 2020 & FY 2021 which will be performed during F Y2023. The terms and NTE dollar amount are the same as in the last audit.

ACTION: Motion by Joe Bride, seconded by Jessica Parks, to approve Items 7a-7i to be moved forward to the Metro JPA. Motion carried unanimously.

8. DISCUSSION: Pure Water Phase 2 Metro Flow Options

Dexter Wilson stated that his presentation was purely for information. In the coming months his committee will be bringing back items related to this and decisions will need to be made. What is being presented today is draft information subject to change and it is expected in May they will have ECAWPs information. The goal is to begin to get TAC to understand the issues being dealt with in the ARA negotiations. There is a need to define capacity rights in the metro system as part of the ARA and as part of Revised Exhibit C and the revised billing system. He then provided an overview of his first slide (included in the agenda package) which was titled "Paths to Meeting/Exceeding OPRA Regional Goals (83 mgd)." He noted that in those discussions it had become apparent that there were 4 possible paths forward that the slide is showing as A, B, C and D. There are no commitments from the City as to how they are going to proceed or from ECAWP on how they may or may not proceed. Both projects seem to be on a course that they are going to proceed. Path A is where the City is proceeding with 30 mgd as they are now for Phase 1 pure water, the ECAWP is proceeding with 11.5 mgd and then City Phase 2 goes forward at 41.5. They have very draft numbers that they are putting on these different projects as reflected on the slide. The total would be $5.2 B. He noted that the cooperative agreement requires us to produce and deliver 83 mgd of portable water in order to get support for our continued secondary equivalency or waiver. Path B is where the ECAWP does not go forward and the City builds their Phase 1 project are currently doing with 33 mgd and then does a Phase 2 for 53 mgd. This is the least expensive overall path forward if you do not assign a value to the water produced. Path C produces 95 mgd and is water driven project because the value of the water is greater than the cost of the project would provide a reason to pursue it, among other reasons. It has a City Phase 1 at 30 mgd, City Phase 2 at 53 mgd and ECAWP at 11.5 mgd. This would be the most expensive from a capital perspective for the region going forward without consideration of the value of the water. Path D is a hybrid of the City going forward with Phase 1 at 30 mgd, City Phase 2 at between 41.5 and 53 mgd and the ECAWP could be11.5 mgd.

Scott Tulloch added that the idea of any of the upstream PAs developing their own pure water program capacity and have that count towards the 83 mgd has been a part of the pure water program and the secondary equivalency legislation since the beginning. There are different versions of the OPRA II Draft legislation that is still awaiting approval from Congress, but essentially they all include specific language that the upstream dischargers would count towards the total mgd and the Cooperative Agreement supports this as approved by the local Environmental Groups and lastly the ARA also contemplates that specifically calling out Padre Dam.

Dexter then stated that there were 2 issues currently being worked on by the committee:

1. How does East County guarantee their contribution to the 83 mgd to the City of San Diego in a way that the City is comfortable with. Thoughts were that a residuals agreement was a big step towards that , the JPA is not a party to that agreement it is between Padre Dam Municipal Water District and the City of San Diego, and

2. If it is decided to pursue 95 mgd, what is the obligation of the PAs to participate in the full 95 mgd? The committee is starting to look into that and currently does not feel they have a specific requirement to participate beyond 83 mgd but the City has a slightly different opinion on that.

Dexter then presented the slide titled “Pure Water Capital Cost Comparison” which had the detail that the prior numbers came from. They were based on information provided by the City and ECAWP. It is an attempt to quantify the different costs for the different alternatives splitting out the water and sewer costs. The sewer costs on some of the alternatives appear to approach the cap but not the inflated/alternative cap.

Blake Berringer clarified all costs until they figure which path they choose and what the actual percentage will be for each jurisdiction, this still does not give any indication of what the cost per PA would be. Dexter stated this was correct. Blake then inquired as to what Dexter perceived as the next steps. Dexter replied that his understanding was in May the ECWAP would have a final cost ceiling number and would make a decision to move forward or not and with that information, they could take what is in the charts and start trying to develop a cost per PA number. There would be very good numbers from the City from 1st Phase and from ECWAP and they would only be using projections from Phase 2 and could then make an assumption as to who would be paying for the ECWAP and who would not be paying for pure water facilities built by the City and start breaking it down by the individual PAs and could probably be put out in June.

Lisa Celaya of San Diego inquired if to get to each PAs impact under each alternative, Dexter would be building off of the peak capacity as a primary factor.

Dexter responded that all plants were average capacity plants so he felt the capital costs would be split on average but the own in would have to have peak in them and that once he goes to the next level of evaluation, it will get very, very complicated. He was open to hearing other ideas from San Diego. He will have to come forward with 2 splits, one based on an audited year of flows without the East County participating agencies and split it based on that and another one based on the proposed capacity rights otherwise it would be based on flows and strengths.

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

Committee Chair Peejay Tubongbanua stated that the committee was still working on the draft agreement and projected completion has slipped a bit due to limited resources, but they are hoping to get the draft out early next month for review prior to having their third meeting with the suggestions received being incorporated.

10. UPDATE: Industrial Wastewater Control Committee

MetroTAC Chair Gentry stated that the Local Limits presentation had been pushed tentatively to May 10th. She then reminded the members that San Diego will begin invoicing July 1, 2022 at the new rates to individual dischargers and that pretreatment agreement discussions were on-going.

11. UPDATE: Metro Wastewater (Financial)

- Audit Status

  Adam Jones, City of San Diego stated that he had spoken with MGO earlier this week and the final audit was still at the final partner review and they anticipate they will issue their final opinion within the next week which will kick off the refund and billing process that comes after the audit process is done.

- Budget Item Line Item Follow Up: Startup/O&M
  - Example of Stantec of Task Order Item
  - General Examples

Adam then stated that in January when the City of San Diego released the billing estimates for the JPA related to the 2023 budget, the Chair and Vice Chair requested additional Information on the pure water O&M costs reflected in Table D. He then provided a side titled "Sources for Metro Pure Water O&M Budget Estimate, with updated numbers from Preliminary Budget" and noted that table provided the budgetary costs based on flows, suspended solids and chemical oxygen demands. The question was on the $11.2M that was included in for pure water O&M and how the City calculated that. They provided a preliminary update at the last TAC and then met with the Chair and Vice Chair to provide additional information. He then provided an in depth overview of his presentation (copy attached to the agenda), including Note 9 – Pure Water Program costs and how they are included in the audit. He used the costs provided by STANTEC and examples of task orders issued and how the cost distribution was being made.

Steve Beppler thanked Adam for providing the clarification.

Beth also requested the item be a topic for the negotiating team to see if there were any clarifications that could be included in the 2nd ARA and Adam was accepting of this and the potential expansion on the current definitions in the ARA..

12. <u>UPDATE</u>: Metro Wastewater (General)

Adam Jones provided a brief update for Tom Rosales who was not present.

a. Pt. Loma Treatment Plant Road

Adam advised that the site monitoring is still underway and the city's budget includes funds for the site survey as well as traffic control expenses. The new estimates will be compiled to determine what needs to be done to keep the road access inclusive of negotiating with State and Federal Agencies .

b. April 10, 2020, Spill Update

There was no spill update.

c. Capital Program Master Planning Process Overview and Status

The City's consultant for the Master Plan Update is working through integrating the master plan update. Tom will expand at the next meeting.

d. Secondary Equivalency

OPRAII is still currently available and up to debate and there are still opportunities to get it passed and we are hoping the City's Government Affairs Team will provide

updates.

13. UPDATE: Quarterly Metro Capital Improvement Program and Funding Sources

The next quarterly update will be provided in June.

14. UPDATE: Pure Water Program

a. Pure Water Construction Contracts Update (the next quarterly update will be presented in July)
b. General Update

Amy Dorman, City of San Diego, was having technical difficulties so this item will be carried forward to the next meeting and Amy will provide Lori with key information to send to the TAC members.

15. UPDATE: Financial

Karyn Keze thanked the MetroTAC members for approving the budget. She then advised that the field work for FY 2020 audit had been closed out and the FY 2019 audit should be forthcoming to start the reconciliation.

16. REPORT: IRWMP Update

MetroTAC Chair Gentry provided the following update:

The last SD IRWMP meeting was April 6, 2022. Topics discussed were as follows:

1. SD Regional Drought Update
2. Wildfire Panel
3. Project Completion report
4. Prop 1 Round 2 OPEN for applications $16M available. Project must be in SDIRWM Plan and includes a 50% local match unless it's disadvantaged.

Dates –

- Open for submission in OPTI even though the PSP are still in draft. This allows for applicants to have more time to submit.
- May 2 workshop
- May 13 closed for applications

Scoring – (link to weighting)

- Heavily weighted to multiple benefits/objectives, collaboration, and climate change as well as disadvantaged communities (not just economically but historically). Great for all the reuse projects that are being done. In the past PWP received funding.
- Panelist representing our group: Water Quality is the RAC member from the City of Oceanside. For panel members with projects, they have to recuse themselves from voting on their project.

She then stated that more information was available on the SDIRWM website and provided it:

https://www.sdirwmp.org/regional-advisory-committee

MetroTAC Chair Gentry then stated that with the new responsibilities of TAC Chair, she would like to focus more the chair role especially with the 2nd ARA. She would therefore like to open this position up for another TAC member to take on. Meetings are every other month for 2 hours. Part of the regional planning effort is distributing funding which can be an incentive for some. She also stated that Yazmin would like to step out as Alternate to this committee. She requested anyone interested contact her.

17. REPORT: MetroTAC Work Plan

Chair Gentry noted that the MetroTAC Work Plan was attached to the agenda, and will be updating this monthly. Karyn has also updated the PA sewer rates.

18. Review of Items to be Brought Forward to the Regular Metro Commission/Metro Wastewater JPA Meeting May 5, 2022

Chair Gentry noted that Items 4, 5, 6 and 7 would be moving forward to the Metro JPA.

19. Other Business of MetroTAC

MetroTAC Chair Gentry noted that the deadline for the ARA Amendment is fast approaching so the TAC meetings are going to be closer to 2 hours in length as the approved plan is to now bring an item for presentation and discussion prior to taking action to move it forward.

20. Adjournment to the Next Regular Meeting May 18, 2022

There being no further business the meeting was adjourned at 1:04 p.m.

ATTACHMENT 3

UPDATE ON LOCAL LIMITS EVALUATION FOR THE PURE WATER PROGRAM

Pure Water Program
Local Limits Study Update

Metro Wastewater TAC Meeting

May 18, 2022

The City of SAN DIEGO

Agenda

- Overview
- Pollutants of Concern (POC) and Preliminary Maximum Allowable Headworks Loading (MAHL)
- Next steps and Schedule
- Q&A

Overview

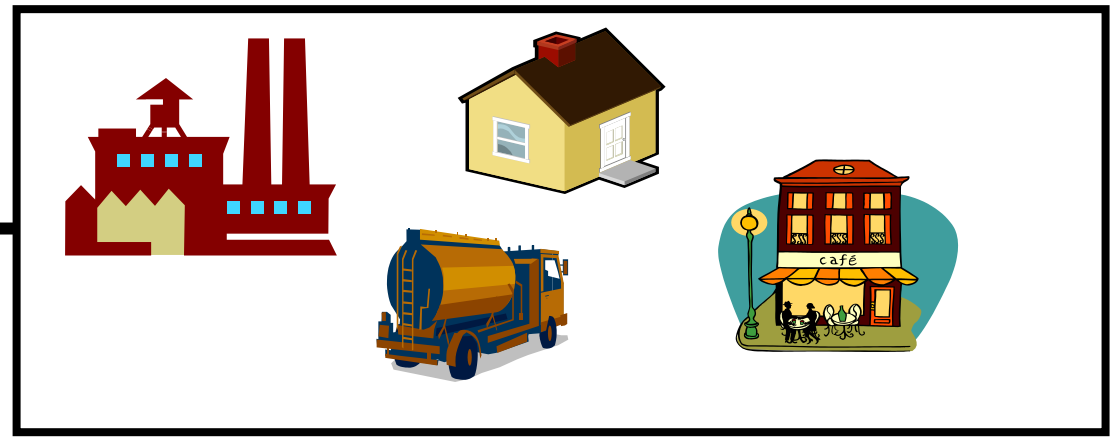
Local Limits and Pure Water Program Implementation

"The Discharger must submit an Enhanced Local Limits Study to DDW and the San Diego Water Board prior to the start of the diversion of flow via the Morena Pump Station. The enhanced local limits study must include the current sewershed plus the area tributary to the Morena Pump Station…The study will be updated annually."

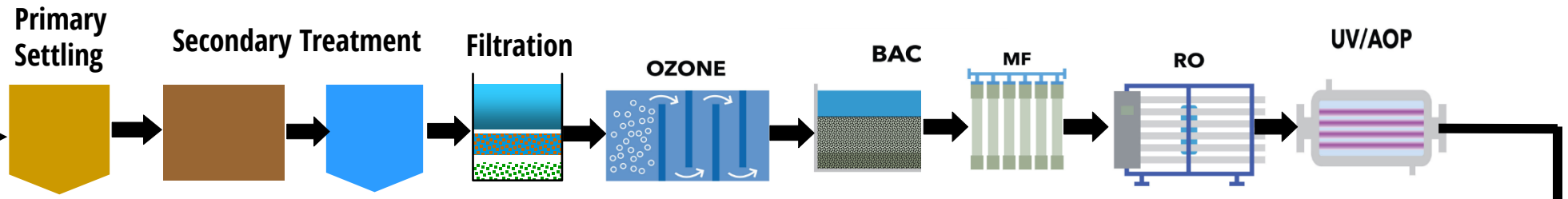
Waste Discharge Requirements for the North City Water Reclamation Plant and Pure Water Facility NPDES No. CA0109398, Section VI.C.5.d.viii

Conceptual Approach to Determining Local Limits

Allocate Load (as needed)



Assess Removals



Determine Potential Pollutants of Concern

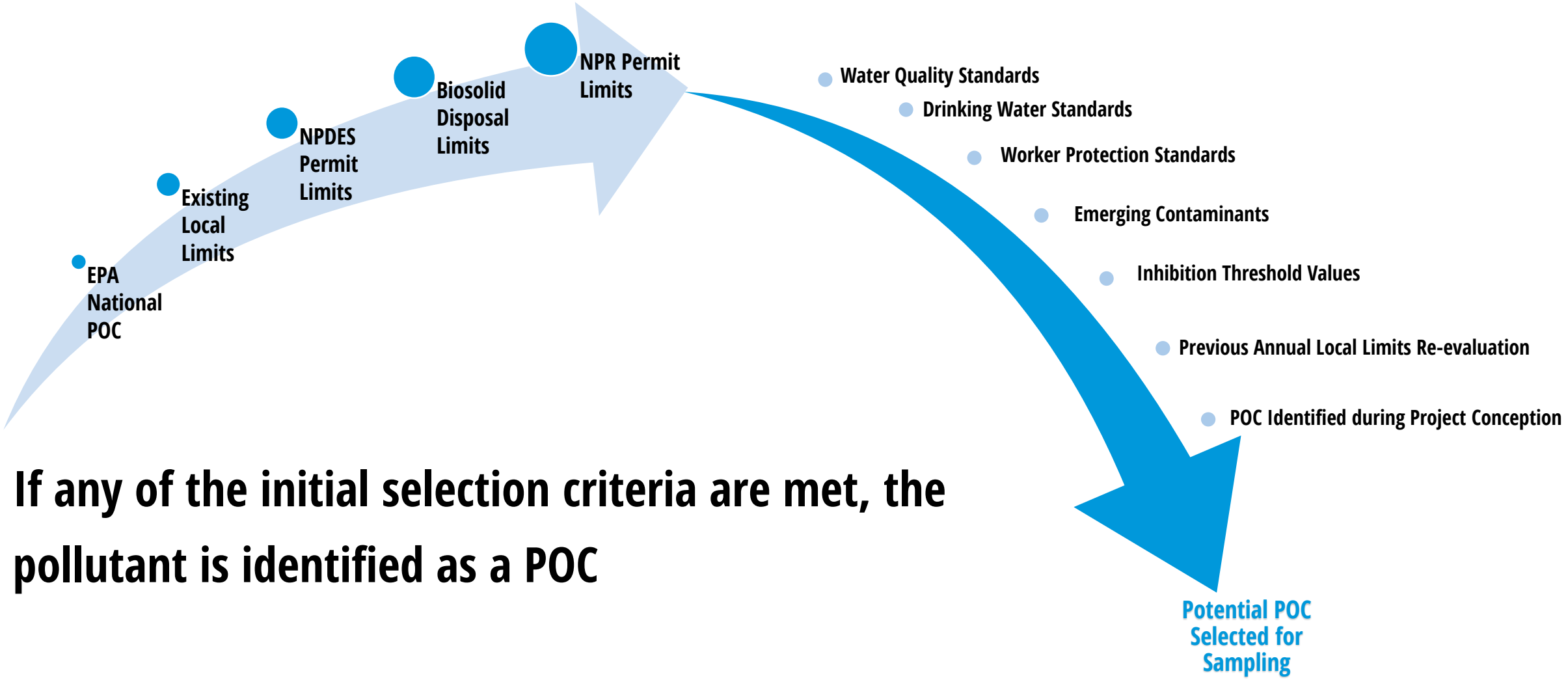
Two-Phased Approach

- **Stage 1**
  - *POC screening and sampling*
  - *Calculate AHLs and MAHLs*
  - *NCWRP/NCPWF future scenarios*

- **Stage 2**
  - *Local limits sampling*
  - *Re-Calculate MAHLs*
  - *Develop and implement an allocation strategy for dischargers*

POC and Preliminary MAHL

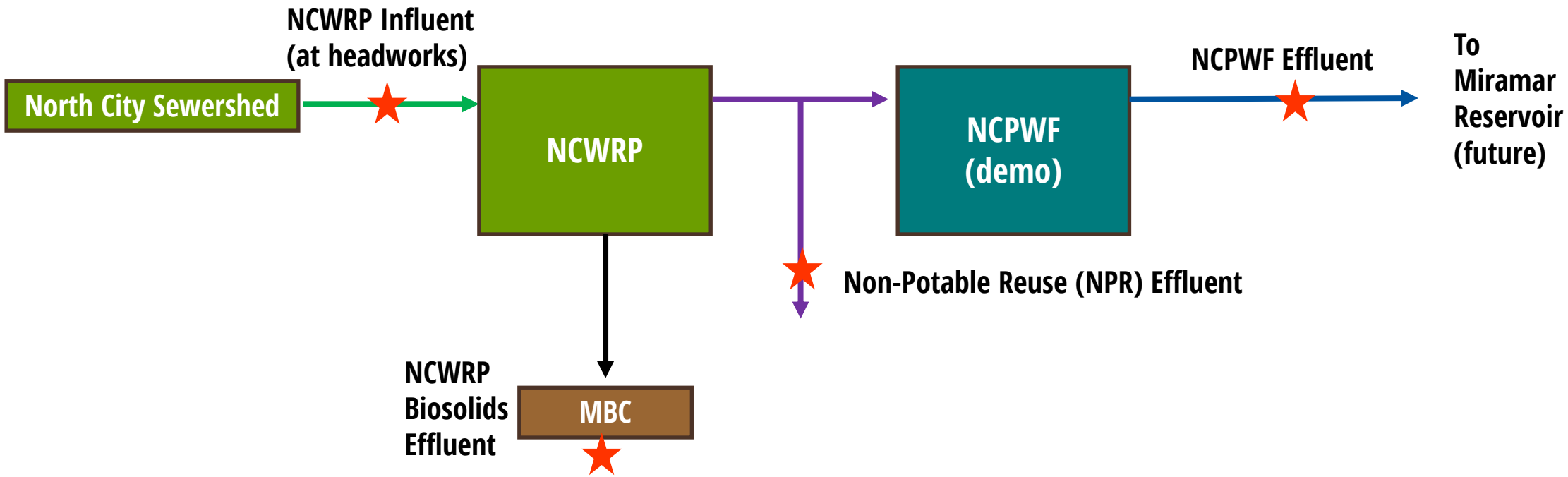
POC Roadmap for Initial Selection



If any of the initial selection criteria are met, the pollutant is identified as a POC

North City Sampling Locations

- **To fill in data gaps, Stage 1 sampling occurred at these locations**



Additional POC Screening After Data Are Collected

NCWRP Influent (includes Sewer System Samples in this Study)

Max influent concentration:

~Greater than the worker protection value?

~Greater than 1/500th of the Biosolids Criteria?

~Greater than 1/4th inhibition thresholds for composite and ½ for grab samples?

NCWRP and NCPWF Effluent

Max effluent concentration:

~NPR effluent- greater than ½ NPR Limits?

~NCPWF effluent- greater than ½ WQS or DWS?

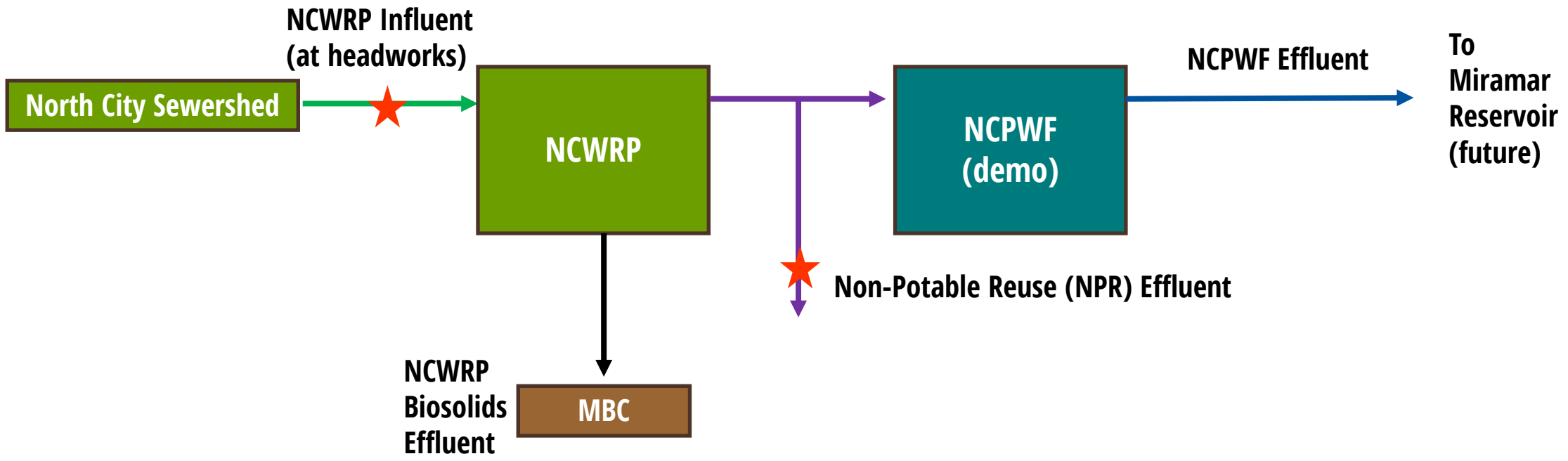
MBC Biosolids

Max Biosolid concentration:

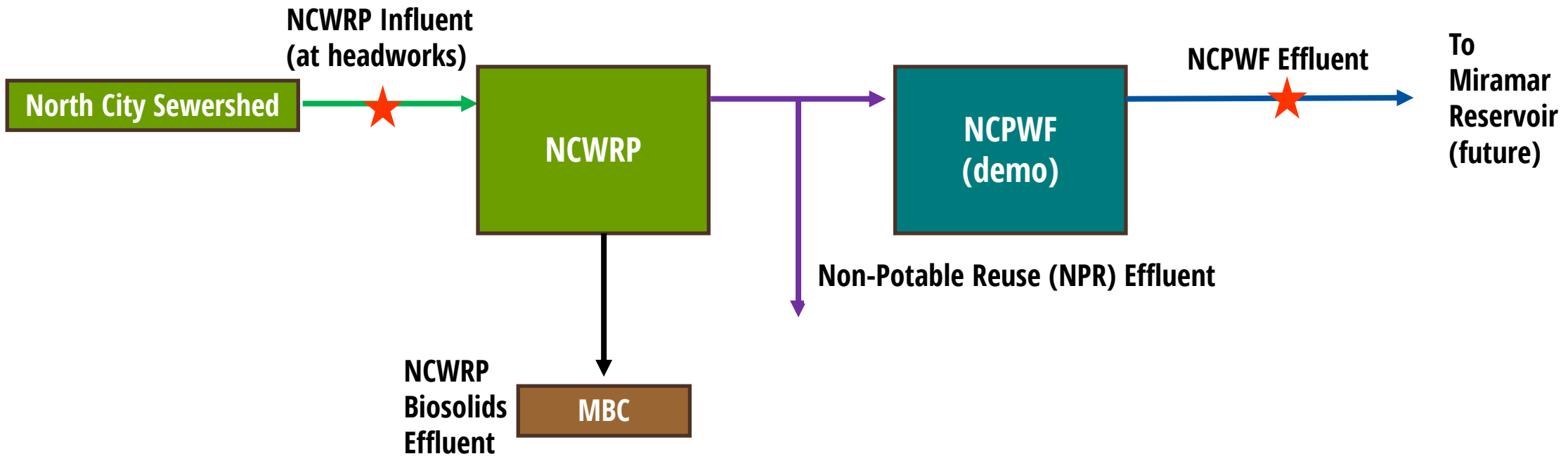
~Greater then biosolids criteria?

If any of the additional selection criteria are met, the pollutant is identified for preliminary headworks analysis. POCs not identified as meeting these criteria are screened out of Stage 2.

Calculated Removal Efficiencies – NPR Effluent



Calculated Removal Efficiencies – NCPWF Effluent



Preliminary Allowable Headworks Loading (AHL)

- **Allowable Headworks Loading (AHL) is an estimate of upper limit of pollutant loading that can be accepted at the head of a POTW without causing pass-through or interference:**
  1. *Calculate removal efficiencies*
  2. *Calculate an AHL for each applicable environmental criterion*
  3. *Designate the most stringent AHL for each POC as the Maximum Allowable Headworks Loading (MAHL)*

- **43 POCs selected for Stage 2 additional sampling**
  - *18 based on AHL*
  - *25 based on other criteria*

The AHL/MAHLs discussed in this presentation are preliminary

Selected POCs for Stage 2 Analysis – Based on AHL

POCs	Rationale
Biological oxygen demand (BOD)	NPR Effluent and NCPWF Effluent
Total Suspended Solids	NPR Effluent and NCPWF Effluent
Phosphorus, Total	NPR Effluent and NCPWF Effluent
Total Kjeldahl Nitrogen	NPR Effluent and NCPWF Effluent
Chloride	NPR Effluent and NCPWF Effluent
Cyanide	NPR Effluent and NCPWF Effluent
Boron	NPR Effluent
Iron	NPR Effluent
Manganese	NPR Effluent
Sulfate	NPR Effluent
Total dissolved solids (TDS)	NPR Effluent
Ammonia	NCPWF Effluent
Total Nitrogen	NCPWF Effluent
1,2,3-Trichloropropane	NCPWF Effluent
bis(2-Ethylhexyl) phthalate	NCPWF Effluent
Benzo(a)pyrene	NCPWF Effluent
Perfluorooctanoic Acid (PFOA)	NCPWF Effluent
Perfluorooctanesulfonic Acid (PFOS)	NCPWF Effluent

Selected POCs for Stage 2 Analysis – Other Rationale

POCs	Rationale
Formaldehyde	Worker Protection Value Exceedance
Radium-228	Removal Efficiency Issue
Bromate	Stage 1 Lab Missed Method
Bromide	Stage 1 Lab Missed Method
Chlorate	Stage 1 Lab Missed Method
Chlorite	Stage 1 Lab Missed Method
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	Stage 1 Lab Missed Method
2,4,6-Trinitrotoluene (TNT)	Stage 1 Lab Missed Method
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	Stage 1 Lab Missed Method
Perchlorate	Stage 1 Lab Missed Method
Specific conductance	Stage 1 Lab Missed Method
Arsenic	EPA National POC for Local Limits
Cadmium	EPA National POC for Local Limits
Chromium	EPA National POC for Local Limits
Copper	EPA National POC for Local Limits
Lead	EPA National POC for Local Limits
Nickel	EPA National POC for Local Limits
Mercury	EPA National POC for Local Limits
Nickel	EPA National POC for Local Limits
Silver	EPA National POC for Local Limits
Zinc	EPA National POC for Local Limits
Organic Nitrogen	Nitrogen-Based
Nitrate (as N)	Nitrogen-Based
Nitrite (as N)	Nitrogen-Based
Oil and Grease	Current Limit Confirmation

Next Steps & Schedule

Schedule and Next Steps

- Draft Stage 1 TM to City by end of May 2022
- Draft Stage 2 Sampling Outline to City in June 2022
  - *Present to regulators by end of June 2022*
- Final Stage 1 TM to City in July 2022
- Draft Stage 2 PSMP to City in July 2022
  - *Completed JPA review by early September 2022*
  - *Present to Regulators by mid September 2022*
- Final Stage 2 PSMP to City in October 2022
- Stage 2 sampling expected to start by end of Q4 2022

Questions

ATTACHMENT 5

FLOW OPTIONS & DRAFT PARTICIPATING AGENCY PURE WATER CAPITAL COST COMPARISON

Paths to Meeting/Exceeding OPRA Regional Goal (83 MGD)

Figure 1

DRAFT ($750 Million East County AWP)

Pure Water Sewer Capital Cost Comparison Table (4/27/2022)

1	2	3	4	5	6	7
Agency	With ECAWP			Without ECAWP	Difference (Cost)	Difference (Percentage)
	Pure Water Cost	ECAWP Cost	Total	Pure Water Cost		
Chula Vista	$198.18	$0.00	$198.18	$196.16	$2.02	1.02%
Coronado	$19.52	$0.00	$19.52	$19.32	$0.20	1.02%
Del Mar	$0.34	$0.00	$0.34	$0.33	$0.00	1.03%
East Otay Mesa (County)	$18.57	$0.00	$18.57	$18.38	$0.19	0.99%
El Cajon	$8.42	$141.49	$149.91	$80.71	$69.20	1.03%
Imperial Beach	$23.90	$0.00	$23.90	$23.65	$0.25	46.16%
La Mesa	$47.82	$0.00	$47.82	$47.32	$0.50	1.05%
Lakeside/Alpine (County)	$2.59	$88.94	$91.53	$45.47	$46.06	1.05%
Lemon Grove	$23.64	$0.00	$23.64	$23.39	$0.25	50.32%
National City	$48.31	$0.00	$48.31	$47.81	$0.50	1.05%
Otay Water District	$7.75	$0.00	$7.75	$7.68	$0.07	1.03%
Padre Dam	$7.52	$36.38	$43.91	$26.59	$17.31	0.85%
Poway	$31.65	$0.00	$31.65	$31.33	$0.32	39.43%
Spring Valley (County)	$63.78	$0.00	$63.78	$63.12	$0.66	1.03%
Wintergardens (County)	$0.75	$18.19	$18.94	$9.75	$9.19	1.03%
San Diego	$1,191.30	$0.00	$1,191.30	$1,179.19	$12.11	1.02%
Total	$1,694.04	$285.00	$1,979.04	$1,820.20	$158.84	1.02%

All costs are in millions of dollars

Assumptions

1. All agency cost splits are based on information contained in Exhibit G to the Revised and Amended Wastewater Disposal Agreement.

2. All cost represented are for 83 MGD of Pure Water capacity. This includes Phase 1 and Phase 2 of the Pure Water Program. The wastewater share is assumed to be 38% of the total project cost.

3. The cost to build the East County AWP project was obtained verbally from AWP participants. This does not reflect cost offsets provided by water sales revenues and incentives.

4. The cost for the City of San Diego Pure Water Phase 1 were obtained verbally from the City of San Diego and the cost for the Phase 2 project were from the Stantec Phase 2 refinement study as presented at the 1/19/22 Metro TAC Meeting.

5. Water revenues are not considered in this comparison.

6. For basis of City of San Diego cost assumptions see https://www.sandiego.gov/sites/default/files/pb_v3pud.pdf (pg 259 and 305) and https://www.metrojpa.org/Home/ShowDocument?id=3769 (page 11 on).

7. For information regarding figures presented for the East County AWP project, please refer to the memo from Padre Dam dated May 10, 2022.

PADRE DAM
Municipal Water District

May 10, 2022

Beth Gentry
Metro TAC Chair
City of Chula Vista

Dear Beth,

At the May 5th, 2022 Metro Commission/Metro JPA meeting, Dexter Wilson shared an analysis that allocated capital costs for Pure Water between wastewater beneficiaries and water beneficiaries, based on the updated proportional benefit to each utility (i.e. 38% wastewater, 62% water). We believe this analysis is meant to show the allocation of total regional capital costs to reach the 83 MGD potable reuse target consistent with San Diego City Council's Resolution No. 308906 and memorialized in the 2014 Cooperative Agreement in Support of Pure Water (Cooperative Agreement), the proposed OPRA 2 federal legislation, and the City's 301(h) waiver under the Clean Water Act. We understand that another table will be distributed to Metro TAC today based on the prior analysis in order to show an assumed "cost" of the East County Advanced Water Purification (AWP) Project to each of the Metro JPA member agencies. We would have liked to have time to review and provide input for these analyses. In the absence of that, we appreciate the opportunity to address some high level issues and concerns we have.

The information presented on May 5th included three scenarios. The first and the third scenarios showed the East County AWP Project as a regional contributor towards the 83 MGD target. In the first scenario, AWP allowed Pure Water Phase 2 to be downsized to 41 MGD from 53 MGD. The third scenario showed Pure Water sized to provide 11.5 MGD over the required 83 MGD. The first scenario showed a substantially lower total cost to the City and PAs than the third. The AWP JPA agencies completely agree with that conclusion. The AWP JPA is building 11.5 MGD of potable reuse, eliminating the discharge of 15 MGD of wastewater from the Point Loma Ocean Outfall, so that the Region will meet the 83 mgd requirement. In fact, this was contemplated in the 2014 Cooperative Agreement with environmental organizations:

> "to the extent potable reuse is permitted by federal and state regulatory agencies, at least 83 million gallons per day of water suitable for potable reuse on an annual average will be produced by December 31, 2035, *from wastewater in the applicant's wastewater system and wastewater systems connected to the applicant's wastewater system"*

While we agree that the "total cost" of Scenario 1 is less than Scenario 2, the use of the analysis for any other purpose is extremely limited and provides a highly inaccurate picture of the comparative cost of AWP to Metro. The cost to build the AWP Project is not a Metro JPA cost.

East County AWP is a comprehensive wastewater and water supply reliability solution for our ratepayers and has a completely different financial structure than displayed in the analysis. The information presented at Metro JPA and Metro TAC gives the incorrect impression that the Metro System (including the City of San

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PADRE DAM
Municipal Water District

Diego and all of the Participating Agencies) are responsible for the capital costs for the East County AWP project; that is not the case. The AWP project will be paid by East County ratepayers. The cost will be offset by revenue from water sales, grants, and other financial incentives. In addition, the JPA has negotiated extremely favorable financing which offsets the ultimate cost for its ratepayers. We believe that any future information presented to Metro JPA, Metro TAC, and the individual Participating Agencies should focus on Metro System costs. This approach will not only ensure that there is no misunderstanding as to who is responsible for costs of the East County AWP project, but will also more clearly demonstrate the potential savings that can be achieved for the Metro System and the other PAs by including AWP's 11.5 MGD as part of the 83 MGD.

The analysis at best indicates that on the capital cost side there are economies of scale for larger plants but in no way does that provide a comprehensive assessment of the financial structure and long term rates for any of the projects. The analysis leaves out operating and maintenance costs or, as noted, the revenue and financing structure needed to make an accurate comparison of the financial merits of the alternatives. The cost to build and operate the AWP project is offset by a significant amount of revenue from the sale of recycled water and financial incentives received from Metropolitan Water District's Local Resources Program (LRP).

Further, comparing a preliminary cost estimate for Phase 2 Pure Water to the actual contractual cost for the East County AWP project is fundamentally flawed. In the current macroeconomic environment there is great uncertainty as to the ultimate cost of Phase 2 and there is no detailed financing plan, rate analysis or certified project specific CEQA document to accurately determine its long term financial impact. Phase 2 faces a completely different construction bidding and interest rate climate than East County AWP or Phase 1 Pure Water. The analyses does not provide an accurate or useful picture other than an engineering exercise to broadly compare the capital cost of alternatives to reach the regional goal of 83 MGD.

Thank you again for the opportunity to share this information with the other TAC members.

Sincerely,

Kyle Swanson
CEO/General Manager (Incoming)

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ATTACHMENT 6

SANITARY SEWER MANAGEMENT – PERFORMANCE RISK AND SYSTEM OPTIMIZATON

City of San Diego Public Utilities

Wastewater Collection Division

Metro TAC

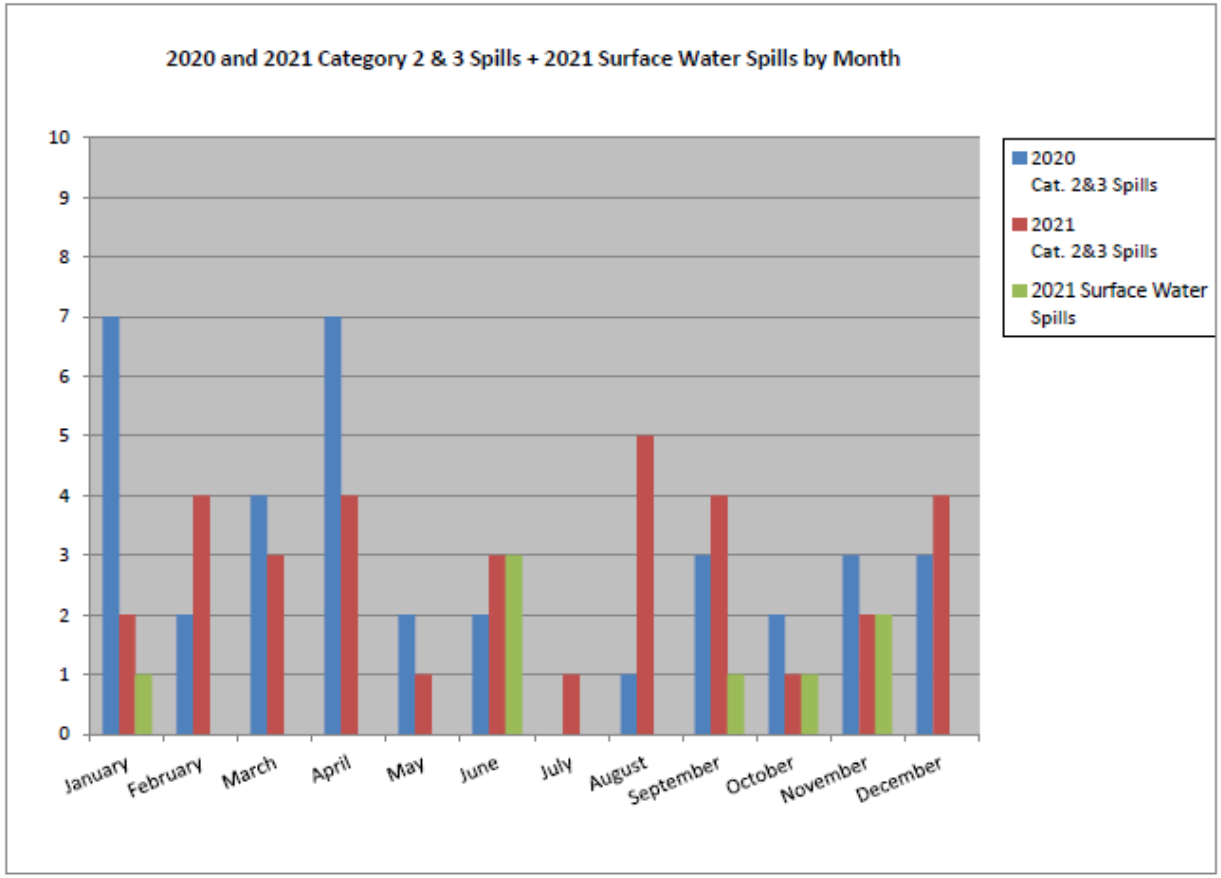
Sanitary Sewer Management – Performance, Risk and System Optimization

May 18 2022

Mike Rosenberg
Deputy Director, Wastewater Collection

The City of SAN DIEGO

Sanitary Sewer Overflows 2020 vs 2021



MONTH	2020 Cat. 2&3 Spills	2020 Surface Water Spills	2021 Cat. 2&3 Spills	2021 Surface Water Spills
January	7	0	2	1
February	2	0	4	0
March	4	0	3	0
April	7	3	4	0
May	2	0	1	0
June	2	0	3	3
July	0	0	1	0
August	1	1	5	0
September	3	0	4	1
October	2	0	1	1
November	3	0	2	2
December	3	0	4	0
Totals YTD:	36	4	34	8

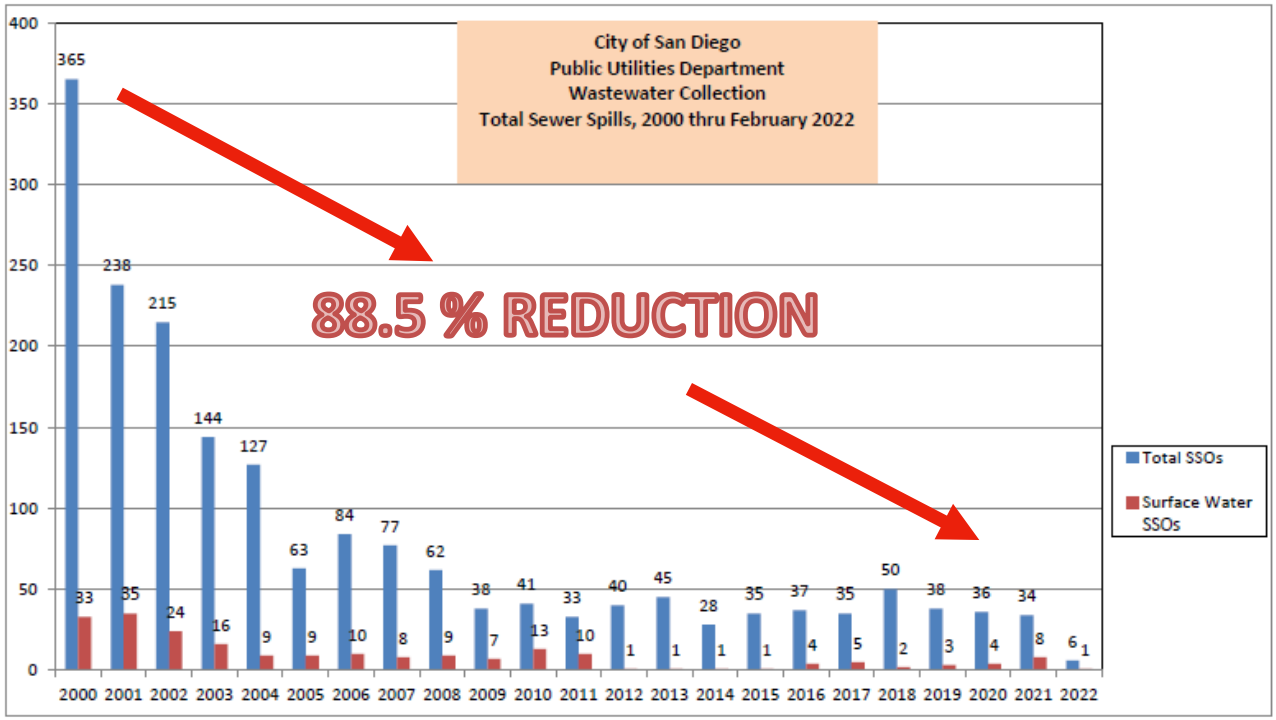
SSO decrease from CY 2020 to 2021 = 2

% of SSO decrease from 2020 to 2021 = 6%

CY 2021 SSO per 100 miles (3,198 total miles) = 1.3

Total Sanitary Sewer Overflows – 2000 through February 2022

YEAR	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
January	45	27	24	18	12	7	3	3	8	6	8	6	6	8	2	2	8	5	4	8	7	2	3
February	25	20	16	11	19	7	10	8	8	6	5	5	4	2	0	4	2	6	8	3	2	4	3
March	23	26	17	22	6	6	14	10	5	5	3	3	5	4	3	3	3	5	5	1	4	3	
April	32	17	23	14	10	7	2	9	4	2	1	2	0	4	2	1	4	4	2	8	7	4	
May	33	24	18	15	6	2	4	7	5	7	2	3	2	2	2	5	2	2	3	3	2	1	
June	17	12	16	12	10	3	7	4	3	2	1	0	5	4	2	4	1	2	2	4	2	3	
July	31	20	15	5	8	6	7	7	6	1	2	1	3	1	2	1	4	0	4	1	0	1	
August	39	19	16	6	8	8	10	4	9	2	4	2	4	6	1	1	1	2	3	0	1	5	
September	36	18	25	7	13	3	9	2	2	2	1	3	2	6	5	4	2	2	2	2	3	4	
October	25	17	19	12	13	5	5	8	3	2	0	2	2	2	5	1	2	3	1	2	2	1	
November	26	15	10	14	10	3	7	7	6	2	3	1	3	2	1	2	3	3	10	1	3	2	
December	33	23	16	8	12	6	6	8	3	1	11	5	4	4	3	7	5	1	6	5	3	4	
Total SSOs	365	238	215	144	127	63	84	77	62	38	41	33	40	45	28	35	37	35	50	38	36	34	6
Surface Water SSOs	33	35	24	16	9	9	10	8	9	7	13	10	1	1	1	1	4	5	2	3	4	8	1
SSB's																6	6	10	12	12	9	7	0



Note: Beginning CY2015, Sanitary Sewer Back-Ups (SSB's) are now included in the total

New Additions to the Preventive Maintenance Program

- Echometers
- Root Foaming Program
- Optimizing Sewer Main Cleaning Program

Potential Benefits of the Optimization

- Grouping segments to be cleaned in smaller geographical areas
- Risk and Consequence of Failure Factors
- Reduce Carbon footprint
- Reduce fuel and water usage
- Reduce Backlog





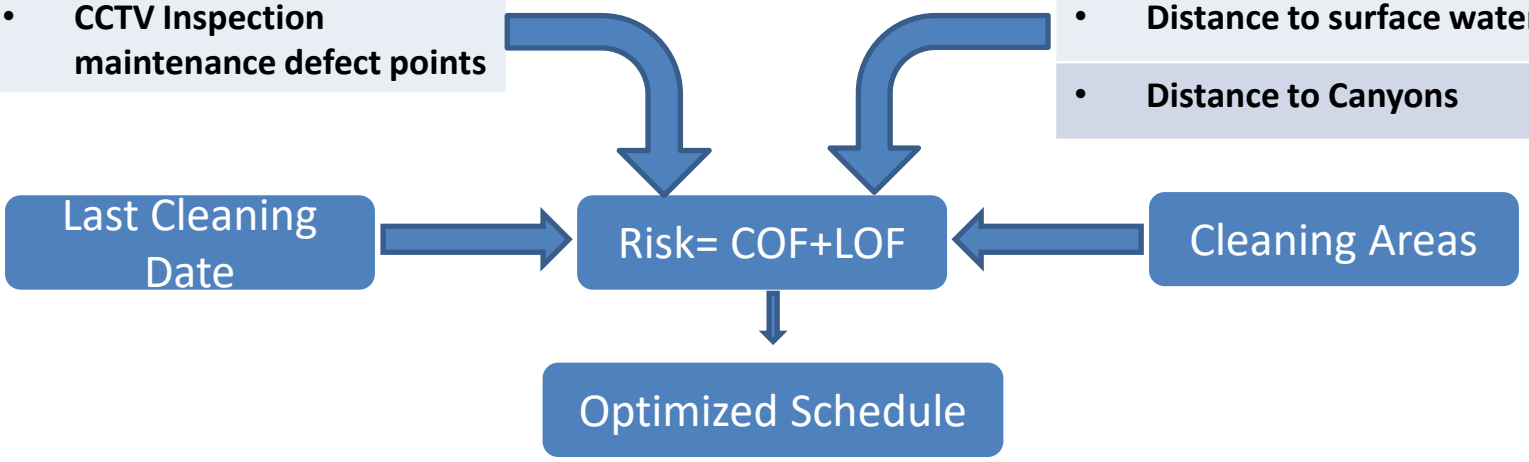
To maximize the use of resources and reduce risks, WWC is focusing on optimizing sewer maintenance scheduling that will utilize risk factors and real time data.

Optimized Scheduling
• Focus on proactive maintenance
• Clean pipe at the right time
• Develop maintenance areas by geographically grouping assets on the same cleaning frequency
• Update maintenance schedule based on risk analysis and geographic location
• Develop a 5-year cleaning plan for the entire system
• Reduce Sanitary Sewer Overflows

Maintenance optimization risk analysis uses likelihood of failure (LOF) and consequence of failure (COF)

LOF
• Cleaning frequency
• Cleaning findings
• Pipe material and age
• Pipe slope
• Pipe velocity
• CCTV Inspection maintenance defect points

COF
• Potential for Large SSO's
• Type of road
• Land use areas
• Distance to Railroad
• Easements
• Distance to surface water
• Distance to Canyons



Public Utilities Department Wastewater Collection Division
Sanitary Sewer Overflow Report

QUESTIONS?

ATTACHMENT 7

CLARIFICATON LETTER TO EAST COUNTY ADVANCED WATER PURIFICATION (AWP) JPA REGARDING METROTAC STAFF'S LIMITED INVOLVEMENT IN THE FINANCIAL ANALYSIS OF THE AWP PROJECT

May 18, 2022

Steve Goble
East County Advanced Water Purification Joint Powers Authority (JPA)
c/o City of El Cajon
200 Civic Center Way
El Cajon, CA 92020

Subject: Clarification Regarding Metro's Limited Involvement in the Financial Analysis of the East County Advanced Water Purification Project

Dr. Councilmember Goble;

The purpose of this letter is to formally clarify the information provided by the East County (EC) Advanced Water Purification (AWP) Project Joint Powers Authority (JPA) regarding financial analysis by Metro JPA. The presentation by the East County JPA representatives at the May 10, 2022 City of El Cajon City Council Meeting, *Item 9 East County Advanced Water Purification Program Informational Update*, included a slide identifying Karyn Keze, Consultant to Metro JPA, as providing estimates on future costs as referenced in Attachment 1. The accompanying verbal description identified the City of San Diego information as incomplete and that the Metro financial consultant, Karyn Keze, provided these assumptions. Based on the verbal message she could be interpreted as a representative of the City of San Diego. Additionally, the verbal description included Ms. Keze as working with EC AWP JPA to develop an avoided cost model to look at those future Metro costs.

The intent of this letter is to clarify the above as follows:

1. No Metro representative, including Karyn Keze, has reviewed the current financial model for the EC AWP. In fact, the model has been requested, with the intent to understand impacts to Metro, but access has been refused.
2. In 2018, Karen Keze was hired by the City Padre Dam to relay information and/or documents from San Diego which were provided by San Diego for the purposes of Metro JPA. She does not represent the City of San Diego, thus cannot predict future costs and/or use of the information for other purposes (e.g. EC AWP financial model). This information and draft model review were completed at that time only; no analysis has been completed since that time in 2018.

Although the intent of the presentation may be as noted in the clarification, Metro feels this formal clarification is important as Metro has no information on the current financial model for the EC AWP Project.

Sincerely,

Beth Gentry
Metro TAC Chair

Attachment 1: Slide El Cajon City Council Meeting on 5/10/22, RE: Outside Expert Karyn Keze

CC: City of El Cajon: Bill Wells (Mayor), Gary Kendrick, Michelle Metschel, Phil Ortiz (Council)
Padre Dam Municipal Water District: Bill Pommering, Board President
San Diego County Board of Supervisors: Nathan Fletcher, Chair
Helix Water District: Kathleen Coates Hedberg, Board President

ATTACHMENT 8A

NORTH CITY METROPOLITANBIOSOLIDS CENTER IMPROVEMENTS – DESIGN & ENGINEERING CONSTRUCTION PROFESSIONAL SERVICES WITH CH2M HILL

METRO JPA/TAC
Staff Report
Date: 3/23/2022

Project Title:
City of San Diego Pure Water Program – Extension to CH2MHill contract

Presenter(s) Name:
Andrea Demich

Presenter(s) Title:
Assistant Deputy Director

Requested Action:
Approve amendment to add $1,246,271 and 5 years to the contract

Recommendations:
Approve amendment

Metro TAC:	Approve the subject item and forward to Metro JPA/ Metro Commission for approval
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	N/A

Fiscal Impact:

Is this projected budgeted?	Yes __X_ No ____
Cost breakdown between Metro & Muni:	$87,239 for Pure Water Metro Sewer + $1,159,031 for Non-Pure Water Metro Sewer + $0 Muni Sewer + $0 Water
Fiscal impact to the Metro JPA:	Pure Water Phase 1: 33.5% of Metro cost (~$417,500.79)

Capital Improvement Program:

New Project?	Yes ___ No _X__ N/A ___
Existing Project?	Yes _X__ No ___ Upgrade/addition ___ Change _X__

Previous TAC/JPA Action:
None

Additional/Future Action:
Present item to Metro JPA/ Metro Commission in May 2022.

City Council Action:
City Council approval expected in June 2022

Background: *Provide background information on the need for the project*
As part of the Pure Water Program implementation, the Metropolitan Biosolids Center (MBC) will be expanded and upgraded so the facility can receive a greater amount of biosolids. MBC receives biosolids from the Point Loma Wastewater Treatment Plant and from the North City Water Reclamation Plant (NCWRP). Once Pure Water Phase 1 is operational, the expanded NCWRP will treat more wastewater. In turn, MBC will receive a greater amount of biosolids to treat.

To accommodate the increased flow of raw biosolids and increase system reliability, equipment must be replaced in multiple process areas at MBC. These process areas are: biosolids thickening, anaerobic digestion, biogas handling, biosolids dewatering and centrate pump station.

In May 2017, the City awarded an agreement to CH2M Hill Engineers, Inc. to perform design and construction support services for the North City Metropolitan Biosolids Center (MBC) Improvements project. The original Agreement is on file in the Office of the City Clerk as Document No. R-311146. The said Agreement was issued for an amount not to exceed $5,051,090 for a duration of five (5) years, expiring June 2, 2022. Design services and bidding services are complete. This project began construction in September 2021 and construction support services began at that time.

Amendment No. 1 will add $1,246,271 and 5 years to the contract. The additional cost for this amendment will cover all related construction support services including additional review of submittals and shop drawings, additional responses to RFI's, additional project construction meetings, record drawings, facility commissioning support, geotechnical and structural observations, preparation of operation and maintenance manuals, and as-needed technical support. These tasks are already included the scope of work; however, a much larger effort is needed on each of them compared to what was originally anticipated 5 years ago. An amendment of $1,246.271 will increase the total contract amount from $5,051,090 to $6,297,361. For comparison, the construction cost is just over $40 million. In addition, Amendment No. 1 will extend the contract term for an additional 5 years so that construction support will continue until the end of the construction contract. This amendment requires action prior to the June 2, 2022 expiration date.

Discussion: *Provide information on decisions made to advance the project*

Bid Results: *If bidding was done provide bidding format and results*
N/A

ATTACHMENT 8B

PURE WATER PROJECT CONSTRUCTION DOCUMENT MANAGEMENT SOFTWARE APPLICATION WITH PMWEB, INC.

METRO JPA/TAC
Staff Report
Date: 3/23/2022

Project Title:
City of San Diego Pure Water Program – Extension to PMWeb contract

Presenter(s) Name:
Andrea Demich

Presenter(s) Title:
Assistant Deputy Director

Requested Action:
Approve amendment to add $1,000,000 and 5 years to the contract

Recommendations:
Approve amendment

Metro TAC:	Approve the subject item and forward to Metro JPA/ Metro Commission for approval
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	N/A

Fiscal Impact:

Is this projected budgeted?	Yes __X_ No ____
Cost breakdown between Metro & Muni:	$500,000 for Pure Water Metro Sewer + $0 Muni Sewer + $500,000 Water
Fiscal impact to the Metro JPA:	Pure Water Phase 1: 33.5% of Metro cost (~$167,500)

Capital Improvement Program:

New Project?	Yes ___ No _X__ N/A ___
Existing Project?	Yes _X__ No ___ Upgrade/addition ___ Change _X__

Previous TAC/JPA Action:
None

Additional/Future Action:
Present item to Metro JPA/ Metro Commission in May 2022.

City Council Action:
City Council approval expected in June 2022

Background: *Provide background information on the need for the project*

In 2016, the City entered into the agreement # 10071388-16-H with PMWeb, Inc. for the implementation of the PMWeb software system utilized by Pure Water Program. Since then, PMWeb has provided as-needed software, maintenance, and licenses for their proprietary PMWeb software system. As of today, the total expenditure of the 10071388-16-H agreement is $823,303.20.

Since PMWeb is the sole provider of the software and license components of PMWeb software system currently used by Pure Water Program, a five (5) year contract extension sole source #4265 was signed

by the Purchasing and Contracting Department Director on November 9, 2021 and the Software Subscription Agreement, signed by PMWeb, was submitted to the City in anticipation of City Council approval. Continued use of PMWeb's products and technical support and services will allow seamless and continuous usage of the project management tool. Because of the enormity and complexity of Pure Water, we believe it is possible that the program could be compromised if we are required to bid and install new software.

Some work associated with the contract has been allowed to continue past the expiration date of August 1, 2021. This software is used for the official management of documents between the contractor, construction management team, and design team, for all ten (10) Pure Water Phase 1 construction contracts. It is used to exchange information about Requests for Information (RFI) and construction submittals and tracks responses, responsible parties, and open inquiries. With over $1 billion in construction, there can be hundreds of open inquiries at any given time which would overwhelm any other informal management system such as email or hard copies. The suspension of PMWeb's services would have had a chaotic effect on document management resulting in mishandled and/or lost documents which, ultimately, would have led to schedule delays and increased cost. As such, a minimum level of services necessary to maintain full utility of the software was allowed to continue.

The contract expired at a time when its oversight was being transferred from Public Utilities' Program Management Section to the Pure Water Management Division. The Pure Water Management Division was in the midst of awarding seven (7) construction contracts totaling close to $1 billion, modifying the Morena Pipeline design due to conflicts with SDGE utilities, refining Pure Water Phase 2 alternatives, initiating design of the Phase 2 alternatives, and onboarding new engineering staff. This PMWeb contract is now being fully handled by the Pure Water Management Division. Other Pure Water consultant work is being performed via as-needed contracts managed by another division, and closer coordination between the two work groups is being done to prevent any similar lapse in contract coverage. All future Pure Water consultant services will be managed solely within the Pure Water Management Division.

The amendment now being requested will increase the not-to-exceed contract amount by $1 million and extend it for another five (5) years. It is needed to obtain regular software updates and upgrades, technical support for addressing software issues, licenses, and regular data backup.

Discussion: *Provide information on decisions made to advance the project*

Bid Results: *If bidding was done provide bidding format and results*
N/A

ATTACHMENT 9

RECOMMENDED APPROVAL OF FIRST AMDT TO AGRMT WITH THE REGENTS OF UNIVERSITIY OF CA, SAN DIEGO'S SCRIPPS INSTITUTION OF OCEANOGRAPHY FOR REAL-TIME MOORING SYSTEMS FOR PT. LOMA AND SO.BAY OCEAN OUTFALLS

The City of San Diego

Staff Report

DATE ISSUED: May 3, 2022

TO: City Council

FROM: Public Utilities Department

SUBJECT: First Amendment to the Agreement with the Regents of the University of California, San Diego's Scripps Institution of Oceanography, for continued support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls

Primary Contact:	Dr. Ryan Kempster	Phone: (619) 758-2329
Secondary Contact:	Adriano Feit	Phone: (619) 758-2377

Council District(s): Citywide

OVERVIEW:

The City of San Diego's ('City') Real-Time Oceanographic Mooring System (RTOMS) is composed of two oceanographic moorings and real-time data systems deployed and operated near the offshore discharge sites for the Point Loma Ocean Outfall (PLOO) and South Bay Ocean Outfall (SBOO). These mooring systems were designed, built, operated, and maintained by the Ocean Time Series Group (OTSG) of the Scripps Institution of Oceanography (SIO). The primary goal of this project was to ensure that the City met its requirements under the National Pollutant Discharge Elimination System (NPDES) permits for the PLOO and SBOO regions to assess the dispersion and fate of the wastewater plumes discharged from both outfalls. The City wishes to amend this contract to renew this collaboration with SIO for a further 5-year term (2022-2027).

PROPOSED ACTIONS:

1. An Ordinance authorizing the Mayor, or his designee, to execute the First Amendment to the agreement with the Regents of the University of California (UC Regents), San Diego's Scripps Institution of Oceanography, Ocean Time Series Group to provide continued and ongoing support for City's real-time oceanographic mooring systems for the Point Loma and South Bay Ocean Outfalls, in an amount not to exceed $1,250,000, bringing the total not to exceed amount of the agreement to $2,500,000; and

2. The Chief Financial Officer is authorized to expend an amount not to exceed $1,250,000 in total, to be spent as $250,000 per year for each of the five (5) additional years beginning in FY2023, from Fund 700001, Metro Sewer Utility Fund, contingent upon adoption of the Annual Appropriation Ordinance for the applicable fiscal year, and 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 need to develop an improved understanding of physical circulation and current movement patterns in the coastal waters off San Diego and how they may affect wastewater plume dispersion was first recognized as part of an external evaluation of the City's Ocean Monitoring Program (OMP) conducted by SIO in 2002. Consequently, the City's OMP staff began to collaborate with SIO scientists on several studies in order to form a long-term plan for enhanced coastal water quality monitoring off San Diego. This included a pilot study initiated in 2006 where the resultant data have been a valuable part of the City's annual monitoring and assessment reports. Additionally, the US International Boundary & Water Commission (USIBWC) and the City commissioned subsequent studies of the fate and behavior of wastewater discharged to the ocean via the SBOO and the PLOO. The findings of these studies included recommendations to use real-time oceanographic moorings and advanced sampling technologies to better monitor and understand near-shore coastal water quality and the impacts of local ocean currents and tidal fluxes on effluent plume dynamics.

Based on the above recommendations, and subsequent discussions between the City, SIO, USIBWC, San Diego Regional Water Quality Control Board and the Environmental Protection Agency (EPA), an agreement was reached that plume tracking requirements for the PLOO and SBOO regions should include the installation of permanent, real-time oceanographic mooring systems located near the terminal diffuser wye structures of the PLOO and SBOO. In 2015, the City contracted with SIO to design, build and initiate field testing of two customized real-time mooring systems capable of being deployed from City research vessels. Since then, the City has redeployed moorings at the end of the PLOO and SBOO annually, which has enabled the City to provide a continuous set of enhanced environmental monitoring data that can be used to better evaluate oceanographic conditions in the San Diego region.

In 2017, the City entered into an agreement with the Regents of the University of California, Scripps Institution of Oceanography, Ocean Time Series Group, for continued and ongoing support of the City's real-time oceanographic mooring systems. The five-year agreement was authorized for an amount not to exceed $1,250,000 beginning in Fiscal Year 2018 and is set to expire on June 30, 2022. This action proposes amending the current agreement for an additional five-years for an additional $1,250,000; bringing the total term of the contract to ten years and the total financial contribution to $2,500,000.

The services provided by SIO are essential to PUD being able to meet its environmental monitoring objectives, commitments, and regulatory permit requirements associated with the discharge of wastewater to the Pacific Ocean via the PLOO and SBOO. Continuation of this long-term project to better understand and monitor the dispersion and fate of the wastewater plumes discharged off San Diego is a critical component of the City's monitoring program included in the Point Loma NPDES Permit 301(h) Renewal Application. The project also exemplifies the commitment of PUD to provide advanced, scientifically sound, and cost-effective services to protect the region's coastal marine ecosystem and natural resources. Furthermore, this work also forms part of a multi-year contractual agreement the City has with the USIBWC to provide ocean monitoring services for the SBOO region associated with operation of the South Bay International Wastewater Treatment Plant, for which the City is reimbursed by the USIBWC for approximately $1,000,000 per year.

City Strategic Plan Goal(s)/Objective(s):

Goal #1: Provide high quality public service.

Objective #1: Improve external and internal coordination and communication by working with other scientific organizations, such as the Scripps Institution of Oceanography (SIO), to access cutting-edge

technologies and foster the sharing of scientific information to support environmental regulatory requirements.
Objective #2: Ensure equipment and technology are in place so that employees can achieve high quality public service. The City's relationship with SIO allows access to state-of-the-art industry-leading satellite technologies, which would not be possible otherwise.

Goal #2: Work in partnership with all of our communities to achieve safe and livable neighborhoods.
Objective #1: Protect lives, property, and the environment through timely and effective response in all communities. Through the City's relationship with SIO, we can accurately monitor and protect our ocean environment by documenting the presence of wastewater plumes, sewage spills, and algal blooms.
Objective #2: Foster services that improve quality of life. Real time oceanographic monitoring allows us to identify the presence of wastewater plumes, in coastal waters, which helps us to understand the potential impacts of wastewater discharge into local waters.

Goal #3: Create and sustain a resilient and economically prosperous City with opportunity in every community.
Objective #1: Prepare and respond to climate change. Research with SIO and collaborations with their scientists improve the City's ability to detect changes in the ocean environment due to climate change.
Objective #2: Enhance San Diego's global standing. Working with SIO, a global leader in remote environmental monitoring, enhances the City's global standing as well.

Fiscal Considerations:
The total amount not to exceed for the First Amendment is $1,250,000, to be spent as $250,000 per year for each of the five (5) additional years beginning in FY2023, and will be available in Fund 700001, Metro Sewer Utility Fund, contingent upon adoption of the Annual Appropriation Ordinance for the applicable fiscal year, and 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.

Charter Section 225 Disclosure of Business Interests:
N/A; the contract is with another public agency.

Environmental Impact:
This activity is not a "project" and is therefore not subject to CEQA pursuant to State CEQA Guidelines Section § 15060(c)(3). This action supports the work of SIO that includes technical support to maintain the moorings, data management, system upgrades and enhancements, research, collaboration, and organizational and administrative activities; therefore, it will not result in a direct or reasonably foreseeable indirect physical change in the environment.

Climate Action Plan Implementation:
The proposed actions will directly support Strategy 4 – Zero Waste Strategies for managing waste include source reduction, increased recycling, and gas capture.• Capture 98% wastewater treatment gases by 2035. This project is a major component of our Ocean Monitoring Program in support of our NPDES Permits.

This proposed project implements Strategy 5 – Resiliency Climate resiliency will allow San Diego to absorb the impacts of climate change without experiencing lasting negative effects. The real-time moorings allow us to make observations on important factors resulting from climate change ex: ocean acidification that have direct impact on health of our oceans and resources within. This additional information can assist in planning efforts to improve our adaptability to these environmental changes.

Equal Opportunity Contracting Information (if applicable):
This agreement is not subject to the City's Equal Employment Opportunity Outreach Program (San Diego Ordinance No. 18173, Section 22.2701 through 22.2708) or Non-Discrimination in Contracting Ordinance (San Diego Municipal Code Sections 22.3501 through 22.3517).

Previous Council and/or Committee Actions:
The original agreement was approved by the City Council on October 18, 2018 (R_311361). This amendment will be heard at the Environmental Committee prior to Council.

Key Stakeholders and Community Outreach Efforts:
The renewal of the SIO Agreement will be reviewed by the San Diego Metro TAC on May 18, 2022. If recommended for approval, it will be presented to the Metro JPA / Metro Commission on June 2, 2022.

Originator to enter name upon approval HERE	Originator to enter name upon approval HERE
Department Director (or correct title of approver)	Deputy Chief Operating Officer (or correct title of approver – refer to Executive Manager Signature document on CityNet for proper name and title

FIRST AMENDMENT TO SUPPORT FOR REAL-TIME OCEANOGRAPHIC MOORING SYSTEMS FOR THE POINT LOMA AND SOUTH BAY OCEAN OUTFALLS

This First Amendment to the Support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls (First Amendment) is made and entered into by and between the City of San Diego (City) and The Regents of the University of California, University of California, San Diego's Scripps Institution of Oceanography (Contractor), also referred to individually as "Party" and collectively as the "Parties."

RECITALS

1. City issued Support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls, resulting in a contract between the City and Contractor (Contract). The Contract is comprised of expertise and services of the Ocean Times Series Group (OTSG) of the, University of California, San Diego's Scripps Institution of Oceanography (University) to provide Continued Support of Real Time Ocean Observing System for the Point Loma and South Bay Ocean Outfalls services.

2. The Contract may be amended by written agreement executed by duly authorized representatives of both Parties.

3. The Parties wish to amend the Contract to provide for an additional five (5) years scientific support for the City's Real Time Ocean Observing System for the Point Loma and South Bay Ocean Outfalls.

TERMS

1. Section 1.1 of the Contract is replaced in its entirety to read as follows:

Scope of Services: The City will perform the work as generally set forth in the written Scope of Services, attached hereto as Exhibit A-1, and referred to herein as Professional Services.

2. Section 2.1 of the Contract is replaced in its entirety to read as follows:

Term of Agreement: This First Amendment shall be effective October 17, 2017 through June 30, 2027. The term of this Agreement requires approval by the City Council by ordinance prior to extension award.

3. Section 3.1 of the Contract is replaced in its entirety to read as follows:

Amount of Compensation. The City shall pay the University for performance of all Professional Services rendered in accordance with this Agreement in accordance with the fee

schedule. Attached hereto as Exhibit B-1. The compensation under this agreement shall not exceed $2,500,000.

4. Section 3.2 of the Contract is replaced in its entirety to read as follows:

The City may require that the University perform additional Professional Services [Additional Services] beyond those described in the Scope of Services (Exhibit A-1). Prior to the University's performance of Additional Services, the City and the University must agree in writing upon a fee for the Additional Services, including reasonably related expenses, in accordance with the Compensation and Fee Schedule (Exhibit B-1). The City will pay the University for the performance of Additional Services in accordance with Section 3.3.

5. DELETE Exhibit A in its entirety and REPLACE with Exhibit A-1

6. DELETE Exhibit B in its entirety and REPLACE with Exhibit B-1

7. DELETE Exhibit C in its entirety and REPLACE with Exhibit C-1

8. This First Amendment will be effective when signed by both parties and approved by the City Attorney in accordance with Charter section 40.

9. All provisions of the Agreement not addressed in this First Amendment remain in full force and effect.

IN WITNESS WHEREOF, this First Amendment is executed by City and Contractor acting by and through their authorized officers.

The Regents of the University of California,
University of California, San Diego's
Scripps Institution of Oceanography

By: Travis Dadigian

Name: Travis Dadigian

Title: Principal Contract & Grant Officer

Date: 5/2/22

City of San Diego

By: _____

Name: _____

Title: _____

Date: _____

Approved as to form this __ day of _____, 202__

MARA W. ELLIOTT, City Attorney

By: _____
Deputy City Attorney

_____
Print Name

SCOPE OF SERVICES

Support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls

The City of San Diego's (herein 'City') Real-Time Oceanographic Mooring System (RTOMS) is comprised of two oceanographic moorings and real-time data systems deployed and operated near the offshore discharge sites for the Point Loma Ocean Outfall (PLOO) and South Bay Ocean Outfall (SBOO). These mooring systems were designed and built by the Ocean Time Series Group (OTSG) of the Scripps Institution of Oceanography (SIO) under the Public Utilities Department (PUD) Contract No. 156332. The subsequent operation and maintenance of these moorings between 2017 and 2022 was also managed by SIO under PUD contract No. 309845. The primary goal of this project was to ensure that the City met its requirements under the National Pollutant Discharge Elimination System (NPDES) permits for the PLOO and SBOO regions to assess the dispersion and fate of the wastewater plumes discharged from both outfalls. The City wishes to renew this collaboration with SIO for a further 5-year term (2022-2027) based on the revised Scope of Services presented here.

The need to develop an improved understanding of physical circulation and current movement patterns in the coastal waters off San Diego and how they may affect wastewater plume dispersion was first recognized as part of an external evaluation of the City's Ocean Monitoring Program (OMP) conducted by SIO in 2002 (SIO 2004). Consequently, the City's OMP staff began to collaborate with SIO scientists on several studies in order to form a long-term plan for enhanced coastal water quality monitoring off San Diego. This included a pilot study initiated in 2006 using moored temperature loggers (thermistor strings) and Acoustic Doppler Current Profilers (ADCPs) to obtain an initial characterization of the thermocline structure and current regime in the area surrounding the PLOO discharge site (see Storms et al. 2006). The use of these thermistor and ADCP moorings was later expanded to include both the PLOO and SBOO regions where the resultant data have been a valuable part of the City's annual monitoring and assessment reports (e.g., City of San Diego 2020). Additionally, the US International Boundary & Water Commission (IBWC) and the City commissioned subsequent studies of the fate and behavior of wastewater discharged to the ocean via the SBOO (Terrill et al. 2009) and the PLOO (Rogowski et al. 2012a, 2012b, 2013). The findings of these studies included recommendations to use real-time oceanographic moorings and advanced sampling technologies to better monitor and understand near-shore coastal water quality and the impacts of local ocean currents and tidal fluxes on effluent plume dynamics.

Based on the above recommendations, and subsequent discussions between the City, SIO, IBWC, San Diego Water Board and the Environmental Protection Agency (EPA), an agreement was reached that plume tracking requirements for the PLOO and SBOO regions should include the installation of permanent, real-time oceanographic mooring systems located near the terminal diffuser wye structures of the PLOO and SBOO. Thus, work began with SIO in 2015 to design, build and initiate field testing of two customized real-time mooring systems capable of being deployed from City research vessels. Since then, the City has redeployed moorings at the end of the PLOO and SBOO annually, which has enabled the City to provide a continuous set of enhanced environmental monitoring data that can be used to better evaluate oceanographic conditions in the San Diego region. The City's moorings are also planned to be networked with SIO's existing Del Mar mooring to form a comprehensive state-of-the-art ocean observing system for the San Diego region.

The services provided by SIO are essential to PUD being able to meet its environmental monitoring objectives, commitments, and regulatory permit requirements associated with the discharge of wastewater to the Pacific Ocean via the PLOO and SBOO. Continuation of this long-term project to better understand and monitor the dispersion and fate of the wastewater plumes discharged off San Diego is a critical component of the City's monitoring program included in the Point Loma NPDES Permit 301(h) Renewal Application. The project also exemplifies the commitment of PUD to provide advanced, scientifically sound, and cost-effective services to protect the region's coastal marine ecosystem and natural resources. Furthermore, this work is also part of a multi-year contractual agreement the City has with the USIBWC to provide ocean monitoring services for the SBOO region associated with operation of the South Bay International Wastewater Treatment Plant, for which the City is reimbursed by the USIBWC for approximately $1M/year.

Scripps Responsibilities

1. Provide Data System Management/Integration:

    a. Maintain critical parts of data management system: including the server (for data handling and website visualization – until such time as the City has a comparable mechanism in place and SIO website can then just link to the City website), modems and cell phone plans for moorings real-time capabilities.

    b. Transfer mooring data in near real time to the City's Amazon S3 cloud server.

    c. Continue conducting preliminary data processing as has been conducted under previous contract, prior to upload to City server.

    d. Continue to host real time data on an SIO server, with results posted to SIO website where all the data can easily be downloaded as has been conducted under previous contract, as a back-up to data stored on the City server.

        i. Until such time that the City has a comparable website in place for visualizing this data, SIO will continue to maintain their website for the mooring displaying easily accessible plots for visualization of each sensor and general buoy position maps as data becomes available in real-time.

2. SIO to provide ongoing assistance to City staff on Quality Control Tests (QCT), data interpretation, and associated hardware and software as needed term.

3. Mooring refurbishment, assembly and storage:

    a. SIO will Provide all hardware and labor associated with refurbishing buoys for the annual mooring redeployment (unless otherwise stated below); includes but not limited to 5-ton swivels, buoy cleanup and painting vinyl lettering and painting buoy tower cages and instrument mounts with powder coat and antifoulant paint.

    b. SIO will also store buoys and anchors not currently deployed since the City does not have an adequate facility.

c. SIO will continue to supply all electronics supplies such as cables associated with the mooring and instruments and batteries associated with (controllers, GPS beacon, AIS, ADCP, PCO2, Buoys system, solar panels system batteries etc.).

d. SIO will be responsible for all buoy assemblies and will train City staff on the tasks involved, with the City staff taking on a gradually increasing role in the refurbishment and assembly work over the course of the contract.

4. Provide design modifications and fabrication of required upgrades to two mooring systems in service and the back up mooring.

5. Support City staff with annual mooring retrievals and deployments during the five (5) years of this agreement.

6. Provide ongoing training and assistance with controller programming, troubleshooting, communication and support of controller, modular sensors, the inductive modem technology, and the telemetry, batteries, AIS system and GPS systems on each mooring. Over time, the routine parts of this will be done by the City, and SIO will be available for troubleshooting and unforeseen events.

7. City purchased weather station systems will be integrated on the in-service mooring systems upon the first deployment following the City's purchase of such equipment.

8. When Instrumentation from moorings are in possession of SIO, SIO will be responsible for any damages. SIO will not, however, provide warranty or take responsibility for hardware, sensor failures, or losses during normal deployment at sea or during handling on the ship as these items are under manufacturer warranty and under City control.

9. Working with City staff, SIO will assemble and maintain technical documentation for the moorings with appropriate documentation, such as, but not limited to, up to date specifications, Standard Operating Procedures (SOPs), QCT documentation, software manuals, and programing documentation. This documentation will include detailed information on the data acquisition process and handling protocols and details on controller programming and PERL script used for buoy-modem-server communications. The documentation should be reviewed and revised throughout the contract term with the goal of providing the City with a complete manual by the end of the 5 year contract. Thus, the City would then have a detailed SOP of all Real-time mooring tasks at the end of the next 5-yr contract.

10. SIO will provide up to 10 days of pool time per year to be used for mooring instrument burn-in exercises prior to deployments to verify the systems are working accordingly.

City Responsibilities

1. The City will be responsible for all costs associated with instrument service and calibrations unless specified above, including but not limited to (Microcats, SeapHOx sensors, SUNA nitrate sensors, Acoustic Doppler Current Profiler (ADCP); Partial pressure of carbon dioxide (pC02) sensor and Chelsea and Wetlabs fluorometers), and

for mechanical mooring component (buoy, load cages, pressure cases, etc.) machine shop modifications done either at the City or the SIO machine shop.

2. The City will be responsible for purchasing some hardware associated with the mooring deployments including anchors, chain, shackles, inductive couplers, inductive wire, terminations, ropes, sling links.

3. The City will perform all QCT testing prior to deployments.

4. The City will assist SIO with refurbishment and assembly of the Buoys at the Seaweed facility, and take on an increasing part of the work over time, so by the end of the next contract the City can take on the responsibly.

5. Upon the City's acceptance of new sensors, or sensors serviced by SIO but in possession of the City, any flooding or damaged components will be the responsibility of the City.

6. The City will cover the costs associated with the purchase of additional sensors/hardware (such as two weather stations, one which will be installed on the Point Loma mooring and the second to be installed on the South Bay mooring). The City will have final say on this equipment but will seek guidance from SIO.

7. The City will conduct final data processing and data verification, apply data qualifier flags following review, and store data on City servers where it is available by request.

Reporting Requirements

SIO will submit technical documentation to the City after each mooring deployment, consisting of set-up and testing log sheets, mooring designs, deployment log sheets, etc, i.e. documentation of the state of the mooring and sensors deployed and the testing carried out by SIO. Additional documentation of work done by City staff (e.g. QCT) will be added by City staff, thereby providing a complete description of each mooring deployed.

In addition, as outlined above, a manual/technical document with Standard Operating Procedures (SOPs) associated with the mooring operations, Quality Control Test (QCT) documentation, associated software manuals, and programing documentation, will be developed incrementally over the five years of the contract. This will be available in complete and final form at the end of the contract. An annual review meeting will be held with SIO and City staff to assess the progress of the project and the associated documentation to ensure successful had over of all necessary knowledge and documentation by the end of the project term.

Compensation and Fee Schedule

Total funding for this project will not exceed $1,250,000.00. The compensation will be based on fixed prices. SIO shall submit one invoice per calendar month in a form acceptable to the City. SIO shall include with each invoice a description of completed Professional Services, reasonably related expenses, if any, and all other information, including but not limited to: the progress percentage of the Scope of Services and/or deliverables completed prior to the invoice date, as required by the City. The City will

pay undisputed portions of invoices within thirty calendar days of receipt. Current funding will distribute up to $250,000.00 per each of the 5 fiscal years covered by this agreement.

References

City of San Diego. 2020. Biennial Receiving Waters Monitoring and Assessment Report, 2018-2019. City of San Diego Ocean Monitoring Program, Public Utilities Department, Environmental Monitoring & Technical Services Division, San Diego, CA

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Terrill, E., K. Sung Yong, L. Hazard, and M. Otero. 2009. Final Report. Coastal Observations and Monitoring in South Bay San Diego. IBWC / Surfrider Consent Decree. Scripps Institution of Oceanography, University of California, San Diego, CA

PROPOSED BUDGET
Support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls

FY23	
Item Category	**Annual cost**
Hardware total	$16,000
Controller/telem/power total	$6,500
Data Service total	$6,400
Labor - technical total	$113,180
Labor - Data total	$39,000
UCSD Fees (38%)	$68,810
Total Cost	**$249,890**

FY24	
Item Category	**Annual cost**
Hardware total	$16,000
Controller/telem/power total	$6,500
Data Service total	$6,600
Labor - technical total	$113,598
Labor - Data total	$38,312
UCSD Fees (38%)	$68,784
Total Cost	**$249,794**

FY25	
Item Category	**Annual cost**
Hardware total	$16,000
Controller/telem/power total	$6,500
Data Service total	$8,500
Labor - technical total	$109,340
Labor - Data total	$40,611
UCSD Fees (38%)	$68,761
Total Cost	**$249,712**

FY26	
Item Category	**Annual cost**
Hardware total	$16,000
Controller/telem/power total	$6,500
Data Service total	$8,500
Labor - technical total	$110,031
Labor - Data total	$40,104
UCSD Fees (38%)	$68,831
Total Cost	**$249,966**

FY27	
Item Category	**Annual cost**
Hardware total	$16,000
Controller/telem/power total	$6,500
Data Service total	$8,250
Labor - technical total	$114,103
Labor - Data total	$36,269
UCSD Fees (38%)	$68,827
Total Cost	**$249,949**

TIME SCHEDULE

Support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls.

Fiscal Years 2023 - 2027 (July I, 2022 - June 30, 2027)

Ongoing technical support of Real-time Oceanographic Moorings and Ocean Observing System, including but not limited to technical support retrieving and redeploying mooring systems, data management and maintenance, system upgrades and enhancements, web-based data hosting, and other services as requested.

Regular Mooring Service and Deployments

FY 2023

- September 2022: Point Loma outfall mooring system retrieval and re-deployment.
- December 2022: South Bay outfall mooring system retrieval and re-deployment.
    - *SIO to submit technical documentation to the City after each mooring deployment (see Scope of Services for details).*
- June 2023: SIO to integrate City purchased weather station into South Bay and Point Loma moorings.
- June 2023: Annual review meeting with City staff to discuss deployment issues, equipment considerations, and plans for the production of a mooring technical manual.

FY2024

- September 2023: Point Loma outfall mooring system retrieval and re-deployment.
- December 2023: South Bay outfall mooring system retrieval and re-deployment.
    - *SIO to submit technical documentation to the City after each mooring deployment (see Scope of Services for details).*
- June 2024: Annual review meeting with City staff to discuss deployment issues, equipment considerations, and progress towards the production of mooring technical manual.

FY 2025

- September 2024: Point Loma outfall mooring system retrieval and re-deployment.
- December 2024: South Bay outfall mooring system retrieval and re-deployment.
    - *SIO to submit technical documentation to the City after each mooring deployment (see Scope of Services for details).*
- June 2025: Annual review meeting with City staff to discuss deployment issues, equipment considerations, and progress towards the production of mooring technical manual.

FY 2026

- September 2025: Point Loma outfall mooring system retrieval and re-deployment.
- December 2025: South Bay outfall mooring system retrieval and re-deployment.
    - *SIO to submit technical documentation to the City after each mooring deployment (see Scope of Services for details).*

- June 2026: Annual review meeting with City staff to discuss deployment issues, equipment considerations, and progress towards the final production of mooring technical manual.

FY 2027

- September 2026: Point Loma outfall mooring system retrieval and re-deployment.
- December 2026: South Bay outfall mooring system retrieval and re-deployment.
    - *SIO to submit technical documentation to the City after each mooring deployment (see Scope of Services for details).*
- June 2027: Annual review meeting with City staff to discuss deployment issues, equipment challenges, and review of final mooring technical manual.

Public Utilities Department

Support for Real-Time Oceanographic Mooring Systems for the Point Loma and South Bay Ocean Outfalls

First Amendment

May 18th, 2020

Ryan M. Kempster, Ph.D. (Ocean Monitoring Program Manager)
Adriano Feit (Marine Biologist III and Contract Coordinator)
Stephanie Jaeger (Marine Biologist II and Project Lead)

The City of SAN DIEGO

Requested Actions

1. **Authorize the Mayor to execute an Amendment to the existing contract with the Scripps Institution of Oceanography to continue to provide support for the City's Real-Time Oceanographic Mooring Systems**

2. **Authorize the expenditure of $1,250,000 to fund this agreement.**

Background and History

Point Loma Wastewater Treatment Plant

South Bay Water Reclamation Plant

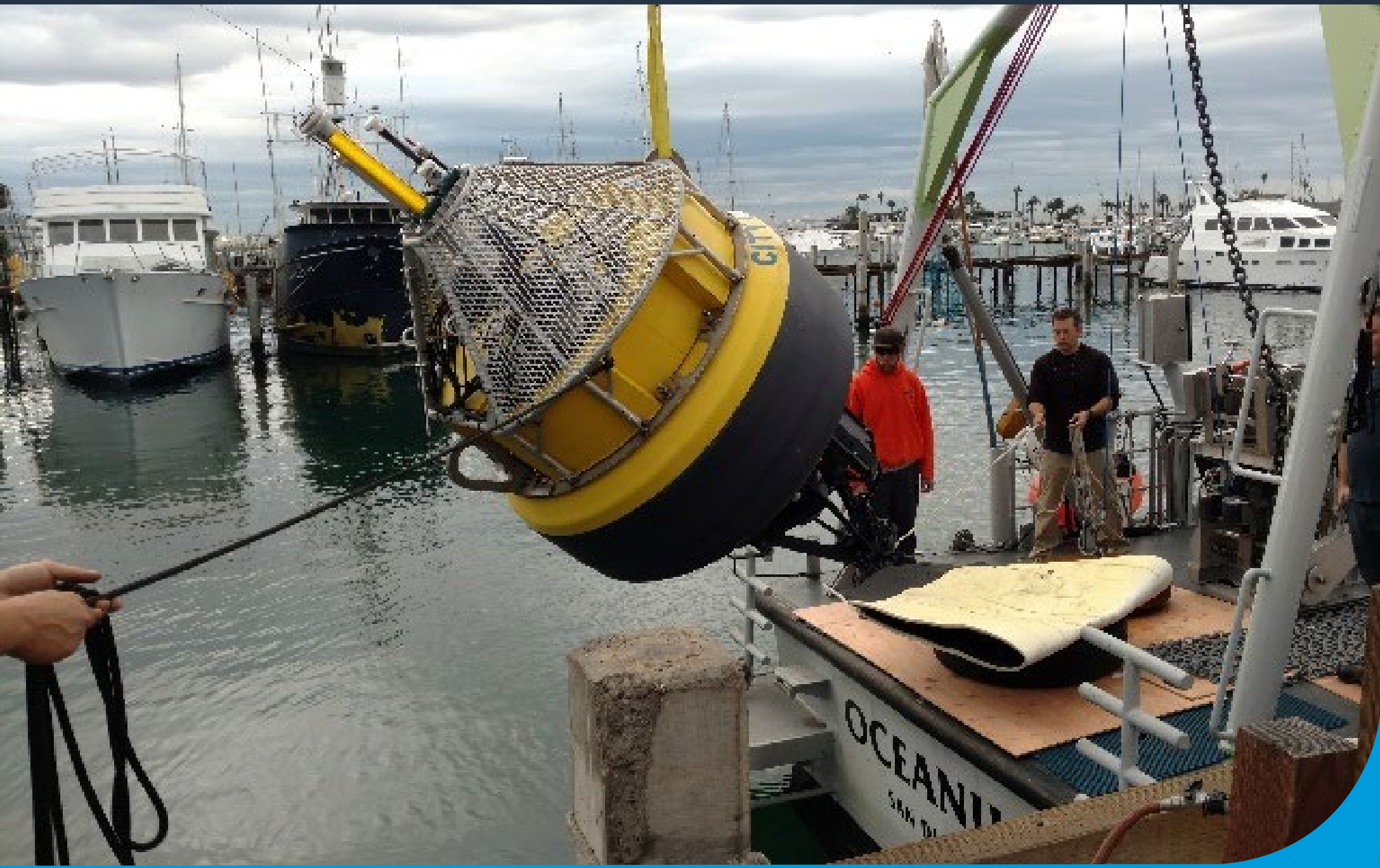
Point Loma Ocean Outfall

South Bay Ocean Outfall

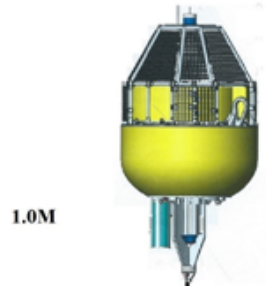
South Bay International Wastewater Treatment Plant

Background and History

Background and History



Background and History



1.0M
Current Profile
Temperature
Conductivity
Dissolved Oxygen
PCO2
Chlorophyll-a
CDOM
pH
Nitrate

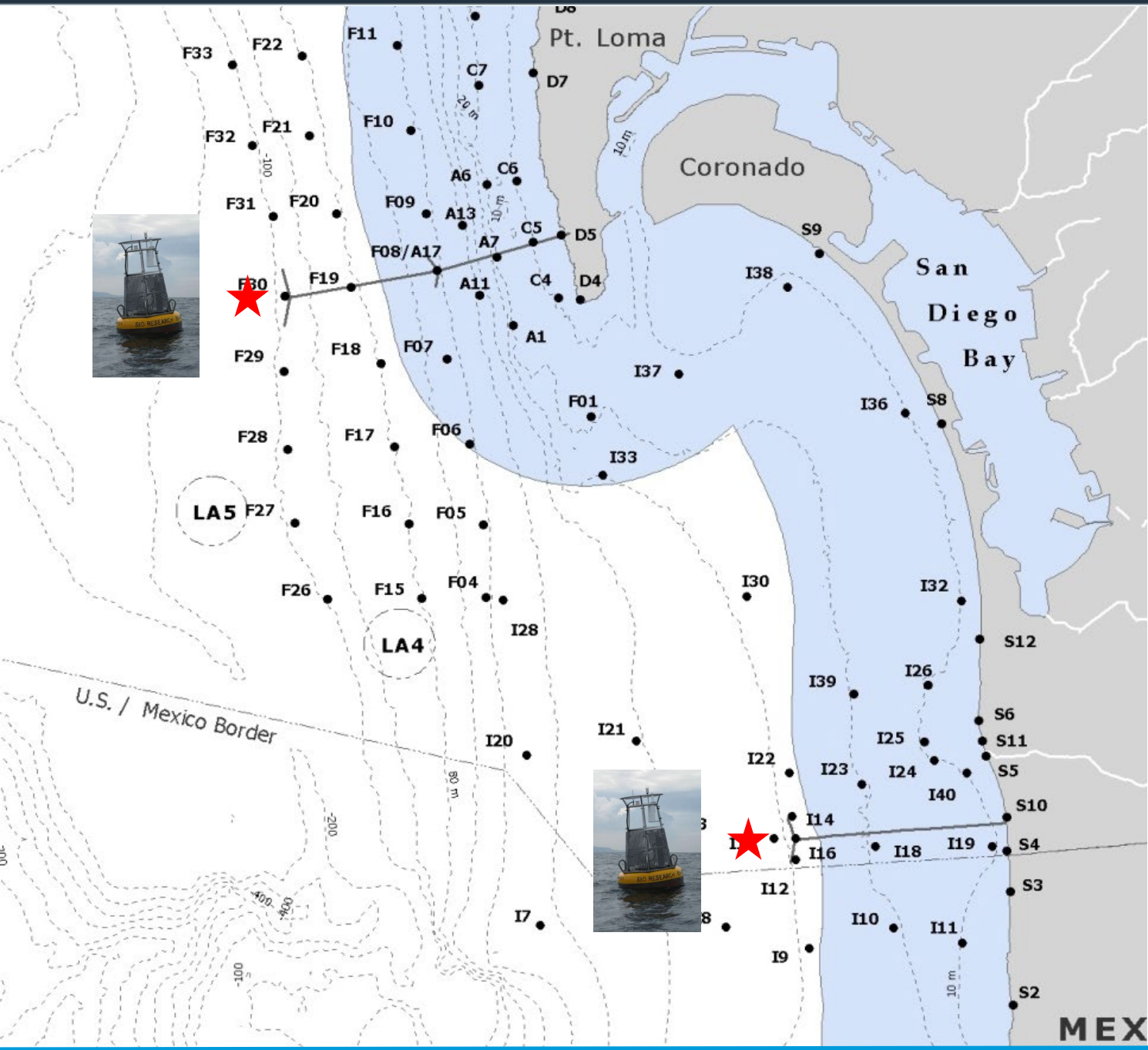
10.0M
Temperature
Conductivity

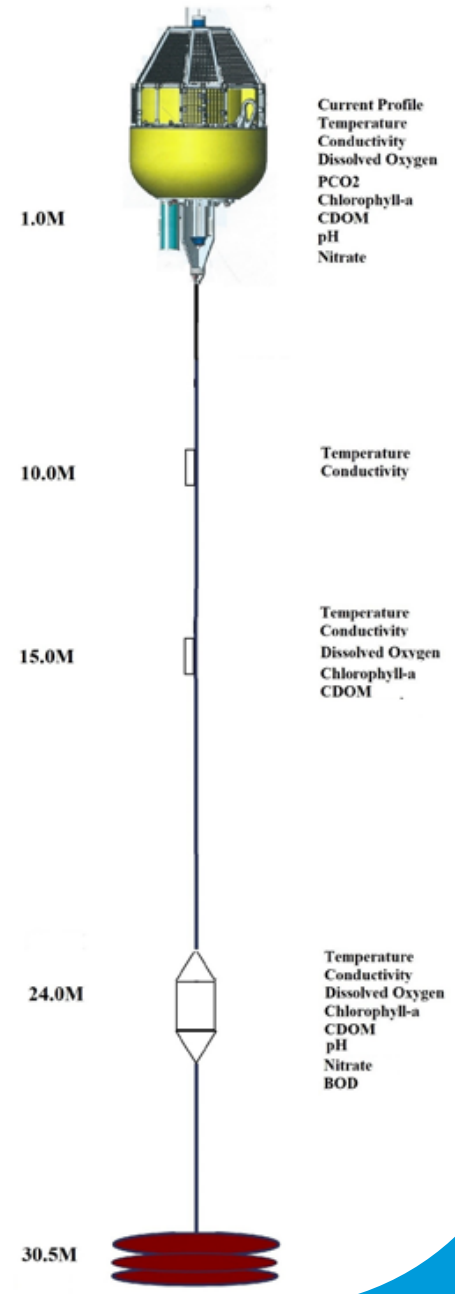
15.0M
Temperature
Conductivity
Dissolved Oxygen
Chlorophyll-a
CDOM

24.0M
Temperature
Conductivity
Dissolved Oxygen
Chlorophyll-a
CDOM
pH
Nitrate
BOD

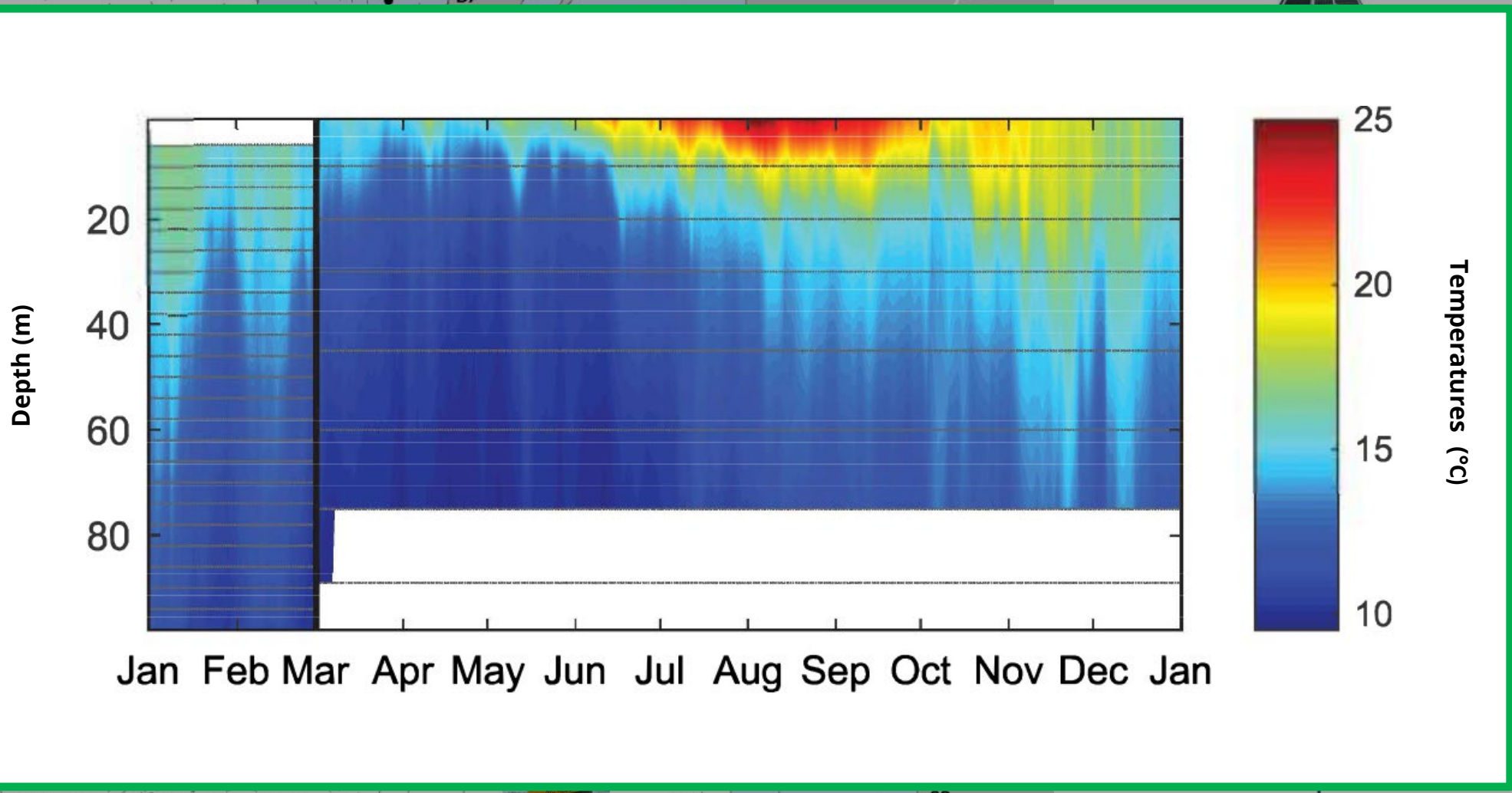
30.5M

Background and History





Background and History



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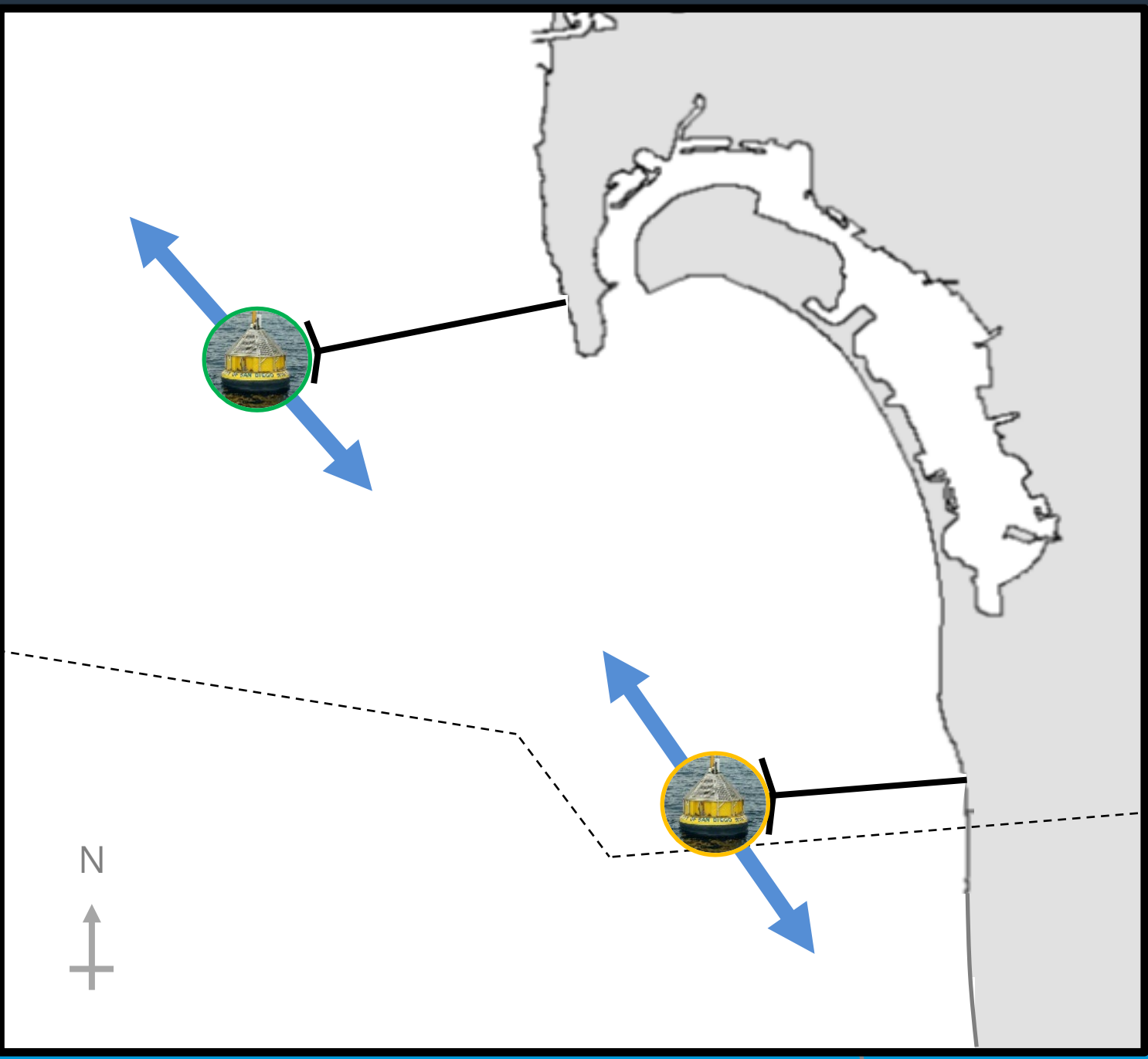
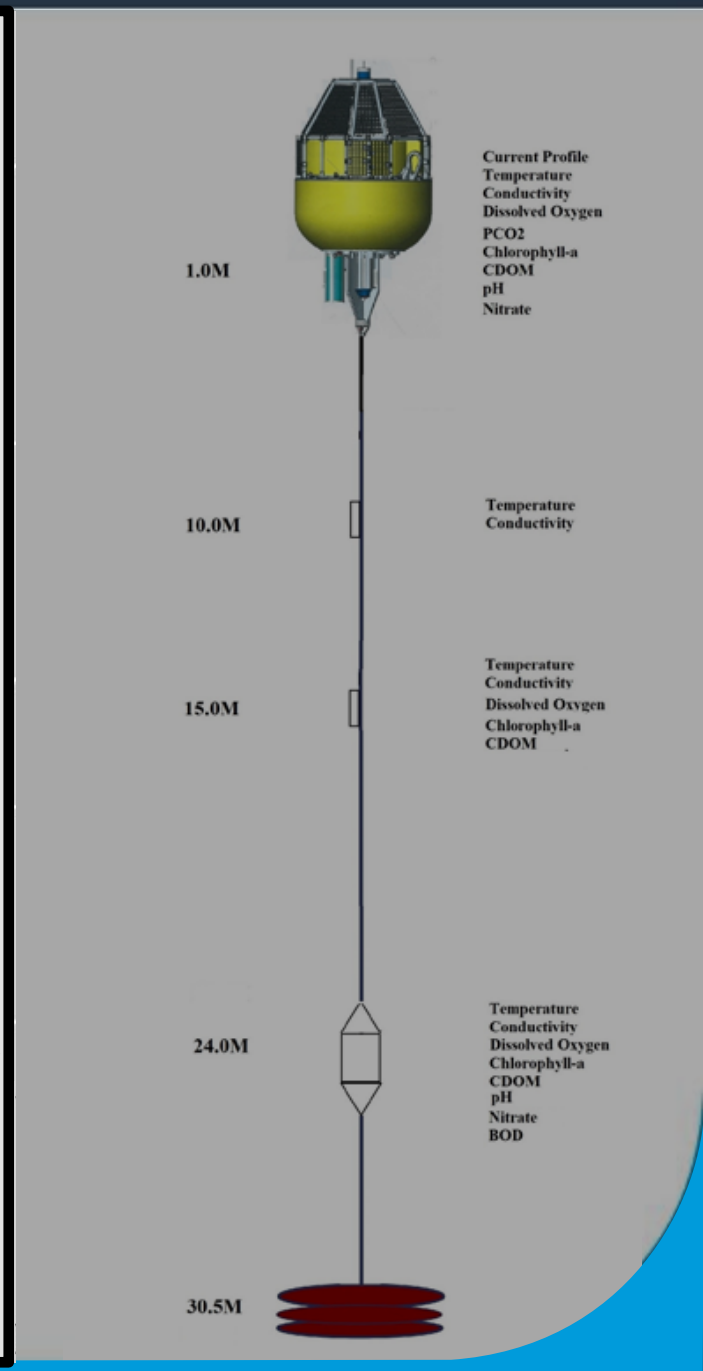
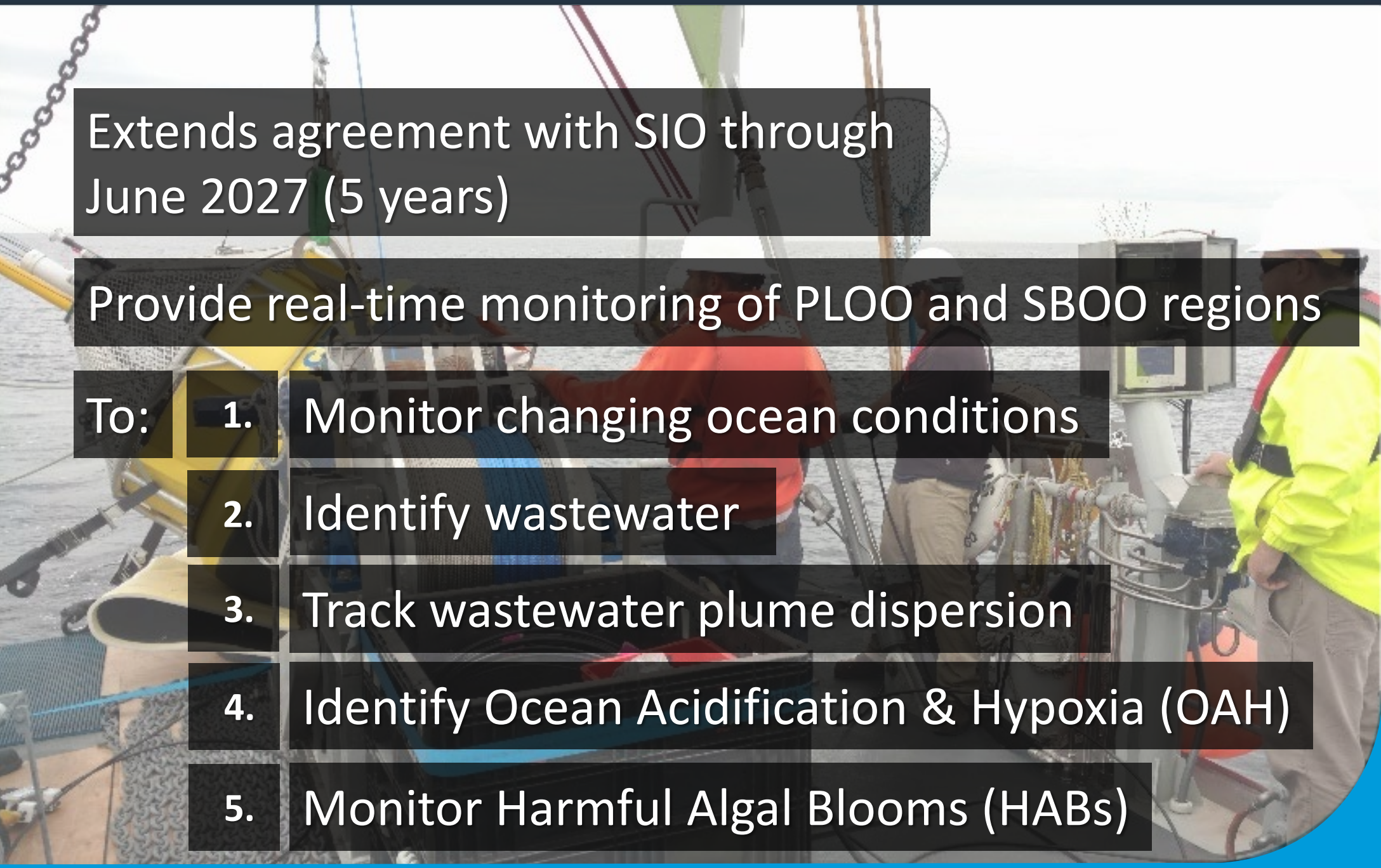




Benefits to the City

1. Represents a significant contribution to the City's enhanced ocean monitoring efforts for the San Diego region.
2. Fulfills an NPDES permit requirement for the Pt Loma and South Bay treatment plants.
3. Provides critical scientific information in support of the City's 301(h) modified permit for Pt Loma.
4. Differentiates effects of wastewater discharge on coastal ecosystems relative to other anthropogenic or natural factors.
5. City's moorings are networked with Del Mar mooring forming a comprehensive state-of-the-art ocean observing system.
6. Continues a scientifically unique method of tracking wastewater discharged from the Pt Loma and South Bay ocean outfalls

Contract First Amendment



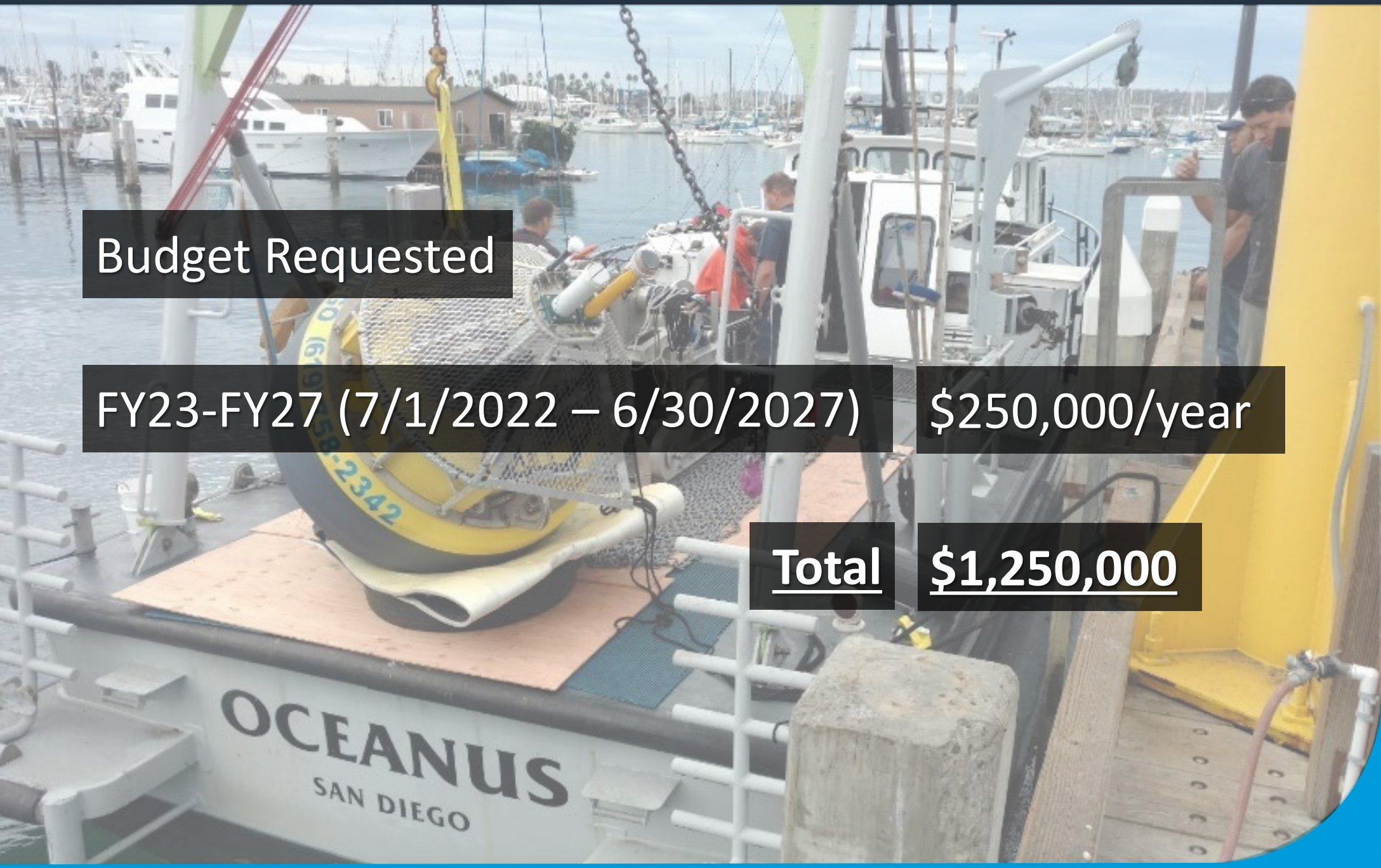
Extends agreement with SIO through June 2027 (5 years)

Provide real-time monitoring of PLOO and SBOO regions

To:

1. Monitor changing ocean conditions
2. Identify wastewater
3. Track wastewater plume dispersion
4. Identify Ocean Acidification & Hypoxia (OAH)
5. Monitor Harmful Algal Blooms (HABs)

Contract First Amendment



Budget Requested

FY23-FY27 (7/1/2022 – 6/30/2027)	$250,000/year
Total	**$1,250,000**

Support for Agreement

"The discharger shall install and operate permanent real-time oceanographic mooring systems near the terminus of the PLOO and SBOO."
2017 PLWTP, SBWRP, SBIWTP NPDES Permits

"The Discharger shall continue to implement the Plume Tracking Monitoring Plan for the Point Loma and South Bay Ocean Outfall Regions"
2021 SBWRP and SBIWTP NPDES Permit

SDRWQCB and EPA	Continue to value and support this work as part of the PLWTP, SBWRP and SBIWTP NPDES Permits.
USIBWC	Continues to financially support this work as part of their ongoing contract with the City.
City Council	Previous contract was approved by council (Oct, 2017). New agreement will be presented on June 13th
Metro JPA	New agreement will be presented on June 1st

Project Contacts

City of San Diego

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Ocean Monitoring Program Manager
rkempster@sandiego.gov

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Peter Vroom, Ph.D.
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Stephanie Jaeger
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Project Lead
sjaeger@sandiego.gov

Scripps Institution of Oceanography

Uwe Send, Ph.D.
Principal Investigator
usend@ucsd.edu

ATTACHMENT 10

RECOMMENDED APPROVAL OF EXECUTION OF POLYDYNE, INC. CONTRACTS FOR MANNICH POLYMER AND ANIONIC POLYMER

METRO JPA/TAC
Staff Report
Date: 5/11/22

Project Title: Execution of Polydyne Inc. Contracts for Mannich Polymer and Anionic Polymer

Requested Action:
JPA/TAC authorization to spend approximately $1,690,649 on a five-year contract for the purchase of Anionic Polymer chemical used to wastewater treatment at Point Loma Wastewater Treatment Plant. The $1,690,649 is 33% of the total estimated expense $5,123,180 for Anionic Polymer over the five years; and authorization to spend approximately $6,504,566 on a five-year contract for the purchase of Mannich Polymer chemical used to treat biosolids at the Metropolitan Biosolids Center.

The $1,690,649 is 33% of the total estimated expense $5,123,180 for Anionic Polymer over the five years. The $6,504,566 is 33% of the total estimated expense $19,710,807 for Mannich Polymer over the five years.

Total estimated expense to Metro JPA for both contracts is $8,195,215.

Recommendations:
Approve the Metro expenditure request and forward to the Metro Commission.

Metro TAC:	To be submitted for consideration
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	The prior five-year contract from ITB No. 10080898-17-H was for an amount not to exceed $11,210,788 to purchase Mannich Polymer with Polydyne Inc. On December 8, 2017, City Council approved a resolution (R-311434) authorizing the contract.

Fiscal Impact:

Is this projected budgeted?	X Yes ___ No ____
Cost breakdown between Metro & Muni:	It is estimated that funding will be distributed as follows: Metro $5,123,180; Muni $0 It is estimated that funding will be distributed as follows: Metro $19,710,807; Muni $0
Fiscal impact to the Metro JPA:	33% of Metro costs is approximately $1,690,649 for Anionic Polymer 33% of Metro costs is approximately $6,504,566 for Mannich Polymer

Capital Improvement Program:

New Project?	Yes ___ No ___ N/A _X__
Existing Project?	Yes ___ No ___ Upgrade/addition ___ Change ___ N/A X

Previous TAC/JPA Action:
Yes

Additional/Future Action: Anticipated for Environmental Committee Meeting in June 2022.

City Council Action: Anticipated for July 2022.

Background: *Provide background information on the need for the project*

The Point Loma Wastewater Treatment Plant (PLWWTP) uses approximately 80,000 dry pounds of Anionic Polymer per year for the wastewater treatment process. This chemical separates the incoming solids from liquids through a process called flocculation in our sedimentation basins. The Anionic

Polymers' ability to flocculate solids is central to their role in our wastewater treatment. PLWWTP uses chemically enhanced primary treatment, "CEPT", in their primary sedimentation basins to meet the required Total Suspended Solids removal rates set forth in our National Pollutant Discharge Elimination System permit and the San Diego Regional Water Quality Control Board orders.

Metropolitan Biosolids Center (MBC) provides two treatment processes, the thickening and digestion of the raw solids from the North City Water Reclamation Plant (NCWRP), and the combined dewatering of biosolids from Point Loma Wastewater Treatment Plant and NCWRP. This polymer is used for the liquid/solid separation of the sludge in both the thickening and dewatering centrifuges. It assists with binding the solids together, which allows production of a dryer product. Consequently, hauling costs of dewatered biosolids, and amounts of dissolved solids returned to PLWTP are lowered. Mannich Polymer is the type of polymer that has been tested to provide the best results and is the most cost-effective for this process.

Discussion: *Provide information on decisions made to advance the project*
This is an operational item for the purpose of treating wastewater at the Point Loma Wastewater Treatment Plant and for treating biosolids at the Metropolitan Biosolids Center.

Bid Results: *If bidding was done provide bidding format and results*
An Invitation to Bid (ITB), 10089845-22-J, for the purchase of Anionic Polymer was released by Purchasing & Contracting Department on February 11, 2022. The bid process closed on March 11, 2022. Purchasing & Contracting Department received one (1) responsive bid and Polydyne Inc. was determined the lowest responsive and responsible bidder and was sent a Notice of Intent to Award on April 7, 2022.

An Invitation to Bid (ITB), 10089844-22-J, for purchase of Mannich Polymer was released by Purchasing & Contracting Department on December 8, 2021. The bid process closed on December 29, 2021. Purchasing & Contracting Department received one (1) responsive bid and Polydyne Inc. was determined the lowest responsive and responsible bidder and was sent a Notice of Intent to Award on January 25, 2022.

Mannich and Anionic Polymer Contracts with Polydyne Inc.

Metro JPA Technical Advisory Committee
May 18, 2022

Public Utilities Department

The City of SAN DIEGO

BACKGROUND

- The Point Loma Wastewater Treatment Plant (PLWWTP) uses approximately 80,000 dry pounds of Anionic Polymer per year for the wastewater treatment process.
- This chemical separates the incoming solids from liquids through a process called flocculation in our sedimentation basins. The Anionic Polymers' ability to flocculate solids is central to their role in our wastewater treatment.
- PLWWTP uses chemically enhanced primary treatment, "CEPT", in their primary sedimentation basins to meet the required Total Suspended Solids removal rates set forth in our National Pollutant Discharge Elimination System permit and the San Diego Regional Water Quality Control Board orders.

BACKGROUND

- Metropolitan Biosolids Center (MBC) provides two treatment processes, the thickening and digestion of the raw solids from the North City Water Reclamation Plant (NCWRP), and the combined dewatering of biosolids from Point Loma Wastewater Treatment Plant and NCWRP.
- Mannich polymer is used for the liquid/solid separation of the sludge in both the thickening and dewatering centrifuges. It assists with binding the solids together, which allows production of a dryer product.
- Consequently, hauling costs of dewatered biosolids, and amounts of dissolved solids returned to PLWTP are lowered. Mannich Polymer is the type of polymer that has been tested to provide the best results and is the most cost-effective for this process.

INVITATION TO BID RESULTS

- An Invitation to Bid (ITB), 10089845-22-J, for the purchase of Anionic Polymer was released by Purchasing & Contracting Department on February 11, 2022. The bid process closed on March 11, 2022. Purchasing & Contracting Department received one (1) responsive bid and Polydyne Inc. was determined the lowest responsive and responsible bidder and was sent a Notice of Intent to Award on April 7, 2022..
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CONTRACTS

- 5-year contracts for both Mannich Polymer and Anionic Polymer with Polydyne, Inc.
- Anionic Polymer contract request is for $1,690,649, which is 33% of the total estimated expense of $5,123,180.
- Mannich Polymer contract request is for $6,504,566, which is 33% of the total estimated expenditures of 19,710,807.
- Total estimated expense to Metro JPA for both contracts is $8,195,215

RECOMMENDED ACTION

- Approve the Metro expenditure and forward to the Metro Commission.

QUESTIONS

ATTACHMENT 12

INDUSTRIAL WASTEWATER CONTROL COMMITTEE UPDATE

The City of SAN DIEGO

Public Utilities Department
Environmental Monitoring & Technical Services Division

March 24, 2022

Dear Permittee:

Subject: Revised fees for Industrial User Discharge Permits

Thank you for your continued cooperation in the City of San Diego's (City's) Industrial Wastewater Control Program by obtaining an Industrial User Discharge Permit, which is required for industrial users discharging to the City's metropolitan sewerage system. Your participation as an industrial user is crucial to ensure that the City's sewerage system, the environment, and public health are protected and can meet all regulatory requirements. We value you as a partner in the region and appreciate the opportunity to assist you with your industrial wastewater. You may recall that last year I provided an update on upcoming permit fee changes which were needed to reflect the City's costs to perform related work. I am now reaching out to inform you of the approved revised permit fees. These fees are applicable to all industrial wastewater users and trucked waste permittees that discharge to the City's system.

On September 21, 2021, the San Diego City Council adopted resolution #R-313725 that implemented the updated permit fees over a four-year period starting July 1, 2022. Based on customer input about the financial impacts of the updated fees, we are incrementally increasing the fees by 25% each year. Please see the tables below showing the changes for each year. These fees are expected to cover the annual cost of inspections, sampling and tasks associated with regulatory reporting.

Permit Fees	25% on 7/1/22	50% on 7/1/23	75% on 7/1/24	100% on 7/1/25
Program Task				
SIU - Standard	$2250	$4500	$6749	$8999
SIU - Complex	$7476	$14952	$22427	$29903
Non-SIU / Categorical Process	$1319	$2639	$3958	$5277
Enhanced Source Control	$651	$1302	$1952	$2603

Trucked Waste Fees	25% on 7/1/22	50% on 7/1/23	75% on 7/1/24	100% on 7/1/25
Program Task				
Base Permit (BP)	$322	$645	$967	$1289
Self-Monitoring (SM)	$650	$1299	$1949	$2598
High Strength Surcharges Billing (HSSB)	$818	$1636	$2453	$3271
Pre-arranged after-hours discharge request	$27	$54	$80	$107
Emergency after hours discharge fee	$57	$113	$170	$226

9192 Topaz Way, MS 901D
San Diego, CA 92123
jnewman@sandiego.gov

T (858) 654-4106
sandiego.gov

The report, Industrial Waste Control Program Cost Allocation Study and User Model Guide, describing how the fees were developed is available for review on our website: https://www.sandiego.gov/public-utilities/permits-construction/industrial-user-permits.

Invoices with the revised permit fees will start being invoiced in July 2022. The permit invoices are sent on a yearly basis from the date of your permit activation. If you are unsure which permit fees may apply to you, please reach out to me at 858-654-4106 or email me at jnewman@sandiego.gov.

Sincerely,

Joy Newman

Joy R. Newman
Program Manager
Public Utilities Department

JN:jrn

Note: If you are not billed by the City of San Diego for your Industrial Discharge Permits, please contact your billing entity directly for the timing of your invoices.

ATTACHMENT 18

IRWM UPDATE

The 5 W's of

SAN DIEGO Integrated Regional Water Management

IRWM is more than a grant program. It is an established structure of regional collaboration that brings together all facets of water management and climate solutions to achieve multiple benefits.

WHY
participate?

A Call for Projects for ~$15M of available grant funding for water resources projects will open on **April 6, 2022**

SINCE 2005

$116.8M of IRWM funding has been dispersed through the Program to support water resources projects

&

>70 organizations have participated as voting members on the Regional Advisory Committee, bringing diverse stakeholders to the table for integrated regional planning

WHO
is involved?

The Regional Water Management Group, which is comprised of the San Diego County Water Authority, the City of San Diego, and the County of San Diego, funds and provides staff support for day-to-day operations. The management group is advised by the Regional Advisory Committee, which includes 31 voting members representing the diversity of public and non-profit stakeholders interested in the region's water management issues.

WHAT
is IRWM?

IRWM is a collaborative effort aimed at developing long-term water supply reliability, improving water quality, and protecting natural resources.

WHEN
is the Solicitation?

The Call for Projects will be held April 6 – May 13

APPLY HERE

WHERE
is the planning region?

The 11 westward draining watersheds in San Diego County comprise the region within County lines.

Learn more about the San Diego IRWM Program or apply, visit www.sdirwmp.org

ATTACHMENT 20

METROTAC WORK PLAN

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

Active Items	Description	Member(s)
Metro JPA AdHoc 2nd ARA	*JPA Board work group. Formed to review all items being negotiated in the 2nd 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* *Jim Peasley* *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).*	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, and 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.*	Beth Gentry Karyn Keze Dexter Wilson SD staff & consultants
2nd ARA Negotiating Team	This group was created to negotiate the 2nd 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: BBK, 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.	BBK JPA members as appropriate