



Las Virgenes – Triunfo Joint Powers Authority
4232 Las Virgenes Road, Calabasas, CA 91302
818.251.2100



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**Call and Notice of Special Meeting of the Governing Board of the
Las Virgenes – Triunfo Joint Powers Authority**

A Special Meeting of the Governing Board of the Las Virgenes – Triunfo Joint Powers Authority (JPA) is hereby called, and notice of said Special Meeting is hereby given for **5:00 p.m. on Monday, April 8, 2024**, at Triunfo Water & Sanitation District, 370 N. Westlake Boulevard, #100, Westlake Village, California 91362, to consider the following:

1. Call to Order
2. Special Meeting of April 8, 2024 (see attached agenda)
3. Adjourn

By Order of the Board of Directors
JAY LEWITT, Chair

A handwritten signature in blue ink, reading "David W. Pedersen".

David W. Pedersen, P.E.
Deputy Secretary

Dated: April 3, 2024

Jay Lewitt

Chair, Las Virgenes-Triunfo
Joint Powers Authority
President, Las Virgenes Municipal Water District
Board of Directors

James Wall

Vice Chair, Las Virgenes-Triunfo
Joint Powers Authority
Chair, Triunfo Water & Sanitation District
Board of Directors

LAS VIRGENES TRIUNFO JOINT POWERS AUTHORITY
Triunfo Water & Sanitation District
370 N. Westlake Boulevard, Suite 100
Westlake Village, CA 91362

AGENDA
JOINT POWERS AUTHORITY - SPECIAL MEETING
MONDAY, APRIL 8, 2024 – 5:00 PM

PUBLIC PARTICIPATION: The public may join this meeting virtually or attend in person in the Board Room. Teleconference participants will be muted until recognized at the appropriate time by the Chair. To join via teleconference, please use the following Webinar ID: 878 6834 9519

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878 6834 9519

For members of the public wishing to address the Board during Public Comment or during a specific agenda item, please press "Raise Hand" if you are joining via computer; or press *9 if you are joining via phone; or inform the Executive Assistant/Clerk of the Board if attending in person.

Members of the public can also access and request to speak at meetings live on-line, with audio and limited video, at www.lvmwd.com/livestream. To ensure distribution of the agenda, please submit comments 24 hours prior to the day of the meeting. Those comments, as well as any comments received during the meeting, will be distributed to the members of the Board of Directors and will be made part of the official public record of the meeting. Contact Josie Guzman, Executive Assistance/Clerk of the Board, at (818) 251-2123 or jguzman@lvmwd.com with any questions.

ACCESSIBILITY: If requested, the agenda and backup materials will be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in the implementation thereof. Any person who requires a disability-related modification or accommodation, in order to attend or participate in a meeting, including auxiliary aids or services, may request such reasonable modification or accommodation by contacting the Executive Assistant/Clerk of the Board by telephone at (818) 251-2123 or via email to jguzman@lvmwd.com at least 48 hours prior to the meeting.

Members of the public wishing to address the Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols, complete a speakers' card, and hand it to the Clerk of the Board. Speakers will be recognized in the order the cards are received. A live webcast of the meeting will be available at LVMWD.com. Also, a web-based version of the speaker card is available for those who would like to submit written comments electronically or request to make public comment by telephone during the meeting.

PLEDGE OF ALLEGIANCE

1. **CALL TO ORDER AND ROLL CALL**
2. **APPROVAL OF AGENDA**
3. **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors ON MATTERS NOT APPEARING ON THE AGENDA, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2.

4. **CONSENT CALENDAR**

Matters listed under the Consent Calendar are considered to be routine, non-controversial and normally approved with one motion. If discussion is requested by a member of the Board on any Consent Calendar item, or if a member of the public wishes to comment on any item, that item will be removed from the Consent Calendar for separate action.

- 4.A **Minutes: Regular Meeting of March 4, 2024 Pg. 6)**
Approve.
- 4.B **Statement of Revenues, Expenses and Changes in Net Position: February 2024 (Pg 14)**
Receive and file the Statement of Revenues, Expenses and Changes in Net Position for the period ending on February 29, 2024.
- 4.C **Heal the Bay's "Bring Back the Beach" Event: Attendance (Pg. 17)**
Authorize one Board Member from each agency and the Administering Agent/General Manager to attend the Heal the Bay "Bring Back the Beach" event at a cost of \$750 per person.
- 4.D **Tapia Summer Season TMDL Compliance and Meter Replacement Project: Final Acceptance (Pg. 22)**
Authorize the Administering Agent/General Manager to approve Scope Change No. 7, in the amount of \$31,693, with Stantec Consulting Services, Inc., for additional professional services and execute a Notice of Completion and have the same recorded; waive liquidated damages associated with delays during construction; and, in the absence of claims from subcontractors and others, release the retention, in the

amount of \$150,970.91, 30-calendar days after filing the Notice of Completion for the Tapia Summer Season TMDL Compliance and Meter Replacement Project.

4.E **Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project: Final Acceptance** (Pg. 32)

Re-appropriate funding from CIP Job No. 10795 – Final Effluent Pump Station Rehabilitation Project, in the amount of \$78,836.13, to CIP Job No. 10809 – Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project.

5. **ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS**

5.A **Recognition of Director Janna Orkney's Service to the Las Virgenes-Triunfo Joint Powers Authority**

5.B **Welcome TWSD Director Carl Jarecky to the JPA Board of Directors** (Pg. 38)

5.C **State and Federal Legislative Update** (Pg. 40)

5.D **Pure Water Project Las Virgenes-Triunfo: Update** (Pg. 84)

5.E **Presentation on Wildlife of the Watershed**

6. **ACTION ITEMS**

6.A **Dye-Tracer Study for Las Virgenes Reservoir: Award** (Pg. 88)

Accept the proposal from Coastal Observing Research and Development Center, and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$305,100, for the completion of a dye-tracer study in Las Virgenes Reservoir to support the permitting process for future operation of the Pure Water Project Las Virgenes-Triunfo.

6.B **Annual Supply and Delivery of Shaftless Screws and Liners: Award** (Pg. 102)

Accept the bid from Austin-Mac, Inc., and authorize the Administering Agent/General Manager to approve a one-year purchase order, in the amount of \$150,000, with four one-year renewal options for the annual supply and delivery of shaftless screws and liners.

6.C **Pure Water Project Las Virgenes-Triunfo: Discussion of Architectural Theme for Advanced Water Purification Facility** (Pg. 112)

Review and provide feedback on the architectural theme for the Advanced Water Purification Facility.

7. **BOARD COMMENTS**

8. **ADMINISTERING AGENT/GENERAL MANAGER REPORT**

9. **FUTURE AGENDA ITEMS**

10. **INFORMATION ITEMS**

10.A **Annual Supply and Delivery of Polymer: Award** (Pg. 137)

11. **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors ON MATTERS NOT APPEARING ON THE AGENDA, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2.

12. **ADJOURNMENT**

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

**LAS VIRGENES – TRIUNFO
JOINT POWERS AUTHORITY
MINUTES
REGULAR MEETING**

5:00 PM

March 4, 2024

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Rich Nagel.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair Jay Lewitt in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Directors Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, and Wall

Absent: None

2. APPROVAL OF AGENDA

Administering Agent/General Manager David Pedersen asked that Item 5A be deferred to the next JPA Board Meeting as former Director Janna Orkney was unable to attend the meeting to receive her proclamation, and that Item 7, Board Comments, be moved to follow Item 5B so that a report may be provided regarding the Association of California Water Agencies (ACWA) Washington DC Conference.

Director Coradeschi moved to approve the agenda as amended. Motion seconded by Director Polan. Motion carried 9-0 by the following vote:

AYES: Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: None

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR

A Minutes: Special Meeting of January 31, 2024, and Regular Meeting of February 5, 2024: Approve

B Statement of Revenues, Expenses, and Changes in Net Position

Receive and file the Statement of Revenues, Expenses, and Changes in Net Position for the period ending on January 31, 2024.

C Replacement Tractor for Rancho Las Virgenes Farm Sprayfields: Authorization

Authorize the Administering Agent/General Manager to issue a purchase order to Quinn Company, in the amount of \$90,021, for a Massey Ferguson 6712 CAB tractor for the Rancho Las Virgenes Farm Sprayfields.

Director Caspary moved to approve the Consent Calendar. Motion seconded by Director Tjulander. Motion carried 9-0 by the following vote:

AYES: Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: None

5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Recognition of Director Janna Orkney's Service to the Las Virgenes-Triunfo Joint Powers Authority

This item was deferred to the next JPA Board Meeting.

B State and Federal Legislative Update

Ana Schwab, federal lobbyist for the JPA with Best Best & Krieger LLP (BBK), reported that the attendees to the ACWA Washington DC conference held productive meetings with staff from the U.S. Bureau of Reclamation regarding the Pure Water Project Las Virgenes-Triunfo to ensure drought mitigation and resiliency. She stated that Congress was working on completing the appropriation cycle, and was expected to pass the Interior, Environment, Energy, Water, and Agriculture bills ahead of the President's State of the Union Address. She also stated that the remaining bills were expected to be passed by March 22nd. She noted that BBK was continuing to advocate for the Water Conservation Rebate Tax Parity Act to ensure that the JPA would not need to administer Forms 1099

for water conservation rebates, and ensuring that the JPA continues to receive federal support for the Pure Water Project Las Virgenes-Triunfo. She also reported that the Senate Committee on Environment and Public Works would hold a hearing on March 20th regarding passive receivers that receive per- and polyfluoroalkyl substances (PFAS) into their water and wastewater system without control from other mechanisms. She stated that this would go towards a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability exemption and that it remains a “polluter pays” law. She also stated that maximum contaminant levels (MCLs) and CERCLA designations for perfluorooctanoic acid (PFOA) and perfluorooctanoic sulfonate (PFOS) were expected in March. She responded to a question regarding whether H.R. 7008, Judicial Review Timeline Clarity Act, would impact PFAS regulations by stating that this bill would be related to judicial review of Section 404 permitting for the Water Pollution Control Act.

7. BOARD COMMENTS

Director Polan reported that meetings were held with Cory Maks, Chief of Staff for Congressman Brad Sherman and with Congresswoman Grace Napolitano’s staff during the ACWA Washington DC Conference to discuss resiliency and sustainability issues.

Director Shapiro reported that he attended meetings with Congresswoman Julia Brownley’s staff and other legislators’ staff, who expressed interest in issues related to PFAS. He acknowledged BBK’s efforts in arranging meetings in Washington DC.

Director Coradeschi also acknowledged BBK’s efforts during the Washington DC visit. He expressed an interest in seeing actual progress, especially on CERCLA liability.

Chair Lewitt stated that the purpose of attending the ACWA Washington DC conference was to educate the legislators on issues related to water and wastewater and build relationships, including with Gary Gold, Deputy Assistant Secretary for Water and Science. He reported that the group met with Senator Laphonza Butler and Congresswoman Julia Brownley, and visited the Botanical Gardens with attendees from the California Association of Sanitation Agencies (CASA) Washington DC Conference. He commended David Rydman, Operations Manager from Triunfo Water & Sanitation District, for providing information regarding the Pure Water Project Las Virgenes-Triunfo, and the BBK team for their efforts.

5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS (Continued)

B State and Federal Legislative Update

Syrus Devers, state lobbyist for the JPA with Syrus Devers Advocacy, reported that there were several proposed bills related to permit development and permit approval process, Proposition 218 remedies, and sanitation agencies procedures and connection fees. He stated that he previously reported on the Legislative Analyst's Office's report regarding concerns with the proposed outdoor water use efficiency standards, and subsequently AB 2894 (Gallagher), Urban Water Use Targets Indoor Residential Water Use, was introduced.

6. ACTION ITEMS

A Pure Water Project Las Virgenes-Triunfo: Authorization for Local Resources Program Funding

Pass, approve, and adopt proposed Resolution No. 33, authorizing the Administering Agent/General Manager to enter into an agreement with the Metropolitan Water District of Southern California for participation in the Local Resources Program, in a form approved by the General Counsel, to supplement funding for the Pure Water Project Las Virgenes-Triunfo.

RESOLUTION NO. 33

A RESOLUTION OF THE GOVERNING BOARD OF LAS VIRGENES-TRIUNFO JOINT POWERS AUTHORITY AUTHORIZING THE ADMINISTERING AGENT/GENERAL MANAGER, OR DESIGNEE, TO RECEIVE FUNDS, ENTER INTO A COOPERATIVE AGREEMENT, AND ADMINISTER A GRANT WITH THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA FOR PARTICIPATION IN THE LOCAL RESOURCES PROGRAM TO SUPPLEMENT FUNDING FOR THE PURE WATER PROJECT LAS VIRGENES-TRIUNFO.

Oliver Slosser, Engineering Program Manager, presented the report.

Director Coradeschi moved to approve Item 6A. Motion seconded by Director Caspary.

Mr. Slosser responded to a question regarding whether there would be a cost for this program by stating that he would follow-up.

Motion carried 9-0 by the following vote:

AYES: Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: None

B Pure Water Project Las Virgenes-Triunfo: Contract Amendment No. 2 for Owner's Advisor Services

Accept the proposal from Jacobs Engineering Group, Inc., and authorize the Administering Agent/General Manager to execute Contract Amendment No. 2, in the amount of \$7,294,443, for Owner’s advisor services during final design of the Pure Water Project Las Virgenes-Triunfo.

Oliver Slosser, Engineering Program Manager, presented the report.

Director Caspary moved to approve Item 6B. Motion seconded by Director Wall.

Jennifer Phillips, representing Jacobs Engineering Group (Jacobs), expressed her appreciation to the JPA Board for their support for the Pure Water Project Las Virgenes-Triunfo (Pure Water Project) and the water industry. She noted that the JPA had met several milestones in the planning effort. She also acknowledged Principal Engineer Eric Schlageter, Engineering Program Manager Oliver Slosser, Administering Agent/General Manager David Pedersen, and TWSD General Manager Mark Norris for their confidence in Jacobs.

Rich Nagel, representing Jacobs, thanked the JPA Board for their consideration of the contract amendment for Jacobs’ owner’s advisor services. He commended the JPA Board and staff for their collaborative, forward-thinking, and visionary efforts.

Mr. Slosser responded to a question regarding concerns with the guaranteed maximum price (GMP) by the Progressive Design-Build Team during due to inflation by stating that the timing of the GMP would come after the 60 percent design, and one of the early tasks by the Progressive Design-Build Team would include conducting a cost verification to review the estimates developed and the project elements.

Motion carried 9-0 by the following vote:

AYES: Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, Wall
NOES: None
ABSTAIN: None
ABSENT: None

C Pure Water Project Las Virgenes-Triunfo: Award of Phase 1 Progressive Design Build Contract

Accept the proposal from the Walsh Construction, Brown and Caldwell, and Carollo Engineers progressive design-build team, and authorize the Administering Agent/General Manager to execute a contract in the amount of \$21,430.215, for Phase 1 design-build services for the Pure Water Project Las Virgenes-Triunfo.

Oliver Slosser, Engineering Program Manager, presented the report.

Director Burns moved to approve Item 6C. Motion seconded by Director Caspary.

Adam Zacheis, representing Brown and Caldwell, stated that they were looking forward to being considered as the Progressive Design-Build Team, and noted that they also worked on the Pure Water Demonstration Facility.

Blayne Goodman, Design-Build Manager for Walsh Construction, stated that he was looking forward to working on the Phase 1 design-build services for the Pure Water Project Las Virgenes-Triunfo.

Andrew Salvesson, representing Carollo Engineers, stated that he was looking forward to working with the Progressive Design-Build Team.

A discussion ensued regarding the ability of the Progressive Design-Build Team to meet the timeline for completion of the 60 percent design plans, and concerns with the need for future expansion of the Advanced Water Purification Facility.

Motion carried 9-0 by the following vote:

AYES: Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: None

D Construction Management and Inspection Services for Malibou Lake Siphon Replacement Project: Award

Accept the proposal from canon Corporation ad authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$261,540, for construction management and inspection services for the Malibou Lake Siphon Replacement Project; and re-appropriate funding from CIP No. 10895, Tapia Final Effluent Pump Station Rehabilitation Project, to CIP No. 10803, Malibou Lake Siphon Replacement Project, in the amount of \$261,540.

Alex Leu, Senior Engineer, presented the report.

Director Burns moved to approve Item 6B. Motion seconded by Director Polan.

Mr. Leu responded to a question regarding monitoring for nesting birds in the area by stating that a permit was obtained from the Department of Fish and Wildlife that would construction activities from March 15 through November 15, 2024, and Padre Associates would assist with pre-construction environmental surveys for birds, snakes, and reptiles in the creek.

Motion carried 9-0 by the following vote:

AYES: Burns, Caspary, Coradeschi, Lewitt, Nye, Polan, Shapiro, Tjulander, Wall
NOES: None
ABSTAIN: None
ABSENT: None

7. BOARD COMMENTS

There were no other Board Comments.

8. ADMINISTERING AGENT/GENERAL MANAGER REPORT

Administering Agent/General Manager David Pedersen reported work had begun on audiovisual improvements in the LVMWD Board Room, which should be completed in early April. He noted that the next JPA meeting would be held at Triunfo Water & Sanitation District.

9. FUTURE AGENDA ITEMS

Director Polan moved for a presentation on the architectural character of the Pure Water Project Las Virgenes-Triunfo.

10. PUBLIC COMMENTS

None.

11. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **6:15 p.m.**

Jay Lewitt, Chair

ATTEST:

James Wall, Vice Chair

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Finance and Administration

SUBJECT: Statement of Revenues, Expenses and Changes in Net Position: February 2024

SUMMARY:

This report provides a year-to-date summary of unaudited Fiscal Year 2023-24 financial results for the JPA.

Through the first eight months of Fiscal Year 2023-24, the JPA generated operating revenues of \$1.7 million, 8.3 percent below prior year operating revenues of \$1.8 million. Operating revenues were below budgeted expectations through two-thirds of the fiscal year. Year-to-date operating expenses were \$16.1 million for the current fiscal year, 6.1 percent above prior year expenses of \$15.2 million and closely aligned with budgeted expectations through February 2024.

As of February 29, 2024, the JPA's net position (excess of assets over liabilities) was \$100 million. The entirety of the net position consisted of the JPA's investment in capital assets by its participants, Las Virgenes Municipal Water District (LVMWD) and Triunfo Water & Sanitation District (TWSD).

RECOMMENDATION(S):

Receive and file the Statement of Revenues, Expenses and Changes in Net Position for the period ending on February 29, 2024.

FINANCIAL IMPACT:

There is no financial impact associated with the report.

DISCUSSION:

JPA operating revenues, comprised primarily of wholesale recycled water sales, were \$1.7 million through February 29, 2024, 8.3 percent below prior year sales of \$1.8 million for the same period. JPA recycled water deliveries to its customers, Las Virgenes Municipal Water District and Triunfo Water & Sanitation District, were down 16.1 percent year-over-year through the first eight months of the fiscal year, driving the decrease in revenues year-over-year.

JPA operating expenses year-to-date through February 2024 were \$16.1 million, which were

\$0.9 million (or 6.1 percent) above the prior year's operating expenses of \$15.2 million. Actual expenses encompassed 66.1 percent of the \$24.3 million annual operating budget, in line with expectations through two-thirds of the fiscal year.

Tapia Water Reclamation Facility operating expenses of \$3.4 million in the current fiscal year were \$0.3 million (or 10.5 percent) above prior year expenses of \$3.1 million through February. The increase was driven mainly by increased costs for the purchase of sodium hypochlorite in the current fiscal year versus the prior year.

Expenses of \$1.8 million year-to-date through February 2024 at the Rancho Las Virgenes Composting Facility were down \$0.4 million versus the prior year's expenses of \$2.2 million. The decrease was driven mainly by a one-time cost of \$110,000 for the purchase and replacement of biofilter media in the prior year along with less outside service repair costs incurred during the first eight months of Fiscal Year 2023-24 versus the prior year.

General and administrative (G&A) expenses were \$9.0 million through the first eight months of the fiscal year, which equated to 65.8 percent of the \$13.7 million budgeted for Fiscal Year 2023-24, consistent with expectations through two-thirds of the fiscal year.

In the non-operating section of the statement, "other revenues" decreased by approximately \$502,000 through February 2024 versus the prior year. The decrease in revenues year-over-year was due mainly to a one-time insurance claim payment of \$581,000 received by the JPA in August of the prior year. The payment reimbursed the JPA for building damage repair costs at the Rancho Las Virgenes Composting Facility that resulted from the Woolsey Fire in 2018.

As of February 29, 2024, the JPA's net position (excess of assets over liabilities) was \$100 million. The entirety of the net position consisted of the JPA's investment in capital assets by its participants, Las Virgenes Municipal Water District (LVMWD) and Triunfo Water & Sanitation District (TWSD).

Attached is a statement that summarizes the JPA's Fiscal Year 2023-24 year-to-date financial results through February 29, 2024.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Brian Richie, Finance Manager

ATTACHMENTS:

[Statement of Revenues, Expenses and Changes in Net Position: February 2024](#)

LAS VIRGENES-TRIUNFO JOINT POWERS AUTHORITY
Statements of Revenues, Expenses, and Changes in Net Position
For the Months Ended February 29, 2024 (Preliminary) and 2023
(dollars in thousands)



	Annual Budget 2023/24	Through 67% of fiscal year Actual Year-to-Date		Variance with Prior Year Positive (Negative) 2023/24 to 2022/23
		2023/24	2022/23	
OPERATING REVENUES:				
Wholesale recycled water sales	\$ 2,734	\$ 1,639	\$ 1,794	\$ (155)
Other income	65	37	34	3
Total operating revenues	2,799	1,676	1,828	(152)
OPERATING EXPENSES:				
Treatment Plant	4,574	3,377	3,060	317
Recycled water transmission and distribution	2,121	1,478	1,420	58
Compost Plant	3,539	1,848	2,261	(413)
Sewer	175	134	108	26
General and administrative	13,666	8,999	8,068	931
Other operating expenses	271	246	247	(1)
Total operating expenses	24,346	16,082	15,164	918
OPERATING INCOME (LOSS) BEFORE BILLING TO PARTICIPANTS	(21,547)	(14,406)	(13,336)	(1,070)
Billing to Participants	21,547	13,714	12,534	1,180
OPERATING INCOME (LOSS)	-	(692)	(802)	110
NONOPERATING REVENUES (EXPENSES):				
Interest income (expense)	-	257	125	132
Other revenues (expenses)	-	84	586	(502)
Total nonoperating revenues (expenses)	-	341	711	(370)
CHANGES IN NET POSITION	-	(351)	(91)	(260)
NET POSITION:				
Beginning of fiscal year	100,333	100,333	101,133	(800)
Ending Net Position	\$ 100,333	\$ 99,982	\$ 101,042	\$ (1,060)

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: General Manager

SUBJECT: Heal the Bay's "Bring Back the Beach" Event: Attendance

SUMMARY:

Each year, the environmental group Heal the Bay holds its "Bring Back the Beach" event in Santa Monica as one of its key fundraising activities. This year the event will be held on Thursday, May 16, 2024, at the Jonathan Club in Santa Monica. Over the years, JPA Directors have attended the event to build relationships, not only with Heal the Bay, but also with other environmental group representatives attending the function. Previously, the JPA reserved a 10-seat table, but when the costs rose from \$3,000 to \$5,000 and currently at \$10,000, it was decided to only send the Chairs of each Board, or their designees. Individual seats for the event are \$750.

RECOMMENDATION(S):

Authorize one Board Member from each agency and the Administering Agent/General Manager to attend the Heal the Bay "Bring Back the Beach" event at a cost of \$750 per person.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds for the event are available in the adopted Fiscal Year 2023-24 JPA Budget. Historically, the expenses have been charged to the "Watershed Programs" portion of the JPA Administration Budget, which is allocated 70.6 percent to LVMWD and 29.4 percent to Triunfo Water & Sanitation District.

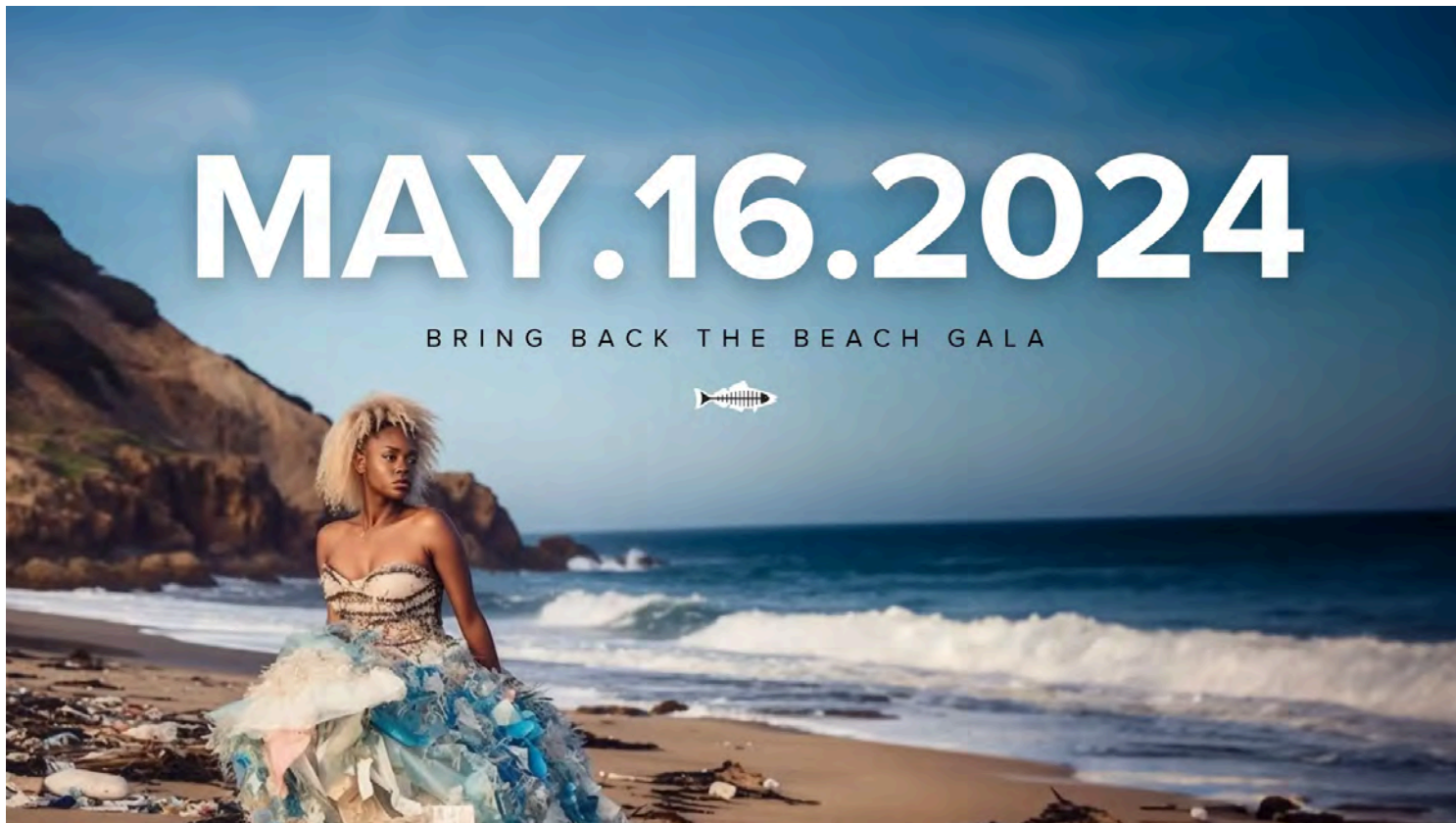
Prepared by: Josie Guzman, Executive Assistant/Clerk of the Board

ATTACHMENTS:

[Heal the Bay Bring Back the Beach Gala 2024](#)

Join us at the Bring Back the Beach Gala 2024

May 16 @ 5:30 pm - 10:00 pm



You are cordially invited to our Bring Back the Beach Gala on May 16, 2024.

As a fundraising benefit for Heal the Bay, this exclusive West Coast event welcomes hundreds of leaders from the business, political, entertainment, and environmental communities. [Reserve your tickets to our biggest event of the year!](#)

Our 2024 GALA is SINGLE-USE PLASTIC-FREE, because at Heal the Bay we believe that **#ReusablesBeautiful!** Help keep single-use plastic out of our watershed when you “BRING BACK THE BEACH” this May.



Sipping on fruity cocktails, enjoying a beautiful sunset with the salty breeze, digging your toes in the sand, and winning an amazing getaway—does life get any better? Yes, when it all benefits healthy, safe, and clean coastal waters and watersheds. Our Bring Back the Beach Gala sells out every year. So, please reserve your seat soon. We look forward to celebrating with you on the sand!



GET TICKETS

Event Details: Bring Back the Beach Annual Gala

Thursday, May 16, 2024

5:30 PM – 10 PM

**Jonathan Club Santa
Monica**

DAY OF DETAILS

INTERSTED IN SPONSORING THE GALA?

PURCHASE A SPONSORSHIP



SEE THE FULL 2023 GALA ALBUM



DETAILS

Date:

May 16 (2024-05-16)

Time:

5:30 pm - 10:00 pm

Event Category:

Events



VENUE

Jonathan Club in Santa Monica

850 Palisades Beach Rd.

Santa Monica, CA (California) 90403 United States

Phone

310-393-9245

[View Venue Website](#)

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Facilities and Operations

**SUBJECT: Tapia Summer Season TMDL Compliance and Meter Replacement Project:
Final Acceptance**

SUMMARY:

On September 13, 2021, the JPA Board authorized award of a construction contract to Pacific Hydrotech Corporation (PacHydro) for the Tapia Water Reclamation Facility (WRF) Summer Season Total Maximum Daily Load (TMDL) Compliance and Meter Replacement Project (Project). The scope of work generally included the extension of a potable water pipeline and appurtenances; reconfiguration of the effluent overflow basin at the Tapia WRF; installation of new flow meters; and associated mechanical and electrical installations.

Stantec Consulting Services, Inc. (Stantec) provided design plans and specifications and supported JPA staff with engineering services during construction. Stantec also provided a proposal for additional services needed to complete record drawings for the project, as well as to develop an Operations Manual/Standard Operating Procedures (SOP) for the new treatment process, which is recommended by staff for approval as Scope Change No. 7.

The construction work is now complete, and there are no significant outstanding issues to prevent final acceptance on the project. Staff recommends filing the Notice of Completion, waiving liquidated damages, and releasing the retention as stipulated in the contract documents. Staff also recommends accepting the proposal from Stantec to produce record drawings and write an SOP for the new treatment process.

RECOMMENDATION(S):

Authorize the Administering Agent/General Manager to approve Scope Change No. 7, in the amount of \$31,693, with Stantec Consulting Services, Inc., for additional professional services and execute a Notice of Completion and have the same recorded; waive liquidated damages associated with delays during construction; and, in the absence of claims from subcontractors and others, release the retention, in the amount of \$150,970.91, 30-calendar days after filing the Notice of Completion for the Tapia Summer Season TMDL Compliance and Meter Replacement Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total project cost is \$3,896,400.25, including \$31,693 for proposed Scope Change No. 7. Sufficient funds are available in the adopted Fiscal Year 2023-24 JPA Budget. No additional appropriation is required.

DISCUSSION:

Background:

The Tapia WRF Summer Season TMDL Compliance Project was developed in response to lower total nitrogen (TN) and total phosphorus (TP) limits set by the 2017 Tapia WRF National Pollutant Discharge Elimination System (NPDES) Permit No. CA0056014. The JPA Board selected breakpoint chlorination and the discharge of potable water to Malibu Creek as the preferred compliance method for the summer season regulatory limits.

Following is a list of key project milestones:

- 2013 U.S. EPA Region IX approves Malibu Creek & Lagoon TMDL for Sedimentation and Nutrients to Address Benthic Community Impairments.
- 2014-2016 JPA explores “Recycled Water Seasonal Storage”, which becomes the Pure Water Project Las Virgenes - Triunfo.
- 2017 Tapia WRF NPDES permit adopted by the Regional Water Quality Control Board (RWQCB). The permit included lower limits for Total Nitrogen (1.0 mg/l) and Total Phosphorus (0.1 mg/l). RWQCB provides interim effluent limits of 10.3mg/l for TN and 3mg/l for TP through compliance deadlines.
 - Summer compliance deadline, May 2022
 - Winter compliance deadline, November 2030 (to be met by Pure Water Project Las Virgenes-Triunfo)
- 2017 Stantec Consulting retained to evaluate Summer Season Waste Load Allocation Compliance options.
- 2018 JPA Board selects breakpoint chlorination treatment of potable water, as the preferred compliance method for discharge limits to Malibu Creek. To be operated only for streamflow augmentation during summer months.
- 2019 JPA adopts a CEQA Mitigated Negative Declaration and Stantec Consulting is awarded Design and Construction Support services for the Tapia TMDL Summer Compliance Project.
- 2019-2021 Permitting efforts with LA County Regional Planning, Coastal Commission, State Parks and Dept. of Fish and Wildlife.
- 2021 JPA Board awards a construction contract to Pacific Hydrotech Corporation (PacHydro).
- 2023 (November) Substantial completion and start-up testing of the breakpoint chlorination system.

On September 13, 2021, the JPA Board authorized the award of a construction contract to PacHydro for the Tapia Water Reclamation Facility (WRF) Summer Season Total Maximum Daily Load (TMDL) Compliance and Meter Replacement Project. The scope of work included

the extension of a potable waterline from the Piuma Road intersection, south on Malibu Canyon Road across Malibu Creek, terminating at the Tapia effluent overflow structure. Modifications to the effluent structure included walls, baffles, piping, chemical storage, chemical pumps, analyzers, and related electrical equipment. Chemical delivery piping from the chemical storage building was also installed as part of the project. The contractor worked through several challenges during construction (i.e. COVID-19, supply chain issues, long lead times on critical instrumentation, permitting, environmental and wildlife protection, underground utilities, etc.). PacHydro has completed construction of the pipeline and installation of the breakpoint chlorination system.

AECOM provided design and consulting for the Tapia Meter Replacement Project. This project included the replacement of flow meters for Malibu Creek discharge, Tapia groundwater discharge and flow gauging through the Parshall Flume to the 003 discharge point. The project was incorporated into the TMDL Compliance Project construction contract to reduce overhead costs, streamline construction, incorporate electrical integration, and limit the number of contractors working in the same location.

On April 29, 2019, the JPA Board of Directors accepted a proposal from Stantec Consulting Services, Inc. (Stantec) to provide design and engineering services during construction (ESDC). Over the years, through planning, design and construction, additional effort was required, beyond the original scope of work. Additional work is further described in the summary of change orders below. Stantec has completed the ESDC budget based on the agreement for additional submittal review, request for information (RFI) responses, and startup assistance. They also prepared a proposal for additional services required to complete record drawings and create an Operations Manual with Standard Operating Procedures for the start-up, shutdown, and testing protocols for the successful operation and maintenance of the newly installed, seasonal, treatment process. The scope change cumulatively exceeds 10 percent of the original contract and, therefore, is submitted for Board approval.

Following is a summary of the total project cost:

Description	Cost
Professional Services:	
AECOM Inc. (Meter Design)	\$19,480.00
- Scope Change No. 1	\$2,700.00
- Scope Change No. 2	\$2,300.00
Stantec (Design and ESDC)	\$207,917.00
- Scope Change No. 1	\$12,400.00
- Scope Change No. 2	\$7,450.00
- Scope Change No. 3	\$15,609.00
- Scope Change No. 4	\$17,892.00
- Scope Change No. 5	\$19,373.00
- Scope Change No. 6	\$5,934.00
- Scope Change No. 7 (proposed)	\$31,693
Construction:	

Pacific Hydrotech	\$3,488,505.00
- Change Order No. 1	-\$78,611.28
- Change Order No. 2	\$65,771.31
- Change Order No. 3	\$18,751.08
- Change Order No. 4	\$0.00
- Change Order No. 5	\$0.00
- Change Order No. 6	-\$632,151.00
- Change Order No. 7	\$98,387.26
- Change Order No. 8	\$58,766.00
Administrative:	
District Labor	\$132,425.86
G&A	\$401,808.02
Total Project Cost	\$3,896,400.25
Existing Appropriations	\$4,597,942.05

Following is a summary of the change orders:

AECOM:

1. Scope Change No. 1 – Professional services to coordinate and integrate the project plans with the TMDL Project and attend construction meetings. (Administratively approved, August 2021)
2. Scope Change No. 2 - Additional work to complete record drawings. (Administratively approved, March 2024)

Stantec Consulting Services, Inc.:

1. Scope Change No. 1 – Additional field topographic surveying. (Administratively approved, July 2019)
2. Scope Change No. 2 – Additional efforts for electrical power supply design modifications and for plan sheets for locating a sodium bisulfite pump at the chemical storage and feed facility. (Administratively approved, August 2019)
3. Scope Change No.3 - Additional design of a chemical manual valve manifold which will improve the safety for operator access and adjustment of valves for chemical delivery; additional field investigation for pipeline alignment; additional support services for a California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement (SAA). (Board approved, December 2019)
4. Scope Change No. 4 – Included pipeline design revisions to place flexible expansion joints within a vault, versus hanging them underneath the bridge, and incorporating the flow meter plans into the TMDL Compliance contract documents. (Board approved, April 2021)
5. Scope Change No. 5 – Redesign of the overflow structure to add a weir and level transmitter for flow measurement. Deletion of a buried 32-inch magnetic flow meter, and additional engineering services during construction. (Board approved, December 2021)
6. Scope Change No. 6 – Additional professional services for shop drawing review and RFI responses. (Board approved, April 2022)
7. Scope Change No. 7 – Additional professional services for record drawings and

preparation of an Operations Manual to serve as an SOP for startup, shutdown, testing, instrument setpoints, etc. (Proposed for Board approval)

Pacific Hydrotech Corporation:

1. Change Order No. 1 – Net credit back to the District. Pipe changes, deletion of a magnetic flow meter installation, pipe bracket material change, credit for unused rebar, replacement of a damaged drainpipe found during excavation, additional materials and labor costs. (Administratively approved, March 2022)
2. Change Order No. 2 – Additional material, labor for asphalt cement paving, credit for unused open hard rock excavation and disposal, vault and electrical duct bank modifications. (Administratively approved, May 2022)
3. Change Order No. 3 – Costs to furnish and install additional 12-inch CML&C steel pipe. (Administratively approved, May 2022)
4. Change Order No. 4 – No cost time extension request. 122 calendar days, contract completion date November 10, 2022. (Board approved, July 2022)
5. Change Order No. 5 – No cost time extension request. 104 calendar days, contract completion date February 23, 2023. (Board approved, December 2022)
6. Change Order No. 6 – Bid item deletions, valve replacements, electrical work. Deletion of the bid adder to provision for pumping effluent to bypass the overflow weir box. (Administratively approved, January 2023)
7. Change Order No. 7 – Excavate, remove, & install new tubing carrier pipe. (Administratively approved, May 2023)
8. Change Order No. 8 – Additional work to provide 2-inch electrical conduits, concrete wall penetrations, and new j-boxes inside and outside the effluent pump station. This conduit was utilized for the video surveillance wiring from the front gate. (Administratively approved, July 2023)

GOALS:

Construct, Manage and Maintain all Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: Veronica Hurtado, Water Reclamation Manager

ATTACHMENTS:

[Notice of Completion](#)

[Proposed Scope Change No. 7](#)

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

Name
Street
Address
City &
State
Zip

SPACE ABOVE THIS LINE FOR RECORDER'S USE

T 420 LEGAL (9-94)

Notice of Completion

NOTICE IS HEREBY GIVEN THAT:

1. The undersigned is the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the undersigned is _____ (NAME).
3. The full address of the undersigned is _____

 (NUMBER AND STREET, CITY, STATE, ZIP).
4. The nature of the title of the undersigned is OWNER IN FEE
 (E.G., owner in fee OR vendee under contract of purchase OR lessee OR OTHER APPROPRIATE DESIGNATION).
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

Names	Addresses
_____	_____
_____	_____
6. The names of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work of improvement herein referred to are (OR IF NO TRANSFER WAS MADE, INSERT THE WORD "none"):

Names	Addresses
_____	_____
_____	_____
7. A work of improvement on the property hereinafter described was completed on _____ (DATE).
8. The name of the original contractor, if any, for the work of improvement was _____
 (NAME OF CONTRACTOR, OR IF NO CONTRACTOR FOR THE WORK OF IMPROVEMENT AS A WHOLE, INSERT THE WORD "none"). [IF NOTICE COVERS COMPLETION OF CONTRACT FOR ONLY PART OF THE WORK OF IMPROVEMENT, ADD: The kind of work done or material furnished was _____
 (GIVE GENERAL STATEMENT, E.G., furnishing of concrete for sidewalks].
9. The property on which the work of improvement was completed is in the City of _____, County of _____, State of California, and is described as follows: _____

 (set forth description of jobsite sufficient for identification, using legal description if possible).
10. The street address of the said property is _____
 (NUMBER AND STREET, OR, IF THERE IS NO OFFICIAL STREET ADDRESS, INSERT THE WORD "none".)

Dated: _____, _____ Las Virgenes Municipal Water District

(SIGNATURE)

(TYPED NAME)

VERIFICATION

I, the undersigned, say:
 I am the person who signed the foregoing notice. I have read the above notice and know its contents, and the facts stated therein are true of my own knowledge.
 I declare under penalty of perjury that the foregoing is true and correct.

Executed at _____, California, this _____ day of _____,
 _____ (SIGNATURE)

DO NOT RECORD

Recommended Procedure in the Preparation of a Notice of Completion

A notice of completion must be filed for record *within 10 days* after completion of the work of improvement (to be computed exclusive of the day of completion), as provided in section 3093, Civil Code.

The "owner" who must file for record a notice of completion of a building or other work of improvement means the owner (or his successor in interest at the date of notice is filed) on whose behalf the work was done, though his ownership is less than the fee title. For example, if A is the owner in fee, and B, lessee under a lease, causes a building to be constructed, then B, or whoever has succeeded to his interest at the date the notice is filed, must file the notice.

If the ownership is in *two or more persons as joint tenants or tenants in common*, the notice may be signed by any one of the co-owners (in fact, the foregoing form is designed for giving of the notice by only one co-tenant), but the names and addresses of the other co-owners must be stated in paragraph 5 of the form.

In paragraphs 3 and 5, the full address called for should include street number, city, county and state.

As to paragraph 6, insert the date of completion of the work of improvement as a *whole* if applicable. However, if the notice is to be given only of completion of a particular contract, where work of improvement is made pursuant to two or more original contracts, strike the words "a work of improvement" and insert a general statement of the kind of work done or materials furnished pursuant to such contract (e.g. "The foundations for the improvements").

If the notice is to be given as a notice of completion of the work of improvement as a *whole*, insert the name of the prime contractor, if any, in paragraph 7. No contractor's name need be given if there is no general contractor, e.g., on so-called "owner-builder jobs". However, if the notice is to be given only of completion of a particular contract, where work of improvement is made pursuant to two or more original contracts, insert the name of the contractor who performed that particular contract.

Paragraph 8 should be completed only where the notice is signed by a successor in interest of the owner who caused the improvement to be constructed.

In paragraph 9, insert the *full legal* description, not merely a street address or tax description. Refer to deed or policy of title insurance. If the space provided for description is not sufficient, a rider may be attached.

In paragraph 10, show the street address, if any, assigned to the property by any competent public or governmental authority.

**NOTICE
OF COMPLETION**

CHICAGO TITLE COMPANY



WESTERN DIVISION HEADQUARTERS
245 S. LOS ROBLES AVENUE, SUITE 105
PASADENA, CALIFORNIA 91101-2820
(818) 432-7600

CHICAGO TITLE COMPANY





March 14, 2024

Attention: Veronica Hurtado
Las Virgenes Municipal Water District (LVMWD)
4232 Las Virgenes Road
Calabasas, CA 91302

Reference: Change Order #7 for Tapia Water Reclamation Facility Summer Season Waste Load Allocation Compliance Design and Services During Construction Project

Dear Ms. Hurtado,

Stantec Consulting Services Inc. (Stantec) has currently completed our engineering services during construction budget based on agreement and direction from LVMWD for additional submittal review, requests for information responses, and startup assistance. We have now prepared a proposed scope of work and detailed cost estimate to provide record drawing and standard operating procedure (SOP) preparation. Our additional services represent a change in original assumptions from the contract scope of services and will require additional effort to complete.

Additional Engineering Services During Construction - Record Drawing and Standard Operation Procedures Preparation –Scope of Services

Stantec will provide additional engineering services during construction consisting of:

- Preparation of record drawings: Stantec has reviewed the as-built markups provided via email on February 26, 2024 and estimates an additional 44 hours to prepare record drawings. Record drawings will be developed based on the conformed drawings that Stantec had prepared, with as-built markups incorporated and clouded.
- Develop of a standard operation procedure (SOP) document for the summer discharge compliance ammonia removal system. The SOP will be based on the following outline, and will be limited to no more than 20 pages:
 1. Background
 - a. Purpose
 - b. Process Overview
 - c. Equipment Design Criteria
 2. Startup

Including analytical testing of potable water (NH3), individual start-up procedures of the analyzers
 3. Shutdown

Including shut-down procedures of the analyzers

 - a. Short term
 - b. Long term
 4. Flow Control Setpoints & Adjustments
 5. Sodium Hypochlorite Setpoints & Adjustments
 6. Sodium Bisulfite Setpoints & Adjustments
 7. Water Quality Monitoring

Assumptions and Exclusions

Assumptions

- Preparation of record drawings is based on the accurate and complete representation of the construction contractor's as-built markups provided via email from Veronica Hurtado on February 26, 2024.

- No human machine interface (HMI) screens from the control system will be incorporated by Stantec into the SOP. If required in the SOP they will be provided by LVMWD.
- SOP will be reviewed once by LVMWD and incorporation of single compiled set of comments
- SOP will be reviewed up to 2 times by RWQCB and incorporated of two compiled sets of comments

Exclusions

- Scope and costs do not include any site visits, fieldwork, startup, or commissioning services.

It is anticipated that the work will be based on the contract terms and rate schedule previously agreed to between the LVMWD and Stantec under PO#17442-OJ. The level of effort to complete the scope of work is \$31,693 which increases the current contract amount of \$286,575 to \$318,268. Estimated hours and budgets are provided in Attachment A, using the schedule of billing rates from the executed contract, including 2024 rates escalated annually by 3% per the executed contract terms.

After approval and subsequent notice to proceed for this change, the services will be performed within the duration of construction with assumed completion in May 2024. If you have any questions, please contact Zakir Hirani at (626) 568 6093.

Thank you for your consideration of this change order request.

Sincerely,

Stantec Consulting Services Inc.



Zakir Hirani, PE

Project Manager (626) 568-6093

zakir.hirani@stantec.com

Attachment A: Fee Estimate & Updated Rates

Las Virgenes - Triunfo JPA - Tapia WRF Summer Season Waste Load Allocation Compliance Design and Services During Construction															
		\$358.22/hr	\$358.22/hr	\$292.54/hr	\$268.66/hr	\$251.95/hr	\$220.9/hr	\$188.66/hr	\$163.59/hr	\$144.48/hr					
		Principal-in-Charge	Technical Advisor	Supervising Engineer - I	Supervising Engineer - II	Professional Engineer - I	Professional Engineer - II	Associate Engineer - I	Associate Engineer - II	Junior Engineer	TOTAL HOURS	Labor Charge	Other Direct Costs (ODCs)	Subcontractor	Total Charge
Task	Activity Description														
1	Project Management						4				4	\$884			\$884
2	Data Collection and Review										0	\$0			\$0
3	Detailed Design										0	\$0			\$0
4	Bid Phase Support										0	\$0			\$0
5	Engineering Services During Construction (Change Order #7 -Record Drawings, SOP)	10		8			66	24		40	148	\$30,809			\$30,809
6	Permitting										0	\$0			\$0
	TOTAL	10	0	8	0	0	70	24	0	40	152	\$31,693	\$0	\$0	\$31,693

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Engineering and External Affairs

SUBJECT: Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project: Final Acceptance

SUMMARY:

On April 3, 2023, the JPA Board awarded a construction contract to Taylor Jane Construction LP (Taylor Jane), for the Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project. The project generally consisted of a bypass of Channel No. 2, removal of existing pipes and gates, and infilling existing penetrations between the Selector Channel and Channel No. 2.

On February 20, 2024, the LVMWD Board, acting as Administering Agent of the JPA, authorized the General Manager to execute a Notice of Completion and have the same recorded; waive liquidated damages; and in the absence of claims from subcontractors or others, release the retention, in the amount of \$14,045.64 within 30 days after filing the Notice of Completion for the Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project.

While the project is now completed and the notice of completion has been recorded for the construction contract, a reconciliation of the final project costs requires re-appropriation of funds from CIP Job No. 10795 – Final Effluent Pump Station Rehabilitation Project, in the amount of \$78,836.13, to CIP Job No. 10809 – Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project.

RECOMMENDATION(S):

Re-appropriate funding from CIP Job No. 10795 – Final Effluent Pump Station Rehabilitation Project, in the amount of \$78,836.13, to CIP Job No. 10809 – Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total project cost was \$475,056.13. Sufficient funds are available in the adopted Fiscal Year 2023-24 JPA Budget. Re-appropriation of funds, in the amount of \$78,836.13, is required from CIP Job No. 10795 – Final Effluent Pump Station Rehabilitation Project to CIP Job No. 10809 – Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project. The cost of the project is allocated 70.6% to LVMWD and 29.4% to Triunfo Water & Sanitation District.

DISCUSSION:

On April 3, 2023, the JPA Board awarded a construction contract, in the amount of \$258,035.00, to Taylor Jane Construction Company LP (Taylor Jane), for the Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infills Project. The Selector Channel was used as part of the previous aeration process and is no longer used as part of the biological treatment process. Over time, the gates between Channel No. 2 and the Selector Channel began to fail, resulting in combined primary effluent and return activated sludge from Channel No. 2 leaking into the Selector Channel (the gates were not sealing off).

Cannon Corporation was the consulting firm for the project, completing the design and providing engineering support during construction.

The project required four change orders that were all administratively approved. The LVMWD Code states that if a single change order is more than five percent, or cumulatively 10 percent or greater than the original contract amount, it must be approved by the Board. Change orders that do not meet this threshold can be administratively approved by the General Manager.

Following is a summary of change orders:

Change Order No. 1 (\$4,750.00, Administratively Approved)	To reduce bypass time significantly, two additional 36-inch diameter penetrations between channels were sealed off using stainless steel plates. This allowed for complete isolation and to precisely manufacture blind flanges.
Change Order No. 2 (\$8,309.59, Administratively Approved)	A single steel thimble was discovered during construction which prohibited bolting stainless-steel plates over a 42-inch diameter penetration. A welder was hired to weld the plate over the penetration.
Change Order No. 3 (\$8,496.15, Administratively Approved)	Additional steel thimbles were discovered at other penetrations, requiring a change in design and additional time and materials from the contractor.
Change Order No. 4 (\$1,321.94, Administratively Approved)	Additional hardware and accessories were required to secure the two blind flanges per District requirements.

Following is a table that summarizes the total cost of the project.

Description	Cost
Professional Services	
Cannon Corporation	\$25,000
Construction	
Original Construction Contract	\$258,035.00
Change Order No. 1	\$4,750.00
Change Order No. 2	\$8,309.59
Change Order No. 3	\$8,496.15
Change Order No. 4	\$1,321.94
Nor-Cal Pipeline Services	\$6,094.00
JPA Labor	\$48,785.19
JPA General and Administration (G&A)	\$114,264.26
Total Project Cost	\$475,056.13
Existing Appropriation	\$396,220.00
Total Project Cost less existing appropriation	\$78,836.13

The total cost for JPA labor and general and administrative expenses exceeded the original appropriation due to additional effort from staff for inspections during construction and an extended construction duration.

The construction work was substantially completed on October 27, 2023. The original anticipated contract completion date was June 9, 2023; however, there were administrative delays during contract execution and additional delays during the pumping bypass configuration. The contractor worked diligently to expedite the project and kept the JPA aware of challenges as they arose.

On February 20, 2024, the LVMWD board, acting as Administering Agent of the JPA, authorized the General Manager to execute a Notice of Completion and have the same recorded; waive liquidated damages; and, in the absence of claims from subcontractors or others, release the retention, in the amount of \$14,045.64, within 30 calendar days after filing the Notice of Completion for the Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infill Project.

At this time, staff's recommendation is to re-appropriate funding from CIP Job No. 10795 – Final Effluent Pump Station Rehabilitation Project, in the amount of \$78,836.13, to CIP Job No. 10809 – Tapia Water Reclamation Facility Channel No. 2 and Selector Channel Wall Infill Project. The re-appropriation is necessary to cover the final project cost, which includes all JPA labor and general and administration costs.

GOALS:

Construct, Manage and Maintain all Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: John Soderberg, Assistant Engineer

ATTACHMENTS:
Notice of Completion

This page is part of your document - DO NOT DISCARD



20240135704



Pages:
0002

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County,
California

03/01/24 AT 09:38AM

FEES :	0.00
TAXES :	0.00
OTHER :	0.00
<hr/>	
PAID :	0.00



LEADSHEET



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SEQ:
01

DAR - Mail (Intake)



THIS FORM IS NOT TO BE DUPLICATED

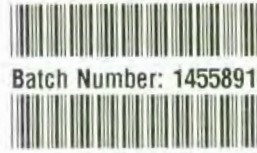
RECORDING REQUESTED BY

Las Virgenes Municipal Water District

AND WHEN RECORDED MAIL TO

Name Susan Brown
Street Address Las Virgenes Municipal Water District
4232 Las Virgenes Road
City & State Zip Calabasas, CA 91302

24251263



T 420 LEGAL (9-94)

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Notice of Completion

NOTICE IS HEREBY GIVEN THAT:

- 1. The undersigned is the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the undersigned is Las Virgenes Municipal Water District (NAME).
3. The full address of the undersigned is 4232 Las Virgenes Road, Calabasas CA 91302
4. The nature of the title of the undersigned is OWNER IN FEE
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:
6. The names of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work of improvement herein referred to are (OR IF NO TRANSFER WAS MADE, INSERT THE WORD "none"):
7. A work of improvement on the property hereinafter described was completed on Oct 27, 2023 (DATE).
8. The name of the original contractor, if any, for the work of improvement was Taylor Jane Construction LP
9. The property on which the work of improvement was completed is in the City of Calabasas, County of Los Angeles, State of California, and is described as follows:
10. The street address of the said property is 731 Malibu Canyon Road

Dated: February 20, 2024

Las Virgenes Municipal Water District
(SIGNATURE) Gary Burns, Secretary of the Board (TYPED NAME)

VERIFICATION

I, the undersigned, say: I am the person who signed the foregoing notice. I have read the above notice and know its contents, and the facts stated therein are true of my own knowledge.

I declare under penalty of perjury that the foregoing is true and correct.

Executed at Calabasas, California, this 20th day of February, 2024.
(SIGNATURE) Gary Burns, Secretary of the Board

TRIUNFO WATER & SANITATION DISTRICT FILLS BOARD VACANCY

At a March 18 meeting, the Triunfo Water & Sanitation District (TWSD) board of directors selected Carl Jarecky to fill a board vacancy created when Director Janna Orkney resigned on January 29. Jarecky will serve for the remainder of the current term and will run for election at the end of this year.

Jarecky was one of five residents who applied for the board position. All five were interviewed during the March 18 meeting, and once selected, Jarecky was sworn in.

Jarecky is a media operations supervisor for the City of Thousand Oaks and has two decades of management experience in municipal government public information. He received his Bachelor of Science in Mass Communications from Miami University of Ohio, Master of Arts in Communications from Pepperdine University, and Master of Business Administration/Finance from California Lutheran University. He is also a board member and president of the Hillcrest Homeowners Association.

“Director Jarecky brings excellent communication and business skills to the board,” says James Wall, TWSD board chair. “We look forward to his insight and input.”

TWSD Board meetings are held on the fourth Monday of the month at the district office in Westlake Village.

Las Virgenes-Triunfo Joint Powers Authority

March 19, 2024

Ana Schwab, Lowry Crook, Chris Keosian, and Alex Dunn

Congress

Due to an agreement on a final FY24 appropriations package, Congress has continued to find itself at the face of a government shutdown. Congress was able to avert any shutdown to this point in time by passing short-term Continuing Resolutions (CR). Fortunately, Congress was able to come to an agreement on six of the 12 appropriations bills. The first tranche of FY24 government funding, the *Consolidated Appropriations Act of 2024*; called a “mini-bus”, was a six-bill package passed on March 8, 2024. The remaining—and more controversial—six bills must be passed by March 22, 2024. Due to the delayed nature of FY24 government funding, the FY25 appropriations cycle—which must be passed by September 30, 2024—will start immediately upon FY24’s final passage.

Senate Minority Leader Mitch McConnell to Step Down as Top Senate Republican in November

After a historic 17 year run as the top Republican in the U.S. Senate, including several years serving as the Senate Majority Leader, current Minority Leader Mitch McConnell (R-KY) announced on February 27, 2024, that he would step down from the post in November. Following his announcement, many have remarked that Leader McConnell will be remembered as one of the most consequential political leaders of the last half-century. At 82 years-old, Leader McConnell has struggled with health issues in recent years, and experienced a turbulent relationship with former President Donald Trump, who is the presumed GOP presidential nominee.

Senator McConnell’s departure comes amid a turbulent time in Congressional Leadership, where 75% of the “Four Corners” will have turned over in the 118th Congress. Already in this Congress, Speaker Nancy Pelosi (D-CA-11) has turned the top spot in House Democratic Leadership to Leader Hakeem Jeffries (D-NY-08), and Speaker Kevin McCarthy (R-CA-20) was forced out of leadership, left Congress, and turned his gavel over to Speaker Mike Johnson (R-LA-04). Following McConnell’s announcement, among the only Senate Majority Leader Chuck Schumer (D-NY) is set to remain in his leadership post by the end



of this year. This turnover in congressional leadership will see generations of experience depart Congress, and dramatically reshape institutional dynamics.

Leader McConnell's departure has set off a leadership race within the Senate Republican Conference for the top job. The presumed early frontrunners are Senate Minority Whip John Thune (R-SD) and Senator John Cornyn (R-TX). Senate Republican Conference Chair John Barrasso (R-WY) has announced he intends to run for Whip instead; the No. 2 post in Republican leadership. Senators Marco Rubio (R-FL), Rick Scott (R-FL) and Steve Daines (R-MT) are also rumored to be considering a bid for Leader.

Senator Alex Padilla (D-CA) Introduces Low-Income Household Water Assistance Program (LIHWAP) Establishment Act

On February 28, 2024, Senator Alex Padilla introduced legislation which would make permanent the COVID-era program designed to help low-income families afford their water and wastewater bills, and avoid service shutoffs. During the approximately three years the program was in effect, LIHWAP assisted more than 1.4 million households; restoring water and wastewater services 100,479 times, preventing disconnections 753,558 times, and reduced 679,030 water bills. The program is still available in California though this month (March 2024). The LIHWAP Establishment Act transfers authority for the program away from the U.S. Department of Health and Human Services to the Environmental Protection Agency (EPA). The legislation also further defines eligibility criteria to include individuals receiving assistance from programs such as Low-Income Home Energy Assistance Program (LIHEAP), Supplemental Security Income (SSI), Supplemental Nutrition Assistance Program (SNAP), and Temporary Assistance for Needy Families (TANF).

House Overwhelmingly Passes Legislation Mandating the Sale of TikTok

On March 13, 2024, the House of Representatives overwhelmingly passed legislation that would force ByteDance, the Chinese company which owns TikTok, to divest its ownership stake in TikTok within 180 days, or the popular social media network would be banned in the United States. The vote was a whopping 352-61-1, and came one day after lawmakers received a classified briefing the FBI, Justice Department and Office of the Director of National Intelligence on the, "Threat faced by Americans who use TikTok." President Biden has indicated he would sign the legislation into law, should it reach his desk.

Despite support from the Senators Marco Rubio (R-FL) and Mark Warner (D-VA), the Chair and Ranking Member of the Senate Intelligence Committee, the bill faces stiffer headwinds in the Senate, where the broad and bipartisan consensus which was achieved in the House does not seem to exist.



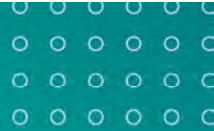
Proponents of the legislation say they have reason to believe the Chinese government can access TikTok's internal data on users, and is collecting reams of personal data on its American users, which could be weaponized. ByteDance asserts that this can't happen. Critics of the legislation say the process was rushed, and if the United States government possesses information which shows the widely beloved app poses a danger to its users, they should release that information to the public, to the extent practical. Further, they point to the lack of comprehensive data privacy laws in the U.S., which could protect users across all tech platforms; without singling out only one company in legislation—which they believe may be unconstitutional.

House Oversight and Accountability Committee approves *Special District Grant Accessibility Act*

After only being introduced two days prior, on March 7, 2024, the House Oversight and Accountability Committee approved H.R. 7525, the *Special District Grant Accessibility Act* on an overwhelmingly bipartisan basis; a 38-2 vote. H.R. 7525 codifies into federal law a formal definition of a "special district" unit of local government—to include public water and wastewater utilities—and would federally recognize special districts as local governments for the purpose of being eligible to receive federal assistance, such as funding resources and grant programs. Next, the legislation will be considered by the whole House of Representatives.

Senate EPW Holds Hearing on Passive Receivers, PFAS, and CERCLA

On Wednesday, March 20, 2024, the U.S. Senate Committee on Environment and Public Works (EPW) held a hearing on, "Examining PFAS as Hazardous Substances." The hearing, convened by EPW Chairman Tom Carper (D-DE), focused on the emerging discussions surrounding the regulation of Poly- and Per-fluoroalkyl Substances (PFAS); "forever chemicals" which do not break down in the environment, can move through waste and soils to contaminate drinking water sources, and can build up to potentially toxic & dangerous levels in the humans and wildlife who ingest them. Specifically, the hearing centered on the emerging consensus surrounding the dangers of these chemicals, and the urgent need to remove them from our drinking water sources. More specifically, as the U.S. Environmental Protection Agency (EPA) is poised to designate several PFAS compounds as hazardous compounds under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in the coming weeks—an unprecedented action—Senators asked the witnesses for their perspective on how to ensure any federal regulations on PFAS align with the CERCLA "polluter pays" model; a key tenant of the Superfund law.



Although broad consensus exists regarding the need to address this environmental and health crisis, a key sticking point has been how to ensure the chemical companies who produced these pollutants pay for their environmental and human damages, not downstream “passive receivers” of the substances; who are seeing the pollution emerge in their sectors with at increasing rates as PFAS’ prevalence in consumer goods over several decades, combined with its inability to breakdown, has yielded its presence nearly everywhere in society.

Specifically, municipal public water and wastewater agencies have raised their concerns that they may be held liable for PFAS contamination in their water systems, despite being “passive receivers” of these pollutants. Although they were not a producer, manufacturer or intentional user of PFAS; nor have they ever profited from the manufacturing or sale of the chemicals, its presence in their systems is enough to subject them to liability—and ultimately paying to clean and dispose of the PFAS—should these PFAS be designated as hazardous substances be designated under CERCLA. For this reason, wastewater agencies, and many Members of Congress, have been advocating for Congress to pass a “liability exemption” for passive receivers of PFAS; to ensure that CERCLA’s “polluter pays” principle to hold responsible the companies that produced and profited from hazardous substances is upheld, and the costs to clean these substances is not forced onto public water & wastewater agencies, and ultimately ratepayers. However, opponents of the exemption feel that despite the unique nature of PFAS, and its proposed regulation, any exemption under CERCLA sets a precedent for others in possession of hazardous substances to seek the same waiver; ultimately weakening the law.

The hearing opened with the expression of broad consensus on the issue. Chairman Tom Carper (D-DE) said, “Every one of our colleagues in the U.S. Senate is dealing with the lasting effects of PFAS in their states and their communities, as well. The lasting effect of PFAS contamination is having a major impact not only on our public health, but also on our livelihoods.”

Ranking Member Shelly Moore Capito (R-WV) echoed those sentiments saying, “Addressing the challenges of a class of substances, collectively referred to as PFAS, is one of my highest environmental policy priorities. Due to their unique chemistry, PFAS has been used in almost nearly every industrial application you can think of since the 1940s. Given that PFAS is everywhere, we must carefully consider the best, and most efficient way to address past contamination, and limit future exposure. This means prioritizing actions that address PFAS, ones of greatest known health concern, and examining common routes of exposure to those chemicals.”

Ranking Member Capito went on to say, “To effectively address these issues, which we should, we have crafted a draft piece of legislation that focuses on creating a

comprehensive [strategy] to tackle PFAS pollution. I have made it clear that my support of any PFAS legislation is contingent upon also addressing liability under CERCLA, and providing liability protections for those passive receivers. This is a non-negotiable condition for me. Entities that had no role in creating or controlling these contaminants should not be penalized. I am confident that carefully crafted bipartisan legislation can strike the right balance to protect public health and the environment from PFAS contamination, without imposing additional financial strain on American households already grappling with the challenge of daily living.”

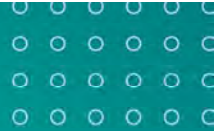
Chairman Carper expressed a need for bipartisan legislation saying, “We need strategic national policies to help us do several things...including collectively finding a path forward to make the actual polluters pay, while protecting innocent partners.”

Of note during the hearing, many expressed concern, that the EPA is pursuing a “CERCLA first” approach, having not yet designated PFAS under the Resource Conservation and Recovery Act (RCRA), or another federal statute aimed at more comprehensively addressing the problem. Such an approach is unprecedented. During the hearing, some discussion centered around the EPA’s stated desire to target manufacturers and avoid taxpayers bearing the burden of paying for PFAS cleanup, citing their enforcement digression. However, many witnesses suggested that without a liability exemption for passive receivers, ratepayers will likely have increased costs forced on them due to third party liability lawsuits against utilities, even if the EPA exercises digression in its enforcement.

The witnesses testifying before the committee were:

- Ms. Kate Bowers; Legislative Attorney, American Law Division, Congressional Research Service
- Mr. Scott Faber; Senior Vice President of Government Affairs, Environmental Working Group
- The Honorable James Kenney; Secretary of the New Mexico Department of Environment
- Mr. Michael D. Witt; General Counsel, Passaic Valley Sewerage Commission (New Jersey) (testifying on behalf of the Water Coalition Against PFAS)
- Mr. Robert Fox; Partner, Manko Gold Katcher Fox, LLP. (New York) (testifying on behalf of the National Waste and Recycling Association & Solid Waste Association of North America)

In his remarks, Secretary Kenney testified that PFAS is best addressed under RCRA, either through Congressional action or EPA rulemaking, and eventually modify CERCLA into, “A strong program that is focused on both the polluter, and giving states the ability to address



the passive receivers with discretion.” Likewise, Ms. Bowers suggested in her testimony that as written, “passive receivers” could be held liable under CERCLA via third party lawsuits, despite discretionary enforcement from EPA. Ms. Bowers’ testimony indirectly emphasized the need for Congress to step in; which Ranking Member Capito emphasized in her remarks has happened 11 times before.

Mr. Faber, testifying on behalf of the Environmental Working Group, asserted that no exemptions should be made under CERCLA as the environmental and human health implications of PFAS were too dangerous. At one point, Mr. Faber suggested that wastewater utilities “chose” to receive PFAS, and should be held accountable for removing it. Mr. Witt responded to the characterization, calling it “insulting”, and went on to say, “Let us put our money where it counts, not into lawsuits.” Mr. Witt also emphasized the water and wastewater sectors have responsibility to operate under the *Clean Water Act* and *Safe Drinking Water Act*, and desire to help its communities address PFAS. However, Mr. Witt made clear polluters should pay to clean their pollution, not exploit legal loopholes to pass those costs onto ratepayers.

Both Senators Alex Padilla (D-CA) and Cynthia Lummis (R-WY) shared the need to hold polluters responsible for their contamination during their allotted time. Further, they each expressed a desire to remove PFAS from the water supply. Moreover, they each sought clarification during their questioning regarding third party litigation. In response, Ms. Bowers testified that the only way for a passive receiver to protect itself from third party litigation, as CERCLA is currently written, would be for the receiver to “settle” with the EPA and pay into to Superfund for cleanup. This of course would constitute passing settlement costs onto ratepayers, or face years of costly litigation – also financed by ratepayers.

The hearing concluded with Senators expressing their desire to take action on PFAS before the end of the 118th Congress. However, buy-in from Majority Leader Schumer, who so far has been against a liability exemption, will be needed in order to secure a vote on the Senate floor.

The EPA is expected to finalize its designation of PFOA and PFOS under CERCLA during the first week of April 2024, and release a follow up memo regarding the enforcement. This designation, and its specifics, will likely serve as the catalyst for further action

House Financial Services Committee Approves *Wildfire Insurance Coverage Study Act of 2023*

On February 29, 2024, the House Committee on Financial Services approved H.R.7462, the *Wildfire Insurance Coverage Study Act of 2023* via a bipartisan vote of 47-2. Introduced by Ranking Member Maxine Waters (D-CA-43), the legislation would require the Government



Accountability Office to study wildfire risk assessment, insurance coverage for damages from wildfires, possible wildfire mitigation strategies the federal government could deploy, and the challenges private insurers face when undertaking increasingly prevalent wildfire risk. Specifically, the legislation calls for a national wildfire risk map, and would require government auditors to review current coverages and state rules. This legislation is a continuation of previous efforts to establish a 10-year wildfire strategy at the U.S. Forest Service, which passed the House in the 117th Congress, but did not get a vote in the Senate. The legislation must now be considered by the whole House.

Senate EPW Subcommittees Holds Hearing on Presence of Microplastics in Water

On February 27, 2024, the Senate Committee on Environment and Public Works, Subcommittee on Chemical Safety, Waste Management, Environmental Justice, and Regulatory Oversight and Subcommittee on Fisheries, Water & Wildlife conducted a joint hearing where agriculture and sustainability scientists provided testimony regarding the high density of microplastics in the nation's waterways, the current state of recycling of microplastics, and the strategy to confront this looming crisis.

Water and Wastewater Treatment

Despite their effectiveness at removing plastics, wastewater treatment plants release millions of particles daily, playing a significant role in the movement of plastic from land to water. Groundwater reservoirs also contain microplastics, though in lower levels than tap water. Research led by Dr. Sherri Mason at Penn State University examined 19 wastewater treatment facilities in the United States, revealing that each facility releases an average of 4 million plastic particles daily. This finding underscores the substantial contribution of wastewater treatment plants, with 15,000 facilities nationwide at the heart of the issue.

During the hearing, Senator Cynthia Lummis (R-WY) inquired about the cost-benefit analysis for smaller water and wastewater systems to address microplastics. Brent Alspach, a representative from Arcadis, emphasized the need for more research to find effective and affordable solutions tailored to smaller systems, such as those in her home state. Answering the same question, Sherri Mason stated that source reduction is the key, emphasizing prevention rather than treating the issue at the water treatment level. Susanne Brander, an Associate Professor at Oregon State University, echoed Mason's point, emphasizing that microplastic reduction is a global issue and shouldn't solely be the responsibility of water and wastewater systems. Brander argued that imposing this burden on them is unfair, costly, and fails to address the source of the problem. Ranking Member of the Subcommittee on Chemical Safety, Waste Management, Environmental Justice, and Regulatory Oversight, Markwayne Mullin (R-OK), stated earlier in the hearing that, although

it is desirable not to have microplastics in our waters, we cannot overburden these municipal entities by placing this responsibility on them. Mr. Alspach also reiterated that, although microplastics are a serious problem, lead and PFAS remain the most alarming issues that need to be addressed first.

Senator Alex Padilla (D-CA), Chairman of the Subcommittee on Fisheries, Water & Wildlife, pointed to California's role as the first state to mandate testing and monitoring of microplastics in drinking water. California's initiative includes the establishment of a definition of microplastics and the standardization of measurement methodologies, creating a foundation for future research, monitoring, and treatment processes for microplastics. Mr. Alspach emphasized the need for more information on the presence, toxicity, and treatability of microplastics. He later cautioned against redirecting limited resources from water systems until further research is conducted and advocated for Congressional support in funding the necessary research.

Microplastic Recycling

Sherri Mason in her testimony also discussed the challenge of recycling plastics due to thousands of types of plastic present in the market, requiring effective separation for recycling. She emphasized the need to limit the variety of plastics on the market and increase corporate accountability for their plastic production. Susanne Brander added that corporations should enhance transparency about the chemicals and plastics they use, even though concerns about proprietary formulas make them hesitant to share data and knowledge.

Federal Budget/Appropriations

On February 29, 2024, Congress passed their fourth short-term Continuing Resolution (CR) of FY23 funding to avoid a government shutdown, as FY24 funding negotiations continued. The extension shifted originally scheduled deadlines from March 1 and 8, 2024, respectively, to March 8 and 22, 2024, once again opting for a laddered deadline approach to provide extra time for negotiations on the final FY24 appropriations bills.

On March 6, 2024, the House of Representatives passed the first "mini-bus" package of six compromise appropriations bills, a \$460 billion appropriations package, which included bills for Agriculture-FDA, Commerce-Justice-Science, Energy and Water, Interior-Environment, Military Construction-VA, and Transportation-HUD, funding them through

September 30, 2024. The package passed the House under a suspension of rules, necessitating a two-thirds vote. It ultimately garnered 339 affirmative votes, while 85 members opposed it, including 83 Republicans. Speaker Mike Johnson was able to strike this compromise with Democrats; passing appropriations bills to keep government funded through FY24, with no “poison pill” policy riders. While the bill earned more support from Democrats than from the majority of Republicans, there is no indication that Speaker Johnson's right flank will attempt to oust him over this outcome. The U.S. Senate passed the “mini-bus” on March 8, 2024 in a bipartisan vote of 75 in the affirmative, and 22 in the negative. President Biden signed the legislation into law shortly thereafter.

Congress has now shifted its focus towards the passage of the remaining six appropriations bills by March 22, 2024, which together will amount to almost \$1.2 trillion in spending. This aligns with the agreed-upon \$1.66 trillion spending cap set by Speaker Johnson and Senate Majority Leader Schumer. The final six bills, which include Defense, Financial Services, Homeland Security, Labor-HHS-Education, Legislative Branch, and State and Foreign Operations, present a more difficult challenge in negotiations; most especially the Department of Homeland Security (DHS) bill. Negotiations for DHS funding became so fraught that the threat of a partial government shutdown appeared increasingly likely. However, Congressional leaders and the White House came to a compromise this week to extend DHS funding, although parliamentary procedure requirements in the House and Senate may result in a brief funding lapse over the weekend, unless Congressional leaders find a way to fast-track the legislation

Administration/Regulatory

President Biden Delivers Final State of the Union Address of First Term

Using the primetime address to kick off his 2024 re-election bid, an energized President Biden focused on issues he saw of importance to voters in the 2024 Presidential Election. Notably, he emphasized support for Buy American, reproductive rights, immigration, combating the rise of authoritarianism internationally and delivering immediate aid to Ukraine, and highlighted the significance of the Affordable Care Act (ACA); pledging to make a tax credit linked to the law permanent while defending it against potential repeal. Additionally, he announced plans for the U.S. military to establish a temporary pier on the coast of Gaza to enhance humanitarian aid flow and urged Israel to prioritize humanitarian assistance in dealing with the conflict with Hamas.

The president's economic vision encompassed initiatives for post-pandemic recovery, job creation, and addressing housing cost issues through a tax credit to alleviate mortgage costs. President Biden also called for policies aimed at cutting \$3 trillion from the federal deficit over a decade, which included reviving the child tax credit, raising the minimum corporate tax from 15% to 21%, and imposing a minimum tax of 25% on billionaires.

President Biden Releases FY25 Presidential Budget Request

On March 11, 2024, President Biden released his 2025 President's Budget Request, marking the official start to FY25 government funding discussions, even as FY24 negotiations drag on. The \$7.3 trillion proposal will face headwinds in the Republican controlled House of Representatives, and meaningful negotiations will likely be delayed until after the November election. Notably, the budget proposes an increase in funding for the Department of Interior include the Bureau of Reclamation and the Bureau of Land Management, and the EPA.

The Interior Department would receive \$17.8 billion for FY25 under President Biden's proposal, up from \$14.8 billion enacted in FY24—a 20% increase. Within those funds, \$1.6 billion was requested for the U.S. Bureau of Reclamation, a several hundred million dollar decrease from the \$1.9 billion FY24 enacted budget for Reclamation, and \$31 million allocated for Colorado River Basin projects; a notable increase from the \$8.6 million proposed in FY24, as water shortages in the west worsen. \$1.6 billion was requested for the Bureau of Land Management, up from \$1.41 billion enacted in FY24.

The White House requested \$11 billion for the EPA, up from the \$9.2 billion Congress approved for FY24. This includes \$2.4 billion for the Drinking and Clean Water State Revolving Funds (SRF's), an increase of \$1 billion, although some worry these accounts are being too significantly cut into by Congressionally Directed Spending on water projects. Likewise, the Water Infrastructure Finance and Innovation Act program (WIFIA) would be allocated \$80 million, marking an 11% increase in enacted.

Administration Readies for Colorado River Compact Negotiations

The U.S. Bureau of Reclamation is looking to broker a deal between Upper and Lower Colorado River Basin states by the end of the year, before the current Colorado River compact expires in 2026, and before a potential change in administration. Both sides continue to maintain that compromise is their preferred path forward. However, a breakdown in talks in January lead the states to release dueling plans in early March—with the Lower Basin displaying a willingness to take significant cuts. In opposition, Upper Basin states bristled at the idea of taking cuts of their own—suggesting a more significant

amount of their water supply comes from the river, and they have already been taking less water than they are entitled to under the previous compact.

Negotiations will continue this year as both sides seek to avoid federal intervention. The Biden Administration may be forced to draft a new management plan under the National Environmental Policy Act – as they did in 2023 to ensure continued hydropower operations at the Hoover and Glen Canyon dams, following a period of severe drought and water level declines in Lake Powell and Lake Mead

Federal Emergency Management Agency (FEMA) Faces Budget Shortfall

For the second year in a row, FEMA’s disaster relief fund is facing a shortfall as hurricane and wildfire season approaches. By August, the fund is project to face a \$2.7 billion deficit, by the end of FY24 in September, that deficit is projected to reach \$6.9 billion. With the increasing prevalence of natural disasters in recent years, the fund has been overdrawn, and Congress has not yet satisfied the Administrations \$9 billion request from last October for emergency supplemental funding for disaster relief. FEMA administrators now believe that emergency supplemental would need to be closer to \$12 billion to avoid a shortfall this summer.

FEMA is set to see \$20.3 billion appropriated for disaster relief in the FY24 Department of Homeland Security (DHS) appropriations bill, a \$316 million increase over FY23. However, the DHS funding bill in negotiation in Congress, as non-FEMA provisions in the legislation are the subject of intense political scorn.

Funding Opportunities

Bureau of Reclamation

WaterSMART: Planning and Project Design

The Bureau of Reclamation opened their funding opportunity for WaterSMART: Planning and Project Design. This grant opportunity is available to assist in improving water management operations, and planning activities related to water supply. This includes water access for disadvantaged communities, project-specific design elements, and comprehensive drought contingency plans. The deadline for this funding opportunity has been extended to **May 21, 2024**. More information can be found [here](#).

WaterSMART Water and Energy Efficiency Grants for Fiscal Year 2025

The Bureau of Reclamation has opened their WaterSMART Water and Energy Efficiency Grants for Fiscal Year 2025. This program seeks to provide financial assistance to support projects that result in quantifiable and sustained water savings, implement renewable energy components, and support broader sustainability benefits. The funding structure comprises three groups:









- Funding Group I (2 year projects): Up to \$500,000 per agreement
- Funding Group II (3 year projects): Up to \$2,000,000 per agreement
- Funding Group III (3 year projects): Up to \$5,000,000 per agreement


The number of approved projects is estimated to be around 40-50, contingent upon the availability of funds. Applicants must be capable of cost sharing 50 percent or more of the total project costs at the time of award. Applications are due **October 30, 2024**. More information can be found [here](#).

Environmental Protection Agency

Sewer Overflow and Stormwater Reuse Municipal Grants Program

The Environmental Protection Agency’s (EPA) Sewer Overflow and Stormwater Reuse Municipal Grants Program is a government initiative aimed at addressing the challenges associated with sewer overflows and stormwater management in municipalities. This program focuses on providing financial assistance and resources to local governments and communities to implement effective solutions for controlling and mitigating sewer overflows, as well as promoting the sustainable reuse of stormwater. Regions must obligate funds under interagency agreements or direct grants to state entities by **September 30, 2024**, or the funds may be subject to Congressional rescission. More information can be found [here](#).

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March 2024 Bill Tracking Matrix

Legislation	Summary	Status	Cosponsors	# of Cosponsors
H.R. 186 Water Supply Permitting Coordination Act	This bill would authorize the Secretary of the Interior to coordinate Federal and State permitting processes related to the construction of new surface water storage projects on lands under the jurisdiction of the Secretary of the Interior and the Secretary of Agriculture and to designate the Bureau of Reclamation as the lead agency for permit processing, and for other purposes.	01/09/2023 Introduced by Rep. Tom McClintock (R-CA-4) 2/21/2023 Referred to the Subcommittee on Water, Wildlife, and Fisheries.	Rep. Doug LaMalfa (R-CA-1); Rep. David Valadao (R-CA-21); Rep. Cliff Bentz (R-OR-2); Rep. Burgess Owens (R-UT-4); Rep. Pete Stauber (R-MN-8);	5
H.R. 215 WATER for California Act	This bill would provide long-term water supply and regulatory reliability to drought-stricken California, and for other purposes.	1/09/2023 Introduced by Rep. David Valadao (R-CA-21) 10/26/2023 Passed House within H.R. 4394, Energy and Water Appropriations Act. Awaiting consideration in the Senate.	Rep. Ken Calvert (R-CA-42); Rep. John Duarte (R-CA-13); Rep. Mike Garcia (R-CA-25); Rep. Darrell Issa (R-CA-50); Rep. Kevin Kiley (R-CA-3); Rep. Young Kim (R-CA-39); Rep. Doug LaMalfa (R-CA-1); Rep. Kevin McCarthy (R-CA-23);	11
H.R. 250 Clean Water SRF Parity Act	This bill expands the state revolving fund established under the Clean Water Act, including by allowing low-interest loans to be given to privately owned treatment works to address wastewater. Currently, loans are given to wastewater systems that are publicly owned.	01/10/2023 Introduced by Rep. John Garamendi (D-CA-8) 02/01/2023 Referred to the Subcommittee on Water Resources and Environment.	Rep. Mike Bost (R-IL-12); Rep. Donald Norcross (D-NJ-1); Rep. Donald Payne (D-NJ-10); Rep. Mary Peltola (D-AK-1); Rep. Hillary Scholten (D-MI-3); Rep. Abigail Spanberger (D-VA-7)	6
H.R. 369 NIST Wildland Fire Communications and Information Dissemination Act	This bill would require the National Institute of Standards and Technology to conduct research on public safety communication coordination standards among wildland firefighters and fire management response officials.	01/17/2023 Introduced by Rep. Young Kim (R-CA-40) 09/01/2023 09/01/2023 Reported by the Committee on Science, Space, and Technology	Rep. Mike Garcia (R-CA-25); Rep. Teresa Leger Fernandez (D-NM-3); Rep. Joe Neguse (D-CO-2); Rep. Melanie Ann Stansbury (D-NM-1); Rep. Jeff Jackson (D-NC-14)	5
S.21 Community Wildfire Protection Act	This bill would amend the Healthy Forests Restoration Act of 2003 to modify the definition of the term "at-risk community".	01/23/2023 Introduced by Sen. Dianne Feinstein (D-CA) 01/23/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry.	Sen. Daines, Steve (R-MT)	1
H.R. 480 Wildfire Recovery Act	This bill would amend the Robert T. Stafford Disaster Relief and Emergency Assistance Act to provide flexibility with the cost share for fire management assistance, and for other purposes.	01/24/2023 Introduced by Rep. Joe Neguse (D-CO-2) 02/01/2023 Referred to the Subcommittee on Economic Development, Public Buildings, and Emergency Management.	Rep. Salud Carbajal (D-CA-24); Rep. Jim Costa (D-CA-16); Rep. Mark DeSaulnier (D-CA-11); Rep. Anna Eshoo (D-CA-18); John Garamendi (D-CA-3); Rep. Josh Harder (D-CA-10); Rep. Jared Huffman (D-CA-2); Rep. Doug LaMalfa (R-CA-1);	32
H.R. 482 Western Wildfire Support Act	This bill seeks to improve Federal activities relating to wildfires, and for other purposes. <i>This bill is the House companion to S.1764.</i>	01/24/2023 Introduced by Rep. Joe Neguse (D-CO-2) 02/21/2023 Referred to the Subcommittee on Federal Lands.	Rep. Doris Matsui (D-CA-6); Rep. Jimmy Panetta (D-CA-20); Rep. Adam Schiff (D-CA-28); Rep. Steven Horsford (D-NV-4)	4
S. 64 Water Rights Protection Act of 2023	A bill to prohibit the conditioning of any permit, lease, or other use agreement on the transfer of any water right to the United States by the Secretary of the Interior and the Secretary of Agriculture, and for other purposes.	01/25/2023 Introduced by Senator John Barrasso (R-WY) 01/25/2023 Referred to the Committee on Energy and Natural Resources.	Sen. Mike Crapo (R-ID); Sen. James Risch (R-ID)	2
S.115 Clean Water Allotment Modernization Act	This bill revises the formula the Environmental Protection Agency (EPA) uses to determine how to distribute funds from the Clean Water State Revolving Fund (SRF) program. Under the program, the EPA allocates funding to states for water quality infrastructure projects, such as wastewater systems and stormwater management projects. <i>This bill is the Senate companion to H.R. 3167.</i>	01/26/2023 Introduced by Senator Marco Rubio (R-FL) 01/26/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. Kelly, Mark (D-AZ); Sen. Rick Scott (R-FL)	2



S. 188 Wildfire Emergency Act of 2023	A bill to direct the Secretary of Agriculture to select and implement landscape-scale forest restoration projects, to assist communities in increasing their resilience to wildfire, and for other purposes.	01/31/2023 Introduced by Senator Dianne Feinstein (D-CA) 01/31/2023 Referred to the Committee on Energy and Natural Resources.	Sen. Alex Padilla (D-CA) ; Sen. Steve Daines (R-MT); Sen. Ron Wyden (D-OR)	3
H.R.676 Coastal Communities Ocean Acidification Act	This bill would amend the Federal Ocean Acidification Research And Monitoring Act of 2009 to require the Secretary of Commerce, acting through the Administrator of the National Oceanic and Atmospheric Administration, to collaborate with State and local governments and Indian Tribes on vulnerability assessments related to ocean acidification, research planning, and similar activities, and for other purposes	01/31/2023 Introduced by Rep. Chellie Pingree (D-ME-1) 05/10/2023 Received in the Senate and Read twice and referred to the Committee on Commerce, Science, and Transportation	Rep. Mike Thompson (D-CA-5) ; Rep. Adam Schiff (D-CA-28) ; Rep. Ted Lieu (D-CA-33) ; Rep. Jared Huffman (D-CA-2) ; Rep. Jimmy Panetta (D-CA-20) ; Rep. Suzanne Bonamici (D-OR-1); Rep. Andre Carson (D-IN-7); Rep. Kathy Castor (D-FL-14);	21
H.J.Res 27 Providing for congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Department of the Army, Corps of Engineers, Department of Defense and the Environmental Protection Agency relating to 'Revised Definition of 'Waters of the United States'.	This joint resolution nullifies the rule titled Revised Definition of "Waters of the United States," which was submitted by the U.S. Army Corps of Engineers and the Environmental Protection Agency on January 18, 2023. The rule specifies which bodies of water fall under the scope of the Clean Water Act and are thereby under federal jurisdiction and protected. For example, the definition in the 2023 rule includes certain wetlands and ephemeral waters (e.g., waters that flow intermittently). The 2023 rule replaced the 2020 Navigable Waters Protection Rule that included a narrower definition of waters of the United States.	02/02/2023 Introduced by Rep. Sam Graves (R-MO-06). 04/18/2023 The Chair directed the Clerk to notify the Senate of the action of the House.	Rep. Ken Calvert (R-CA-42) ; Rep. John Duarte (R-CA-13) ; Rep. Mike Garcia (R-CA-25) ; Rep. Darrell Issa (R-CA-50) ; Rep. Kevin Kiley (R-CA-3) ; Rep. Doug LaMalfa (R-CA-1) ; Rep. Tom McClintock (R-CA-4) ; Rep. David Valadao (R-CA-21) ; Rep. Robert Aderholt (R-AL-4); Rep. Mark Alford (R-MO-4); Rep. Rick Allen (R-GA-12); Rep. Mark Amodei (R-NV-2); Rep. Kelly Armstrong (R-ND-1); Rep. Jodev	170
S.J. Res. 7 A joint resolution providing for congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Department of the Army, Corps of Engineers, Department of Defense and the Environmental Protection Agency relating to 'Revised Definition of 'Waters of the United States'.	This joint resolution nullifies the rule titled Revised Definition of "Waters of the United States," which was submitted by the U.S. Army Corps of Engineers and the Environmental Protection Agency on January 18, 2023. The rule specifies which bodies of water fall under the scope of the Clean Water Act and are thereby under federal jurisdiction. The 2023 rule replaced a 2020 rule that included a narrower definition of waters of the United States.	02/02/2023 Introduced By Senator Shelley Moore Capito (R-WV). 02/13/2023 Star Print ordered on the joint resolution.	Sen. John Barrasso (R-WY); Sen. Marsha Blackburn (R-TN); Sen. John Boozman (R-AR); Sen. Mike Braun (R-IN); Sen. Katie Britt (R-AL); Sen. Ted Budd (R-NC); Sen. Bill Cassidy (R-LA); Sen. Susan Collins (R-ME); Sen. John Cornyn (R-TX); Sen. Thomas Cotton (R-AR); Sen. Kevin Cramer (R-ND); Sen. Mike Crapo (R-ID); Sen. Ted Cruz (R-TX); Sen. Steve Daines (R-MT); Sen. Joni Ernst (R-IA);	49
H.R. 872 FISH Act	This bill gives the Fish and Wildlife Service (FWS) the sole authority to protect endangered or threatened species that are anadromous species (species of fish that spawn in fresh or estuarine waters and that migrate to ocean waters) or catadromous species (species of fish that spawn in ocean waters and migrate to fresh or estuarine waters). Currently, the FWS shares this authority with the National Marine Fisheries Service.	02/08/23 Introduced by Rep. Ken Calvert (R-CA-41) 02/21/23 Referred to the Subcommittee on Water, Wildlife, and Fisheries.	Rep. Jim Costa (D-CA-16) ; Rep. Darrell Issa (R-CA-50) ; Rep. Doug LaMalfa (R-CA-1) ; Rep. Tom McClintock (R-CA-4) ; Rep. Jay Obernolte (R-CA-8) ; Rep. Michelle Steel (R-CA-48) ; Rep. Mike Simpson (R-ID-2);	7
H.R. 873 Water Quality and Environmental Innovation Act	To authorize the Administrator of the Environmental Protection Agency to award grants and contracts for projects that use emerging technologies to address threats to water quality, and for other purposes.	2/8/2023 Introduced by Rep. Byron Donalds (R-FL-19) 02/17/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials	Rep. Josh Gottheimer (D-NJ-5); Rep. Anna Paulina-Luna (R-FL-13); Rep. Troy Nehls (R-TX-22); Rep. Paul Gosar (R-AZ-9); Rep. Michael Lawler (R-NY-17); Rep. Carlos Gimenez (R-FL-28)	6
H.R.934 To require the Secretary of Agriculture to carry out activities to suppress wildfires, and for other purposes	This bill would require the Secretary of Agriculture to carry out activities to suppress wildfires, and for other purposes	02/09/2023 Introduced by Rep. Tom McClintock (R-CA-5) 09/20/2023 Ordered to be Reported (Amended) by Voice Vote.	Rep. Ken Calvert (R-CA-42) ; Rep. John Duarte (R-CA-13) ; Rep. Darrell Issa (R-CA-50) ; Rep. Doug LaMalfa (R-CA-1) ; Rep. Jay Obernolte (R-CA-8) ; Rep. Daniel Newhouse (R-WA-4)	7
H.R. 1049 Protecting Airport Communities from Particle Emissions Act	To direct the Administrator of the Federal Aviation Administration to conduct a study relating to ultrafine particles, and for other purposes.	02/14/2023 Introduced by Rep. Adam Smith (D-WA-9) 02/24/23 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials.	Rep. Suzan DelBene (D-WA-1); Rep. Pramila Jayapal (D-WA-7); Rep. Grace Meng (D-NY-6); Rep. Eleanor Norton (D-DC-1)	4



S.466 Federal PFAS Research Evaluation Act	The bill requires the National Science Foundation (NSF) to enter into an agreement with the National Academies of Sciences, Engineering, and Medicine (NASEM) to conduct a two-phase study and report on the research and development needed to advance human exposure estimation and toxicity hazard estimation of individual or total PFAS.	02/16/2023 Introduced by Sen. Gary Peters (D-MI) 02/16/2023 Read twice and referred to the Committee on Commerce, Science, and Transportation	Sen. Richard Durbin (D-IL); Sen. Jerry Moran (R-KS); Sen. Jeanne Shaheen (D-NH)	3
H.R.1142 - To amend the Endangered Species Act of 1973 to require consideration of economic impact in making a listing decision with respect to the list of threatened and endangered species, and for other purposes.	This bill would amend the Endangered Species Act of 1973 to require consideration of economic impact in making a listing decision with respect to the list of threatened and endangered species, and for other purposes.	02/21/2023 Introduced by Rep. August Pfluger (R-TX-11) 03/22/2023 Referred to the Subcommittee on Water, Wildlife, and Fisheries.	Rep. Tom McClintock (R-CA-4) ; Rep. Ronny Jackson (R-TX-13); Rep. Tracey Mann (R-KS-1); Rep. Greg Steube (R-FL-17)	4
H.R. 1152 Water Quality Certification and Energy Project Improvement Act of 2023	This bill would amend the Federal Water Pollution Control Act to make changes with respect to water quality certification, and for other purposes.	02/24/2023 Introduced by Rep. David Rouzer (R-NC-7) 03/17/2023 Reported by the Committee on Transportation and Infrastructure. H. Rept. 118-10.	Rep. Garret Graves (R-LA-6); Rep. Scott Perry (R-PA-10)	2
H.R.1181 To amend the Federal Water Pollution Control Act with respect to permitting terms, and for other purposes	This bill would amend the Federal Water Pollution Control Act with respect to permitting terms, and for other purposes.	02/24/2023 Introduced by Rep. John Garamendi (D-CA-8) 02/27/2023 Referred to the Subcommittee on Water Resources and Environment	Rep. Eric Swalwell (D-CA-15) ; Rep. Ken Calvert (R-CA-42) ; Rep. Andre Carson (D-IN-7); Rep. Garret Graves (R-LA-6); Rep. David Rouzer (R-NC-7)	5
H.R.1367 Water System Threat Preparedness and Resilience Act	This bill requires the Environmental Protection Agency (EPA) to create a program to support increased membership and involvement of certain smaller water utilities and water treatment works (e.g., wastewater systems) in the Water Information Sharing and Analysis Center (WaterISAC). <i>This bill is the House companion to S. 660.</i>	03/03/2023 Introduced by Rep. Janice Schakowsky (D-IL-8) 03/10/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials		0
S.660 Water System Threat Preparedness and Resilience Act	This bill requires the Environmental Protection Agency (EPA) to create a program to support increased membership and involvement of certain smaller water utilities and water treatment works (e.g., wastewater systems) in the Water Information Sharing and Analysis Center (WaterISAC). As background, WaterISAC is a group of water and wastewater systems and associations that coordinate with the EPA and other federal agencies to collect and analyze data on water security and threats. WaterISAC also provides analysis and resources to support response, mitigation, and resilience initiatives. <i>This bill is the Senate companion to H.R. 1367.</i>	03/06/2023 Introduced by Sen. Edward Markey (D-MA) 03/06/2023 Read twice and referred to the Committee on Environment and Public Works		0
H.R. 1430 Determination of NEPA Adequacy Streamlining Act	This bill would direct the Secretary of the Interior and the Secretary of Agriculture to use certain previously completed environmental assessments and environmental impact statements to satisfy the review requirements of the National Environmental Policy Act of 1969, and for other purposes.	03/07/2023 Introduced by Rep. David Valadao (R-CA-21) 04/25/2023 Referred to the Subcommittee on Forestry.		0
S.702 Urban Waters Federal Partnership Act	This bill provides statutory authority for the Urban Waters Federal Partnership Program. Under the program, the Environmental Protection Agency and other specified agencies must reconnect urban communities, particularly urban communities that are overburdened or economically distressed, with their waterways by improving coordination among federal agencies.	03/08/2023 Introduced by Sen. Krysten Sinema (I-AZ) 03/08/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. John Cornyn (R-TX); Sen. Mark Kelly (D-AZ)	2
H.R.1517 Relief for Farmers Hit with PFAS Act	This bill would authorize the Secretary of Agriculture to provide grants to States, territories, and Indian Tribes to address contamination by perfluoroalkyl and polyfluoroalkyl substances on farms, and for other purposes. <i>This bill is the House companion to S. 747.</i>	03/09/2023 Introduced by Rep. Chellie Pingree (D-ME-1) 03/09/2023 Referred to the House Committee on Agriculture	Rep. Becca Balint (D-VT-1); Rep. Joe Courtney (D-CT-2); Rep. Teresa Leger Fernandez (D-NM-3); Rep. Brian Fitzpatrick (R-PA-1); Rep. Jared Golden (D-ME-2); Rep. Val Hoyle (D-OR-4); Rep. ...	9



S.747 Relief for Farmers Hit with PFAS Act	This bill would authorize the Secretary of Agriculture to provide grants to States, territories, and Indian Tribes to address contamination by perfluoroalkyl and polyfluoroalkyl substances on farms, and for other purposes. <i>This bill is the Senate companion to H.R. 1517.</i>	03/09/2023 Introduced by Sen Susan Collins (R-ME) 03/09/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Tammy Baldwin (D-WI); Sen. Kirsten Gillibrand (D-NY); Sen. Maggie Hassan (D-NH); Sen. Martin Heinrich (D-NM); Sen. Angus King (I-ME); Sen. Ben Lujan (D-NM); Sen. Bernie Sanders (I-VT); Sen. Jeanne Shaheen (D-NH); Sen. Robert Aderholt (R-AL-4); Rep. Rick Allen (R-GA-12); Rep. Kelly Armstrong (R-ND-1); Rep. Troy Balderson (R-OH-12); Rep. Lauren Boebert (R-CO-3); Rep. Michael Burgess (R-TX-26); Rep. Kat Cammack (R-FL-3); Rep. Mike Carey (R-OH-15); Rep. Buddy Carter (R-GA-1); Rep. Dan Crenshaw (R-TX-2);	11
H.R. 1586 Forest Protection and Wildland Firefighter Safety Act of 2023	This bill would allow the Secretary of the Interior and the Secretary of Agriculture to use a fire retardant, chemical, or water for fire suppression, control, or prevention activities.	3/14/2023 Introduced by Rep. Doug LaMalfa (R-CA-1) 11/15/2023 Ordered to be Reported in the Nature of a Substitute by Voice Vote	Rep. Jay Obernolte (R-CA-8); Rep. David Valadao (R-CA-21); Rep. Ken Calvert (R-CA-42); Rep. Jim Costa (D-CA-16); Rep. Rick Crawford (R-AR-1); Rep. John Duarte (R-CA-13); ; Rep. John Garamendi (D-CA-	37
H.R. 1 Lower Energy Costs Act	To lower energy costs by increasing American energy production, exports, infrastructure, and critical minerals processing, by promoting transparency, accountability, permitting, and production of American resources, and by improving water quality certification and energy projects, and for other purposes.	03/14/2023 Introduced by Rep. Steve Scalise (R-LA-1) 03/30/2023 The Clerk was authorized to correct section numbers, punctuation, and cross references, and to make other necessary technical and conforming corrections in the engrossment of H.R. 1.	Rep. Tom McClintock (R-CA-4); Rep. Robert Aderholt (R-AL-4); Rep. Rick Allen (R-GA-12); Rep. Kelly Armstrong (R-ND-1); Rep. Troy Balderson (R-OH-12); Rep. Lauren Boebert (R-CO-3); Rep. Michael Burgess (R-TX-26); Rep. Kat Cammack (R-FL-3); Rep. Mike Carey (R-OH-15); Rep. Buddy Carter (R-GA-1); Rep. Dan Crenshaw (R-TX-2);	49
S.806 Healthy H2O Act	This bill would amend the Consolidated Farm and Rural Development Act to establish a grant program to assist with the purchase, installation, and maintenance of point-of-entry and point-of-use drinking water quality improvement products, and for other purposes. <i>This bill is the Senate companion to H.R. 1721.</i>	03/15/2023 Introduced by Sen. Tammy Baldwin (D-WI) 03/15/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Alex Padilla (D-CA); Sen. Susan Collins (R-ME); Sen. Angus King (I-ME); Sen. Jeanne Shaheen (D-NH); Sen. Tina Smith (D-MN); Sen. Ron Wyden (D-OR); Sen. Kirsten Gillibrand (D-NY); Sen. Ben Ray Lujan (D-NM);	10
S. 820 Protecting Consumers from PFAS Act	This bill would require the Consumer Product Safety Commission (CPSC) to be added to the Administration interagency work group that coordinates federally funded PFAS research and development.	03/15/2023 Introduced by Sen. Gary Peters (D-MI) 11/27/2023 Placed on Senate Legislative Calendar under General Orders	Sen. Susan Collins (R-ME); Sen. Cynthia Lummis (R-WY); Sen. Peter Welch (D-VT)	3
H.R.1721 Healthy H2O Act	This bill would amend the Consolidated Farm and Rural Development Act to establish a grant program to assist with the purchase, installation, and maintenance of point-of-entry and point-of-use drinking water quality improvement products, and for other purposes. <i>This bill is the House companion to S. 806.</i>	03/22/2023 Introduced by Rep. Chellie Pingree (D-ME-1) 04/25/2023 Referred to the Subcommittee on Commodity Markets, Digital Assets, and Rural Development	Rep. Mike Levin (D-CA-49); Rep. Josh Harder (D-CA-10); Rep. David Valadao (R-CA-21); Adam Schiff (D-CA-28); Rep. Doris Matsui (D-CA-7) Rep. Shontel Brown (D-OH-11); Rep. Brian Fitzpatrick (R-PA-1); Rep. Mike Gallagher (R-WI-8); Rep.	30
H.R.1729 Water Affordability, Transparency, Equity, and Reliability Act	This bill would establish a trust fund to provide for adequate funding for water and sewer infrastructure, and for other purposes.	03/22/2023 Introduced by Rep. Bonnie Watson Coleman (D-NJ-12) 04/25/2023 Referred to the Subcommittee on Commodity Markets, Digital Assets, and Rural Development.	Rep. Kevin Mullin (D-CA-15); Rep. Jimmy Panetta (D-CA-20); Rep. Ro Khanna (D-CA-17); Rep. Barbara Lee (D-CA-13); Rep. Ted Lieu (D-CA-33); Rep. Doris Matsui (D-CA-6); Rep. Sara Jacobs (D-CA-53); Rep. Adam Schiff (D-CA-28);	91
H.R. 1740 To amend the Water Infrastructure Finance and Innovation Act of 2014 to establish payment and performance security requirements for projects, and for other purposes.	To amend the Water Infrastructure Finance and Innovation Act of 2014 to establish payment and performance security requirements for projects, and for other purposes.	3/23/2023 Introduced by Rep. Mike Bost (R-IL-12). 03/31/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials.	Rep. Julia Brownley (D-CA-26); Rep. Colin Allred (D-TX-32); Rep. Jake Auchincloss (D-MA-4); Rep. Troy Balderson (R-OH-12); Rep. Josh Gottheimer (D-NJ-5); Rep. Tom Kean (R-NJ-7); Rep. Stephen Lynch (D-MA-8); Rep. Chris Pappas (D-NH-1); Rep. David Bonior (D-NH-2);	12
S. 1022 Define WOTUS Act	This bill would amend the Federal Water Pollution Control Act to modify the definition of navigable waters, and for other purposes.	03/29/2023 Introduced by Sen. Mike Braun (R-IN) 03/29/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. Joni Ernst (R-IA); Sen. Chuck Grassley (R-IA)	2



S. 1023 Farmer-Informed WOTUS Act	This bill would establish an advisory committee to inform Congress of the impact of Waters of the United States regulations on United States agriculture, and for other purposes. <i>This bill is the Senate companion to H.R. 4956.</i>	03/29/2023 Introduced by Sen. Mike Braun (R-IN) 03/29/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry.	Sen. John Kennedy (R-LA); Sen. Pete Ricketts (R-NE); Sen. Mike Rounds (R-SD); Sen. Rick Scott (R-FL); Sen. Tommy Tuberville (R-AL)	5
H.R. 2419 Canal Conveyance Capacity Restoration Act	This bill would provide financial assistance for projects to address certain subsidence impacts in the State of California, and for other purposes. <i>This bill is the House companion to S.2161.</i>	03/30/2023 Introduced by Rep. Jim Costa (D-CA-16) 05/08/2023 Referred to the Subcommittee on Water, Wildlife, and Fisheries.	Rep. John Garamendi (D-CA-3); Rep. Josh Harder (D-CA-10)	2
H.R.2521 Clean Drinking Water Equity Act	This bill would amend the Safe Drinking Water Act with respect to assistance for disadvantaged communities, and for other purposes.	04/06/2023 Introduced by Rep. Raul Ruiz (D-CA-25) 04/14/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials.		0
H.R.2670 National Defense Authorization Act for Fiscal Year 2024	This bill authorizes FY2024 appropriations and sets forth policies for Department of Defense (DOD) programs and activities, military construction, and the national security programs of the Department of Energy (DOE). The bill authorizes appropriations, but does not provide budget authority, which is provided by appropriations legislation. <i>This is the House counterpart to S.2226.</i>	04/18/2023 Introduced by Rep. Mike Rogers (R-AL-3) 12/22/2023 Became Public Law No: 118-31	Rep. Adam Smith (D-WA-9)	1
H.R. 2735 Coastal State Climate Preparedness Act of 2023	This bill directs the Department of Commerce to establish a coastal climate change adaptation preparedness and response program. Under the program, Commerce must (1) assist coastal states with voluntarily developing coastal climate change adaptation plans, and (2) provide financial and technical assistance as well as training for coastal states to implement the adaptation plans.	04/20/2023 Introduced by Rep. Salud Carbajal (D-CA-24) 05/22/2023 Referred to the Subcommittee on Water, Wildlife, and Fisheries	Rep. Ted Lieu (D-CA-33); Rep. Adam Schiff (D-CA-30); Rep. Brian Fitzpatrick (R-PA-1); Rep. Michael Lawler (R-NY-17); Rep. Marc Molinaro (R-NY-19)	5
H.R. 2787 To amend the Consolidated Farm and Rural Development Act to modify provisions relating to rural decentralized water systems grants	This bill would amend the Consolidated Farm and Rural Development Act to modify provisions relating to rural decentralized water systems grants. <i>This bill is the House companion to S.1233.</i>	04/20/2023 Introduced by Rep. Terri Sewell (D-AL-7) 05/15/2023 Referred to the Subcommittee on Commodity Markets, Digital Assets, and Rural Development.	Rep. Mike Rogers (R-AL-3)	1
S.1233 A bill to amend the Consolidated Farm and Rural Development Act to modify provisions relating to rural decentralized water systems grants	This bill would amend the Consolidated Farm and Rural Development Act to modify provisions relating to rural decentralized water systems grants. <i>This bill is the Senate companion to H.R. 2787.</i>	04/20/2023 Introduced by Sen. Cory Booker (D-NJ) 04/20/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Shelley Capito (R-WV)	1
H.R. 2811 Limit, Save, Grow Act of 2023	This bill increases the federal debt limit and decreases spending. It also repeals several energy tax credits, modifies the permitting process and other requirements for energy projects, expands work requirements for the Supplemental Nutrition Assistance Program (SNAP) and other programs, and nullifies regulations for the cancellation of federal student loan debt.	04/25/2023 Introduced by Rep. Jodey Arrington (R-TX-19) 05/04/2023 Committee on the Budget. Hearings held.	Rep. Rep. Tom McClintock (R-CA-4); Rep. Stephanie Bice (R-OK-5); Rep. Michael Burgess (R-TX-26); Rep. Buddy Carter (R-GA-1); Rep. James Comer (R-KY-1); Rep. Chuck Edwards (R-NC-11); Rep. Virginia Foxx (R-NC-5); Rep. Kay Granger (R-TX-12); Rep.	19
S.1360 PFAS Exposure Assessment and Documentation Act	This bill would require DOD to ensure that any periodic health assessment, physical assessment for recently separated members, pre-deployment medical examination, post-deployment medical examination, and post-deployment health reassessment provided to a member of the Armed Forces includes an evaluation of whether the member has been exposed to PFAS or was based or stationed at a military installation with a known or suspected release of PFAS during the period the member was there.	04/27/2023 Introduced by Sen. Jeanne Shaheen (D-NH) 04/27/2023 Read twice and referred to the Committee on Armed Services		0



H.R.2964 WIPES Act	This bill require the Federal Trade Commission to issue regulations requiring certain products to have "Do Not Flush" labeling, and for other purposes. <i>This bill is the House companion to S.1350.</i>	04/27/2023 Introduced by Rep. Lisa McClain (R-MI-9) 12/06/2023 Ordered to be Reported (Amended) by the Yeas and Nays: 42 - 0	Rep. Julia Brownley (D-CA-26); Rep. Mary Peltola (D-AK-1); Rep. Marie Perez (D-WA-3)	3
H.R.3027 Reclamation Climate Change and Water Program Reauthorization Act	This bill would reauthorize funding for the Reclamation Climate Change and Water Program.	04/28/2023 Introduced by Rep. Katie Porter (D-CA-47) 06/14/2023 Subcommittee Hearings Held	Rep. Sydney Kamlager (D-CA-37); Rep. Mike Levin (D-CA-49); Rep. Zoe Lofgren (D-CA-19); Rep. Grace Napolitano (D-CA-32); Rep. Matsui, Doris O. (D-CA-7); Rep. Melanie Ann	9
S.1427 Agriculture PFAS Liability Protection Act	This bill would exempt certain entities from liability under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 with respect to releases of perfluoroalkyl and polyfluoroalkyl substances, and for other purposes.	05/03/2023 Introduced by Sen. Cynthia Lummis (R-WY) 05/03/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. John Boozman (R-AR); Sen. Kevin Cramer (R-ND); Sen. Lindsey Graham (R-SC); Sen. Markwayne Mullin (R-OK); Sen. Pete Ricketts (R-NE); Sen. Dan Sullivan (R-AK); Sen. Roger Wicker (R-MS)	7
S. 1429 Resource Management PFAS Liability Protection Act	This bill would exempt certain entities from liability under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 with respect to releases of perfluoroalkyl and polyfluoroalkyl substances, and for other purposes.	05/03/2023 Introduced by Sen. Cynthia Lummis (R-WY) 05/03/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. John Boozman (R-AR); Sen. Kevin Cramer (R-ND); Sen. Lindsey Graham (R-SC); Sen. Markwayne Mullin (R-OK); Sen. Pete Ricketts (R-NE); Sen. Dan Sullivan (R-AK); Sen. Roger Wicker (R-MS)	7
S. 1430 Water Systems PFAS Liability Protection Act	This bill would exempt certain entities from liability under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 with respect to releases of perfluoroalkyl and polyfluoroalkyl substances, and for other purposes.	05/03/2023 Introduced by Sen. Cynthia Lummis (R-WY) 05/03/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. John Boozman (R-AR); Sen. Kevin Cramer (R-ND); Sen. Lindsey Graham (R-SC); Sen. Markwayne Mullin (R-OK); Sen. Pete Ricketts (R-NE); Sen. Dan Sullivan (R-AK); Sen. Roger Wicker (R-MS)	7
S.1432 Fire Suppression PFAS Liability Protection Act	This bill would exempt certain entities from liability under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 for the release of certain perfluoroalkyl or polyfluoroalkyl substances, and for other purposes.	05/03/2023 Introduced by Sen. Cynthia Lummis (R-WY) 05/03/2023 Read twice and referred to the Committee on Environment and Public Works	Sen. John Boozman (R-AR); Sen. Kevin Cramer (R-ND); Sen. Lindsey Graham (R-SC); Sen. Markwayne Mullin (R-OK); Sen. Pete Ricketts (R-NE); Sen. Dan Sullivan (R-AK); Sen. Roger Wicker (R-MS)	7
S.1433 Airports PFAS Liability Protection Act	This bill would exempt certain aviation entities from liability under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 for the release of certain perfluoroalkyl or polyfluoroalkyl substances, and for other purposes.	05/03/2023 Introduced by Sen. Cynthia Lummis (R-WY) 05/03/2023 Read twice and referred to the Committee on Environment and Public Works	Sen. John Boozman (R-AR); Sen. Kevin Cramer (R-ND); Sen. Lindsey Graham (R-SC); Sen. Markwayne Mullin (R-OK); Sen. Pete Ricketts (R-NE); Sen. Dan Sullivan (R-AK); Sen. Roger Wicker (R-MS)	7
S. 1449 RESTART Act	This bill seeks to improve the environmental review process, and for other purposes.	05/04/2023 Introduced by Sen. Shelley Capito (R-WV) 05/04/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. John Barrasso (R-WY); Sen. John Boozman (R-AR); Sen. Kevin Cramer (R-ND); Sen. Lindsey Graham (R-SC); Sen. James Lankford (R-OK); Sen. Cynthia Lummis (R-WY); Sen. Pete Ricketts (R-NE); Sen. James Risch (R-ID); Sen. Dan Sullivan (R-AK); Sen. Roger Wicker (R-MS)	12
S.1456 SPUR Act	This bill would provide for certain energy development, permitting reforms, and for other purposes.	05/04/2023 Introduced by Sen. John Barrasso (R-WY) 05/04/2023 Read twice and referred to the Committee on Energy and Natural Resources.	Sen. Shelley Capito (R-WV); Sen. Bill Cassidy (R-LA); Sen. Steve Daines (R-MT); Sen. Josh Hawley (R-MO); Sen. John Hoeven (R-ND); Sen. Cindy Hyde-Smith (R-MS); Sen. James	12



H.R.3167 Clean Water Allotment Modernization Act	This bill would amend the Federal Water Pollution Control Act to modify certain allotments under that Act, and for other purposes. <i>This bill is the House companion to S.115.</i>	05/09/2023 Introduced by Rep. Michael Waltz (R-FL-6) 05/10/2023 Referred to the Subcommittee on Water Resources and Environment.	Rep. Vern Buchanan (R-FL-16); Rep. Mario Diaz-Balart (R-FL-25); Rep. Anna Luna (R-FL-13); Rep. Brian Mast (R-FL-18); Rep. John Rutherford (R-FL-4); Rep. Maria Elvira Salazar (R-FL-27); Rep. Daniel Webster (R-FL-10)	7
H.R.3192 PFAS Registry Act	This bill would require the Secretary of Veterans Affairs to establish and maintain a registry for certain individuals who may have been exposed to per- and polyfluoroalkyl substances due to the environmental release of aqueous film-forming foam on military installations.	05/10/2023 Introduced by Rep. Chris Pappas (D-NH-1) 05/26/2023 Referred to the Subcommittee on Health	Rep. Brian Fitzpatrick (R-PA-1); Rep. Ann Kuster (D-NH-2); Rep. Mike Lawler (R-NY-17); Rep. Elissa Slotkin (D-MI-7); Rep. Angie Craig (D-MN-2)	5
H.R.3316 To amend titles 46 and 49, United States Code, to streamline the environmental review process for major projects, and for other purposes.	This bill applies the expedited environmental review processes for major infrastructure projects under FAST-41 to federal actions involving certain port, aviation, and pipeline projects. Specifically, this bill requires, to the greatest extent feasible, the Department of Transportation (DOT) to conduct efficient environmental reviews for port infrastructure projects, pipeline projects, and airport or aviation projects that require DOT's approval under the National Environmental Policy Act of 1969 (NEPA).	05/15/2023 Introduced by Rep. Rick Crawford (R-AR-1) 05/23/2023 Ordered to be Reported by Voice Vote.	Rep. John Garamendi (D-CA-3); Rep. David Rouzer (R-NC-7); Rep. Chuck Edwards (R-NC-11);	3
H.R.3389 Emergency Wildfire Fighting Technology Act	This bill would require the Secretary of Agriculture, acting through the Chief of the Forest Service, and the Secretary of the Interior to conduct an evaluation with respect to the use of the container aerial firefighting system (CAFFS), and for other purposes.	05/16/2022 Introduced by Rep. David Valadao (R-CA-22) 09/13/2023 Received in Senate after passing House on suspension of rules.	Rep. Jim Costa (D-CA-16); Rep. Mike Garcia (R-CA-25); Rep. Josh Harder (D-CA-10); Rep. Darrell Issa (R-CA-50); Rep. Kevin Kiley (R-CA-3); Rep. Doug Lamborn (R-CO-5); Rep. Daniel Newhouse (R-WA-4);	9
H.R.3396 Fire Department Repayment Act	This bill would require the standardization of reciprocal fire suppression cost share agreements, and for other purposes.	05/17/2023 Introduced by Rep. Josh Harder (D-CA-10) 12/06/2023 Ordered to be Reported (Amended) by Unanimous Consent	Rep. Young Kim (R-CA-40); Rep. Julia Brownley (D-CA-26); Rep. Jim Costa (D-CA-16); Rep. Jared Huffman (D-CA-2); Rep. Sydney Kamlager (D-CA-37); Rep. Kevin Kiley (R-CA-3);	27
H.R.3439 Emergency Wildfire Act of 2023	This bill would direct the Secretary of Agriculture to select and implement landscape-scale forest restoration projects, to assist communities in increasing their resilience to wildfire, and for other purposes.	05/17/2023 Introduced by Rep. Jimmy Panetta (D-CA-20) 06/23/2023 Referred to the Subcommittee on Forestry	Rep. Adam Schiff (D-CA-28); Rep. Mike Thompson (D-CA-5); Rep. Salud Carbajal (D-CA-24); Rep. Jim Costa (D-CA-16); Rep. Mark DeSaulnier (D-CA-11); Rep. John Garamendi (D-	8
H.R.3457 SUPERSAFE Act	This bill would direct the Administrator of the Environmental Protection Agency to establish a consortium relating to exposures to toxic substances and identifying chemicals that are safe to use	05/18/2023 Introduced by Rep. Zoe Lofgren (D-CA-18) 05/19/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials		0
H.R.3490 - Water Infrastructure Modernization Act	This bill would amend the Federal Water Pollution Control Act and the Safe Drinking Water Act to authorize grants for smart water infrastructure technology, and for other purposes.	05/18/2023 Introduced by Rep. Ruben Gallego (D-AZ-3) 05/19/2023 Referred to the Subcommittee on Water Resources and Environment	Rep. John Duarte (R-CA-13)	1
H.R.3499 Direct Hire to Fight Fires Act	This bill would amend title 5, United States Code, to provide direct hire authority to appoint individuals to Federal wildland firefighting and firefighting support positions in the Forest Service or the Department of the Interior, and for other purposes.	05/18/2023 Introduced by Rep. Darrell Issa (R-CA-50) 07/26/2023 Ordered to be Reported in the Nature of a Substitute (Amended) by the Yeas and Nays: 32 - 0.	Rep. Doug LaMalfa (R-CA-1); Rep. Kiley, Kevin (R-CA-3)	2
S.1715 Wildfire Emergency Act of 2023	This bill would direct the Secretary of Agriculture to select and implement landscape-scale forest restoration projects, to assist communities in increasing their resilience to wildfire, and for other purposes.	05/18/2023 Introduced by Sen. Dianne Feinstein (D-CA) 05/18/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Alex Padilla (D-CA); Sen. Laphonza Butler (D-CA); Sen. Steve Daines (R-MT); Sen. Ron Wyden (D-OR)	4



H.R.3675 Western Water Accelerated Revenue Repayment Act	This bill would amend the Water Infrastructure Improvements for the Nation Act to extend certain contract prepayment authority.	05/25/2023 Introduced by Rep. Lauren Boebert (R-CO-3) 07/26/2023 Ordered to be Reported in the Nature of a Substitute (Amended) by the Yeas and Nays: 22 - 14	Rep. Tom McClintock (R-CA-4) ; Rep. Paul Gosar (R-AZ-4); Rep. Harriet Hageman (R-WY-1); Rep. Doug Lamborn (R-CO-5); Rep. Mike Lawler (R-NY-17); Rep. Troy Nehls (R-TX-22); Rep. Daniel Newhouse (R-WA-4)	9
H.R. 3746 Fiscal Responsibility Act of 2023	This bill would provide for a responsible increase to the debt ceiling.	05/29/2023 Introduced by Rep. Patrick McHenry (R-NC-10) 06/03/2023 Became Public Law No: 118-5.		0
S.1764 Western Wildfire Support Act	This bill seeks to improve Federal activities relating to wildfires, and for other purposes. <i>This bill is the Senate companion to H.R. 482.</i>	05/31/2023 Introduced by Sen. Catherine Cortez Masto (D-NV) 10/25/2023 Committee on Energy and Natural Resources Subcommittee on Public Lands, Forests, and Mining. Hearings held.		0
H.R.3809 Cybersecurity for Rural Water Systems Act	This bill would include cybersecurity technical assistance in the national rural water and wastewater circuit rider program of Department of Agriculture	06/05/2023 Introduced by Rep. Donald David (D-NC-1) 07/10/2023 Referred to the Subcommittee on Commodity Markets, Digital Assets, and Rural Development.	Rep. Jim Costa (D-CA-16) ; Rep. Angie Craig (D-MN-2); Rep. Zach Nunn (R-IA-3); Rep. Abigail Spanberger (D-VA-7); Rep. Mike Gallagher (R-WI-8); Rep. David Rouzer (R-NC-7); Rep. Brian Fitzpatrick (R-PA-1)	7
H.R.3871 Research for Healthy Soils Act	This bill would amend the Food, Agriculture, Conservation, and Trade Act of 1990 to include as a high-priority research and extension area research on microplastics in land-applied biosolids on farmland. <i>This bill is the House companion to S.3623.</i>	06/06/2023 Introduced by Rep. Marie Perez (D-WA-3) 07/28/2023 Referred to the Subcommittee on Conservation, Research, and Biotechnology.	Rep. Young Kim (R-CA-40) ; Rep. Mike Lawler (R-NY-17); Rep. Mikie Sherrill (D-NJ-11); Rep. Brian Fitzpatrick (R-PA-1)	4
S.1853 Headwaters Protection Act	This bill would amend the Healthy Forests Restoration Act of 2003 to reauthorize and improve the Water Source Protection Program, and for other purposes. <i>This bill is the Senate companion to H.R. 4018.</i>	06/07/2023 Introduced by Sen. Michael Bennet (D-CO) 06/07/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry.	Sen. Feinstein, Dianne (D-CA) ; Sen. Crapo, Mike (R-ID); Sen. Risch, James E. (R-ID); Sen. Lujan, Ben Ray (D-NM); Sen. Kelly, Mark (D-AZ); Sen. Hickenlooper, John W. (D-	9
H.R.3954 Water and Agriculture Tax Reform Act	This bill would amend the Internal Revenue Code of 1986 to facilitate water leasing and water transfers to promote conservation and efficiency.	06/09/2023 Introduced by Rep. Ken Buck (R-CO-4) 06/09/2023 Referred to the House Committee on Ways and Means	Rep. John Curtis (R-UT-3); Rep. Joe Neguse (D-CO-2); Rep. Daniel Newhouse (R-WA-4)	3
H.R.4018 Headwaters Protection Act	This bill would amend the Healthy Forests Restoration Act of 2003 to reauthorize and improve the Water Source Protection Program, and for other purposes. <i>This bill is the House companion to H.R. S.1852.</i>	06/12/2023 Introduced by Rep. Jim Costa (D-CA-21) 07/28/2023 Referred to the Subcommittee on Forestry.	Rep. David Valadao (R-CA-21) ; Rep. Earl Blumenauer (D-OR-3); Rep. Brittany Pettersen (D-CO-7); Rep. Kim Schrier (D-WA-8); Rep. Melanie Ann Stansbury (D-NM-1)	7
H.R.4052 National Infrastructure Bank Act	facilitate efficient investments and financing of infrastructure projects and new job creation through the establishment of a National Infrastructure Bank, and for other purposes.	06/13/2023 Introduced by Rep. Danny Davis (D-IL-7) 06/16/2023 Referred to the Subcommittee on Innovation, Data, and Commerce.	Rep. Barbara Lee (D-CA-13) ; Rep. Eric Swalwell (D-CA-15) ; Rep. John Garamendi (D-CA-3) ; Rep. Jimmy Panetta (D-CA-20) ; Rep. Zoe Lofgren (D-CA-18) ; Rep. Chellie Pingree (D-ME-	27
H.R.4235 Wildfire Technology Demonstration, Evaluation, Modernization, and Optimization Act	This bill would direct the Secretary of Agriculture and the Secretary of the Interior to establish a wildfire technology testbed pilot program, and for other purposes.	06/21/2023 Introduced by Rep. Young Kim (R-CA-40) 11/14/2023 Hearing held in Subcommittee on Federal Lands.	Rep. Ken Calvert (R-CA-42) ; Rep. Jim Costa (D-CA-16) ; Rep. John Duarte (R-CA-13) ; Rep. Josh Harder (D-CA-10) ; Rep. Darrell Issa (R-CA-50) ; Rep. David Valadao (R-CA-21) ; Rep. Doug Lamborn (R-CO-5); Rep. Mike Lawler (R-NY-17)	11



H.R.4247 Flood Prevention and Snowpack Management Act	This bill would direct the Secretary of the Army to establish a task force on the California snowpack and flood mitigation, and for other purposes.	06/21/2023 Introduced by Rep. Josh Harder (D-CA-9) 06/22/2023 Referred to the Subcommittee on Water Resources and Environment.	Rep. Barbara Lee (D-CA-13); Rep. Zoe Lofgren (D-CA-19); Rep. Eshoo, Anna G. (D-CA-16)	3
S.2102 Water for Conservation and Farming Act	This bill would provide for drought preparedness and improved water supply reliability.	06/21/2023 Introduced by Sen. Ron Wyden (D-OR) 07/19/2023 Committee on Energy and Natural Resources Subcommittee on Water and Power. Hearings held	Sen. Jeff Merkley (D-OR)	1
S.2127 Military Construction, Veterans Affairs, and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for military construction, the Department of Veterans Affairs (VA), and related agencies. <i>This is the Senate counterpart to H.R. 4366.</i>	06/22/2023 Introduced by Sen. Patty Murray (D-WA) 03/09/2024 Became Public Law No: 118-42		0
S.2130 PFAS Community Engagement and Transparency Act	This bill would require community engagement and reporting relating to activities of the Department of Defense with respect to perfluoroalkyl substances and polyfluoroalkyl substances, and for other purposes.	06/22/2023 Introduced by Sen. Jeanne Shaheen (D-NH) 06/22/2023 Read twice and referred to the Committee on Armed Services		0
S.2131 Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for the Department of Agriculture (USDA), the Food and Drug Administration, and related agencies. <i>This is the Senate counterpart to H.R.4368 .</i>	06/22/2023 Introduced by Sen. Martin Heinrich 03/09/2024 Became Public Law No: 118-42		0
S.2161 Canal Conveyance Capacity Restoration Act	This bill would provide financial assistance for projects to address certain subsidence impacts in the State of California, and for other purposes. <i>This bill is the Senate companion to H.R. 2419.</i>	06/22/2023 Introduced by Sen. Dianne Feinstein (D-CA) 07/19/2023 Committee on Energy and Natural Resources Subcommittee on Water and Power. Hearings held		0
S.2162 STREAM Act.	This bill would support water infrastructure in Reclamation States, and for other purposes.	06/22/2023 Introduced by Sen. Dianne Feinstein (D-CA) 07/19/2023 Committee on Energy and Natural Resources Subcommittee on Water and Power. Hearings held	Sen. Mark Kelly (D-AZ); Sen. Kyrsten Sinema (I-AZ)	2
S.2169 Watershed Results Act	This bill would authorize the Secretary of the Interior to carry out watershed pilots, and for other purposes.	06/22/2023 Introduced by Sen. Ron Wyden (D-OR) 07/19/2023 Committee on Energy and Natural Resources Subcommittee on Water and Power. Hearings held.		0
S.2203 ARROW Act	This bill would require the conduct of winter season reconnaissance of atmospheric rivers on the West Coast of the United States, and for other purposes.	06/22/2023 Introduced by Sen. Alex Padilla (D-CA) 06/22/2023 Read twice and referred to the Committee on Armed Services		0
H.R.4368 Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for the Department of Agriculture (USDA), the Food and Drug Administration, and related agencies. <i>This is the House counterpart to S.2131.</i>	06/22/2023 Introduced by Rep. Andy Harris (R-MD-1) 03/09/2024 Became Public Law No: 118-42		0



H.R.4365 Department of Defense Appropriations Act, 2024	This bill provides FY2024 appropriations to the Department of Defense (DOD) for military activities. <i>This is the House counterpart to S.2587.</i>	06/27/2023 Introduced by Rep. Ken Calvert (R-CA-42) 10/16/2023 Received in the Senate. Read twice. Placed on Senate Legislative Calendar under General Orders. Calendar No. 226.		0
H.R.4366 Military Construction, Veterans Affairs, and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for military construction, the Department of Veterans Affairs (VA), and related agencies. <i>This is the House counterpart to S.2127.</i>	06/27/2023 Introduced by Rep. John Carter (R-TX-31) 03/09/2024 Became Public Law No: 118-42		0
H.R.4385 Drought Preparedness Act	This bill reauthorizes through FY2028 the Reclamation States Emergency Drought Relief Act of 1991, which allows the Bureau of Reclamation to provide drought assistance to Hawaii or certain western states.	06/27/2023 Introduced by Rep. Joe Neguse (D-CO-2) 02/06/2024 Passed the House and Received in the Senate and Read twice and referred to the Committee on Energy and Natural Resources	Rep. Juan Ciscomani (R-AZ-6); Rep. Susie Lee (D-NV-3)	2
H.R.4394 Energy and Water Development and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for U.S. Army Corps of Engineers civil works projects, the Department of the Interior's Bureau of Reclamation, the Department of Energy (DOE), and several independent agencies. <i>This is the House counterpart to S.2443.</i>	06/30/2023 Introduced by Rep. Chuck Fleischmann (R-TN-3) 03/09/2024 Became Public Law No: 118-42		0
S.2226 National Defense Authorization Act for Fiscal Year 2024	This bill authorizes FY2024 appropriations and sets forth policies for Department of Defense (DOD) programs and activities, military construction, and the national security programs of the Department of Energy (DOE). The bill authorizes appropriations, but does not provide budget authority, which is provided by appropriations legislation. <i>This is the Senate counterpart to H.R. 2670.</i>	07/11/2023 Introduced by Sen. Jack Reed (D-RI) 07/20/2023 S.Amdt.685 Amendment SA 685 agreed to in Senate by Voice Vote		0
H.R.4540 Water Infrastructure Enhancement Act of 2023	This bill would amend the Safe Drinking Water Act to establish a program to provide grants to suppliers of water for the purpose of making infrastructure improvements to public water systems, and for other purposes.	07/11/2023 Introduced by Rep. Henry Cuellar (D-TX-28) 07/14/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials.	Rep. Chris Smith (R-NJ-4); Rep. Melanie Ann Stansbury (D-NM-1); Rep. Monica De La Cruz (R-TX-15); Rep. Michael Lawler (R-NY-17); Rep. Andre Carson (D-IN-7); Rep. Gabe Vasquez (D-NM-2)	6
H.R.4584 National Wildland Fire Risk Reduction Program Act	This bill would improve the Federal effort to reduce wildland fire risks, and for other purposes.	07/12/2023 Introduced by Rep. Zoe Lofgren (D-CA-18) 07/13/2023 Referred to the Subcommittee on Economic Development, Public Buildings, and Emergency Management	Rep. Suzanne Bonamici (D-OR-1); Rep. Andrea Salinas (D-OR-6)	2
S.2272 - Wildland Firefighter Paycheck Protection Act	This bill would amend title 5, United States Code, to provide for special base rates of pay for wildland firefighters, and for other purposes. <i>This is the Senate counterpart to H.R. 5169.</i>	07/12/2023 Introduced by Sen. Kyrsten Sinema (I-AZ) 09/11/2023 Placed on Senate Legislative Calendar under General Orders. Calendar No. 205.	Sen. Alex Padilla (D-CA) ; Sen. John Barrasso (R-WY); Sen. Steve Daines (R-MT); Sen. Joe Manchin (D-WV); Sen. Jon Tester (D-MT); Sen. Cynthia Lummis M. (R-WY); Sen.	7
H.R.4717 Locally Led Restoration Act	This bill would amend the Healthy Forests Restoration Act of 2003 with respect to third-party contracts for wildfire hazard fuel removal, to amend the National Forest Management Act with respect to the threshold for advertised timber sales, and for other purposes.	07/18/2023 Introduced by Rep. Doug Lamborn (R-CO-5) 11/14/2023 Subcommittee Hearings Held	Rep. Jim Costa (D-CA-16) ; Rep. Doug LaMalfa (R-CA-1) ; Rep. Lauren Boebert (R-CO-3); Rep. Lori Chavez-DeRemer (R-OR-5)	5



S.2337 Plastic Pellet Free Waters Act	This bill would require the Administrator of the Environmental Protection Agency to promulgate certain limitations with respect to pre-production plastic pellet pollution, and for other purposes.	07/18/2023 Introduced by Sen. Richard Durbin (D-IL) 07/18/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. Alex Padilla (D-CA) ; Sen. Richard Blumenthal (D-CT); Sen. Ben Cardin (D-MD); Sen. Edward Markey (D-MA); Sen. Jeff Merkley (D-OR); Sen. Chris Van Hollen (D-MD); Sen. Tammy Duckworth (D-IL)	7
S.2353 Responsible Wildland Fire Recovery Act	This bill would provide for cost-share waivers for projects carried out in response to wildland fires caused by certain Government actions, and for other purposes. <i>This bill is the Senate companion to H.R. 4920.</i>	07/18/2023 Introduced by Sen. Ben Ray Lujan (D-NM) 07/18/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry.	Rep. Melanie Ann Stansbury (D-NM-1)	1
S.2388 Cybersecurity for Rural Water Systems Act	This bill would amend the Consolidated Farm and Rural Development Act to establish a cybersecurity circuit rider program to provide cybersecurity-related technical assistance to certain entities that operate rural water or wastewater systems.	07/19/2023 Introduced by Sen. Catherine Cortez-Masto (D-NV) 07/19/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Mike Rounds (R-SD); Sen. Angus King (I-ME)	2
H.R.4769 PFAS Alternatives Act	This bill seeks to drive innovation in developing next-generation protection for firefighters by accelerating the development of PFAS-free turnout gear, and for other purposes.	07/20/2023 Introduced by Rep. Debbie Dingell (D-MI-6) 07/21/2023 Referred to the Subcommittee on Economic Development, Public Buildings, and Emergency Management.	Rep. Adam Schiff (D-CA-30) ; Rep. Salud Carbajal (D-CA-24) ; Rep. Don Bacon (R-NE-2); Rep. Jim Banks (R-IN-3); Rep. Earl Blumenauer (D-OR-3); Rep. Suzanne Bonamici (D-OR-1); Rep. Nikki Budzinski (D-IL-13); Rep. Mike Gohmert (R-TX-1)	65
S.2443 Energy and Water Development and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for U.S. Army Corps of Engineers civil works projects, the Department of the Interior's Bureau of Reclamation, the Department of Energy (DOE), and several independent agencies. <i>This is the Senate counterpart to H.R.4394</i>	07/20/2023 Introduced by Sen. Dianne Feinstein 03/09/2024 Became Public Law No: 118-42		0
H.R.4821 Department of the Interior, Environment, and Related Agencies Appropriations Act, 2024	This bill provides FY2024 appropriations for the Department of the Interior, the Environmental Protection Agency (EPA), and several related agencies. <i>This is the House counterpart to S.2605.</i>	07/24/2023 Introduced by Rep. Mike Simpson (R-ID-2) 03/09/2024 Became Public Law No: 118-42		0
H.R.4831 Fair Pay for Federal Firefighters Act	This bill would provide a special rate of basic pay for Federal wildland firefighters during fiscal years 2024 and 2025, and for other purposes.	07/24/2023 Introduced by Rep. Doug LaMalfa (R-CA-1) 09/19/2023 Referred to the Subcommittee on Forestry.	Rep. Ken Calvert (R-CA-42) ; Rep. John Curtis (R-UT-3) ; Rep. Kevin Kiley (R-CA-3) ; David Valadao (R-CA-21) Rep. John Duarte (R-CA-13) ; Rep. Chuck Edwards (R-NC-11); Rep. Scott Franklin (R-FL-15); Rep. Mike Gohmert (R-TX-1); Rep. Louie Gohmert (R-TX-1)	16
H.R.4866 Fire Weather Development Act	This bill would direct the Administrator of the National Oceanic and Atmospheric Administration to establish a program to improve fire weather and fire environment forecasting, detection, and local collaboration, and for other purposes.	07/25/2023 Introduced by Rep. Mike Garcia (R-CA-27) 09/22/2023 Placed on the Union Calendar, Calendar No. 174.	Rep. Young Kim (R-CA-39) ; Rep. Yadira Caraveo (D-CO-8)	2
H.R.4890 Urban Waters Federal Partnership Act	This bill would require the Administrator of the Environmental Protection Agency, the Secretary of the Interior, and the Secretary of Agriculture to maintain the Urban Waters Federal Partnership Program, and for other purposes.	07/25/2023 Introduced by Rep. Greg Stanton (D-AZ-4) 07/26/2023 Referred to the Subcommittee on Water Resources and Environment	Rep. Brian Fitzpatrick (R-PA-1); Rep. Michael Lawler (R-NY-17)	2
H.R.4908 Expedited Federal Permitting for California Act	This bill would amend title 23, United States Code, to make eligible airport-related projects and port development projects eligible for approval under State environmental laws and regulations instead of the National Environmental Policy Act of 1969, and for other purposes.	07/26/2023 Introduced by Rep. John Garamendi (D-CA-8) 07/27/2023 Referred to the Subcommittee on Aviation	Rep. Eric Swalwell (D-CA-15)	1



H.R.4913 To establish in the National Oceanic and Atmospheric Administration a program to improve precipitation forecasts, and for other purposes	This bill would establish in the National Oceanic and Atmospheric Administration a program to improve precipitation forecasts, and for other purposes.	07/26/2023 Introduced by Rep. Jeff Jackson (D-NC-14) 07/26/2023 Referred to the House Committee on Science, Space, and Technology		0
H.R.4920 Responsible Wildland Fire Recovery Act	This bill would provide for cost-share waivers for projects carried out in response to wildland fires caused by certain Government actions, and for other purposes. <i>This bill is the House companion to S.2353.</i>	07/26/2023 Introduced by Rep. Teresa Leger Fernandez (D-NM-3) 09/25/2023 Referred to the Subcommittee on Forestry.	Rep. Melanie Ann Stansbury (D-NM-1)	1
H.R.4956 Farmer-Informed WOTUS Act of 2023	This bill would establish an advisory committee to inform Congress of the impact of Waters of the United States regulations on United States agriculture, and for other purposes. <i>This bill is the House companion to S. 1023.</i>	07/27/2023 Introduced by Rep. Rudy Yakym (R-IN-2) 07/28/2023 Referred to the Subcommittee on Water Resources and Environment	Rep. Tracey Mann (R-KS-1); Rep. Erin Houchin (R-IN-9)	2
S.2587 Department of Defense Appropriations Act, 2024	This bill provides FY2024 appropriations to the Department of Defense (DOD) for military activities. <i>This is the Senate counterpart to H.R.4365.</i>	07/27/2023 Introduced by Sen. John Tester (D-MT) 07/27/2023 Placed on Senate Legislative Calendar under General Orders. Calendar No. 181		0
S.2605 Department of the Interior, Environment, and Related Agencies Appropriations Act, 2024	Making appropriations for the Department of the Interior, environment, and related agencies for the fiscal year ending September 30, 2024, and for other purposes. <i>This is the Senate counterpart to H.R.4821.</i>	07/27/2023 Introduced by Sen. Jeff Merkley (D-OR) 03/09/2024 Became Public Law No: 118-42		0
S.2636 Healthy Watersheds, Healthy Communities Act	This bill would amend the Watershed Protection and Flood Prevention Act to improve that Act, and for other purposes. <i>This bill is the Senate companion to H.R. 6497.</i>	07/27/2023 Introduced by Sen. Michael Bennett (D-CO) 07/27/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Deb Fischer (R-NE); Sen. Jeff Merkley (D-OR); Sen. Jon Tester (D-MT)	3
S.2697 Clean Drinking Water for Rural Communities Act	This bill would amend the Consolidated Farm and Rural Development Act to modify the definitions of the terms "rural" and "rural area" for purposes of grants and loans to remedy a lack of compliance with certain drinking water standards, and for other purposes.	07/27/2023 Introduced by Sen. Dianne Feinstein (D-CA) 07/27/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Alex Padilla (D-CA)	1
H.R.5015 Seedlings for Sustainable Habitat Restoration Act	This bill would amend the Infrastructure Investment and Jobs Act to authorize the Secretary of Agriculture, acting through the Chief of the Forest Service, to enter into contracts, grants, and agreements to carry out certain ecosystem restoration activities, and for other purposes. <i>This bill is the House companion to S. 1164 .</i>	07/27/2023 Introduced by Rep. Teresa Leger Fernandez (D-NM-3) 09/25/2023 Referred to the Subcommittee on Forestry.		0
H.R.5016 Water Efficiency, Conservation, and Sustainability Act	This bill would increase efficiency and conservation in public water systems, and for other purposes.	07/27/2023 Introduced by Rep. Mike Levin (D-CA-49) 07/28/2023 Referred to the Subcommittee on Environment, Manufacturing, and Critical Materials		0
H.R.5153 To direct the Secretary of Veterans Affairs to carry out a pilot program to employ veterans in certain wildland firefighting activities	This bill would direct the Secretary of Veterans Affairs to carry out a pilot program to employ veterans in certain wildland firefighting activities.	08/04/2023 Introduced by Rep. Joe Neguse (D-CO-2) 09/19/2023 Referred to the Subcommittee on Forestry	Rep. John Rutherford (R-FL-4); Rep. Marcus Molinaro (R-NY-19)	2



H.R.5169 Wildland Firefighter Paycheck Protection Act	This bill would amend title 5, United States Code, to provide for special base rates of pay for wildland firefighters, and for other purposes. <i>This bill is the House companion to S.2272.</i>	08/08/2023 Introduced by Rep. Joe Neguse (D-CO-2) 09/25/2023 Referred to the Subcommittee on Forestry	Rep. Adam Schiff (D-CA-28); Rep. Mike Thompson (D-CA-5); Rep. David Valadao (R-CA-21); Rep. Katie Porter (D-CA-45); Rep. Josh Harder (D-CA-10); Rep. Mike Garcia (R-CA-25); Rep. Grace Napolitano (D-CA-	24
H.R.5259 PFAS Exposure Assessment and Documentation Act	This bill would direct the Secretary of Defense to include in periodic health assessments of members of the Armed Forces an evaluation of whether the member has been exposed to perfluoroalkyl substances and polyfluoroalkyl substances, and for other purposes.	08/22/2023 Introduced by Rep. Elissa Slotkin (D-MI-7) 08/22/2023 Referred to the House Committee on Armed Services	Rep. Bill Posey (R-FL-8); Rep. Michael Turner (R-OH-10); Rep. Lawler, Michael (R-NY-17); Rep. David Rouzer (R-N-7)	4
H.R.5260 PFAS Free Military Purchasing Act	This bill would amend the National Defense Authorization Act for Fiscal Year 2021, to modify the prohibition on the acquisition by the Department of Defense of certain items containing a perfluoroalkyl substance or polyfluoroalkyl substance.	08/22/2023 Introduced by Rep. Elissa Slotkin (D-MI-7) 08/22/2023 Referred to the House Committee on Armed Services	Rep. Bill Posey (R-FL-8); Rep. Michael Lawler (R-NY-17)	2
H.R.5261 PFAS Training For DoD Providers and Servicemembers Act	This bill would direct the Secretary of Defense to provide to each health care provider of the Department of Defense training regarding the potential health effects of perfluoroalkyl or polyfluoroalkyl substances.	08/22/2023 Introduced by Rep. Elissa Slotkin (D-MI-7) 08/22/2023 Referred to the House Committee on Armed Services	Rep. Jack Bergman (R-MI-1); Rep. Bill Posey (R-FL-8); Rep. Michael Turner (R-OH-10); Michael Lawler (R-NY-17)	4
H.R.5262 DoD PFAS Cleanup Transparency Act	This bill would require the Secretary of Defense to publish information regarding the status of certain cleanup efforts of the Department of Defense, and for other purposes.	08/22/2023 Introduced by Rep. Elissa Slotkin (D-MI-7) 08/22/2023 Referred to the House Committee on Armed Services	Rep. Jack Bergman (R-MI-1); Rep. Chrissy Houlahan (D-PA-6); Rep. Bill Posey (R-FL-8); Michael Lawler (R-NY-17)	4
H.R.5263 PFAS Strictest Standard Act	This bill would direct the Secretary of Defense to ensure that removal and remedial actions relating to PFAS contamination result in levels meeting or exceeding certain standards, and for other purposes.	08/22/2023 Introduced by Rep. Elissa Slotkin (D-MI-7) 08/23/2023 Referred to the Subcommittee on Water Resources and Environment	Rep. Ro Khanna (D-CA-17); Rep. Bill Posey (R-FL-8); Michael Lawler (R-NY-17)	3
H.R.5329 Wildfire Smoke Emergency Declaration Act	This bill would authorize the President to declare a smoke emergency, and for other purposes.	09/01/2023 Introduced by Rep. Josh Harder (D-CA-9) 09/05/2023 Referred to the Subcommittee on Economic Development, Public Buildings, and Emergency Management	Rep. Mark DeSaulnier (D-CA-11); Rep. Robert Garcia (D-CA-42); Rep. Ted Lieu (D-CA-33); Rep. Zoe Lofgren (D-CA-19); Rep. Kevin Mullin (D-CA-15); Rep. Eric Swalwell (D-CA-15); Rep. Mark Takano (D-CA-41); Rep. Mike Thompson (D-CA-5)	11
S.2749 Wildfire Resilient Communities Act	This bill would provide mandatory funding for hazardous fuels reduction projects on certain Federal land, and for other purposes. <i>This bill is the Senate companion to H.R. 6525.</i>	09/07/2023 Introduced by Sen. Jeff Merkley (D-OR) 09/07/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Dianne Feinstein (D-CA); Sen. Alex Padilla (D-CA); Sen. Ron Wyden (D-OR)	3
H.R.5355 Save Our Airports Reporting Act	This bill would require the Administrator of the Federal Aviation Administration to submit to Congress progress reports on the development and implementation of a national plan to transition to the use of a fluorine-free firefighting foam, and for other purposes.	09/08/2023 Introduced by Rep. Salud Carbajal (D-CA-24) 09/11/2023 Referred to the Subcommittee on Aviation	Rep. Mike Lawler (R-NY-17); Rep. Derrick Van Orden (R-WI-3); Rep. Marc Molinaro (R-NY-19)	3
H.R.5356 PFAS Act	This bill would require the Secretary of Transportation to establish a PFAS replacement program at certain airports, and for other purposes.	09/08/2023 Introduced by Rep. Salud Carbajal (D-CA-24) 09/11/2023 Referred to the Subcommittee on Aviation	Rep. Julia Brownley (D-CA-26); Rep. David Valadao (R-CA-22); Rep. Mike Lawler (R-NY-17); Rep. Derrick Van Orden (R-WI-3)	4



H.R.5483 Securing Access for the central Valley and Enhancing (SAVE) Water Resources Act	This bill would promote water supply reliability and improved water management for rural communities, the State of California, and the Nation, and for other purposes.	09/14/2023 Introduced by Rep. Josh Harder (D-CA-9) 09/14/2023 Referred to the House Committee on Natural Resources	Rep. Jim Costa (D-CA-16); Rep. John Garamendi (D-CA-3); Rep. Jimmy Panetta (D-CA-20); Rep. Eric Swalwell (D-CA-15)	4
H.R.5509 Electronic Permitting Modernization Act	This bill seeks to modernize permitting systems at the Department of the Interior, and for other purposes.	09/14/2023 Introduced by Rep. Katie Porter (D-CA-47) 11/15/2023 Ordered to be Reported in the Nature of a Substitute (Amended) by Unanimous Consent.	Rep. Doug LaMalfa (R-CA-1); Rep. Mary Peltola (D-AK-1); Rep. Byron Donalds (R-FL-19); Rep. Marc Molinaro (R-NY-19)	4
H.R.5664 Water Infrastructure Finance and Innovation Act Amendments	This bill would reauthorize the Water Infrastructure Finance and Innovation Act of 2014, and for other purposes.	09/21/2023 Introduced by Rep. Kim Schrier (D-WA-8) 09/22/2023 Referred to the Subcommittee on Water Resources and Environment	Rep. Jim Costa (D-CA-16); Rep. John Garamendi (D-CA-3); Rep. Josh Harder (D-CA-10); Rep. Doug LaMalfa (R-CA-1); Rep. Daniel Newhouse (R-WA-4); Rep. Lori Chavez-DeRemer (R-OR-5); Rep. Sharice	7
H.R.5691 Drought Assistance Improvement Act	This bill would improve drought related disaster assistance programs of the Department of Agriculture, and for other purposes.	09/26/2023 Introduced by Rep. Julia Letlow (R-LA-5) 09/26/2023 Referred to the House Committee on Agriculture	Rep. Michael Guest (R-MS-3); Rep. Garret Graves (R-LA-6); Rep. Troy Carter (D-LA-2)	3
S.2917 Rural Water System Disaster Preparedness and Assistance Act	This bill would amend the Consolidated Farm and Rural Development Act to establish an emergency preparedness and response technical assistance program to assist entities that operate rural water or wastewater systems in preparing for and responding to natural or man-made disasters.	09/26/2023 Introduced by Sen. Catherine Cortez Masto (D-NV) 09/26/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Cindy Hyde-Smith (R-MS); Sen. Tammy Baldwin (D-WI)	2
S.2928 Water Infrastructure Subcontractor and Taxpayer Protection Act	This bill would amend the Water Infrastructure Finance and Innovation Act of 2014 to establish payment and performance security requirements for projects, and for other purposes.	09/26/2023 Introduced by Sen. Mark Kelly (D-AZ) 09/26/2023 Read twice and referred to the Committee on Environment and Public Works	Sen. Kevin Cramer (R-ND); Sen. Chris Van Hollen (D-MD)	2
H.R.5764 Support Water-Efficient Strategies and Technologies Act	This bill would amend the Food Security Act of 1985 to increase payments for drought-resilient or water-saving practices and to provide additional payments for perennial production systems, and for other purposes.	09/27/2023 Introduced by Rep. Teresa Leger Fernandez (D-NM-3) 01/17/2024 Referred to the Subcommittee on Conservation, Research, and Biotechnology	Rep. David Valadao (R-CA-21); Rep. Chellie Pingree (D-ME-1)	2
H.R.5770 Water Data Improvement Act	This bill would reauthorize certain United States Geological Survey water data enhancement programs.	09/27/2023 Introduced by Rep. Joe Neguse (D-CO-2) 01/17/2024 Ordered to be Reported (Amended) by Unanimous Consent	Rep. Juan Ciscomani (R-AZ-6)	1
H.R.5793 Water Access Act	This bill would appropriate \$500 million to the low-income household water assistance program under section 2912 of the American Rescue Plan Act of 2021, and for other purposes.	09/28/2023 Introduced by Rep. Debbie Dingell (D-MI-6) 09/28/2023 Referred to the House Committee on Appropriations	Rep. Lisa Rochester (D-DE-1); Rep. Rashida Tlaib (D-MI-13); Rep. Shri Thanedar (D-MI-13); Rep. Morgan McGarvey (D-KY-3); Rep. Kim Schrier (D-WA-8)	5
S.2994 Maintaining and Enhancing Hydroelectricity and River Restoration Act	This bill would amend the Internal Revenue Code of 1986 to support upgrades at existing hydroelectric dams in order to increase clean energy production, improve the resiliency and reliability of the United States electric grid, enhance the health of the Nation's rivers and associated wildlife habitats, and for other purposes.	09/28/2023 Introduced by Sen. Maria Cantwell (D-WA) 09/28/2023 Read twice and referred to the Committee on Finance	Sen. Susan Collins (R-ME); Sen. Kirsten Gillibrand (D-NY); Sen. Angus King (I-ME); Sen. Lisa Murkowski (R-AK); Sen. Gary Peters (D-MI); Sen. Jeanne Shaheen (D-NH); Sen. Debbie Stabenow (D-MI); Sen. Dan	9



H.R.5983 Clean Water Act of 2023	This bill would amend the Federal Water Pollution Control Act to restore a national minimum standard of protection for the water resources of the United States while providing certainty to regulated entities.	10/18/2023 Introduced by Rep. Rick Larsen (D-WA-2) 10/27/2023 Referred to the Subcommittee on Water Resources and Environment.	Rep. Peter Aguilar (D-CA-31); Rep. Nanette Barragan (D-CA-44); ; Rep. Julia Brownley (D-CA-26); Rep. Salud Carbajal (D-CA-24); Rep. Tony Cardenas (D-CA-29); Rep. Mark DeSaulnier (D-CA-11); Rep. Debbie Dingell	130
S.3082 Water Quality Certification Improvement Act	This bill would amend the Federal Water Pollution Control Act to make changes with respect to water quality certification, and for other purposes.	10/19/2023 Introduced by Sen. John Barrasso (R-WY) 10/19/2023 Read twice and referred to the Committee on Environment and Public Works	Sen. Steve Daines (R-MT); Sen. Cynthia Lummis (R-WY); Sen. Kevin Cramer (R-ND); Sen. Pete Ricketts (R-NE)	4
H.R.6024 PFAS Health Study Act	This bill would amend the National Defense Authorization Act for Fiscal Year 2018 to extend the increased transfer authority for a certain study on per- and polyfluoroalkyl substances contamination in drinking water, and for other purposes.	10/24/2023 Introduced by Rep. Madeline Dean (D-PA-4) 10/25/2023 Referred to the House Committee on Armed Services	Rep. Brian Fitzpatrick (R-PA-1)	1
H.R.6053 Break Free From Plastic Pollution Act	This bill would amend the Solid Waste Disposal Act to reduce the production and use of certain single-use plastic products and packaging, to improve the responsibility of producers in the design, collection, reuse, recycling, and disposal of consumer products and packaging, to prevent pollution from consumer products and packaging from entering into animal and human food chains and waterways, and for other purposes. <i>This bill is the House companion to S.3127.</i>	10/25/2023 Introduced by Rep. Jared Huffman (D-CA-2) 01/18/2024 Referred to the Subcommittee on Conservation, Research, and Biotechnology	Rep. Nanette Barragan (D-CA-44); Rep. Salud Carbajal (D-CA-24); Rep. Judy Chu (D-CA-27); Rep. Mark DeSaulnier (D-CA-11); Rep. Robert Garcia (D-CA-42); Rep. Jimmy Gomez (D-CA-34); Rep. Ro Khanna (D-CA-17); Rep. Barbara Lee (D-CA-13); Rep. Mike Levin (D-CA-49); Rep. Ted Lieu (D-CA-33); Rep. Stephen Lynch (D-MA-9);	72
S.3123 Modernizing Access to Our Public Waters Act	This bill would provide for the standardization, consolidation, and publication of data relating to public outdoor recreational use of Federal waterways among Federal land and water management agencies, and for other purposes.	10/25/2023 Introduced by Sen. John Barrasso (R-WY) 10/25/2023 Read twice and referred to the Committee on Energy and Natural Resources.	Sen. Angus King (I-ME)	1
S.3127 Break Free From Plastic Pollution Act	This bill would amend the Solid Waste Disposal Act to reduce the production and use of certain single-use plastic products and packaging, to improve the responsibility of producers in the design, collection, reuse, recycling, and disposal of consumer products and packaging, to prevent pollution from consumer products and packaging from entering into animal and human food chains and waterways, and for other purposes. <i>This bill is the Senate companion to H.R. 6053.</i>	10/25/2023 Introduced by Sen. Jeff Merkley (D-OR) 10/25/2023 Read twice and referred to the Committee on Environment and Public Works.	Sen. Richard Blumenthal (D-CT); Sen. Cory Booker (D-NJ); Sen. Richard Durbin (D-IL); Sen. Kirsten Gillibrand (D-NY); Sen. Edward Markey (D-MA); Sen. Patty Murray (D-WA); Sen. Bernie Sanders (I-VT); Sen. Chris Van Hollen (D-MD); Sen. Elizabeth Warren (D-MA); Sen. Peter Welch (D-VT); Sen. Ron Wyden (D-OR)	11
H.R.6093 Weather Act Reauthorization Act	This bill seeks to improve the National Oceanic and Atmospheric Administration's weather research, support improvements in weather forecasting and prediction, expand commercial opportunities for the provision of weather data, and for other purposes.	10/26/2023 Introduced by Rep. Frank Lucas (R-OK-3) 12/11/2023 Reported (Amended) by the Committee on Science, Space, and Technology	Rep. Jay Obermole (R-CA-8); Rep. Zoe Lofgren (D-CA-19) Rep. Mike Garcia (R-CA-25); Rep. Darrell Issa (R-CA-48); Rep. Brian Babin (R-TX-36); Rep. Jim Baird (R-IN-4); Rep. Stephanie Bice (R-OK-5); Rep. Suzanne Bonamici (D-OR-1); Rep. Mike Collins (D-CA-10);	29
H.R.6095 Department of Defense PFAS Discharge Prevention Act	This bill would require the Secretary of Defense to request modifications relating to certain permits issued under the Federal Water Pollution Control Act, and for other purposes.	10/26/2023 Introduced by Rep. Jennifer McClellan (D-VA-4) 10/27/2023 Referred to the Subcommittee on Water Resources and Environment.	Rep. Brian Fitzpatrick (R-PA-1); Rep. Jen Kiggans (R-VA-2); Rep. Mike Lawler (R-NY-17); Rep. Nancy Mace (R-SC-1); Rep. Chris Pappas (D-NH-1); Rep. Deborah Ross (D-NC-2); Rep. Bobby Scott (D-VA-3); Rep. Derrick Van Orden (R-WI-3)	8
S.3147 Flood Protection and Infrastructure Resilience Act	This bill would modify Department of Agriculture programs to improve flood protection and infrastructure resiliency, and for other purposes.	10/26/2023 Introduced by Sen. Pete Ricketts (R-NE) 10/26/2023 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Kirsten Gillibrand (D-NY)	1



H.R.6129 Studying NEPA's Impact on Projects Act	This bill would require the Council on Environmental Quality to publish an annual report on environmental reviews and causes of action based on compliance with the National Environmental Policy Act of 1969, and for other purposes.	11/01/2023 Introduced by Rep. Rudy Yakym (R-IN-2) 11/02/2023 Sponsor introductory remarks on measure.	Rep. Jimmy Panetta (D-CA-20); Rep. John Duarte (R-CA-13); Rep. Doug LaMalfa (R-CA-1); Rep. Sam Graves (R-MO-6); Rep. Matt Rosendale (R-MT-2); Rep. Chuck Edwards (R-NC-11); Rep. Tracey Mann (R-KS-1); Rep. Ryan Zinke (R-MT-1)	10
H.R.6195 Wildland Firefighter Fair Pay Act	This bill would amend title 5, United States Code, to establish a special limitation on pay for wildland fire responders, and for other purposes.	11/02/2023 Introduced by Rep. Zoe Lofgren (D-CA-18) 03/01/2024 Referred to the Subcommittee on Forestry	Rep. Nanette Barragan (D-CA-44); Rep. Julia Brownley (D-CA-26); Rep. Mark DeSaulnier (D-CA-11); Rep. Jared Huffman (D-CA-2); Rep. Ted Lieu (D-CA-33); Rep. Jimmy Panetta (D-CA-20); Rep. Scott Peters (D-CA-52); Rep. Katie Porter (D-CA-45); Rep. Adam Schiff (D-CA-4)	11
H.R.6411 Innovative Materials for America's Growth and Infrastructure Newly Expanded Act	This bill would encourage the research and use of innovative materials and associated techniques in the construction and preservation of the domestic transportation and water infrastructure system, and for other purposes. <i>This bill is the House companion to S.3292.</i>	11/14/2023 Introduced by Rep. Seth Magaziner (D-RI-2) 11/20/2023 Referred to the Subcommittee on Water Resources and Environment.		0
S.3292 IMAGINE Act	This bill would encourage the research and use of innovative materials and associated techniques in the construction and preservation of the domestic transportation and water infrastructure system, and for other purposes. <i>This bill is the Senate companion to H.R.6411.</i>	11/14/2023 Introduced by Sen. Sheldon Whitehouse (D-RI) 11/14/2023 Read twice and referred to the Committee on Environment and Public Works	Sen. Susan Collins (R-ME);	1
H.R.6497 Healthy Watersheds, Healthy Communities Act	This bill would amend the Watershed Protection and Flood Prevention Act to improve that Act, and for other purposes. <i>This bill is the House companion to S.2636.</i>	11/29/2023 Introduced by Rep. Juan Ciscomani (R-AZ-6) 01/24/2024 Referred to the Subcommittee on Conservation, Research, and Biotechnology	Rep. Yadira Caraveo (D-CO-8); Rep. Mike Flood (R-NE-1); Rep. Harriet Hageman (R-WY-1); Rep. Joe Neguse (D-CO-2); Rep. Brittany Pettersen (D-CO-7); Rep. Michael Lawler (R-NY-17)	6
H.R.6519 No PFAS in Cosmetics Act	This bill would amend the Federal Food, Drug, and Cosmetic Act to ban the use of intentionally added perfluoroalkyl or polyfluoroalkyl substances in cosmetics, and for other purposes.	11/30/2023 Introduced by Rep. Debbie Dingell (D-MI-6) 11/30/2023 Referred to the House Committee on Energy and Commerce.	Rep. Brian Fitzpatrick (R-PA-1); Rep. Ann Kuster (D-NH-2); Rep. Chris Pappas (D-NH-1); Rep. Lori Trahan (D-MA-3); Rep. Steve Cohen (D-TN-9); Rep. Hillary Scholten (D-MI-3); Rep. Peter DeFazio (D-OR-5)	7
H.R.6525 Wildfire Resilient Communities Act	This bill would provide mandatory funding for hazardous fuels reduction projects on certain Federal land, and for other purposes. <i>This bill is the House companion to S.2749.</i>	11/30/2023 Introduced by Rep. Val Hoyle (D-OR-4) 01/24/2024 Referred to the Subcommittee on Forestry	Rep. Josh Harder (D-CA-9); Rep. Jared Huffman (D-CA-2); Rep. Adam Schiff (D-CA-30); Rep. Mike Thompson (D-CA-4); Rep. Joe Neguse (D-CO-2); Rep. Andrea Salinas (D-OR-6); Rep. Melanie Stansbury (D-NM-1)	7
H.R.6805 PFAS Action Act	This bill would require the Administrator of the Environmental Protection Agency to designate per- and polyfluoroalkyl substances as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980.	12/14/2023 Introduced by Rep. Debbie Dingell (D-MI-6) 01/02/2024 Referred to the Subcommittee on Water Resources and Environment	Rep. Grace Napolitano (D-CA-32); Rep. Brendan Boyle (D-PA-2); Rep. Brian Fitzpatrick (R-PA-1); Rep. Lizzie Fletcher (D-TX-7); Rep. Ro Khanna (D-CA-17); Rep. Daniel Kildee (D-MI-5); Rep. Ann Kuster (D-NH-2); Rep. Rick Warren (D-CA-2)	22
H.R.6808 PFAS Risk-Communication Strategy Act	This bill would require the Administrator of the Environmental Protection Agency to develop a risk-communication strategy to inform the public about the hazards or potential hazards of perfluoroalkyl and polyfluoroalkyl substances, and for other purposes.	12/14/2023 Introduced by Rep. Lizzie Fletcher (D-TX-7) 01/02/2024 Referred to the Subcommittee on Water Resources and Environment	Rep. Michael Lawler (R-NY-17); Rep. Betty McCollum (D-MN-4)	2



H.R.6861 SAFE HOME Act	This bill would amend the Internal Revenue Code of 1986 to provide a refundable credit against tax for wildfire mitigation expenditures.	12/19/2023 Introduced by Rep. Kevin Kiley (R-CA-3) 12/19/2023 Referred to the House Committee on Ways and Means		0
H.R.6946 To direct the Secretary of Defense to establish a compensation fund for military firefighters exposed to PFAS	This bill would direct the Secretary of Defense to establish a compensation fund for military firefighters exposed to PFAS.	01/10/2024 Introduced by Rep. Marilyn Strickland (D-WA-10) 01/10/2024 Referred to the House Committee on Armed Services	Rep. Salud Carbajal (D-CA-24); Rep. Ro Khanna (D-CA-17); Rep. Bill Posey (R-FL-8); Rep. Jeff Van Drew (R-NJ-2); Rep. Suzan DelBene (D-WA-1)	5
H.R.7008 Judicial Review Timeline Clarity Act	This bill would amend section 404 of the Federal Water Pollution Control Act relating to judicial review of a permit issued under such section, and for other purposes.	01/17/2023 Introduced by Rep. Eric Burlison (R-MO-7) 01/19/2024 Referred to the Subcommittee on Water Resources and Environment	Rep. David Rouzer (R-NC-7)	1
H.R.7013 Confidence in Clean Water Permits Act	This bill would amend the Federal Water Pollution Control Act with respect to the scope of national pollutant discharge elimination system permit discharge authorizations and the expression of effluent limitations, and for other purposes.	01/17/2024 Introduced by Rep. John Duarte (R-CA-13) 01/19/2024 Referred to the Subcommittee on Water Resources and Environment	Rep. David Rouzer (R-NC-7)	1
H.R.7021 Water Quality Criteria Development and Transparency Act	This bill would amend the Federal Water Pollution Control Act with respect to the procedure for the development of water quality criteria, and for other purposes.	01/17/2024 Introduced by Rep. Burgess Owen (R-UT-4) 01/19/2024 Referred to the Subcommittee on Water Resources and Environment	Rep. David Rouzer (R-NC-7)	1
H.R.7023 Nationwide Permitting Improvement Act	This bill would amend section 404 of the Federal Water Pollution Control Act to codify certain regulatory provisions relating to nationwide permits for dredged or fill material, and for other purposes.	01/17/2024 Introduced by Rep. David Rouzer (R-NC-7) 02/06/2024 Placed on the Union Calendar, Calendar No. 306	Rep. David Rouzer (R-NC-7)	0
H.R.7026 Reducing Permitting Uncertainty Act	This bill would amend the Federal Water Pollution Control Act to clarify when the Administrator of the Environmental Protection Agency has the authority to prohibit the specification of a defined area, or deny or restrict the use of a defined area for specification, as a disposal site under section 404 of such Act, and for other purposes.	01/17/2024 Introduced by Rep. Pete Stauber (R-MN-8) 01/19/2024 Referred to the Subcommittee on Water Resources and Environment	Rep. David Rouzer (R-NC-7)	1
S.3623 Research for Healthy Soils Act	This bill would amend the Food, Agriculture, Conservation, and Trade Act of 1990 to include as a high-priority research and extension area research on microplastics in land-applied biosolids on farmland. <i>This bill is the Senate companion to H.R. 3871.</i>	01/18/2024 Introduced by Sen. Jeff Merkley (D-OR) 01/18/2024 Read twice and referred to the Committee on Agriculture, Nutrition, and Forestry	Sen. Ron Wyden (D-OR); Sen. Cory Booker (D-NJ); Sen. Chris Van Hollen (D-MD); Sen. Sheldon Whitehouse (D-RI)	4
H.R.7065 Priority for Water Supply and Conservation Act	This bill seeks to include water supply and water conservation as a primary mission of the Corps of Engineers in planning, designing, constructing, modifying, operating, and maintaining water resources development projects, and for other purposes.	01/22/2024 Introduced by Rep. Grace Napolitano (D-CA-31) 01/22/2024 Referred to the House Committee on Transportation and Infrastructure	Rep. Doug LaMalfa (R-CA-1); Del. James Moylan (R-GU)	2
H.R.7070 Wildfire Response Improvement Act	This bill would direct the Administrator of the Federal Emergency Management Agency to conduct a review of the criteria for evaluating the cost-effectiveness of certain mitigation projects, and for other purposes.	01/22/2024 Introduced by Rep. Greg Stanton (D-AZ-4) 01/31/2024 Ordered to be Reported (Amended)	Rep. Doug LaMalfa (R-CA-1); Rep. Dina Titus (D-NV-1)	2



H.R.7178 Water Conservation Economic Adjustment Act	This bill would amend the Public Works and Economic Development Act (PWEDA) to clarify the eligible uses of Economic Adjustment Assistance (EAA) to include assistance for limiting industrial consumptive water use in areas impacted by decreased water supplies as a result of drought and extreme heat.	01/31/2024 Introduced by Rep. Dina Titus (D-NV-1) 01/31/2024 Referred to the Committee on Transportation and Infrastructure, and in addition to the Committee on Financial Services	Rep. David Valadao (R-CA-21);	1
H.R.7194 PFAS Accountability Act	This bill would establish a cause of action under the Toxic Substances Control Act for those who have been significantly exposed to PFAS against manufacturers, make it easier for courts to award medical monitoring for victims of significant PFAS exposure, and Incentivize industry to fund PFAS safety research. <i>This bill is the House companion to S.3725.</i>	02/01/2024 Introduced by Rep. Madeline Dean (D-PA-4) 02/01/2024 Referred to the Committee on Energy and Commerce, and in addition to the Committee on the Judiciary	Rep. Daniel Kildee (D-MI-5); Rep. Jerry Nadler (D-NY-10); Rep. Elissa Slotkin (D-MI-7)	3
S.3725 PFAS Accountability Act	This bill would establish a cause of action under the Toxic Substances Control Act for those who have been significantly exposed to PFAS against manufacturers, make it easier for courts to award medical monitoring for victims of significant PFAS exposure, and Incentivize industry to fund PFAS safety research. <i>This bill is the Senate companion to H.R. 7194.</i>	02/01/2024 Introduced by Sen. Kirsten Gillibrand (D-NY) 02/01/2024 Read twice and referred to the Committee on Environment and Public Works		0
H.R.7241 Rural Water System Disaster Preparedness and Assistance Act	This bill seeks to amend the Consolidated Farm and Rural Development Act to establish an emergency preparedness and response technical assistance program to assist entities that operate rural water or wastewater systems in preparing for and responding to natural or man-made disasters.	02/05/2024 Introduced by Rep. Pete Stauber (R-MN-8) 02/05/2024 Referred to the House Committee on Agriculture	Rep. Brad Finstad (R-MN-1); Rep. Michelle Fischbach (R-MN-7)	2
S.3753 Improving State and Local Government Access to Performance Contracting Act	The bill would amend the Energy Policy and Conservation Act with the goal of offering financial aid to States for enhancing energy savings performance contracting programs, including through water conservation measures. These measures involve efficient water use, conservation, recycling, wastewater or stormwater treatment, operational or maintenance improvements, retrofit activities, excluding those related to Federal hydroelectric facilities. The bill suggests annual appropriations of \$35 million for fiscal years 2024 through 2028, with allocated amounts for technical assistance and the project facilitator certification program.	02/07/2024 Introduced by Sen. Peter Welch (D-VT) 02/07/2024 Read twice and referred to the Committee on Energy and Natural Resources	Sen. Chris Coons (D-DE); Sen. Jeanne Shaheen (D-NH); Sen. Chris Van Hollen (D-MD); Sen. Tina Smith (D-MN)	4
H.R.7362 Satellites Preventing Agricultural Crises and Emergencies (SPACE) Act	This bill would create cooperative agreements to share satellite-based data, research, and reports between USDA and land-grant colleges and universities with wildfire research programs.	02/15/2024 Introduced by Rep. Suzanne Bonamici (D-OR-1) 02/15/2024 Referred to the House Committee on Agriculture	Rep. John Duarte (R-CA-13); Rep. David Valadao (R-CA-22); Rep. Dan Newhouse (R-WA-4); Rep. Jill Tokuda (D-HI-2); Rep. John Curtis (R-UT-3)	5
S.3830 Low-Income Household Water Assistance Program Establishment Act	This bill would make permanent the LIHWAP program that provides grants to States, Territories, and Tribes to help low-income households pay for overdue charges and other fees related to drinking water or wastewater services. It also includes provisions for offering technical support to rural, Tribal, and underserved public water systems or treatment works. Additionally, the act suggests aligning income eligibility criteria with various existing assistance programs such as LIHEAP, TANF, SNAP, Supplemental Security Income, and means-tested veterans' programs. Finally, the authority of the program would eventually be transferred from HHS to the EPA after the completion of the Rural and Low-Income Water Assistance Pilot Program, as authorized in the Bipartisan Infrastructure Law.	02/28/2024 Introduced by Sen. Alex Padilla (D-CA) 02/28/2024 Referred to Senate committee		0



<p>H.R.7525 Special District Grant Accessibility Act</p>	<p>This bill would establish a formal definition of "special district" in federal law, as well as require the Office of Management and Budget (OMB) to issue guidance to federal agencies requiring special districts to be recognized as local governments for the purpose of federal financial assistance determinations.</p>	<p>03/06/2024 Introduced by Rep. Pat Fallon (R-TX-4) 03/07/2024 Ordered to be Reported out of House Oversight and Accountability Committee by the Yeas and Nays: 38 - 2</p>	<p>Rep. Katie Porter (D-CA-27); Rep. Brittany Pettersen (D-CO-7)</p>	<p>2</p>
<p>H.R.7634 To require the Administrator of the Environmental Protection Agency to promulgate certain limitations with respect to pre-production plastic pellet pollution, and for other purposes.</p>	<p>This bill would require the Environmental Protection Agency (EPA) to issue a rule that prohibits the discharge of plastic pellets and other types of plastic into our nation's waters. Currently, EPA does not have an established federal rule to address plastic pellets specifically, and most states do not have meaningful regulations to combat plastic pollution.</p>	<p>03/12/2024 Introduced by Rep. Mike Levin (D-CA-49) 03/12/2024 Referred to the House Committee on Transportation and Infrastructure</p>	<p>Rep. Nanette Barragan (D-CA-44); Rep. Salud Carbajal (D-CA-24); Rep. Jared Huffman (D-CA-2); Rep. Sara Jacobs (D-CA-53); Rep. Sydney Kamlager (D-CA-37); Rep. Barbara Lee (D-CA-13); Rep. Doris Matsui (D-CA-6); Rep. Mike Thompson (D-CA-4); Rep. Jerry Nadler (D-NY-10); Rep. Wiley Nickel (D-NC-12); Rep. Eleanor Norton (D-DC-1)</p>	<p>42</p>



To:	Las Virgenes - Triunfo JPA
From:	Syrus Devers
Date:	April 1st, 2024
Re:	State Legislative Report

Administration

This report usually begins with a report on legislative matters, but the more important events are on the administrative side for the moment.

The all-important Bulletin 120 update came out on March 8th, which reports on the snow pack and forecasts the state’s water anticipated water supply for the year. The snowpack is at 98% of the historical average with more storms on the way. As a result, the Department of Water Resources (DWR) increased the State Water Project (SWP) allocation a second time this year to 30% of requested supplies. The next survey is on April 1st.

Upon releasing the SWP allocation, DWR also commented on their efforts to move excess flows into storage, and how those efforts are impeded by restrictions on moving water through the Delta. They specifically called out restrictions due to impacts to endangered species in the South Delta. DWR then commented at length on their efforts to build the Delta Conveyance and Sites Reservoir to alleviate the impacts to the Delta. The entire statement can be found here:

<https://water.ca.gov/News/News-Releases/2024/Mar-24/Forecasted-State-Water-Project-Water-Supply-Allocation-Doubles-Following-February-Storms#:~:text=SACRAMENTO%2C%20Calif.,allocation%20update%20announced%20last%20month>.

Criticizing our government is as American as baseball, but the Newsom administration really does deserve credit for staying focused on maximizing water storage potential and updating the State Water Project.

Bay-Delta Plan Update: SWRCB was roundly criticized last year for failing to update the Bay-Delta Plan since 2006. Environmental advocacy groups, and a few legislators, attempted to use that lapse as a collateral attack on the Delta Conveyance. One piece of legislation tried to tie progress on the tunnels to a plan update. (It failed.)

In 2018, SWRCB certified an environmental document analyzing the environmental impacts of the Bay-Delta Plan for the southern part of the Delta, which relied on a 2012 technical report which opponents claimed did not factor in future anticipated beneficial uses as required by CEQA and the Water Code. The report called for minimum “unimpaired flows” in the San Joaquin River during critical dry months. It has been tied up in court since then, but SWRCB recently prevailed at the trial court level.

Syrus Devers Advocacy

That is a factual summary of what happened, but teasing out the winners and losers is tricky, unless you are an agricultural water user in the San Joaquin Valley, in which case it's all bad. The impact to interests dependent on the SWP, however, are more nuanced, and too complex to analyze in this report. Perhaps more could be said during the oral presentation.

Outdoor Water Use Efficiency Regulations: The big news is a decent victory for public water agencies in lobbying the SWRCB for relief in the proposed regulations implementing the Conservation As A Way of Life legislation. Last year on October 4th, water agency advocates were in a conference room from 8:30am until 11pm giving public testimony on the draconian results of the proposed standards. Then in December, the Legislative Analyst's Office put another nail in the SWRCB coffin with a scathing report on the high cost and minimal benefits of the standards. It worked as well as could be expected.

Changing the core standards was never an option, but water agencies were given more time and flexibility to implement the proposed regulations. Now water interests, led by an ACWA coalition, have flipped to defending the proposed regulations from environmental groups claiming the SWRCB was backsliding on protecting the environment.

Legislature

The policy committee hearing process has begun...just in time to break for the Spring Recess. The only legislation of note that has been heard is the ACWA sponsored legislation on Proposition 218 remedies, AB 2257 (Wilson), which requires litigants to first exhaust administrative remedies before suing in court over a rate increase. The bill was double referred to the Judiciary and Local Government Committees. It passed the Judiciary Committee on the 19th and is now headed to Local Government.

Once the Legislature returns from recess on the 1st, it will start one of the busiest times of the year. All fiscal bills, which are the vast majority of all bills, must clear their first policy committees by April 26th.

Priority: **A. High**

[AB 460](#) ([Bauer-Kahan, D](#)) **State Water Resources Control Board: water rights and usage: interim relief: procedures.**

Location: 07/14/2023 - Senate 2 YEAR

Summary: Current law authorizes the State Water Resources Control Board to investigate all streams, stream systems, lakes, or other bodies of water, take testimony relating to the rights to water or the use of water, and ascertain whether water filed upon or attempted to be appropriated is appropriated under the laws of the state. Current law requires the board to take appropriate actions to prevent waste or the unreasonable use of water. This bill would authorize the board, in conducting specified investigations or proceedings to inspect the property or facilities of a person or entity, as specified. The bill would authorize the board, if consent is denied for an inspection, to obtain an inspection warrant, as specified, or in the event of an emergency affecting public health and safety, to conduct an inspection without consent or a warrant. (Based on 05/18/2023 text)

Position	Priority
oppose	A. High

Notes - Oppose on coalition if asked

[AB 1337](#) ([Wicks, D](#)) **State Water Resources Control Board: water diversion curtailment.**

Location: 07/14/2023 - Senate 2 YEAR

Summary: Under existing law, the diversion or use of water other than as authorized by specified provisions of law is a trespass, subject to specified civil liability. This bill would expand the instances when the diversion or use of water is considered a trespass. This bill contains other related provisions and other existing laws. (Based on 05/18/2023 text)

Position	Priority
oppose	A. High

Notes - Oppose on coalition if asked

[AB 1567](#) ([Garcia, D](#)) **Safe Drinking Water, Wildfire Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, Clean Energy, and Workforce Development Bond Act of 2024.**

Location: 06/14/2023 - Senate Natural Resources and Water

Summary: Would enact the Safe Drinking Water, Wildfire Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, Clean Energy, and Workforce Development Bond Act of 2024, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$15,995,000,000 pursuant to the State General Obligation Bond Law to finance projects for safe drinking water, wildfire prevention, drought preparation, flood protection, extreme heat mitigation, clean energy, and workforce development programs. (Based on 05/26/2023 text)

Position	Priority
support	A. High

Notes - Support on recycling

[AB 1573](#) ([Friedman, D](#)) **Water conservation: landscape design: model ordinance.**

Location: 09/14/2023 - Senate 2 YEAR

Summary: The Water Conservation in Landscaping Act provides for a Model Water Efficient Landscape Ordinance that is adopted and updated at least every 3 years by the Department of Water Resources, unless the department makes a specified finding. Current law requires a local agency to adopt the model ordinance or to adopt a water efficient landscape ordinance that is at least as effective in conserving water as the updated model ordinance, except as specified. Current law specifies the provisions of the updated model ordinance, as provided. Current law includes a related statement of legislative findings and declarations. This bill would require the updated model ordinance to include provisions that require that plants included in a landscape design plan be selected based on their adaptability to climatic, geological, and topographical conditions of the project site, as specified. The bill would also exempt landscaping that is part of a culturally specific project, as defined, ecological restoration projects that do not require a permanent irrigation system, mined-land reclamation projects that do not require a permanent irrigation system, and existing plant collections, as part of botanical gardens and arboretums open to the public, from the model ordinance. The bill would require the updated model ordinance to include provisions that, among other changes, prohibit the use of traditional overhead sprinklers on all new and rehabilitated landscapes and require that new and rehabilitated landscapes use only water efficient irrigation devices. (Based on 09/01/2023 text)

Position	Priority
watch	A. High

[AB 1827](#) **(Papan, D) Local government: fees and charges: water: higher-consumptive water parcels.**

Location: 01/29/2024 - Assembly Local Government

Summary: The California Constitution specifies various requirements with respect to the levying of assessments and property-related fees and charges by a local agency, including requiring that the local agency provide public notice and a majority protest procedure in the case of assessments and submit property-related fees and charges for approval by property owners subject to the fee or charge or the electorate residing in the affected area following a public hearing. This bill would provide that the fees or charges for property-related water service imposed or increased, as specified, may include the incrementally higher costs of water service due to specified factors, including the higher water usage demand of parcels. The bill would provide that the costs associated with higher water usage demands, the maximum potential water use, or a projected peak water usage demand may be allocated using any method that reasonably assesses the water service provider's cost of serving those parcels that are increasing potential water usage demand, maximum potential water use, or project peak water use demand.

(Based on 01/12/2024 text)

Position	Priority
support	A. High

[AB 2257](#) **(Wilson, D) Local government: property-related water and sewer fees and assessments: remedies.**

Calendar: 03/21/24 #8 A-SECOND READING FILE -- ASSEMBLY BILLS

Location: 03/19/2024 - Assembly Local Government

Summary: The California Constitution specifies various requirements with respect to the levying of assessments and property-related fees and charges by a local agency. The California Constitution includes a public notice and a majority protest procedure in the case of assessments and procedures for submitting property-related fees and charges for approval by property owners subject to the fee or charge or to the electorate residing in the affected area following a public hearing. Current law, known as the Proposition 218 Omnibus Implementation Act, prescribes specific procedures and parameters for local jurisdictions to comply with these requirements. This bill would prohibit, if a local agency complies with specified procedures, a person or entity from bringing a judicial action or proceeding alleging noncompliance with the constitutional provisions for any new, increased, or extended fee or assessment, as defined, unless that person or entity has timely submitted to the local agency a written objection to that fee or assessment that specifies the grounds for alleging noncompliance, as specified.

(Based on 02/08/2024 text)

Position	Priority
support	A. High

Notes - Coalition

[AB 2334](#) **(Grayson, D) Surplus land.**

Location: 02/12/2024 - Assembly PRINT

Summary: Current law prescribes requirements for the disposal of surplus land by a local agency, as defined, and requires, except as provided, a local agency disposing of surplus land to comply with certain notice requirements before disposing of the land or participating in negotiations to dispose of the land with a prospective transferee, particularly that the local agency send a written notice of availability for open-space purposes to specified entities. This bill would make a nonsubstantive change to the provisions regarding written notice of availability for open-space purposes. (Based on 02/12/2024 text)

Position	Priority
watch	A. High

[AB 2409](#) **(Papan, D) Office of Planning and Research: permitting accountability transparency dashboard.**

Location: 02/12/2024 - Assembly PRINT

Summary: Would require the Office of Planning and Research, on or before January 1, 2026, to create and maintain, as specified, a permitting accountability transparency internet website (dashboard). The bill would require the dashboard to include a display for each permit to be issued by specified state agencies for all covered projects. The bill would define various terms for these purposes. The bill would also require the dashboard to include, but not be limited to, information for each permit to be issued by a state agency that is required for the completion of the project, including, among other requirements, the permit application submission date. The bill would require each state agency with a responsibility for issuing a permit for a

covered project to provide information in the appropriate time and manner as determined by the office. (Based on 02/12/2024 text)

Position	Priority
support	A. High

Notes - CMUA sponsored bill - coalition

AB 2599 ([Committee on Environmental Safety and Toxic Materials.](#)) **Water: public beaches: discontinuation of residential water service.**

Location: 03/19/2024 - Assembly Appropriations

Summary: Current law requires the State Department of Public Health to establish, maintain, and amend as necessary minimum standards for the sanitation of public beaches, as provided. Current law requires the health officer, as defined, having jurisdiction over an area in which a public beach is created to do certain things, including, in the event of a known untreated sewage release, immediately test the waters adjacent to the public beach and, in the event an untreated sewage release that is known to have reached recreational waters adjacent to a public beach, immediately close those waters until it has been determined by the local health officer that the waters are in compliance with the standards. This bill would authorize the health officer to meet the requirements described above by using test results from other parties that have conducted microbiological contamination testing of the waters under the health officer's jurisdiction, as provided. (Based on 03/06/2024 text)

Position	Priority
watch	A. High

AB 2894 ([Gallagher, R](#)) **Urban water use targets: indoor residential water use.**

Location: 02/15/2024 - Assembly PRINT

Summary: Existing law requires the state to achieve a 20% reduction in urban per capita water use in California. Existing law requires each urban retail water supplier to develop urban water use targets and an interim urban water use target, as specified, and states the intent of the Legislature that the urban water use targets cumulatively result in a 20% reduction from the baseline daily per capita water use. Existing law requires the Department of Water Resources to develop technical methodologies and criteria, as provided, for purposes of these provisions. This bill would make a nonsubstantive change to the provision requiring the department to develop technical methodologies and criteria. (Based on 02/15/2024 text)

Position	Priority
watch	A. High

AB 3073 ([Haney, D](#)) **Wastewater testing: illicit substances.**

Calendar: 04/09/24 A-ENVIRONMENTAL SAFETY AND TOXIC MATERIALS 1:30 p.m. - State Capitol, Room 444 GARCIA, EDUARDO, Chair

Location: 03/11/2024 - Assembly Environmental Safety and Toxic Materials

Summary: Would require the State Water Resources Control Board to create a program to test for illicit substances, including, but not limited to, cocaine, fentanyl, methamphetamine, and morphine, in wastewater, as provided. The bill would require local sanitation agencies to collect wastewater sample for testing by the state board. By imposing additional duties on local agencies, this bill would impose a state-mandated local program. The bill would require the state board to transmit the results of its wastewater testing to the State Department of Public Health for the department to post on its internet website. (Based on 02/16/2024 text)

Position	Priority
watch	A. High

Notes - Not favor

SB 366 ([Caballero, D](#)) **The California Water Plan: long-term supply targets.**

Location: 07/14/2023 - Assembly 2 YEAR

Summary: Current law requires the Department of Water Resources to update every 5 years the plan for the orderly and coordinated control, protection, conservation, development, and use of the water resources of the state, which is known as "The California Water Plan." Current law requires the department to include a discussion of various strategies in the plan update, including, but not limited to, strategies relating to the development of new water storage facilities, water conservation, water recycling, desalination, conjunctive use, water transfers, and alternative pricing policies that may be pursued in order to meet the future needs of the state. Current law requires the department to establish an advisory committee to assist the department in updating the plan. This bill would revise and recast certain provisions regarding The California Water Plan

to, among other things, require the department to instead establish a stakeholder advisory committee and to expand the membership of the committee to include tribes, labor, and environmental justice interests. The bill would require the department to coordinate with the California Water Commission, the State Water Resources Control Board, other state and federal agencies as appropriate, and the stakeholder advisory committee to develop a comprehensive plan for addressing the state's water needs and meeting specified long-term water supply targets established by the bill for purposes of The California Water Plan. The bill would require the plan to provide recommendations and strategies to ensure enough water supply for all beneficial uses. (Based on 06/29/2023 text)

Position	Priority
support	A. High

Notes - CMUA sponsored bill from 2023

[SB 867](#)

(Allen, D) Drought, Flood, and Water Resilience, Wildfire and Forest Resilience, Coastal Resilience, Extreme Heat Mitigation, Biodiversity and Nature-Based Climate Solutions, Climate Smart Agriculture, Park Creation and Outdoor Access, and Clean Energy Bond Act of 2024.

Location: 06/20/2023 - Assembly Natural Resources

Summary: Would enact the Drought, Flood, and Water Resilience, Wildfire and Forest Resilience, Coastal Resilience, Extreme Heat Mitigation, Biodiversity and Nature-Based Climate Solutions, Climate Smart Agriculture, Park Creation and Outdoor Access, and Clean Energy Bond Act of 2024, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$15,500,000,000 pursuant to the State General Obligation Bond Law to finance projects for drought, flood, and water resilience, wildfire and forest resilience, coastal resilience, extreme heat mitigation, biodiversity and nature-based climate solutions, climate smart agriculture, park creation and outdoor access, and clean energy programs. (Based on 06/22/2023 text)

Position	Priority
support	A. High

[SB 937](#)

(Wiener, D) Development projects: permits and other entitlements: fees and charges.

Calendar: 04/03/24 S-LOCAL GOVERNMENT 9:30 a.m. - 1021 O Street, Room 2200 DURAZO, MARIA ELENA, Chair

Location: 02/21/2024 - Senate Local Government

Summary: The Planning and Zoning Law requires each county and each city to adopt a comprehensive, long-term general plan for its physical development, and the development of specified land outside its boundaries, that includes, among other mandatory elements, a housing element. The Permit Streamlining Act, among other things, requires a public agency that is the lead agency for a development project to approve or disapprove that project within specified time periods. Current law extended by 18 months the period for the expiration, effectuation, or utilization of a housing entitlement, as defined, that was issued before, and was in effect on, March 4, 2020, and that would expire before December 31, 2021, except as specified. Current law provides that if the state or a local agency extended the otherwise applicable time for the expiration, effectuation, or utilization of a housing entitlement for not less than 18 months, as specified, that housing entitlement would not be extended an additional 18 months pursuant to these provisions. This bill would extend by 18 months the period for the expiration, effectuation, or utilization of a housing entitlement, as defined, that was issued before January 1, 2024, and that will expire before December 31, 2025, except as specified. The bill would toll this 18-month extension during any time that the housing entitlement is the subject of a legal challenge. (Based on 01/17/2024 text)

Position	Priority
oppose	A. High

Notes - ACWA will oppose

[SB 1034](#)

(Seyarto, R) California Public Records Act: state of emergency.

Calendar: 04/02/24 S-JUDICIARY 1:30 p.m. - 1021 O Street, Room 2100 UMBERG, THOMAS, Chair

Location: 02/14/2024 - Senate Judiciary

Summary: The California Public Records Act requires state and local agencies to make their records available for public inspection, except as specified. Current law requires each agency, within 10 days of a request for a copy of records, to determine whether the request seeks copies of disclosable public records in possession of the agency and to promptly notify the person of the determination and the reasons therefor. Current law authorizes that time limit to be extended by no more than 14 days under unusual circumstances, and defines "unusual circumstances" to include certain circumstances. This bill would revise the unusual circumstances under which the time limit may be extended to include the need to search for, collect, appropriately examine, and copy records during a state of emergency proclaimed by the Governor when the state of

emergency has affected the agency's ability to timely respond to requests due to decreased staffing or closure of the agency's facilities. (Based on 02/06/2024 text)

Position	Priority
watch	A. High

SB 1072 (Padilla, D) Local government: Proposition 218: remedies.

Location: 02/21/2024 - Senate Local Government

Summary: The California Constitution sets forth various requirements for the imposition of local taxes. The California Constitution excludes from classification as a tax assessments and property-related fees imposed in accordance with provisions of the California Constitution that establish requirements for those assessments and property-related fees. Under these requirements, an assessment is prohibited from being imposed on any parcel if it exceeds the reasonable cost of the proportional special benefit conferred on that parcel, and a fee or charge imposed on any parcel or person as an incident of property ownership is prohibited from exceeding the proportional cost of the service attributable to the parcel. This bill would require, if a property-related fee or charge creates revenues in excess of the local government's reasonable cost of providing the specific benefit or specific government service, that the excess revenues be used only to reduce the subsequently adopted and following property-related fee or charge. The bill would declare that this provision is declaratory of existing law. (Based on 02/12/2024 text)

Position	Priority
support	A. High

Notes - Coalition

SB 1164 (Newman, D) Property taxation: new construction exclusion: accessory dwelling units.

Calendar: 04/10/24 S-REVENUE AND TAXATION 9:30 a.m. - 1021 O Street, Room 1200 GLAZER, STEVE, Chair

Location: 02/21/2024 - Senate Revenue and Taxation

Summary: The California Constitution generally limits ad valorem taxes on real property to 1% of the full cash value of that property. For purposes of this limitation, "full cash value" is defined as the assessor's valuation of real property as shown on the 1975-76 tax bill under "full cash value" or, thereafter, the appraised value of that real property when purchased, newly constructed, or a change in ownership has occurred. This bill would exclude from classification as "newly constructed" and "new construction" the construction of an accessory dwelling unit, as defined, until 15 years have passed since construction on the accessory dwelling unit was completed or there is a subsequent change in ownership of the accessory dwelling unit. The bill would require the property owner to, prior to or within 30 days of completion of the project, notify the assessor that the property owner intends to claim the exclusion for an accessory dwelling unit and submit an affidavit stating that the owner shall make a good faith effort to ensure the unit will be used as residential housing for the duration the owner receives the exclusion. The bill would require the State Board of Equalization to prescribe the manner and form for claiming the exclusion and would require all additional documents necessary to support the exclusion to be filed by the property owner with the assessor not later than 6 months after the completion of the project. Because this bill would require an affidavit by a property owner and a higher level of service from county assessors, it would impose a state-mandated local program. (Based on 02/14/2024 text)

Position	Priority
watch	A. High

SB 1169 (Stern, D) Los Angeles County Flood Control District: finances.

Location: 02/21/2024 - Senate Local Government

Summary: Existing law, the Los Angeles County Flood Control Act, establishes the Los Angeles County Flood Control District and authorizes the district to control and conserve the flood, storm, and other wastewaters of the district. Existing law authorizes the district to borrow money from certain entities for any flood control work authorized under the act and to repay the same, in annual installments, over a period not to exceed 20 years with an interest at a rate not to exceed 4.25% per annum. Existing law requires the district to annually levy a tax upon the taxable real property of the district clearly sufficient to pay the interest and installments of principal for those loans. Existing law limits the total amount the district may borrow not to exceed in the aggregate the sum of \$4,500,000. Existing law also limits the total amount of bonds or other evidence of indebtedness in the aggregate that the district may issue and sell to not exceed \$4,500,000. This bill would instead authorize the district to borrow money or obtain loan guarantees from those entities and to repay the same over a period not to exceed 35 years with interest at a rate not to exceed 5.5% annually. The bill would instead authorize the district to levy a tax, in compliance with the applicable provisions of Article XIII C of the California Constitution, clearly sufficient to pay the interest and installments of principal for those loans. The bill would also delete the limits on the amount the district may borrow and the total amount of

bonds or other evidence of indebtedness that the district may issue and sell. This bill contains other related provisions. (Based on 03/18/2024 text)

Position	Priority
support	A. High

SB 1210 (Skinner, D) New housing construction: electrical, gas, sewer, and water service connections: charges.

Calendar: 04/02/24 S-ENERGY, UTILITIES AND COMMUNICATIONS 9 a.m. - 1021 O Street, Room 1200 BRADFORD, STEVEN, Chair

Location: 02/29/2024 - Senate Energy, Utilities and Communications

Summary: The California Constitution establishes the Public Utilities Commission, with jurisdiction over all public utilities. Current law defines the term “public utility” for certain purposes to include, among other corporations, every gas corporation, electrical corporation, water corporation, and sewer system corporation, where the service is performed for, or the commodity is delivered to, the public or any portion thereof. This bill would, for new housing construction, prohibit a connection, capacity, or other point of connection charge from a public utility, as defined, or a special district, including a municipal utility district, for electrical, gas, sewer, or water service from exceeding 1% of the reported building permit value of that housing unit. The bill would require a public utility or special district to issue an above-described charge over a period of at least 10 years commencing on the date when the housing unit is first occupied, as specified. The bill would require a public utility or special district to publicly report on its internet website the amount of any charge issued each year pursuant the above-described provision by the housing unit’s address. (Based on 03/18/2024 text)

Position	Priority
watch	A. High

SB 1330 (Archuleta, D) Urban retail water supplier: water use.

Location: 02/29/2024 - Senate Natural Resources and Water

Summary: Current law requires the Department of Water Resources, in coordination with the State Water Resources Control Board, to conduct necessary studies and investigations, and recommend for adoption by the board appropriate variances for unique uses that can have a material effect on an urban retail water supplier’s urban water use objective. Current law requires the department, in recommending variances, to also recommend a threshold of significance for each recommended variance. Current law requires an urban retail water supplier to request and receive approval by the board for inclusion of a variance in calculating their water use objective. Current law requires the board to post specified information on its internet website relating to variances, including a list of all urban retail water suppliers with approved variances. This bill would require the board to adopt variances recommended by the department for unique uses that can have a material effect on an urban retail water supplier’s urban water use objective. The bill would provide that variances adopted by the board shall not be subject to a threshold of significance. The bill would require an urban retail water supplier to self-certify the amount of water included in its urban water use objective that is attributable to a variance. (Based on 03/19/2024 text)

Position	Priority
watch	A. High

Notes - Request fact sheet. Requested on 3/14.

Priority: B. Watch

AB 805 (Arambula, D) Sewer service: disadvantaged communities.

Location: 01/30/2024 - Senate Rules

Summary: Under current law, the State Water Resources Control Board and the 9 California regional water quality control boards regulate water quality in accordance with the Porter-Cologne Water Quality Control Act and the federal Clean Water Act. Current law authorizes a regional board to order the provision of sewer service by a receiving sewer system, as defined, to a disadvantaged community served by an inadequate onsite sewage treatment system, as defined. This bill would authorize the state board to require a sewer service provider to contract with an administrator designated or approved by the state board for administrative, technical, operational, legal, or managerial services to assist a designated sewer system with the provision of adequate sewer service, as defined. The bill would also authorize the state board to order a designated sewer system to accept those services, including full management and control of all aspects of the designated sewer system, from an administrator. The bill would define “designated sewer system” for these purposes as a sewer system that serves a disadvantaged community and that the state board finds to be either an inadequate sewage treatment system or a sewer system that has demonstrated difficulty in maintaining technical, managerial, and financial capacity to prevent fraud and

mismanagement, or a sewer system that voluntarily accepts financial assistance for the provision of adequate sewer service. (Based on 01/22/2024 text)

Position	Priority
watch	B. Watch

AB 1951 (Fong, Vince, R) California Environmental Quality Act: exemption: roadside wildfire prevention projects.

Location: 02/12/2024 - Assembly Natural Resources

Summary: The California Environmental Quality Act (CEQA) requires a lead agency to prepare a mitigated negative declaration for a project that may have a significant effect on the environment if revisions in the project would avoid or mitigate that effect and there is no substantial evidence that the project, as revised, would have a significant effect on the environment. This bill would exempt from CEQA a project for wildfire prevention within 50 feet of either side of a roadway. Because a lead agency would be required to determine whether a project qualifies for this exemption, the bill would impose a state-mandated local program. (Based on 01/29/2024 text)

Position	Priority
watch	B. Watch

AB 1969 (Hart, D) State Air Resources Board: Clean Off-Road Equipment Voucher Incentive Project: unmanned aerial systems.

Location: 03/19/2024 - Assembly Appropriations

Summary: Current law creates the Air Quality Improvement Program, administered by the State Air Resources Board, for the purpose of funding, upon appropriation by the Legislature, air quality improvement projects relating to zero-emission fuel and vehicle technologies. Current law limits the program to competitive grants, revolving loans, loan guarantees, loans, and other appropriate funding measures that further the purposes of the program, including for projects that provide mitigation for off-road gasoline exhaust and evaporative emissions. As part of the program, the state board administers the Clean Off-Road Equipment Voucher Incentive Project (CORE) to provide vouchers that offset the cost of zero-emission off-road equipment, including agricultural equipment. This bill would require the state board to include unmanned aerial systems, commonly known as drones, in the meaning of agricultural equipment for purposes of CORE, which the bill would define as the program established by the state board as part of the Air Quality Improvement Program, as provided. (Based on 01/30/2024 text)

Position	Priority
watch	B. Watch

AB 2947 (Lackey, R) Water: turfgrass conversion.

Location: 03/11/2024 - Assembly Water, Parks and Wildlife

Summary: The Water Conservation in Landscaping Act provides for a model water efficient landscape ordinance that is adopted and updated at least every 3 years by the Department of Water Resources, unless the department makes a specified finding. This bill would prohibit the department, when it allocates funding for turf replacement programs, from excluding urban water suppliers' turfgrass conversion rebate programs if the rebate program requires the recipient of a rebate to achieve a net water savings and to use the most efficient turfgrass irrigation equipment, as provided. The bill would require an urban water supplier that offers a turfgrass conversion rebate program to report annually to the department on the number of turfgrass conversions that are funded through the program and the estimated water savings from the program. (Based on 02/16/2024 text)

Position	Priority
watch	B. Watch

Notes - Request fact sheet

AB 3121 (Hart, D) Urban retail water suppliers: written notice: conservation order: dates.

Location: 03/11/2024 - Assembly Water, Parks and Wildlife

Summary: Current law authorizes the State Water Resources Control Board, on and after January 1, 2025, to issue a written notice to an urban retail water supplier that does not meet its urban water use objective. Current law authorizes the board, on and after January 1, 2026, to issue a conservation order to an urban retail water supplier that does not meet its urban water use objective. This bill would instead provide that the date the board is authorized to issue a written notice to January 1, 2026 and a conservation order to January 1, 2027. (Based on 02/16/2024 text)

Position	Priority
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watch B. Watch

SB 903 (Skinner, D) Environmental health: product safety: perfluoroalkyl and polyfluoroalkyl substances.

Calendar: 04/03/24 S-ENVIRONMENTAL QUALITY 9 a.m. - 1021 O Street, Room 1200 ALLEN, BENJAMIN, Chair

Location: 02/29/2024 - Senate Environmental Quality

Summary: Would, beginning January 1, 2030, prohibit a person from distributing, selling, or offering for sale a product that contains intentionally added PFAS, as defined, unless the Department of Toxic Substances Control has made a determination that the use of PFAS in the product is a currently unavoidable use, the prohibition is preempted by federal law, or the product is used. The bill would specify the criteria and procedures for determining whether the use of perfluoroalkyl and polyfluoroalkyl substances (PFAS) in a product is a currently unavoidable use, for renewing that determination, and for revoking that determination. The bill would require the department to maintain on its internet website a list of each determination of currently unavoidable use, when each determination expires, and the products and uses that are exempt from the prohibition. The bill would impose a civil penalty for a violation of the prohibition, as specified. The bill would establish the PFAS Penalty Account and require all civil penalties received to be deposited into that account and, upon appropriation by the Legislature, to be used for the administration and enforcement of these provisions, as specified. (Based on 03/18/2024 text)

Position	Priority
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watch	B. Watch
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SB 1110 (Ashby, D) Urban retail water suppliers: informational order: conservation order.

Location: 02/21/2024 - Senate Natural Resources and Water

Summary: Current law authorizes the State Water Resources Control Board, on and after January 1, 2024, to issue informational orders pertaining to water production, water use, and water conservation to an urban retail water supplier that does not meet its urban water use objective. Current law requires the board to consider certain information in determining whether to issue an informational order. This bill would require the board to additionally consider lower cost actions the water supplier has implemented or will implement in order to help the water supplier achieve overall water supply resiliency in determining whether to issue an informational order. (Based on 02/13/2024 text)

Position	Priority
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watch	B. Watch
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Notes - Request fact sheet. Requested on 3/14

SB 1121 (Grove, R) Recycled water: onsite treated nonpotable water systems: local jurisdiction permitting.

Location: 02/21/2024 - Senate Environmental Quality

Summary: Current law requires the State Water Resources Control Board, in consultation with the California Building Standards Commission and the Department of Housing and Community Development, to adopt regulations for risk-based water quality standards for the onsite treatment and reuse of nonpotable water, and requires a local jurisdiction that elects to establish a program for onsite treated nonpotable water systems to establish design criteria, permitting, cross-connection control, and enforcement procedures, as provided. This bill would require those local jurisdictions to ensure their permitting procedures require the approval of a permit for an onsite treated nonpotable water system within 60 days from the date the permit application is submitted if the application demonstrates that the project meets or exceeds the state board's water quality standards for the onsite treatment and reuse of nonpotable water for nonpotable uses in multifamily residential, commercial, and mixed-use buildings. (Based on 02/13/2024 text)

Position	Priority
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watch	B. Watch
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SB 1255 (Durazo, D) Public water systems: needs analysis.

Calendar: 04/24/24 S-ENVIRONMENTAL QUALITY 9 a.m. - State Capitol, Room 113 ALLEN, BENJAMIN, Chair

Location: 02/29/2024 - Senate Environmental Quality

Summary: The California Safe Drinking Water Act provides for the operation of public water systems and imposes on the State Water Resources Control Board various responsibilities and duties relating to the regulation of drinking water to protect public health. Current law establishes the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and long terms. Current law requires the state board to annually adopt a fund expenditure plan, as provided, and requires expenditures from the fund to be consistent with the fund expenditure plan. Current law requires the state board to base the fund expenditure plan on data and analysis drawn from a specified drinking water needs assessment. This bill would require the state board to develop a needs analysis

of the state's public water systems on or before May 1, 2025, and on or before May 1 of each year thereafter. (Based on 02/15/2024 text)

Position	Priority
watch	B. Watch

Priority: **spot bill**

[AB 2000](#) ([Mathis, R](#)) **State Water Project: permit and license conditions.**

Location: 01/30/2024 - Assembly PRINT

Summary: Under current law, the State Water Resources Control Board administers a water rights program pursuant to which the State Water Resources Control Board grants permits and licenses to appropriate water. Current law requires the director of the department, in collaboration with the Secretary of the Interior, to prepare a plan, on or before January 1, 2006, to meet the existing permit and license conditions for which the department has an obligation, and to submit copies of the plan to the state board and the California Bay-Delta Authority prior to increasing the existing permitted diversion rate at the State Water Project's Harvey O. Banks Pumping Plant. This bill would make a nonsubstantive change to the latter provision. (Based on 01/30/2024 text)

Position	Priority
watch	spot bill

[AB 2171](#) ([Bennett, D](#)) **Water: Department of Water Resources.**

Location: 02/07/2024 - Assembly PRINT

Summary: Current law establishes in the Natural Resources Agency the Department of Water Resources, which is under the control of the Director of Water Resources. Current law provides for the appointment of the director by the Governor, subject to confirmation by the Senate. This bill would make nonsubstantive changes to that provision. (Based on 02/07/2024 text)

Position	Priority
watch	spot bill

[AB 2661](#) ([Soria, D](#)) **Water: storage capacity.**

Location: 02/14/2024 - Assembly PRINT

Summary: Current law requires the Department of Water Resources to operate the State Water Resources Development System, known as the State Water Project, to supply water to persons and entities in the state. This bill would state the intent of the Legislature to enact subsequent legislation to increase statewide water storage capacity. (Based on 02/14/2024 text)

Position	Priority
watch	spot bill

[AB 2933](#) ([Low, D](#)) **Dwelling units: water service.**

Location: 02/15/2024 - Assembly PRINT

Summary: Current law generally regulates the hiring of dwelling units and, among other things, imposes certain requirements on landlords and tenants. Under current law, if a tenant notifies the landlord, or the landlord otherwise becomes aware of a leak, drip, or water fixture that does not shut off properly, then the landlord is required to have the condition investigated, and, if warranted, to rectify the condition. This bill would make a nonsubstantive change to that provision. (Based on 02/15/2024 text)

Position	Priority
watch	spot bill

[AB 2962](#) ([Papan, D](#)) **Water appropriations: permits.**

Location: 02/16/2024 - Assembly PRINT

Summary: Current law authorizes the State Water Resources Control Board to administer a water rights program pursuant to which the board grants permits and licenses to appropriate water. Current law requires the board to consider and act upon all applications for permits to appropriate water. This bill would make a nonsubstantive change to the latter provision. (Based on 02/16/2024 text)

Position	Priority
watch	spot bill

AB 3023 (Papan, D) Environmental protection: lands and coastal waters: conservation goals.

Location: 02/16/2024 - Assembly PRINT

Summary: Current law provides that it is the goal of the state to conserve at least 30% of California’s lands and coastal waters by 2030. This bill would make a nonsubstantive change to this provision. (Based on 02/16/2024 text)

Position	Priority
watch	spot bill

AB 3157 (Papan, D) California Water District Law.

Location: 02/16/2024 - Assembly PRINT

Summary: The California Water District Law (CWDL) authorizes a water district, by using any water or water supplies furnished to the district or used by the district, to construct, maintain, and operate plants for the generation of hydroelectric power from those water and transmission lines for the conveyance of that power. The CWDL authorizes a water district to join with any other district engaged in distributing water in exercising the powers granted to the district pursuant to that authorization, as described, or to execute joint power agreements with any agency formed for that purpose. This bill would make a nonsubstantive change to the latter authorization. (Based on 02/16/2024 text)

Position	Priority
watch	spot bill

AB 3219 (Sanchez, R) Advanced Clean Fleets Regulation: local governments.

Location: 03/11/2024 - Assembly Transportation

Summary: The California Global Warming Solutions Act of 2006 establishes the State Air Resources Board as the state agency responsible for monitoring and regulating sources emitting greenhouse gases and requires the state board to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emission reductions from those sources. Pursuant to its authority, the state board has adopted the Advanced Clean Fleets Regulation, which imposes various requirements for transitioning local, state, and federal government fleets of medium- and heavy-duty trucks, other high-priority fleets of medium- and heavy-duty trucks, and drayage trucks to zero-emission vehicles. The Advanced Clean Fleets Regulation authorizes entities subject to the regulation to apply for exemptions from its requirements under certain circumstances. This bill would provide that the requirements of the Advanced Clean Fleets Regulation do not apply to the purchase by a local government of vehicles with a gross vehicle weight rating greater than 8,500 pounds if the price of the zero-emission version of a vehicle is more than an unspecified percentage of the price of a comparable internal combustion engine version of that vehicle. (Based on 03/11/2024 text)

Position	Priority
watch	spot bill

SB 1134 (Caballero, D) Surplus land.

Location: 02/13/2024 - Senate Rules

Summary: Existing law provides for the disposal of land owned by a local agency that is surplus and is not necessary for the agency’s use. The local agency is required to declare the land either “surplus land” or “exempt surplus land,” as prescribed. Existing law sets forth procedures for the disposal of surplus land and provides that these procedures do not apply to exempt surplus land. Existing law, for prescribed surplus land parcels developed with residential units, requires minimum percentages of residential units developed on the parcel to be sold or rented at affordable housing cost or affordable rent. This bill, with regard to surplus land, would require each parcel of land to be considered a distinct unit of surplus land, with the exception of contiguous parcels that are disposed of simultaneously to the same receiving entity or any entity working in concert with another receiving entity, which parcels the bill would require to be treated as a single unit of land. (Based on 03/18/2024 text)

Position	Priority
watch	spot bill

SB 1373 (Cortese, D) Water: public use.

Location: 02/16/2024 - Senate Rules

Summary: Current law declares that all water within the state is the property of the people of the state, but the right to the use of the water may be acquired by appropriation in the manner prescribed by law. This bill would make nonsubstantive changes to that declaration. (Based on 02/16/2024 text)

Position	Priority

watch

spot bill

Total Measures: 39

Total Tracking Forms: 39

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Engineering and External Affairs

SUBJECT: Pure Water Project Las Virgenes-Triunfo: Update

SUMMARY:

On August 1, 2016, the JPA Board selected Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, as the preferred alternative for the Recycled Water Seasonal Storage Basis of Design Report. The selected alternative was subsequently renamed the Pure Water Project Las Virgenes-Triunfo (PWP). Staff was also directed to report back to the Board on the next steps for implementation of the project.

Staff released a request for proposals (RFP) for Owner's Advisor/Program Manager services for the (PWP) on May 8, 2020. The selection of an Owner's Advisor/Program Manager to support the effort was an important next step to begin implementation of the Pure Water Program. Utilization of an Owner's Advisor/Program Manager is consistent with the approach taken by other public agencies pursuing potable reuse projects of similar scope and complexity. Among the critical elements of the proposed scope were completion of the preliminary design and environmental documentation, procurement of a progressive design build (PDB) firm, and regulatory support.

On September 8, 2020, the JPA Board accepted a proposal from Jacobs Engineering Group, Inc., and authorized the Administering Agent/General Manager to execute a professional services agreement for Owner's Advisor/Program Manager services for the PWP.

On March 4, 2024, the JPA authorized Amendment No. 2 for Jacobs to provide Owner's Advisor/Program Manager services, which defined the next phase of their support for the program during the 60 percent design of the Advanced Water Purification Facility. The JPA further accepted a proposal from the Walsh Team as the PDB firm for the AWPf and ROC Pipeline. This important next step brings the PWP program into the full design phase with commissioning of the full-scale facility slated for 2027.

This report serves to provide a summary of the progress to-date on the work performed by Jacobs Engineering Group, Inc., including major monthly milestones, key program accomplishments, key considerations and a look-ahead of upcoming activities.

GOALS:

Lead in Sanitation and Recycled Water Services Focusing on Maximum Reuse

Prepared by: Oliver Slosser, Engineering Program Manager

ATTACHMENTS:

[Monthly Update on Pure Water Project Las Virgenes-Triunfo](#)

To: Las Virgenes-Triunfo JPA Board of Directors
From: Jennifer Phillips, Jacobs
Date: March 18, 2024
Re: Pure Water Project JPA Board Monthly Update

Pure Water Project Overview

The Pure Water Project (PWP) is an opportunity to proactively address three major challenges facing the Las Virgenes-Triunfo JPA:

- comply with more stringent regulatory requirements for discharging to Malibu Creek,
- balance seasonal variation of recycled water demand, and
- create a valuable resource to supplement the region's water supplies, enabled by California's reservoir water augmentation requirements.

By 2030, the plan is to have an operational advanced water purification facility (AWPF) to treat tertiary effluent from the Tapia Water Reclamation Facility for indirect potable reuse, and convey the product water to the Las Virgenes Reservoir, where it will be blended with Metropolitan Water District of Southern California (Metropolitan) supply.

Monthly Major Milestones

The PWP achieved the following in March:

- Held a kickoff meeting with U.S. EPA for the Water Infrastructure Finance and Innovation Act (WIFIA) loan development.
- Submitted the following to the State Water Resources Control Board (SWRCB) in support of the Clean Water SRF funding application for the PWP: 1) a Federally Regulated Biological Resources Survey Work Plan that details the regulated field surveys and studies supporting a Biological Assessment and 2) a Historic Property Information Report that summarizes the cultural resources assessment.
- The SWRCB posted the Notice of Wastewater Change Petition that LVMWD filed to allow for surplus Tapia WRF effluent to be diverted to the AWPF for beneficial use, thereby reducing the treated wastewater discharge flow to Malibu Creek in the winter season. Completed the 30-day public review period on March 14, 2024, and no comments were received.
- Met with the Regional Water Quality Control Board (RWQCB) to continue discussing the permitting approach for discharge of purified water to Las Virgenes Reservoir.

Look Ahead

The Project Team is focused on the following activities for April:

- Kickoff the AWPF Project with the Walsh design-build team.
- Develop an application for the Bureau of Reclamation Title XVI grant, which has a submittal deadline of September 30, 2024. The program has an award ceiling of \$30

million, of which \$10.2 million was awarded to the PWP in 2022 for the design phase. This application is focused on construction funding.

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Engineering and External Affairs

SUBJECT: Dye-Tracer Study for Las Virgenes Reservoir: Award

SUMMARY:

The Pure Water Project Las Virgenes-Triunfo (PWP) represents a unique opportunity to proactively address the challenges facing the Las Virgenes-Triunfo Joint Powers Authority (JPA) through an Indirect Potable Reuse program utilizing Surface Water Source (Reservoir) Augmentation. An Independent Advisory Panel (IAP) was convened on May 4, 2018, to validate the results of a hydrodynamic reservoir computer model and comment on the feasibility of the Project to meet the Surface Water Augmentation (SWA) regulations. The IAP identified future tasks to be completed by the JPA for the PWP, including additional modeling which requires validation with a physical dye-tracer study at Las Virgenes Reservoir.

Coastal Observing Research and Development Center (CORDC) has prepared a proposal to complete the dye tracer study at the reservoir to validate numerical modeling results characterizing the mixing of purified water. CORDC's proposal, in the amount of \$305,100, involves conducting the dye-tracer study and coordinating with both the IAP and Flow Science to meet the needs of the reservoir modeling effort. Staff recommends acceptance of CORDC's proposal to conduct the reservoir dye-tracer study, which is anticipated to commence in fall 2024 when meteorological (wind) conditions are ideal.

RECOMMENDATION(S):

Accept the proposal from Coastal Observing Research and Development Center, and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$305,100, for the completion of a dye-tracer study in Las Virgenes Reservoir to support the permitting process for future operation of the Pure Water Project Las Virgenes-Triunfo.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The cost of the work is \$305,100. Sufficient funds are available in the adopted Fiscal Year 2023-24 JPA Budget.

DISCUSSION:

On February 5, 2018, the results of 3-D hydrodynamic modeling of Las Virgenes Reservoir were presented to the JPA Board. The purpose of the modeling was to confirm that the Pure Water Project Las Virgenes-Triunfo (PWP) would comply with Surface Water Augmentation (SWA) regulations recently issued by the State Water Resources Control Board (SWRCB). Overall, the modeling results were favorable and demonstrated that the PWP would meet the SWA regulations under most scenarios. However, there were three tracer simulations that resulted in dilution values of less than the minimum of 100:1. The Independent Advisory Panel (IAP) had the following recommendations for additional study:

1. Perform additional modeling efforts with a submerged diffuser inlet rather than a surface water inlet to predict if the regulatory dilution criterion is met in even the most challenging meteorological conditions.
2. Conduct a probabilistic analysis to provide a high confidence level that the required dilution will be achieved consistently.
3. Develop a monitoring plan that specifically identifies the constituents that will be monitored in the advanced water treatment plant product water, at Las Virgenes Reservoir, and in the product water from the Westlake Filtration Plant.

In consultation with Jacobs, the Owner's Advisor for the PWP, it has been recommended that the JPA re-engage the IAP to address the outstanding recommendations from the previous meeting, address new questions pertinent to the delivery of the project, and perform additional modeling of the reservoir in conjunction with a dye-tracer study.

The National Water Research Institute (NWRI) has been hired by the JPA to re-engage the IAP on this effort. The IAP will inform the continued reservoir modeling and dye-tracer testing to validate the model and review the findings from this effort. These findings will be necessary in the JPA's continued consultation with the State Water Resources Control Board, Division of Drinking Water (DDW) and other regulators for final acceptance of the Advanced Water Purification Facility (AWPF) and use of Las Virgenes Reservoir as the environmental buffer for the PWP.

Based on other efforts by NWRI and the IAP members, Jacobs has worked with staff to develop a dye-tracer study scope of work that is consistent with other California Surface Water Source Augmentation Projects (SWSAPs). In recent years, the level of effort required in completing these studies has increased to provide greater confidence that the reservoirs will perform in all anticipated conditions and provide the required mixing and detention times for the purified water. The scope of work developed reflects the amount of data needed by the reservoir modeling firm to meet these important metrics.

The primary objective of the dye-tracer study is to map the evolution of an introduced rhodamine dye plume (surrogate for purified water) from its discharge source to the receiving waters using an Autonomous Underwater Vehicle (AUV) in conjunction with boat-based sampling. The AUVs increased spatial sampling resolution, adaptive sampling options, and operational costs make it an appealing alternative to only utilizing traditional boat-based sampling techniques. Staff investigated both options when developing the Request for

Proposals (RFP) for this effort and found the cost to do only traditional boat sampling did not present a significant cost savings, and carried the risk of not producing an adequate amount of data for the IAP or to support the model calibration and validation.

On July 24, 2023, staff issued an RFP for the dye-tracer study. One proposal was received by CORDC, in the amount of \$337,500. Staff worked with CORDC to refine the scope of work in their proposal to meet the JPA's specific needs for the PWP and Las Virgenes Reservoir. On January 11, 2024, CORDC submitted a revised fee of \$305,100 and an updated scope of work that was streamlined to best meet the needs for the tracer study, reservoir modeling and work of the IAP. CORDC's proposed scope of work includes the following items:

- Development of a draft and final dye-tracer study plan.
- Preliminary studies, manufacturer calibration of sensors used for the study, cross calibrations of all Rhodamine instruments.
- Ambient autonomous underwater vehicle (AUV) surveys to be performed to characterize the reservoirs ambient conditions and bathymetry for optimal path planning of subsequent surveys.
- AUV survey days expected to capture the evolution of the introduced dye plume.
- Concurrent supplemental monitoring to occur with a boat-based casting package during AUV surveys.
- Pre-processing of data sets for quality control and to optimize sampling within the introduced dye plume for follow-on surveys.
- Post-processed data sets to be provided to the Reservoir Modeler.
- A draft and Final Report summarizing all data collections and findings from the study.

This work will be coordinated with the Ocean Well installation planned for Las Virgenes Reservoir to ensure that the two projects do not conflict and that the results of the dye tracer testing and reservoir modeling are independent from the temporary infrastructure that will be placed in the reservoir for testing.

Staff recommends that the JPA Board accept the proposal from CORDC, and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$305,100, for the dye-tracer study to support permitting efforts for the Pure Water Project Las Virgenes-Triunfo.

GOALS:

Construct, Manage and Maintain all Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: Oliver Slosser, Engineering Program Manager

ATTACHMENTS:


[CORDC Proposal for Dye-Tracer Study](#)

Proposal Cover Sheet
 The Regents of the University of California
 University of California, San Diego

UCSD# 57306-2024

Principal Investigator:		Co-Principal Investigator:	
Last Name	Rogowski	Last Name	Terrill
First Name	Peter	First Name	Eric
Title	Associate Project Scientist	Title	CORDC Director
Department/ORU	Marine Physical Laboratory	Department/ORU	Marine Physical Laboratory
Mail Code	0214	Mail Code	0214
Phone #	858-822-0681	Phone #	858-822-3101
Fax #		Fax #	
Email	progowski@ucsd.edu	Email	eterrill@ucsd.edu
Agency Information:			
Agency Name	Jacobs Engineering Group Inc.	If applicable, include the following information:	
Contact Name	Jennifer Phillips	Award #	
Contact Phone	(480) 220-7819, jennifer.phillips2@jacobs.com	PA/RFA/RFP, etc #	
Street Address	555 South Flower Street Suite 3200	Other required agency information, such as DUNS Number, etc.	
City, State, Zip	Los Angeles, CA, 90071	DUNS#: 175104595 TIN#: 95-6006-144	
Proposal Title	Service Agreement: Las Virgenes Reservoir Dye-Tracer Study Utilizing an Autonomous Underwater Vehicle (AUV)		
Project Begin Date	02/01/24	Project End Date	01/31/25
		Total Costs Requested	\$305,100

Principal Investigator

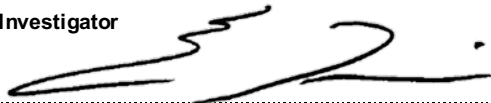


 Principal Investigator Signature

1/10/2024

 Date

Co-Principal Investigator




 Co-Principal Investigator Signature

1/10/2024

 Date

OCGA Official Authorized to Sign on Behalf of The Regents



 Signature

01.11.24

 Date

Anne Footer, Business Operations Officer, Marine Physical Laboratory

Print or Type Name and Title

Please send award documents as indicated below:

For **General Campus and Health Sciences** Proposals

For **Scripps Institution of Oceanography** Proposals

Mailing Address:

University of California-San Diego
 Office of Contract and Grant Administration
 9500 Gilman Drive, Dept 0934
 La Jolla, California 92093-0934
 Phone # 858-534-3330
 Fax # 858-534-0280

Courier Address:

University of California-San Diego
 Office of Contract and Grant Administration
 10300 N Torrey Pines Road, 2nd Floor
 La Jolla, California 92037
 Phone # 858-534-3330
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Mailing Address:

University of California-San Diego
 SIO Contract and Grant Office
 9500 Gilman Drive, Dept 0210
 La Jolla, California 92093-0210
 Phone # 858-534-4570
 Fax # 858-534-5306

Courier Address:

University of California-San Diego
 SIO Contract and Grant Office
 8622 Discovery Way, Room 116
 La Jolla, California 92037
 Phone # 858-534-4570
 Fax # 858-534-5306

Las Virgenes Reservoir Dye-Tracer Study Utilizing an Autonomous Underwater Vehicle (AUV)

Coastal Observing Research and Development Center (CORDC)
8875 Biological Grade
La Jolla, CA 92037-0213

Dr. Peter Rogowski
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Project Scientist & Engineer (Principal Investigator)
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Submitted to:
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Jennifer Phillips, PE
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Jennifer.Phillips2@jacobs.com

For business issues (non-technical) related to the submittal of this purchase order:

Anne Footer
Marine Physical Laboratory
Scripps Institution of Oceanography
University of California, San Diego
291 Rosecrans Street
San Diego, CA 92106
858-534-1802 Fax: 858-822-0665
afooter@ucsd.edu

A. Executive Summary

As part of the California Surface Water Source Augmentation Project (SWSAP), the Las Virgenes-Triunfo Joint Powers Authority (JPA) is pursuing indirect potable reuse (IPR) through the Pure Water Project Las Virgenes-Triunfo Project as a potential new water supply that is drought resilient. The project will create a new, local, sustainable drinking water source in a water-stressed area, reducing the region's dependence on imported water and increasing climate resilience. This proposal addresses the Las Virgenes Municipal Water District (LVMWD) request to perform a dye-tracer study in Las Virgenes Reservoir to validate numerical modeling results characterizing the mixing of the introduced purified waters. The primary objective is to map the evolution of an introduced rhodamine dye plume (surrogate for purified water) from discharge source to the receiving waters using an Autonomous Underwater Vehicle (AUV) in conjunction with boat-based supplementary casts. The AUVs increased spatial sampling resolution, adaptive sampling options and operational costs make it an appealing alternative to only utilizing traditional boat-based sampling techniques. To meet program objectives, the Coastal Observing Research and Development Center (CORDC) will leverage their fleet of AUVs (one primary, one backup) and more than 15-years of experience utilizing the vehicles for monitoring applications in the southern California region.

Primary tasks include:

- Draft and final dye-tracer study plan.
- Preliminary Studies: Manufacturer calibration of sensors used for the study including Conductivity, Temperature, and Depths (CTD) sensors, Acoustic Doppler Current Profiler (ADCP) sensor, and Rhodamine sensors. Cross calibrations of all Rhodamine instruments. The week prior to the dye discharge, ambient AUV surveys will be performed to characterize the reservoirs ambient conditions and bathymetry for optimal path planning of subsequent surveys. Fixed instruments will also be deployed (temperature chain and ADCP).
- Based on past dye tracer studies, ~7 AUV survey days over a 2-week period are expected to capture the evolution of the introduced dye plume. Immediately after the dye release, an intensive sampling campaign will commence with daily AUV surveys taking place until the dye is well mixed throughout the reservoir. Once well mixed, less frequent surveys will occur to characterize remaining dye levels. Frequency of surveys after the intensive sampling campaign will be dictated by observed concentrations of Rhodamine.
- Concurrent supplemental monitoring will occur with a boat-based casting package during AUV surveys (e.g. Rhodamine, CTD).
- After each AUV survey, data sets will be pre-processed for quality control and to optimize sampling within the introduced dye plume for follow-on surveys.
- Deliverables: Post-processed data sets will be provided to the Reservoir Modeler. CORDC will provide a draft and Final Report summarizing all data collections and findings from the study.

B. Project Understanding and Approach

AUV Operations

Emergent technology in the field of oceanographic instrumentation is enhancing survey methods for detecting and mapping buoyant plumes. A principal challenge in tracking these plumes in the ocean is the spatial and temporal variability of ocean currents and stratification in coastal waters which, without the aid of recent measurements, limits plume sampling far from the discharge source due to uncertainty in the plume's location. Typically, the plume is missed by traditional boat-based pre-determined sampling designs due to the plume's spatial patchiness and the limited range of the freshwater signature of the plume. Recent studies have shown that modern tracer observation techniques coupled with a mobile platform such as an AUV, are often a more effective approach for mapping buoyant plumes. While an enclosed reservoir does not contain the same sampling challenges as in the ocean, the AUVs increased spatial sampling resolution and adaptive sampling options make it an appealing alternative to traditional boat-based sampling techniques.

A Remote Environmental Monitoring Units (REMUS) AUV will be used for this project (Figure 1a). The AUV can conduct untethered underwater surveys to depths of 100m with high precision navigation following a pre-programmed mission track (Figure 1b). Onboard sensors include a conductivity-temperature-depth (CTD) sensor, and a optical instrument for measurement of introduced rhodamine dye. An Acoustic Doppler Current Profiler (ADCP) allows for direct measurement of water depth, and speed of vehicle over the seafloor. Typical surveys speeds range between 3-4 knots.

Rhodamine WT is the preferred tracer for reservoir tracer studies. Rhodamine WT is NSF/ANSI 60 certified, it can be measured in the field with a fluorometer, it has a low detection limit, and it has a relatively low background concentration. Rhodamine WT does photolyze with exposure to sunlight, but the rate of degradation is minimal and will not impact overall recovery of the tracer mass.

After the dye release, the introduced rhodamine dye plume will be monitored intensively in the days immediately following introduction into the reservoir, then less frequently in the following 1-2 weeks or until no measurable tracer persists. From previous tracer studies, ~7 AUV survey days are expected to capture the evolution of the introduced dye plume. The exact number of AUV surveys during these days will be dependent on the mixing and residence time of the introduced dye. Dynamic AUV path planning will ensure optimal sampling of the tracer plume throughout the course of the experiment. The number of AUV surveys in a given day will vary depending on time from dye release and observed mixing of the dye plume. It is expected that more intensive AUV survey days will occur in the days immediately following the dye release, with less frequent number of surveys per day as the dye becomes well mixed throughout the reservoir.

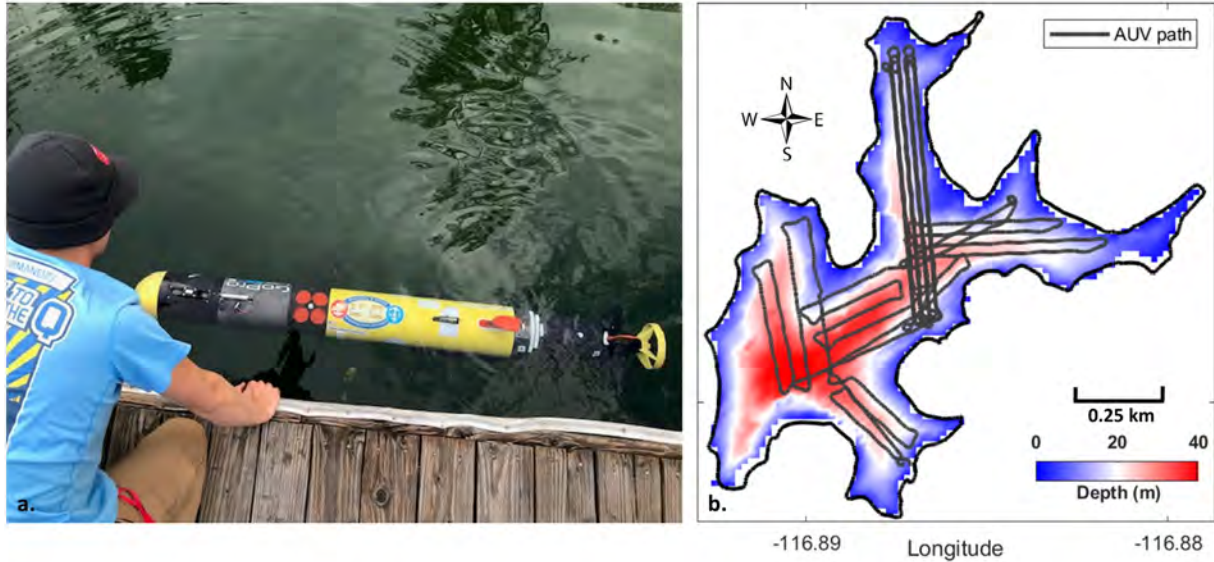


Figure 1. (a) Image of REMUS AUV used in the 2017 Lake Jennings study and (b) plan view of typical undulating AUV survey path (gray lines) overlaid on Lake Jennings bathymetry.

Supplementary Observations

Supplemental boat-based casts will occur using a casting package that includes a suite of high accuracy and stable instruments combined in one package/cage with the following sensors: Seabird SBE37-SI (conductivity, temperature, pressure) and a Wetlabs ECO-FLRHLT (Rhodamine) sensor. Current and temperature profiles will be measured by several moored instruments including Qty 1 Acoustic Doppler Current Profiler (ADCP) and Qty 1-2 temperature strings used similar to previous dye studies (e.g. See Figure 2a). Aerial imagery of the introduced plume will be observed using an Unmanned Aerial Vehicle (UAS) (e.g. Figure 2b) while visible (expected to be days 1 and 2). CORDC assets leveraged for this project include the REMUS AUV (\$~500K), a boat-based casting package (\$~40K), a UAS drone (\$~10K), and ADCP and temperature moorings (\$~80K).

Analysis

Staff will track the evolution of the rhodamine dye plume throughout the experiment by processing collected data for the generation of daily high resolution 3D rhodamine maps (e.g. Figure 3). Initial processing of the raw data will occur after each survey to confirm optimal sampling of the rhodamine dye plume. Data will be post-processed following the field effort and made available for hydrodynamic model comparisons. A report summarizing AUV and boat-based cast observations along with relevant findings will be provided by CORDC staff.

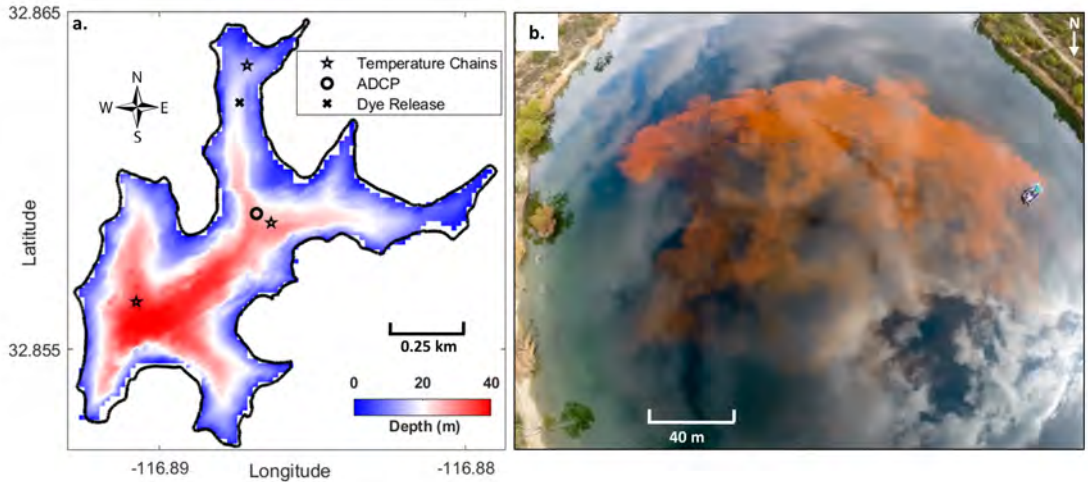


Figure 2. (a) Bathymetry map of Lake Jennings reservoir illustrating locations of fixed instruments and dye release locations and (b) aerial image of dye plume immediately after release from 2017 Tracer Study.

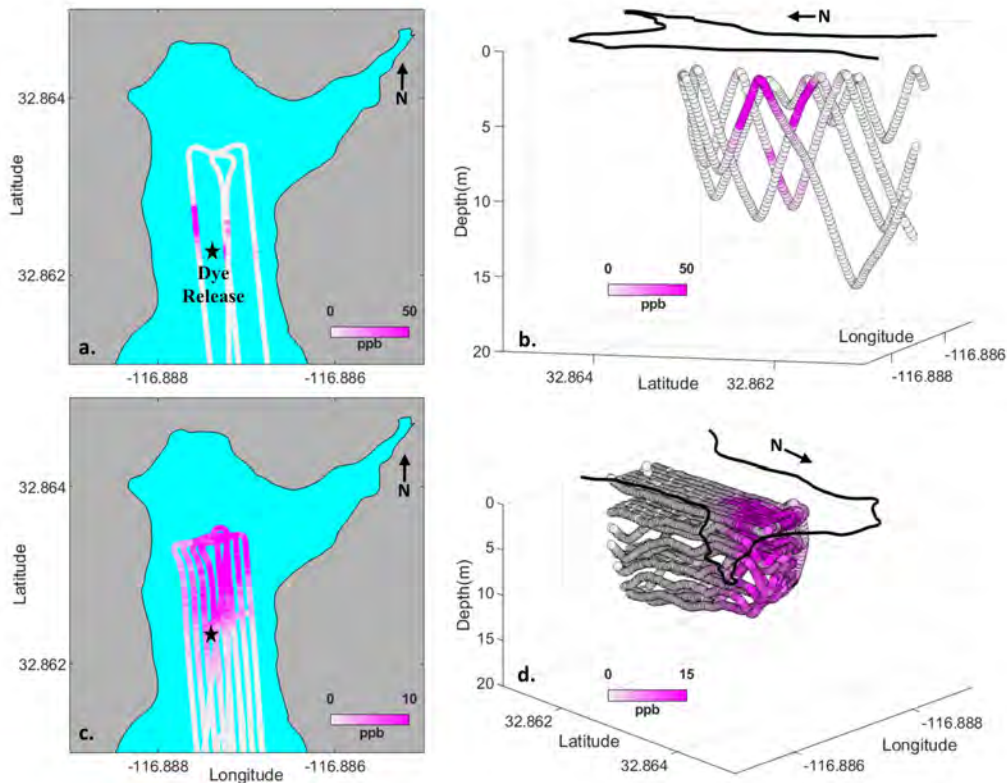


Figure 3. Summary of 30 October 2017 AUV rhodamine observations at Lake Jennings. (a) Plan view and (b) 3D view of rhodamine observations from survey #2. (c) Plan view and (d) 3D view of rhodamine observations from survey #3.

C. Project Organization and Key Personnel

Project Scientist Dr. Peter Rogowski will serve as project lead/PI and will oversee all aspects of the program including inter-calibration of instruments, AUV deployments, data analysis, and preparation/dissemination of deliverables. Dr. Rogowski has 10+ years of experience utilizing AUVs for coastal and freshwater monitoring applications (see Rogowski et al., 2012, 2013, 2014, 2019). Additional personnel essential to the program are R&D Engineers who manage/maintain our fleet of autonomous vehicles. The dedicated AUV team is responsible for successful AUV surveys locally and globally over the past decade and will be utilized for AUV path planning, deployment/recovery and maintenance as needed. Additional support staff will include a Marine Technician (boat operator/diver) and an Unmanned Aerial System (UAS) pilot.

Dr. Sophia Merrifield will take part in preparation and execution of the study plan, analysis of collected data sets and preparation of deliverables. She is an observational physical oceanographer working in the fields of air-sea interaction, turbulence, and unmanned vehicle autonomy. She studied physics and mechanical engineering at Yale University and received a Ph.D. from the MIT/WHOI Joint Program. Her work focuses on the use and development of emerging technologies for real-time environmental characterization in support of DoD projects. She is the recipient of the 2021 ONR Young Investigator Award.

Dr. Eric Terrill will assist in the planning and execution of the dye study plan. He will also assist in preparation and review of the draft and final deliverables. As founder and director of the Coastal Observing R&D Center (CORDC) at Marine Physical Laboratory, Scripps Institution of Oceanography, Dr. Terrill presently employs a technical team of programmers, scientists, and engineers which conduct basic and applied research, instrumentation development, and maintain operational environmental observing systems. Terrill has served as principal investigator for past and present funded research projects in a diverse set of applied and technical disciplines. Eric Terrill received his Ph.D. in the applied ocean sciences in 1998, and was an early recipient of the ONR Young Investigator Award.

D. Experience and Technical Competence

Over the past 15+ years, our lab has led numerous AUV monitoring studies. Several relevant studies are summarized below.

Point Loma Ocean Outfall Monitoring Study (April 2010 to April 2011)

Sponsor: City of San Diego, National Oceans and Atmospheric Administration (NOAA)

Approximate Project Amount: \$900K

Point of Contact: Timothy Stebbins (retired); Adriano Feit (619-758-2377)

Dr. Terrill was PI of the program and was responsible for overall program management. Colored Dissolved Organic Matter (CDOM) was utilized as a natural plume tracer of the Point Loma Ocean Outfall (PLOO) discharge during bi-monthly monitoring missions from April 2010 to April 2011. The plume was consistently sampled in each of the more than 20 AUV surveys. Dr. Rogowski's responsibilities for the project included path planning, AUV operation during deployment/recovery, data analysis, and lead author on a Final Report and two peer reviewed papers (Rogowski et al., 2012, 2013). CORDC R&D Engineers were utilized on this project for vehicle maintenance and support in preparation of the vehicles prior to deployments.

Rivers Mouth Dynamics Departmental Research Initiative (RIVET) (May 2012)

Sponsor: Office of Naval Research (ONR)

Approximate Project Amount: \$1.7M

Point of Contact: Drs. Thomas Drake (tom.drake@navy.mil) and Reginald Beach (reginald.beach@navy.mil)

Dr. Terrill was PI of the program and was responsible for overall program management. To characterize the transitional region from the near-field to far-field of a river plume entering coastal waters Dr. Rogowski and CORDC staff conducted daily surveys using an AUV to target the outflow of the New River Inlet, North Carolina, during maximum ebb tide. The utilization of a mobile sensor to synoptically observe current velocity data in tandem with natural river plume tracers (e.g. CDOM, salinity) was essential in understanding the mechanisms driving the observed circulation and mixing patterns within these waters. Dr. Rogowski's responsibilities for the project included path planning, AUV operation during deployment/recovery, data analysis, and lead author on a peer reviewed paper (Rogowski et al., 2014). He also collaborated with other project institutions collecting mutually beneficial AUV data sets (e.g. mapping the evolution of an introduced dye as it exited the river inlet).

Lake Jennings Tracer Study Utilizing an AUV (October 2017)

Sponsor: Padre Dam Municipal Water District/Helix Water District, Trussell Technologies

Approximate Project Amount: \$215K

Point of Contact: Padre Dam: Seval Sen (619-258-4631); Trussell Technologies: Eileen Idica (858-314-4130)

The spatial and temporal evolution of an introduced dye tracer in a small reservoir was observed using an AUV, providing quantifiable data of the convective processes which drive mixing of surface waters. The tracer served as a surrogate for advanced treated water that has been proposed to be introduced into a reservoir as part of an overall system for efficient water reclamation; a critical management tool for addressing water issues facing the southwest. The study demonstrates the utility of an AUV in a small reservoir, providing the framework for increased use of high-resolution mobile instrument platforms in future limnology studies. The propeller driven AUV was essential for characterizing the evolving plume in the spatially confined reservoir. Similarly,

the mobility of a propeller driven AUV is essential for proper characterization of the often patchy, spatiotemporal variable effluent plume in the receiving waters of an ocean outfall.

Dr. Rogowski served as PI overseeing all aspects of the project including coordination with the Padre Dam Municipal Water District and the Helix Water District on AUV timing and post survey progress reports. Dr. Terrill was Co-PI and assisted in program development and management. The AUV Engineers were essential to the success of the AUV surveys in the confined regions and highly variable bathymetry of the Lake Jennings reservoir. Drs. Rogowski and Merrifield were responsible for all deliverables including providing processed data sets to numerical modelers, progress meetings, a Final Report and a peer-reviewed manuscript (Rogowski et al., 2019).

E. Schedule

Upon award approval, all relevant instruments will be sent to manufacturers for calibration, which will take approximately 6-8 weeks (personal communication) and a new ECO-Fluorometer will be ordered from Seabird which has a lag time of ~3 months. During this period, the final dye study plan will be developed and finalized by April 2024. Based on the lag time until receiving our instruments, we anticipate the inter-calibration of all Rhodamine instruments to occur from June to August 2024. We are anticipating the ambient reservoir study and deployment of fixed sensors to occur in October, 2024, followed by the tracer release on in either October or November 2024. Monitoring of the tracer plume will start on the day of the tracer release and continue for approximately 1 – 2 weeks or until no measurable tracer is observed. Data analysis and synthesis of deliverables will occur from November of 2024 through February 2025.

Las Virgenes Dye Study	
<i>Estimated Dates</i>	<i>Project Component</i>
February 2024	Ship instruments to manufacturer for calibration
April 2024	Final Dye Study Plan
June 2024 - August 2024	Inter-calibration of instruments, sensor integration/testing.
October, 2024	AUV Survey (ambient); Fixed Instrument Deployments
October or November, 2024	Dye Release/Field Campaign
November - December 2024	Data Processing/Analysis
January 2025	Draft Deliverables
February, 2025	Final Deliverables (Data, Report)

F. Cost Estimate

Project Total: \$305,100

A breakdown of costs is included below. Here we summarize primary tasking of staff needed to meet the objectives of the RFP. Personnel are denoted as PI (either Drs. Rogowski, Merrifield or

Terrill) and Senior Engineer (AUV, UAS, or Marine Technician). Costs are based on a daily rate of \$2,700 per person and includes associated travel and lodging costs incurred throughout the dye study. “Total Days” denotes the number of cumulative days from all staff working on a given task.

Task	Total Days	Personnel	Cost
1. Planning meetings, draft and final dye-tracer study plan	10	PI	27,000
2. Dye Study Preparation	16	4 Senior Eng	81,000
3. AUV/Boat-based Field Efforts	42	PIs, Senior Engs	113,400
4. Analysis and Reporting	31	PIs	83,700
Total Proposed Cost			305,100

Study Plan Development Phase

Task 1: Planning meetings, draft and final dye-tracer study plan

Budgeted costs are included for the Principal Investigators (PIs), Dr. Rogowski or Merrifield to take part in planning meetings with LVMWD, Jacobs, and Flow Science to develop a draft and final dye-tracer study plan. Costs included for travel and lodging.

Task 2: Dye Study Preparation

Budgeted costs are included for manufacturer calibrations of sensors used for the study including Conductivity, Temperature, and Depths (CTD) sensors, and Rhodamine sensors. Costs are also included for fabrication of 1-2 temperature chains and the purchase of 1 self-contained Rhodamine sensor. Budgeted costs are included for cross calibrations of all Rhodamine instruments and fabrication of rhodamine discharge system designed for a small vessel.

Test Phase

Task 3: AUV/Boat-based Field Efforts

Costs are included for initial ambient AUV surveys (2-3) the week prior to the dye release to characterize the reservoirs ambient conditions and bathymetry for optimal path planning of subsequent surveys. Temperature chains and ADCPs will be deployed during these initial survey days.

Costs are included for 7 AUV survey days that are expected to capture the evolution of the introduced dye plume. Immediately after the dye release, an intensive sampling campaign will commence with daily AUV surveys taking place until the dye is well mixed throughout the reservoir. Once well mixed, less frequent surveys will occur to characterize remaining dye levels. Frequency of surveys after the intensive sampling campaign will be dictated by observed concentrations of Rhodamine. Concurrent supplemental monitoring will occur with a boat-based casting package during AUV surveys (e.g. Rhodamine, CTD). Costs are included for Senior Engineers to support AUV preparation and maintenance for the dye tracer study. Costs are also

included for boat operations and maintenance during the program. Costs are also included for travel and lodging for the test period.

Task 3: Optional: If more AUV surveys are required due to persistence rhodamine concentrations in the reservoir, a daily AUV survey rate of \$8100 accounts for costs for boat, staff (Qty. 3), and travel time to complete subsequent AUV surveys.

Task 4: Analysis and Reporting

Costs are included for initial data qa/qc, and processing after each field effort. After completion of the dye study, collected data will be processed into easily readable output files (e.g. ascii, excel, matlab) and visualizations and provided to the Reservoir Modeler. PIs will provide a draft and Final Report summarizing all data collections and findings from the study.

G. Copy of similar recent ocean AUV study report

The Lake Jennings Final Report and published manuscript will be submitted with this proposal. Additional Final Reports and manuscripts are available by request. Relevant publications include:

Rogowski, P., S. Merrifield, L. Ding, and E. Terrill, 2019. Introduced dye tracer mapping by an Autonomous Underwater Vehicle. *Limnology and Oceanography: Methods*. doi: 10.1002/lom3.10326.

Rogowski, P., E. Terrill, and J. Chen (2014), Observations of the frontal region of a buoyant river plume using an autonomous underwater vehicle, *J. Geophys. Res. Oceans*, 119, doi:10.1002/2014JC010392.

Rogowski, P., E. Terrill, M. Otero, L. Hazard, and W. Middleton (2013), Ocean outfall plume characterization using an autonomous underwater vehicle, *J. Water and Science Tech.*, 67, 4, 925 – 933. doi: 10.2166/wst.2012.635.

Rogowski, P., E. Terrill, M. Otero, L. Hazard, and W. Middleton (2012), Mapping ocean outfall plumes and their mixing using autonomous underwater vehicles, *J. Geophys. Res.*, 117, C07016, doi:10.1029/2011JC007804.

Service Agreement:

The University will not, and does not, agree to any terms and conditions that may be contained in your purchase orders or other written communications unless accepted in writing by an authorized representative of the University. Standard SIO Terms and Conditions are included for reference and apply in the absence of other formally accepted terms and conditions. The University of California is not a commercial entity and is not providing commercial or commercially available goods and/or services on this project. The University requests that mandatory clauses related to security or export control that are not applicable to this specific Statement of Work be explicitly noted in writing as not applicable (e.g., DFARS [252.204-7000](#), [252.204-7012](#), [252.225-7048](#)). Please also note that any materials provided to UCSD-SIO in relation to this project may be subject to disclosure consistent with the provisions of the California Public Records Act.

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Engineering and External Affairs

SUBJECT: Annual Supply and Delivery of Shaftless Screws and Liners: Award

SUMMARY:

The Rancho Las Virgenes Composting Facility (Rancho) utilizes over 40 screw conveyors of various sizes to move dewatered sludge, amendment and compost throughout the facility. The shaftless screws and liners of the conveyors are the primary wear items at Rancho, requiring frequent maintenance and replacement to maximize the useful life of the equipment. A Request for Bids was released for the annual supply and delivery of screws and liners to establish an annual purchase order with four one-year renewal options. The purchase of an individual screw ranges from \$6,750 to \$65,495, depending on the size and specifications.

An annual purchase order will allow as-needed replacement of worn-out screws and liners, supporting staff to prioritize the replacement of the wearable parts based on the observed condition of the conveyors. Staff recommends accepting the bid from Austin-Mac, Inc., and authorizing the Administering Agent/General Manager to issue a one-year purchase order, in the amount of \$150,000.00, with four one-year renewal options based on a three percent per year inflationary factor for the annual supply and delivery of shaftless screws and liners.

Staff continues to monitor new solids handling technologies and alternatives to conventional screw conveyors, such as belt conveyors, when considering long-term maintenance and replacement of the conveyors at Rancho. Based on the current condition of the conveyors, staff has determined that replacement of the wearable parts including the screws and liners of the existing conveyors will maximize the investment made by the JPA to extend the useful life of the equipment rather than considering full replacement at this time since most of the conveyor bodies are in good functional condition. Staff will consider a future study to review material handling alternatives once most of the conveyors have reached the end of useful life to ensure a comprehensive evaluation is considered when making or considering changes to the material handling processes of Rancho.

RECOMMENDATION(S):

Accept the bid from Austin-Mac, Inc., and authorize the Administering Agent/General Manager to approve a one-year purchase order, in the amount of \$150,000, with four one-year renewal options for the annual supply and delivery of shaftless screws and liners.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total cost for the first year is estimated to be \$150,000.00 with a three percent per year inflationary adjustment for the renewal options. Sufficient funds are available in the adopted Fiscal Year 2023-24 JPA Budget and will be proposed in future fiscal year budgets.

DISCUSSION:

Since 1994, Rancho has processed raw sludge from the Tapia Water Reclamation Facility (Tapia) to produce nutrient-rich Class A compost. Tapia currently treats an average of 7.0 million gallons (MG) of wastewater per day, and pumps approximately 80,000 gallons per day of combined primary and waste activated sludge to Rancho for processing. The sludge is processed in anaerobic digestors, dewatered, combined with amendment, and processed in the reactor building to produce finished Class A compost. Rancho utilizes over 40 screw conveyors of various sizes to move dewatered sludge, amendment and compost throughout the facility. Many of the screw conveyors were purchased when the composting facility first came into service in 1994 and are approaching the end of their useful life.

A request for bids was posted on the District's website on January 11, 2024, and sent to three vendors that previously submitted bids for the purchase of screw conveyors and liners at the Rancho facility. The lowest bid was determined by the sum of all bid items (42 specified shaftless screws and liners); however, the annual needs are expected to represent only a fraction of the bid total. Bids were due February 22, 2024, and two bids were received. Austin-Mac, Inc., was identified as the lowest responsive bidder, and a copy of their bid is attached for reference.

The estimated cost to purchase an individual shaftless screw ranges from \$6,750 to \$65,495, depending on the size and specifications. The amounts include all applicable taxes and delivery fees. The specified liners cost approximately \$300 per foot of screw. The total bid amount includes a price for most of the shaftless screws at the Rancho facility, but screws will only be purchased as needed (at their bid price). JPA staff will be responsible for replacing the screws and liners. The purchase order, in the amount of \$150,000, will fund an annual replacement program for the shaftless screws and liners as they reach the end of their useful life.

Following is a summary of bids received:

Bidder	Bid Total
Austin-Mac, Inc.	\$1,015,978.00
Saveco North America, Inc.	\$2,007,325.00

GOALS:

Construct, Manage and Maintain all Facilities and Provide Services to Assure System

Reliability and Environmental Compatibility

Prepared by: John Soderberg, Assistant Engineer

ATTACHMENTS:

[Bid by Austin-Mac](#)

**Las Virgenes Municipal Water District
Bid Form-Schedule
Screw Conveyors and Liners**

The undersigned states and declares as follows: that the bidder has carefully read and examined the Bid Documents; Bid Notice; Instruction to Bidders; Bid Specifications including exhibits; Bid Form-Schedule; and that the bidder will comply with the bid terms and conditions. The undersigned agrees to supply and deliver materials in strict conformity with the specifications and instructions enclosed with the Invitation for Bids for the prices set forth below in this bid schedule.

It is understood that this bid shall remain open and shall not be withdrawn for a period of ninety (90) days from the date prescribed for the opening of the bid.

It is further agreed that the materials/services to be furnished under this bid shall be delivered at such time and in such quantities as called for by the Las Virgenes Municipal Water District.

Materials/Services to be furnished under this bid shall be delivered FOB Destination Freight Pre-Paid and Allowed to Rancho Las Virgenes Composting Facility, 3700 Las Virgenes Road, Calabasas, CA 91302 after approval of shop drawings by the District.

All bidders are required to submit with their bid:

- a. Completed Bid Form-Schedule (6 pages).
- b. Published Warranty for manufactured product.

The bidder's authorized officer identified below hereby declares that the representations in this bid are true and correct and of my own personal knowledge, and that these representations are made under penalty of perjury under the laws of the State of California, and that I am duly authorized to bind this bidder to this bid.

Lowest bid is defined as the sum of prices for items 1-43.

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Item No.	Designation	Length	Diameter (in)	Pitch (in)*	Total (\$)
1	2-C-101	29'	16		#16,580
2	2-C-102	29'	16		#16,580
3	2-C-103	40'	18		#22,659
4	2-C-104	71'-2"	18		#40,786
5	2-C-105	47'-7 1/2"	18		#27,190
6	2-C-106	13'-6"	18		#7,830
7	2-C-107	104'-0"	20		#65,495
8	3-C-101 (A-D)	20'-10"	16		
9	3-C-102	50'-4 3/16"	24		#39,950
10	3-C-103	48'	24		#38,950
11	3-C-104 (A-B)	68'-11"	24		#55,370
12	3-C-105	38'-6"	20		#24,560
13	3-C-106	54'-6"	18		#32,156
14	3-C-107	63'-0"	24		#50,526
15	3-C-109	21'-8"	23.5	24	#19,248
16	3-C-110	15'-8"	23.5	24	#12,995
17	3 C 111	30' 10"	24	VARIES	
18	3 C 112	30' 10"	24	VARIES	
19	3 C 113	30' 10"	24	VARIES	
20	3 C 114	30' 10"	24	VARIES	
21	3 C 115	30' 10"	24	VARIES	
22	3-C-116	24'-0 1/4"	24		#19,248

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Item No.	Designation	Length	Diameter (in)	Pitch (in)*	Total (\$)
23	3-C-117	24'-0 1/4"	24		#19,975
24	4-C-101	27'-7"	18		#15,862
25	4-C-103	64'-5 1/2"	18		#38,404
26	4-C-104	64'-5 1/2"	18		#38,404
27	4-C-107 (A-B)	31'-11"	14		12,875
28	4-C-108 (A-B)	31'-11"	14		12,875
29	4-C-111	72'-8"	16		#41,736
30	5-C-101	62'-9"	18		#36,687
31	5-C-102	13'-8"	18		#7,830
32	5-C-104	39'	18		#22,659
33	5-C-109	62'-6"	16		36,018
34	5-C-110	58'-4"	16		33,731
35	5-C-111	66'-5"	16		38,305
36	5-C-112	66'-5"	16		38,305
37	5-C-113	66'-6"	16		38,305
38	5-C-114	66'-9"	16		38,305
39	5-C-115	51'-6"	16		29,729
40	2-ME-104	10'-0"	16	HALF	6750
41	3-ME-106 (A-D)	11'-8 1/2"	16	VARIES	8950
42	5-ME-111 (A-D)	11'-8 1/2"	16	VARIES	8950
TOTAL (ITEMS 1-42) (\$):					

* If no pitch is listed, assume standard pitch

-Prices to include associated liner for each screw conveyor replacement.

-Prices to include all delivery and handling costs.

-As-builts for each individual screw can be provided upon request.

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524 656

Item No.	Designation	Total (\$)
43	48"x 48" Xylethon Liner 3/8" thick (additional liner for purchase, as needed)	\$1200/EA (3/8" x 4' x 4')
TOTAL (ITEM 43) (\$):		# 1,015,978

The price supplied at bid shall include for each screw:

- All costs (time and travel) associated with a site-visit for measurement verification.
- All costs associated with producing shop drawings prior to manufacturing.
- Liner for the length of screw (3/8" thick Xylethon liners and 4" wide and matching the screw's length)
- All costs for equipment, transportation, and delivery.

The initial contract will be for one year for a maximum of \$150,000 in contract value for all purchases issued under the contract per contract year, with up to four potential one-year renewal options (up to a total of five years). Renewal at the end of each contract year will be at the sole discretion of the District. This agreement does not bind the District to any minimum compensation for the selected bidder; all work done under this contract must be expressly authorized at the sole discretion of the District.

TOTAL (ITEMS 1-43) (\$):	1,015,978
---------------------------------	-----------

Written Total Bid Amount:

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Scheduling and Delivery (These timelines do not affect bid comparisons and it is understood that extenuating circumstances can occur):

Promised delivery time of shop drawings for approval after request for replacement:

5 working days

Promised delivery time of screw after receipt of order (approval of shop drawings):

25 working days (5 WEEKS)

State Inflation Indicator (refer to Instructions to Bidders Item 14 for details):

3% / YEAR

Notes or Exceptions:

(ALL (2) TWO YEAR WARRANTY)

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Addendum Acknowledgement (if applicable):

Addendum #1

Signed:

David M

Addendum #2

Signed:

David M

Addendum #3

Signed:

David M

Bidder:

AUSTIN-MAC, INC
Corporate Name of Bidder

2/2/24
Date

By: *David M*
Authorized Signature

PRESIDENT OWNER
Title

DAVID MARTIN
Print Name

DMARTIN@AUSTINMAC.INC.COM
E-mail

206 624-7066 EXT 213
Phone

2139 6TH AVE S. SEATTLE WA 98134
Address

~~Fax~~

TERMS AND CONDITIONS OF SALE

1. PROPOSAL CONSTITUTES AUSTIN-MAC, INC.'S OFFER

This proposal, including the terms and conditions hereof, constitutes Austin-Mac, Inc.'s offer to sell solely in accordance with the exact terms set forth, and supersedes, all prior proposals made with respect to the subject matter hereof. No reference herein to Buyer's inquiry shall in any way modify the terms and conditions hereof. If in lieu of acknowledging acceptance hereon, Buyer shall issue its Purchase order, such act shall in all cases constitute Buyer's unqualified acceptance of this offer and no different or additional terms and conditions contained on such Purchase Order which are hereby objected to by Austin-Mac, Inc., shall in any way be incorporated herein unless specifically agreed to in writing by Austin-Mac, Inc.'s authorized representative.

2. PRICES AND TERMS OF PAYMENT

- A. Export orders shall be accompanied by a confirmed irrevocable letter of credit for our account with an accredited United States bank, subject to our draft, with shipping documents attached, payable in United States funds. All documentary collection costs will be charged to Buyer.
- B. The prices at which we invoice will be those in effect at the time of shipment. The offer to sell at the prices shown in our quotation may be withdrawn at any time prior to receipt and acceptance of Buyer's purchase order at our plant.
- C. Taxes. Unless otherwise indicated, no Sales, Use, Retailers Occupation, Service Occupation, Service Use or other similar taxes are included in our prices. The amount of any such taxes which are paid or payable, or assessed, in connection with any order, and which are not specifically stated as being included in the purchase price, shall be paid by the Buyer to Austin-Mac, Inc. or, if authorized by law, by the Buyer directly to the taxing authority.

3. PERFORMANCE – CHANGES – DELAYS

- A. If a time for performance is stated herein, delivery will be made in approximately the stated number of working days from date of Buyer's acceptance hereof. Delivery shall be deemed complete by delivery of the equipment to a carrier designated by Buyer or failing such designation, to any common carrier. Partial shipments are permitted.
- B. Should Buyer cause changes to be made in the design or construction of said equipment, or otherwise delay or interrupt the progress of the work hereunder, Buyer will reimburse Austin-Mac, Inc. for any additional expense to which it may be put by reason thereof, and Austin-Mac, Inc. shall credit Buyer for any reduced cost which can be established.
- C. Austin-Mac, Inc. shall not be liable for any delay in, or inability to complete, the manufacture of the equipment or its delivery because of any of the following causes: Acts of God; acts of the public enemy; riot or civil commotion, government orders, rules, regulations, suspensions or requisitions of any kind, strikes or other stoppages of labor or shortage in the supply thereof, inability to obtain fuel, material or parts; fire, casualties or accidents, failure of shipping facilities, or any cause, whether of the same or a different character, beyond Austin-Mac, Inc.'s control. In such event, the time for delivery of the equipment shall be extended by a period equal to the time lost on account of any of the causes mentioned. Delay in delivery of any installment shall not relieve Buyer of its obligation to accept remaining deliveries.
- D. If a quotation provides for products to be custom made for special applications, the quoted price is applicable only where correct tolerance requirements are provided by the customer by print or sample part. If changes in fabrication or design are required by reason of incorrect tolerances furnished or deviations from prints or samples submitted, the cost of such changes shall be at the customer's expense and shall be added to the quoted price.
- E. If delays due to fault of Buyer exceed 60 days in the aggregate, the entire purchase price (less Austin-Mac, Inc.'s estimated cost for completing the contract, and less any partial payments theretofore made) shall be due and payable to Austin-Mac, Inc. on demand.

4. INSTALLATION

- A. All of the equipment specified herein shall be installed by buyer at Buyer's expense.
- B. Should Buyer desire and so request, Austin-Mac, Inc. will make available the services of a competent person to advise on the installation and/or first operation of the equipment specified. Buyer shall reimburse Austin-Mac, Inc. therefore at Austin-Mac, Inc.'s standard rate per standard working day, plus the applicable overtime rate for all time over standard

working hours in a standard work week, and for Saturdays, Sundays, and recognized Holidays, together with actual board and expenses including transportation to and from location of work and travel time. Payment for such service shall be made by Buyer within 30 days of date of invoice.

- C. Buyer shall hold Austin-Mac, Inc. free and harmless from all claims and losses arising out of injuries to persons, including Buyer's employees, and damage to property from fire or other cause resulting from any act of or omission to act of such person while on Buyer's property.
- D. Before shipment, Austin-Mac, Inc. will apply one coat of paint to all structural and plate work and will grease or oil all exposed finished machinery parts.
- E. Austin-Mac, Inc. will supply only such safety devices as are specified herein. In the event additional safety devices are required by law or by reason of Buyer's intended use, Austin-Mac, Inc. will, at Buyer's written request and expense, furnish them upon receipt of proper specification.

5. WARRANTY (2 YEAR)

Goods manufactured by Austin-Mac, Inc. shall conform to the description and specifications set out herein, shall be fit for the ordinary purposes for which such goods are used, and shall be free of defects in workmanship and material at time of shipment. We will correct any defect of materials or workmanship FOB our plant.

- A. This warranty shall not apply to any product which has been subjected to misuse; misapplication; neglect (including but not limited to improper maintenance and storage); accident; improper installation, modification (including but not limited to use of unauthorized parts or attachments), adjustment or repair, lack of or improper lubrication, deterioration by chemical action and wear caused by the presence of abrasive materials do not constitute defects, identifiable items manufactured by others but installed in or affixed to our products or resold are not warranted by us but bear only the express warranty, if any, of the manufacturers thereof.

THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OTHERWISE, EXCEPT OF TITLE WHICH EXTEND BEYOND THAT STATED ABOVE.

6. REMEDIES

- A. Repairs to, alteration of, or work done on equipment warranted hereunder without Austin-Mac, Inc.'s prior written authorization shall void all warranties applicable thereto.
- B. In no event shall Austin-Mac, Inc.'s liability exceed the purchase price of the non-conforming item.

7. CLAIMS

Austin-Mac, Inc. will consider no claims for shortage or errors unless made within 10 days from receipt of material.

8. BOXING AND CARTAGE

No charge is made for boxing or crating required by transportation company for domestic shipments. Cost of special boxing, export boxing, cartage to steamer or transfer expenses will be added to the invoice, unless such charges are shown to be included in the price quoted.

9. RETURNED GOODS

No goods will be accepted for return unless authorized in writing by Austin-Mac, Inc.

10. CANCELLATION

Suspension or cancellation of orders may be made only upon our written approval and on terms that will indemnify us against all loss.

11. ORDER ACCEPTANCE

Orders shall not be deemed accepted until approved in writing at our plant. Austin-Mac, Inc. reserves the right to refuse any order.

12. SPECIFICATIONS AND DRAWINGS

Specifications and drawings pertaining hereto are the property of Austin-Mac, Inc. and are subject to recall at any time before Buyer's acceptance hereof. They are not to be used for bidding or construction purposes nor disposed of to others without Austin-Mac, Inc.'s prior written approval, nor are they to be used directly or indirectly in any way detrimental to Austin-Mac, Inc.'s interest. Austin-Mac, Inc.'s patterns and or tools produced in connection herewith shall remain the property of Austin-Mac, Inc.

13. GENERAL

These terms and conditions are subject to change without notice.

SIGNATURE _____

DATE _____

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Engineering and External Affairs

SUBJECT: Pure Water Project Las Virgenes-Triunfo: Discussion of Architectural Theme for Advanced Water Purification Facility

SUMMARY:

At the March 4, 2024 JPA Board meeting, Director Len Polan requested a future agenda item to discuss the architectural theme for the Advanced Water Purification Facility that will be a key element of the Pure Water Project Las Virgenes-Triunfo.

Over the last three years, staff has been working with Jacobs Engineering (Jacobs), Owner's Advisor/Program Manager, to produce pre-planning documents and a Conceptual Design Report (CDR) for the Advanced Water Purification Facility (AWPF). As part of this effort, an architectural conceptual design and renderings were developed to visualize the facility and identify constraints for the final design to inform the work of the selected Progressive Design-Build (PDB) firm. This memorandum serves to facilitate the discussion by summarizing the preliminary architectural conceptual design, previous meetings, constraints and next steps for developing a final architectural design for the AWPF.

RECOMMENDATION(S):

Review and provide feedback on the architectural theme for the Advanced Water Purification Facility.

DISCUSSION:

Background:

On March 4, 2024, the JPA Board authorized a contract with the Walsh Team for the progressive design-build (PDB) of an Advanced Water Purification Facility (AWPF) and Reverse Osmosis Concentrate (ROC) Pipeline. The action marks a major milestone for the Pure Water Project Las Virgenes-Triunfo (PWP) as it begins the full design of the major components of the PWP. The selection of a PDB firm was preceded by years of planning and conceptual design by staff and the Owner's Advisor/Program Manager, Jacobs Engineering (Jacobs), defining the scope of the facilities and major design elements. To facilitate Board feedback, staff proposes to summarize the work done to-date on the architectural elements of the AWPF, including the constraints surrounding these elements and additional work that needs to be accomplished.

To select the most qualified PDB team, Jacobs developed design criteria and a conceptual

design for the AWPf that would allow the prospective PDB firms to prepare proposals and initial costs for delivering a 60 percent level of design and Guaranteed Maximum Price (GMP) for construction of the facilities. The pre-design process involved multiple workshops with all levels of staff representing both LVMWD and Triunfo Water & Sanitation District, the JPA Board and key project stakeholders (e.g. City of Agoura Hills representatives) to understand the key constraints and summarize those in a comprehensive Conceptual Design Report. The process was exhaustive and yielded a 10 percent level of design for the AWPf. The PDB method of delivering a program of this size and importance requires this level of pre-design work for a PDB Team to understand the needs of the PWP and develop an approach within the context of budget and schedule. However, the design is only taken to the 10 percent stage as PDB is a collaborative delivery approach and allows for many of the project elements to be defined and developed alongside the PDB team – not prior. Providing too many prescriptive elements defeats one of the main purposes and advantages of implementing the design-build procurement process.

The architectural character of the AWPf has always been a primary concern for staff and was the subject of a dedicated JPA Board workshop with many meetings thereafter. The architectural rendering developed by Jacobs' architect is meant to be conceptual in nature and confirm the feasibility of meeting all the design constraints associated with the project site. The ultimate facility will very likely take on a different character as more feedback is collected from staff, the JPA Board and project stakeholders. Also, the building layout is expected to be fine-tuned. The process of advancing the concept from 10 percent to 60 percent, and ultimately to a final design, will mean that the final facility will change from the renderings currently being used as a "starting point" to visualize the AWPf and invite further concepts or ideas.

Policy Principles:

When developing the architectural theme for the AWPf, staff and Jacobs began with the Guiding Principles that were adopted by the JPA Board when the AWPf site was acquired in 2018, as follows:

1. *Involve the City and the Community in the development and design of facilities.*
2. *Preserve the natural beauty of the site.*
3. *Reserve a portion of the property for public benefit in coordination with the City of Agoura Hills.*
4. *Minimize the impact to oak trees and other natural resources on the property.*
5. *Design the facilities with architecture compatible with the surrounding area.*
6. *Minimize the overall footprint of the facility.*
7. *Provide for the on-site treatment and/or capture of stormwater.*
8. *Keep the community and recreational users informed of any project-related activities that may affect them.*
9. *Minimize the potential for noise or light to emanate from the site.*
10. *Utilize renewable energy sources to offset demands at the site.*

City of Agoura Hills:

The City of Agoura Hills is a key stakeholder for the development of the architectural theme as the AWPf site is located within the City. The City's planning guidelines were used to inform the architectural criteria, specifically those of the Ladyface Mountain Specific Plan, which functions to achieve the following objectives:

1. *To ensure that all development at the base of Ladyface Mountain is compatible with the unique nature of this natural asset of the community.*
2. *To encourage the coordinated development of a mixture of business park, commercial and limited residential uses within the study area.*
3. *To encourage developers to address compatibility of proposed projects with infrastructure capacity.*

The plan includes many guidelines for development in this sensitive area, including among many others: fire safety, line of site from the street, cut and fill requirements, building placement, and “blocking” or breaking up walls to provide greater visual appeal. All of these factors were considered and informed the preliminary renderings and conceptual guidelines.

Meeting Summaries:

In addition to multiple meetings at the staff level with Jacobs and the architect, several major milestone meetings were also conducted to coordinate with the JPA Board and representatives of the City of Agoura Hills Planning Department.

Architectural Meetings with Staff and JPA Board:

- Building and Site Programming Kickoff – December 15, 2021 (Discussed architectural theme and presented initial renderings)
- Building and Site Programming Update – February 23, 2022 (Discussed revised architectural theme based on feedback and presented new renderings)
- JPA Board Special Session on Architecture – May 18, 2022
- Meeting between Jacobs’ architect and Director Polan held on April 20, 2023 and April 1, 2024

Public Agency Presentations:

- City of Agoura Hills (Planning Group Discussion) – December 6, 2021 (initial discussion on requirements)
- City of Agoura Hills and Westlake Village – July 13, 2022 (showed renderings to staff)
- City of Agoura Hills, City Council Update – August 24, 2022 (showed renderings)

Conceptual Guidelines:

Following is a summary of the key conceptual architectural guidelines provided to the PDB Team in the Conceptual Design Report for the AWPf:

Architectural Theme

The design of the facility should incorporate architectural attributes that evoke contemporary Mediterranean and Spanish building design prevalent in the general Project locale. Example attributes include:

- *Sloped red tile roofing*
- *Stucco wall finish*
- *Masonry walls*

- *Arched openings*
Divided lights
- *Outdoor space connected to interior space*

General Building Design

In general, building designs will accomplish the following:

- *Present a unifying theme and human scale of design, including:*
 - *Avoid long, blank walls. Public-facing facades will be stepped in both horizontal and vertical directions to prevent large, undifferentiated wall surfaces. The unbroken façade length will not exceed 100 feet.*
 - *Emphasize visitor entryways and plazas.*
- *Reinforce the City of Agoura Hills semirural residential, low-profile character, with the following façade requirements:*
 - *The building façade will include architectural treatments to enhance the architectural appearance of the building, including:*
 - *Exposed rafter tails*
 - *Awnings and projections*
 - *Variations in roof forms and roof heights*
 - *Arched openings*
 - *Façade composition will include a base, middle, and cap with emphasis on horizontality.*
- *Colors:*
 - *Use earth-toned, subdued colors. Generally, the exterior color scheme will use earth tones that blend with surrounding natural landscape, including off-whites, siennas, umbers, beiges, tans, and browns.*
 - *Do not use reflective, bright, or shiny surfaces and colors.*
- *Use textured, natural-appearing finishes.*
- *Use windows for daylighting and to articulate the building façade.*

Major Exterior Material Systems

Generally, exterior materials and finishes should be selected for the following considerations:

- *Durability*
- *Low maintenance*
- *Fire and corrosion resistance*
- *Structural efficiency*
- *Ability to be aesthetically integrated throughout the facility*

Next Steps and Other Considerations:

During procurement of the PDB Team, the prospective firms were asked to provide an approach for the delivery of the project and to identify key team members. All three teams put forward strong architectural credentials and team members, and their ideas for maximizing the site layout and architectural theme were important factors to final selection.

The successful Walsh Team partnered with RRM Design Group (RRM), a company with extensive local experience and a long resume of major projects including the Oxnard

Advanced Water Purification Facility. RRM will incorporate feedback from the JPA Board on the architectural element of the AWPf. It will be important to the schedule for the project that RRM balance cost considerations with feedback on the architectural elements of the AWPf as the choices made during the first phase of the PDB process will affect the GMP. If the cost becomes too high, it could trigger a six-plus month re-design process that could have irreversible effects on the JPA meeting the regulatory deadline driving the project. This challenge has affected other similar projects in the region but can be avoided through strong partnering, clear guidelines and collaborative development of the facility design.

The JPA Board should also be aware that staff is aiming to remain cognizant of past experiences when public or ratepayer-funded buildings are perceived to be too elaborate. For example, LVMWD received criticism when its Headquarters building was constructed in 1994 as it was cited by some as being too ornate. In some instances, public perception can be an important factor even when the added costs are minimal in context to the total building cost. On the other hand, the AWPf cannot be an eyesore either. Striking the right balance should be the objective.

The Walsh Team will work with the JPA to engage stakeholders and refine the conceptual design provided to them. There will be multiple opportunities for staff, the JPA Board and stakeholders to weigh-in on architectural concepts that are developed and refined over the course of the next one to two years, leading up to the GMP. Staff has a high level of confidence that the RRM team can bring their unique experience to bear for the AWPf and that the Walsh Team will engage staff, stakeholders and the JPA Board as they develop the final design of the AWPf. Staff will ensure that opportunities to engage the Board for further input on these architectural elements are considered through architectural workshops and that final renderings be presented to the Board for consideration before final approval.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Oliver Slosser, Engineering Program Manager

ATTACHMENTS:

[Presentation on Architectural Theme for Advanced Water Purification Facility](#)



PURE WATER PROJECT
LAS VIRGENES-TRIUNFO
Bringing Our Water Full Circle

Las Virgenes-Triunfo JPA Strategic Planning Workshop

May 18, 2022

**Advanced Water Purification Facility
Architectural Theme**

Agenda

- Introductions
- Overview
- Architectural Guidance from Local Ordinances
- Architectural Renderings



PURE WATER PROJECT
LAS VIRGENES-TRIUNFO

Bringing Our Water Full Circle

Overview

Purpose

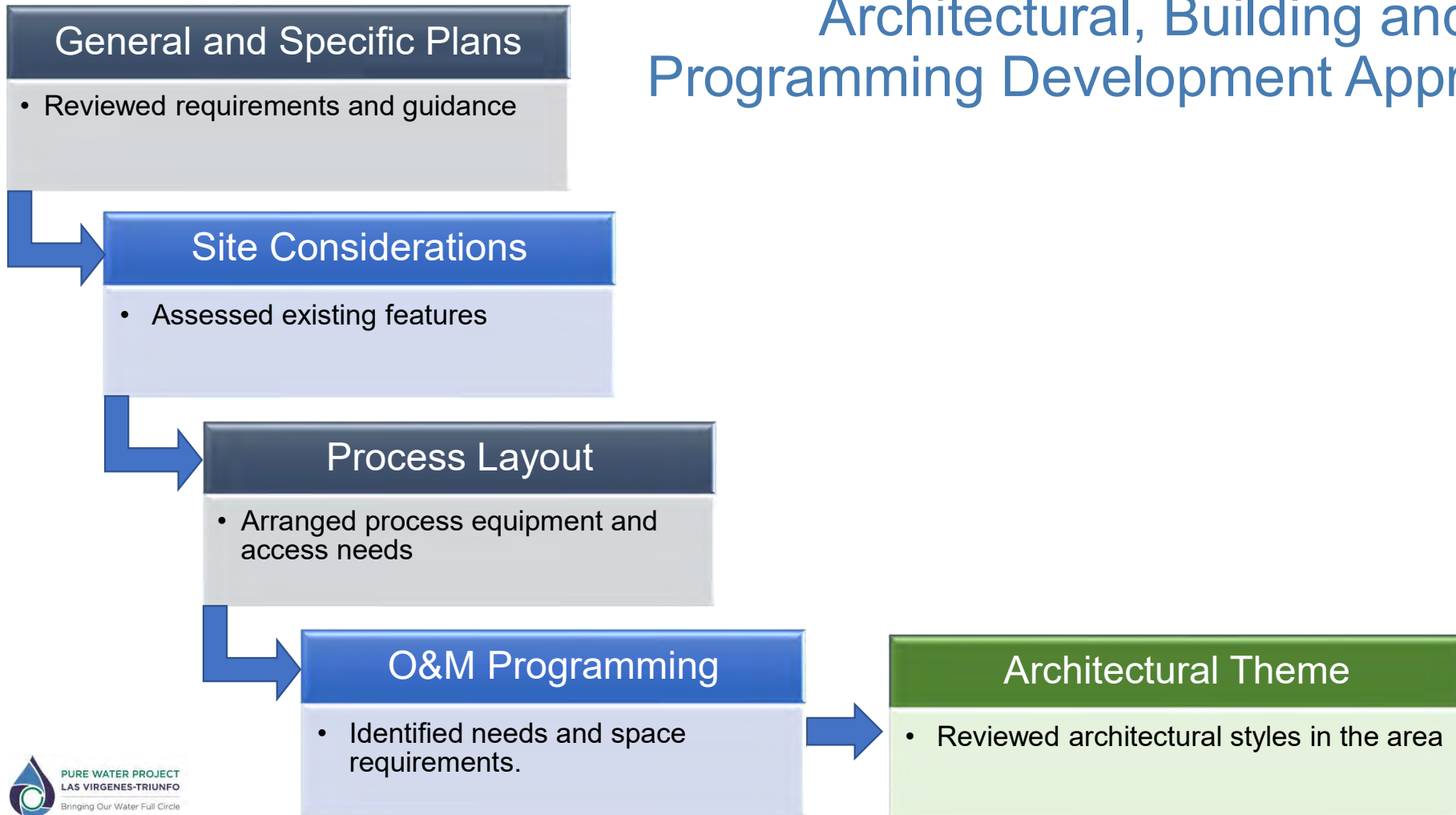
- Support Conceptual Design

- *Confirm viable layout to accommodate process and non-process space needs*
- *Define elements to complete environmental review*
- *Establish project budget*
- *Develop design baseline for Design Builder*

- Review Renderings

- *Agoura Road Site*
- *Las Virgenes Reservoir Site*

Architectural, Building and Site Programming Development Approach





PURE WATER PROJECT
LAS VIRGENES-TRIUNFO
Bringing Our Water Full Circle

Architectural Guidance from Local Ordinances

Architectural Guidance from Local Ordinances

- Ladyface Mountain Specific Plan (Business Park Land Use)
 - Architectural "concept" guidelines are in Chapter III, Section C
- Agoura Hills Architectural Design Standards & Guidelines
 - Building design requirements are in Section III

Architectural Guidance from Local Ordinances

- Agoura Hills Architectural Design Standards & Guidelines – From Website
 - "While specific architectural styles are not dictated by the city and creative design is encouraged, architects and landscape architects are expected to incorporate into their designs the following:
 - Harmony with the natural landforms and native vegetation
 - Responsiveness to climate through proper building orientation, appropriate glazing, use of overhangs, shading devices, pergolas, etc.
 - Reflection of the highest standards in architectural design and style, proportions, colors and materials.
 - Compatibility with the design and form of adjacent buildings and the neighborhood."

Architectural Guidance from Local Ordinances

- Agoura Hills Architectural Design Standards & Guidelines – From Website

- **The following are acceptable:**

- Designs which take advantage of rather than altering natural landforms
- In larger projects, a unifying theme and a human scale of design
- Designs that reinforce the City's semirural residential, low profile character
- Earth toned, subdued colors
- Textured, natural-appearing finishes
- Landscaping that preserves native oak trees and uses native, drought-resistant plantings

- **Not acceptable are:**

- Massive grading
- Boxy buildings with no recognizable architectural style
- Long blank walls
- Standardized "national chain" designs
- Reflective, shiny surfaces, except as accents
- Bright or neon colors, except as accents



PURE WATER PROJECT
LAS VIRGENES-TRIUNFO

Bringing Our Water Full Circle

Architectural Renderings

AWPF at Agoura Road Site





AWPF at Agoura Road

AWPF at Agoura Road Site



AWPF at Agoura Road Site



AWPF at Agoura Road Site



AWPF at Agoura Road Site



AWPF at Agoura Road Site





AWPF at Agoura
Road Site



AWPF at Agoura Road Site



Thank You

DATE: April 8, 2024
TO: JPA Board of Directors
FROM: Finance and Administration

SUBJECT: Annual Supply and Delivery of Polymer: Award

On March 19, 2024, the LVMWD Board, acting as Administering Agent of the JPA, authorized the General Manager to accept a bid and approve a purchase order with Solenis, LLC, in the amount of \$215,824.50, with four one-year renewal options for the annual supply and delivery of polymer.

SUMMARY:

On January 16, 2024, a Request for Bids was released for the annual supply and delivery of polymer to establish an annual purchase order with four one-year renewal options. Polymer is used to enhance the separation of liquids and solids during the dewatering process at the Rancho Las Virgenes Composting Facility. The annual expense for the product is estimated to be \$215,824.50. Staff recommended accepting the bid from Solenis, LLC, and authorize a new purchase order, in the amount of \$215,824.50 with four one-year renewal options.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total estimated annual cost for polymer is \$215,824.50. Sufficient funds are available for polymer in the current adopted Fiscal Year 2023-24 JPA Budget and will be proposed in future fiscal year budgets. Pricing for renewal options would be based on a mutually-agreeable inflationary factor such as the Producer Price Index for chemicals and allied products.

DISCUSSION:

On January 16, 2024, a formal Request for Bids was issued for the annual supply and delivery of polymer. On February 15, 2024, an addendum was issued extending the delivery requirement from two to five business days. The Request for Bids was posted on the District's website and sent to eight vendors that previously expressed interest in chemical bids. Four responses were received with bids submitted by three of the four firms. Three bids were

received and publicly opened on February 22, 2024. Solenis, LLC, submitted the lowest responsible bid in the amount of \$1.46 per pound. Staff estimates a total annual need for 135,000 pounds, resulting in a cost of \$215,824.50 including applicable taxes. In compliance with the Instructions to Bidders, the award is recommended based on total estimated annual cost. The proposed inflationary factor was a consideration, but it was not used as the basis for award. Attached for reference is a copy of the bid from Solenis, LLC.

Bid Summary:

Bidder	Unit Price (\$/pound)	Bid Total
Solenis, LLC	\$1.46	\$215,824.50
SNF/Polydyne, Inc.	\$1.53	\$226,172.25
Univar Solutions USA, LLC	\$1.88	\$277,911.00

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Liz Smith, Purchasing Supervisor

ATTACHMENTS:

[Bid by Solenis, LLC](#)

**Request for Information “RFI” Summary
Las Virgenes Municipal Water District
Request for Bids
Polymer-February 2024**

The Request for Information period for the District’s “Polymer” Request for Bids “RFB” is now closed. One RFI were received and one addendum was issued and posted on the Districts web site, www.LVMWD.com . Per the Request for Bids, other than directing a bidder to a specific segment of the RFB documents, questions received after the RFI period has ended will not be answered. Below is a summary of the RFI received and the District’s response. This information is hereby made part of the RFB documents.

Q1. “Delivery, via truck transfer trailer load, is required within 2 business days (Monday-Friday) after receipt of District’s order release.” This bulk delivery requirement is VERY aggressive. If deliveries are once per quarter why would the facility wait until 2-days before needing delivery to make this request. How flexible is this constraint? 1/19/24

A1a. *Bid Scope & Specifications, Item 3.b. Delivery* shall be modified to read as follows. “Delivery, via truck transfer trailer load, is required within 5 business days (Monday-Friday) after receipt of District’s order release.” (addendum pending)

Q2. Can you also please supply bid tabulation/summary result for the previous polymer bid? 1/19/24

A2. See bid results below from March 7, 2019.

Bidder	Unit Price (\$/pound)	Bid Total
Polydyne, Inc.	\$1.10	\$162,607.50
Solenis	\$1.55	\$229,128.75
Univar	No Bid	N/A

Q3. Who is the current provider? 2/2/24

A3. Polydyne, Inc.

Q4. What is the product name currently being used?? 2/2/24

A4. CLARIFLOC WE-1295

Q5. What is the current cost/Lb.? 2/2/24

A5. \$1.49/Lb

Q6. Will there be a public bid opening on 2/22/24@2pm? Just in case, where is the location of the public bid opening? 02/13/24

A6. Vendors are welcome to attend the bid opening at our main headquarters located at 4232 Las Virgenes Road, Calabasas, CA. Results will be publicly posted by end of day Friday, 2/23/24. Preliminary bid results are subject to staff review and final Board approval.



Request for Bids

Polymer
Annual Supply

January 2024

Las Virgenes Water District
4232 Las Virgenes Road
Calabasas, CA 91302
818-251-2115

Request for Information Deadline: Feb. 15, 2024
Bids Due: February 22, 2024; 2:00 p.m.

Las Virgenes Municipal Water District Instructions to Bidders

1. **Introduction.** Each bidder and its bid shall comply with these instructions to bidders and the terms and conditions provided with the bid documents.
2. **District Contact.** During the bid process the District contact will be the District Purchasing Supervisor: Liz Smith, 4232 Las Virgenes Road, Calabasas, CA 91302, lsmith@lvmwd.com e-mail, 818-251-2115 phone. Any questions, technical or otherwise, pertaining to this bid must be submitted in writing and directed only to the listed District contact. Bidders, their representatives, agents or anyone else acting on their behalf are specifically directed NOT to contact any District employee, board member, or other agency associate for any purpose related to this request for bid other than as directed above. **Contact with anyone other than as directed above may be just cause for rejection of bid.**
3. **Requests for Information and Notifications.** All requests for information (RFI) regarding this bid must be directed to District Contact listed above and received in writing no later than Feb. 15, 2024. Requests will be addressed within 2 business days of receipt. At the end of the RFI period a summary of all RFI and responses will be posted at: <https://www.lvmwd.com/the-district/departments/finance-and-administration/finance/purchasing/purchasing-formal-bids>
4. **It is the bidder's responsibility to ensure they access and review any RFI responses and resulting addendum(s) posted.** The District is not responsible to notify individual potential bidders of the availability of RFI responses and/or resulting addendum(s) beyond this notice. The District is not responsible for lost or misdirected e-mail communications. Other than directing a bidder to a specific segment of the bid documents, questions received after the RFI period has ended will not be answered.
5. **Submission of Bids.** Sealed bids are to be submitted only on the prescribed Las Virgenes Municipal Water District Bid Forms included as part of this bid package and described in the Request for Bids and must be submitted in hard copy format with a wet signature. **Bid submission deadline is Thursday, February 22, 2024; 2:00 p.m.** Bids shall be addressed and delivered to: Las Virgenes Municipal Water District, Attn: Liz Smith, 4232 Las Virgenes Road, Calabasas, CA 91302, and clearly marked "**Sealed Bid—Polymer**" on outside of envelope. **FAXED OR E-MAILED BIDS WILL NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.** Bidders are required to submit the following information with their bid:
 - a. Completed Bid Form-Schedule (3 pages)
 - b. Renewal Inflation Indicator
 - c. Contact information for three public entities the bidder is currently supplying with Polymer
 - d. Product information/technical data sheet
 - e. Global Harmonized System-Safety Data Sheet (GHS-SDS)Bid forms can be downloaded from the District's web site: <https://www.lvmwd.com/the-district/departments/finance-and-administration/finance/purchasing/purchasing-formal-bids>
6. **Modification of Bids.** A bidder may modify its bid by written communications provided such communication is received by the District prior to the closing time for receipt of bids. The written communication must not reveal the bid price but should state the addition or subtraction or other modification in such a manner that the District will not know the final prices or terms until it opens the sealed bid.
7. **Withdrawal and Return of bids.** Bids may be withdrawn without prejudice by written or telegraphic requests received from the bidder prior to the time for opening of bids, and bids so withdrawn will be returned to bidders unopened. Any bid received after the bid submission deadline shall be returned to the bidder unopened.
8. **Discrepancies.** In the case of discrepancy between unit prices and extended totals, unit prices will prevail. In the case of discrepancy between words and figures, words will prevail.
9. **Pricing.** Both unit and extended pricing shall be shown in U.S. dollar amounts with two decimal places rounded to the nearest cent.
10. **Award of Bid.**

Las Virgenes Municipal Water District Instructions to Bidders

- a. The District reserves the right to accept or reject any and all bids during the time for awarding the contract, and to waive any informality or irregularity in any bid. The District may reject any bid that does not comply with these instructions or other bid documents.
- b. Award shall be made on a comprehensive basis based on total estimated annual cost. At the District's discretion, Inflation indicator may be a consideration in final award.
- c. The award of the bid, if it is awarded, shall be to the lowest responsible responsive bidder whose bid complies with the requirements of the bid documents. Bidder responsibility is determined solely by the District.
- d. It is expected that bids will be considered by the District at the regularly scheduled Board Meeting on March 19, 2024. Notice of Award, if any will occur within seven business days following the meeting. Accompanying the District's Notice of Award will be a purchase order. The successful bidder will be required to send an order acceptance to the District within seven days following receipt of Notice of Award. Failure to do so shall be just cause for annulment of the award. In the event of failure of the lowest responsible responsive bidder to provide order confirmation to the District, the District may award to the next lowest responsible responsive bidder.

11. Insurance Requirements. Bidder at its' sole cost and expense shall procure and maintain for the duration of the project the following types and minimum limits of insurance: *Strike through unnecessary coverage*

Type	Limits	Scope
General Liability (GL)	\$1,000,000 per occurrence/ \$2,000,000 aggregate	At least as broad as ISO occurrence from CG 0001
Product Liability	\$1,000,000 per occurrence/ \$2,000,000 aggregate	
Automotive Liability	\$1,000,000 per accident	At least as broad as ISO CA 0001 (code 1, any auto)
Workers Compensation	CA Statutory limits	
Employers' Liability	\$1,000,000 per occurrence	

- a. The general and automobile liability policy(ies) shall be endorsed (consistent with Ins. Code 11580.04) to name District, its officers, employees, and agents as additional insured regarding liability arising out of the Work. Bidder's coverage shall be primary and shall apply separately to each insurer subject to a claim or lawsuit, except with respect to the limits of the insurer's liability. District's insurance if any, shall be excess and shall not contribute with Bidder's insurance.
- b. Prior to commencing the Work, Bidder shall provide to District the following proof of insurance: (a) certificate(s) of insurance on ACORD Form 25-S (or insurer's equivalent) evidencing the required insurance coverages; and (b) endorsement(s) on ISO Form CG 2010 (or insurer's equivalent), signed by a person authorized to bind coverage on behalf of the insurer(s), certifying the additional insured coverages.

12. Non Collusion. The bidder certifies that its bid is made without any previous understanding, agreement or connection with any person, firm or corporation making a bid for the same product as is in all respects fair, without outside control, collusion, fraud or otherwise illegal action.

13. Bid Specifications. The attached specifications are intended to be descriptive of the type and quality of product the District desires to purchase. Any exceptions or substitutions to the Bid Scope & Specification must be clearly noted on Bid-Form Schedule. District reserves the right to determine if products meet equal value. Bidders will not be allowed to make unauthorized substitutions after award is made.

Las Virgenes Municipal Water District Instructions to Bidders

- 14. Confidential Information.** Bids containing confidential proprietary technical information or trade secrets which if publicly disclosed may cause substantial injury to the Bidder's competitive position must be clearly noted. It is the bidder's responsibility to clearly note any confidential design information as such.
- 15. Pre-bid Inspection.** N/A
- 16. Subcontractors.** Subject to District approval subcontractors may be allowed. Subcontractors used for more than half of 1% of the contract amount must be disclosed in the 'Notes or Exceptions' section of *Bid-Form Schedule* at time of bid submittal. Subcontractors shall be the sole responsibility of the Bidder, not the District.
- 17. Inflation Indicator.** Bidder must list a specific set inflation indicator for annual renewal periods or state none in area provided on the bid-form schedule. Inflation indicator may be a flat percentage or based on a specific nationally published indicator(s) such as a Bureau of Labor Statistics Consumer Price Index or Producer Price Index. Renewals shall be based on listed indicator.
- 18. Special Conditions.**
- a. Bid prices shall be F.O.B. Destination, Freight Pre-paid and allowed to Rancho Las Virgenes Composting Facility , 3700 Las Virgenes Road, Calabasas, CA 91302, or other designated address within the District's service area. Refer to *Bid Scope & Specifications, Additional Conditions, 3. Delivery* for more detailed information.
 - b. Any and all related fees associated with this bid shall be included in Bid Form-Schedule and extended bid total submitted by bidder. The District is located in Los Angeles County which, as of the date of this invitation to bid, has a sales tax rate of 9.5%.
 - i. It is the bidder's responsibility to list all regulatory fees and taxes in the area provided on the bid schedule that may affect the pricing during the contract period.
 - c. Any exceptions or modifications to the Bid Scope & Specifications or District's Standard Purchase Order Terms and Conditions (Exhibit A) proposed by bidder must be clearly noted in area provided on Bid-Form Schedule.
 - d. District has 90 days from the bid due date to accept bid pricing.
- 19. Pre-bid Jar Testing.** Bidders will be allowed to conduct optional pre-bid jar testing to determine the best product and concentration to propose. Jar testing may be scheduled on Feb. 6 or 8, 2024. An appointment is required to conduct pre-bid jar testing. Appointments must be scheduled with the District Contact listed above in Instructions to Bidders Item 2. Bidder must provide their own equipment to conduct jar testing.

**Las Virgenes Municipal Water District
Bid Form-Schedule
Polymer**

The undersigned states and declares as follows: that the bidder has carefully read and examined the Bid Documents; Bid Notice; Instruction to Bidders; Bid Specifications including exhibits; Bid Form-Schedule; and that the bidder will comply with the bid terms and conditions. The undersigned agrees to supply and deliver materials in strict conformity with the specifications and instructions enclosed with the Invitation for Bids for the prices set forth below in this bid schedule.

It is understood that this bid shall remain open and shall not be withdrawn for a period of ninety (90) days from the date prescribed for the opening of the bid.

It is further agreed that the materials/services to be furnished under this bid shall be delivered at such time and in such quantities as called for by the Las Virgenes Municipal Water District. The District may extend the term of this contract by written notice to the supplier at the end of the contract period.

CONTRACT TERM as follows: initial contract term shall be good for one (1) year from date of contract execution. Four (4) additional one (1) year renewals may be negotiated at the District's option.

Materials to be furnished under this bid shall be delivered FOB Destination Freight Pre-Paid and Allowed to Las Virgenes Municipal Water District's Rancho Las Virgenes Composting Facility located at 3700 Las Virgenes Road, Calabasas, CA 91302 in the manner set forth in the Bid Scope and Specifications.

All bidders are required to submit the following information with their bid

- Completed Bid Form-Schedule (3 pages)
- Inflation Indicator
- Contact information for three public entities the bidder is currently supplying with Polymer
- Product information/technical data sheet
- Global Harmonized System-Safety Data Sheet (GHS-SDS)

The bidder's authorized officer identified below hereby declares that the representations in this bid are true and correct and of my own personal knowledge, and that these representations are made under penalty of perjury under the laws of the State of California, and that I am duly authorized to bind this bidder to this bid.

>>>continued on next page<<<

Bid Item No.	Quantity	Unit of Measure UOM	Description (Refer to Bid Scope & Specifications for detailed description)	Unit Price	Extended Price
1.	135,000	pounds	Polymer Zetag 8818 Bulk	\$1.46/LB	\$197,100.00
			Sales Tax	9.5%	\$215,824.50
			Total Bid		\$215,824.50

Written Total Bid Amount:

Two Hundred Fifteen Thousand, Eight Hundred Twenty Four Dollars and Fifty Cents

State Inflation Indicator (refer to Instructions to Bidders Item 16 for details):

PCU324199324199
PPI industry data for All other petroleum and coal products mfg., not seasonally adjusted
As published by the Bureau of Labor Statistics

Notes or Exceptions:

Addendum Acknowledgement (if applicable):

Addendum #1

Signed: Wandy J Mueller

Addendum #2

Signed: _____

Addendum #3

Signed: _____

>>>continued on next page<<<

Bidder:

Solenis LLC February 19, 2024
Corporate Name of Bidder Date

By: *Wendy S Mueller* Title: Regional Pricing Director
Authorized Signature

Wendy S. Mueller bidders@solenis.com
Print Name E-mail

2475 Pinnacle Drive 302-502-0802
Phone

Wilmington, DE 19803 _____
Address Mobile

Las Virgenes Municipal Water District Polymer—Annual Supply

Overview:

The Las Virgenes Municipal Water District (District) serves the western edge of Los Angeles County including the cities of Agoura Hills, Calabasas, Hidden Hills and Westlake Village. The District occupies 122 square miles and services a population of approximately 70,000. The District provides potable water, recycled water, and sanitation (wastewater) services to its customers through three separate enterprise funds. The sanitation and recycled water services are provided through a Joint Powers Authority with the Triunfo Sanitation District.

Las Virgenes Municipal Water District is organized under the Municipal Water District Act of 1911 (California Water Code 7100). A five-member board of directors, each elected by geographic divisions, provides governance. Directors serve overlapping four-year terms, and every two years - concurrent with installation of the newly elected board – they select board officers. The board also selects a local representative from LVMWD to serve on the Board of Directors of the Metropolitan Water District of Southern California.

The District is seeking bids for an annual contract for the supply and delivery of liquid polymer to its Rancho Las Virgenes Composting facility. Initial purchase order contract period will be for one (1) year with four (4) possible one (1) year renewal periods at the District's option. Product will be purchased on an as needed basis throughout the contract period. The purpose of this bid is to ensure set pricing for the duration of the contract period, allow for expedited delivery upon order release, and secure a quantity discount.

General Information:

The District uses polymer to enhance the liquid and solids separation during the dewatering process. Orders for bulk truck transfer trailer loads, averaging 45,000 pounds per load, are required throughout the year. It is estimated a delivery will be requested once every 4 months. The intent of this bid is to establish an annual purchase order "PO" contract with four possible one-year renewals to ensure favorable pricing based on total volume. Order releases will be made by District staff throughout the course of the PO contract period.

Quantity:

Projected annual quantity is 135,000 pounds. Stated quantity is an estimated amount, subject to change, and not guaranteed.

Unit of Measure:

Unit of measure shall be pound (wet weight)

Specifications:

- Emulsion/dispersion liquid polymer, suitable for centrifuge thickening and dewatering of anaerobically digested waste
- Performance criteria: 22% cake minimum, 90% capture minimum, 600 mg/l centrate maximum (lower is better)

- Storage Criteria: Shelf life of 12 months with no mixing/recirculation requirements; delivered directly into two 5,000-gallon storage tanks; fire hazard rating shall be suitable for bulk storage in existing tanks without the need of a fire suppression system.

Additional Description:

- The sludge feed to centrifuge is 200 gpm to 250 gpm.
- The polymer dosage range is between 4.4 to 6.0 gallons per hour with a reclaimed water dilution factor of 500 to 700 per hour.

Additional Conditions:

1. Optional Pre-Bid Jar Testing: In order to allow bidders an opportunity to identify the optimal product and dosing to propose the District will allow bidders to conduct on-site bench scale pre-bid jar testing. Appointments for jar testing will be scheduled for February 6 or 8, 2024. Appointments must be scheduled with the listed District contact. Do not contact other District staff to arrange for jar testing or visit the facility without an appointment. Bidders may conduct a bench-scale sludge jar test for each liquid polymer they are considering for dewatering ability evaluation. The bidder is to select the method it deems most appropriate, provide any necessary apparatus and staff to perform the test. The District is not responsible for pre-bid jar testing.
2. Samples: Prior to award of bid, apparent low Bidder may be required to provide samples for testing to ensure proposed product meets District process requirements and specifications. District staff may perform laboratory analysis to evaluate the polymer cake solids and capture as well as the centrate for suspended solids.
 - a. Full-scale performance test may be conducted by District staff without the presence of the bidder.
 - b. Upon request bidder must provide sufficient polymer for a one-day (8-hour) dewatering run at 250 gallons per minute of anaerobically digested sludge at 1-2% solid, approximately 5 dry tons.
 - c. Current GH-SDS must be provided with sample.
 - d. District shall pay for polymer consumed during test at the unit price bid and use all acceptable product.
 - e. Upon completion of testing all temporary storage containers and any unacceptable product shall be removed by Bidder at Bidder's expense.
3. Delivery:
 - a. Stated unit price must include delivery to the District's Rancho Las Virgenes Composting Facility located at 3700 Las Virgenes Road, Calabasas, CA 91302
 - b. Delivery, via truck transfer trailer load, is required within 2 business days (Monday-Friday) after receipt of District's order release.
 - c. Delivery shall occur during off-peak hours of 8:00 a.m. to 4:00 p.m. and must be coordinated with facility operations personnel.
 - d. Delivery vehicle shall be in good condition and operated by supplier. Vehicle shall conform to all applicable state, federal, and local regulations. Vehicle must be fully maintained and be able to safely transport and deliver chemical.
 - e. Delivery driver shall be trained and experienced in handling the chemical, including being trained to stop chemical flow in the event of an emergency. Proof of this

- training and experience may be required by the District at any time during the contract period. Delivery vehicle must contain appropriate emergency spill response kit.
- f. Posted speed limit at delivery location shall be observed at all times.
 - g. Supplier is responsible for pumping unit and piping to permit safe transfer of chemical to District's stationary bulk container/tank/holding facility. Any needed hoses, fittings, and other appurtenances shall be provided by supplier in good working condition and absent of any leaks. Three inch female camlock is required for delivery hose connection.
 - h. Discharge point of delivery vehicle shall be in rear of delivery vehicle to allow for complete discharge of product from the vehicle without the need for the delivery vehicle to be completely level.
 - i. Unloading at time of delivery shall be done in a safe manner in the presence of a District plant operator. Appropriate protective clothing shall be worn and safe practices and procedures shall be followed at all times.
 - j. Product will not be considered delivered and title will not transfer until it has been safely off loaded into the District's stationary container/tank/holding facility by supplier.
4. Documentation: Bidder must include the following documentation, attached to or listed on the bid schedule. Upon award this information must be provided with each individual delivery:
 - a. Name and location of polymer manufacturer
 - b. Manufacturer product name and number
 - c. Manufacturer's certification stating standard active content of polymer
 - d. Standard viscosity of polymer
 5. Quantity:
 - a. Quantity listed in Bid Scope & Specifications is an estimate; bid pricing shall remain firm while actual quantity will vary. No minimum is guaranteed.
 - b. Quantity shall be determined by empty and full weight certificates generated at the supplier's location on a certified truck scale. Copies of weighmasters's certificates must be provided for each delivery with a Bill of Lading/Packing List at time of delivery.
 6. Order Releases: Orders shall be released on an as needed basis by designated District staff. Typically order releases occur once every 3-4 months.
 7. Unit of Measure: Unit of measure on bid form-schedule is pound; unit cost shall include all aspects listed in these Bid Scope and Specifications.
 8. Invoice: A separate invoice is required for each delivery. Invoices shall be paid within 30 days of receipt of correctly prepared invoice or receipt of the product, whichever is later.
 9. Pricing: All orders placed during the contract period shall receive contract pricing. Orders released at end of contract period shall receive pricing as of that day.
 10. Sales Tax: Product is subject to California Sales & Use Tax.
 11. Regulatory Guidelines: Supplier must comply with all federal, local, state, and other governing body regulatory guidelines applicable to the supply and delivery of this product at all times.

12. Compliance: District may require supplier to furnish an affidavit of product compliance with the specifications, a certified chemical analysis, and preventative maintenance schedule of delivery truck unloading compressor at any time during the contract period.
13. Contract: Refer to Exhibit A for the District's standard purchase order terms and conditions. An annual purchase order contract will be issued to the successful bidder Any exceptions to the contract must be clearly noted in exceptions section of the Bid Form-Schedule.
14. Emergency Contact: Supplier must provide a 24 hour emergency contact phone number to the District for emergency orders.

Purchase Order Terms and Conditions

1. **Acceptance.** By accepting this Purchase Order, Vendor agrees to comply with these terms and conditions. Vendor shall sell and deliver, and Las Virgenes Municipal Water District (the "District") shall purchase, the goods, material and/or items described above (the "Goods"). The Goods must comply with this Purchase Order and the notice inviting bids and information to bidders, (if any). The Goods shall be new (unless stated otherwise on this Purchase Order), sold and purchased at prices set forth above.
2. **Delivery.** Vendor's carrier shall deliver the Goods FOB at the location set forth above. Vendor to pay all freight costs unless otherwise noted on front of Purchase Order; FOB Destination Freight Prepaid and Allowed. Goods shall be delivered no later than the date set forth above. Time is of the essence. Any delivery of Goods prior to issuance of a Purchase Order shall be at the Vendors sole risk. The District will not be obligated to return or pay for any Goods delivered without a Purchase Order. It will be the Vendors responsibility to pick up any Goods delivered without a Purchase Order.
3. **Compliance with Law.** The design and manufacture of the Goods shall comply with all applicable federal, state and local laws and regulations.
4. **Governing Law.** This Agreement shall be construed in accordance with and governed by the laws of the State of California.
5. **Risk of Loss.** Vendor shall bear the risk of loss of or damage to Goods until such time as District takes actual possession of Goods by moving them from the point of delivery.
6. **Substitutions.** No substitution will be permitted without the written consent of District. If Vendor proposes any substitution, Vendor guarantees that the substitution is equal in quality, capacity, durability, ease of maintenance, and ease of installation to the Goods originally specified.
7. **Changes.** District, by written order, may delete Goods to be supplied under this Purchase Order, and the Purchase Order price will be equitably reduced and the Purchase Order shall be modified in writing accordingly. District, by written order, may order an increase in Goods to be supplied, and the Purchase Order price will be equitably increased. If unit prices are stated, the reduction or increase shall be calculated at the unit prices stated in the Purchase Order. If no unit prices are stated, Vendor shall promptly, at the request of District, quote prices, and District shall promptly accept or reject the quote.
8. **Blanket or Annual Purchase Orders.** For Blanket or Annual Purchase Orders, the quantity amounts reflect estimated needs of the District for the term of the order and actual quantity purchased may vary higher or lower.
9. **Inspection and Testing.** All Goods will be subject to final inspection and approval after delivery. Payment for the Goods will not constitute final acceptance. Vendor at its cost shall remove and replace any Goods that District designates as nonconforming or defective. District's failure to inspect does not relieve Seller of any responsibility to perform according to the terms of the Purchase Order.
10. **Indemnification.** Vendor shall indemnify, defend, protect, and hold harmless District, and its officers, employees, volunteers and agents from and against any and all liability, losses, claims, damages, expenses, demands, lawsuits, administrative proceedings, arbitrations, and costs (including, but not limited to, attorney, expert witness and consultant fees, and litigation costs) of every nature arising out of breach of this Purchase Order or negligent or wrongful act of Vendor. This indemnification provision shall not apply to claims, liability, loss or damage caused by the sole negligence or willful misconduct of District.
11. **Warranty.** Vendor warrants that all Goods and related services to be supplied by it under this Purchase Order are fit and sufficient for the purpose intended; that all Goods and related services will conform to the specifications, drawing samples or other descriptions specified by the District; that the Goods are new, merchantable, good quality and free from defects (whether patent or latent) in material and workmanship; that all workmanship and Goods to be provided are of the best grade and quality; and, that it has good and clear title to all Goods to be supplied by it and the same are free and clear from all liens, encumbrances and security interests. For a period of one year after delivery of the Goods, Vendor shall at its own expense replace or repair defective Goods at the request of District.
12. **Payment.** Payment will be made within 30 days after receipt of a properly prepared invoice or receipt of goods, whichever is later. District may withhold 10% of the price until the Goods are installed, tested, and operating. District shall pay all applicable sales and use taxes. The District is not responsible for payment of any Good delivered without a valid Purchase Order in effect.
13. **Force Majeure.** Except for defaults of Seller's subcontractors at any tier, neither District nor Vendor shall be liable for any failure to perform due to any cause beyond their reasonable control and without their fault or negligence. Such causes include, but are not limited to, acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, terrorism, quarantine restrictions, strikes, freight embargoes, and unusually severe weather. In the event that performance of this Purchase Order is hindered, delayed or adversely affected by causes of the type described above ("Force Majeure"), then the party whose performance is so affected shall so notify the other party's authorized representative in writing and, at District's option, this Purchase Order shall be completed with such adjustments as are reasonably required by the existence of Force Majeure or this Purchase Order may be terminated for convenience.
14. **Termination.** District may terminate this Purchase Order at any time with or without cause and such termination shall not constitute default. In the event of partial termination, Vendor is not excused from performance of the non-terminated balance of work under this Purchase Order. The District shall pay the vendor for any portion of the order that is completed prior to termination.
15. **Integration.** This Purchase Order constitutes the sole, final, complete, exclusive and integrated expression and statement of the terms of this contract among the parties concerning the subject matter addressed herein, and supersedes all prior and contemporaneous negotiations, representations and agreements, either oral or written, that may be related to the subject matter of this Purchase Order, except those other documents that are expressly referenced in this Purchase Order.
16. **Severability.** If any provision of this Agreement shall be deemed to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.
17. **Waiver.** The waiver at any time by any party of its rights with respect to a default or other matter arising in connection with this Purchase Order shall not be deemed a waiver with respect to any subsequent default or matter. No payment by District to Vendor shall be considered or construed to be an approval or acceptance of any defective goods or any other breach or default.
18. **Attorney's Fees.** In the event any legal action is brought to enforce or construe this Purchase Order, the prevailing party shall be entitled to an award of reasonable attorney's fees, expert witness and consulting fees, litigation costs and costs of suit.
19. **Disputes.** If a dispute arises in any way arising out of or relating to this Agreement or the breach thereof, or relating to its application or interpretation, the aggrieved party will notify the other party of the dispute in writing within twenty days after such dispute arises and the parties will meet and confer within thirty days after delivery of such notice to attempt to resolve the dispute. If the parties are unable to resolve the dispute to their mutual, the District reserves its right to seek appropriate legal remedies.
20. **Remedies.** Except as otherwise provided herein, the rights and remedies of both parties hereunder shall be in addition to their rights and remedies at law or in equity. Failure of either party to enforce any of its rights shall not constitute a waiver of such rights or of any other rights and shall not be construed as a waiver or relinquishment of any such provisions, rights or remedies.
21. **Insurance.** Any vendor performing a service on District property or a District job site is required to have insurance. The District's minimum standard insurance requirements are as follows: General Liability with \$1 million per occurrence and \$2 million aggregate, Insured Autos \$1 million, and Worker's Compensation CA State Statutory Requirements. Additional insurance may be required. If so, it will be stated on front of PO or other related contract documents. Insurance certificates and endorsements specifically naming "Las Virgenes Municipal Water District, its officers, employees, and agents" as additional insured are required before any work is performed.
22. **Rentals.** For the purpose of calculating rental periods, one day is 24 hours (from time of delivery), one week is seven calendar days and one month is 30 calendar days, unless specified otherwise on the front of Purchase Order. Items are to be considered off rent at the time a pick-up is called in to vendor.
23. **Assignment.** Vendor shall not assign, sell or otherwise transfer any obligation or interest in this Agreement without the specific written consent of the District.
24. **Modifications.** Any modifications or exceptions to these Terms and Conditions will be stated on the front of the Purchase Order.

References

Name: Los Angeles County Sanitation
Address: 1965 Workman Mill Road, Whittier, CA 90601
Phone: 310-948-1199
Contract Person: Malika Jones
Email Address: mjones@lacsdsd.org

Name: City of Bakersfield
Address: 6901 McCutchen Road, Bakersfield, CA 93313
Phone: 661-326-3258
Contract Person: Josue Hernandez
Email Address: jhernandez@bakersfieldcity.us

Name: Eastern Municipal Water District
Address: 2270 Trumble Road, Perris, CA 92570
Phone: 951-928-377 EXT 6178
Contact Person: Kellie Gomez
Email Address: gomezk@emwd.org



PYM-PDS-NA-Zetag-88 Range-R2

Zetag™ 88 Range Flocculants

Description

High molecular weight polyacrylamide-based flocculants, which exhibit varying degrees of cationic charge. They are supplied as viscous free flowing liquids in inverse emulsion form.

Chemical Structure

Co-polymers of acrylamide and quaternized cationic monomer.

Product	Cationic Charge	Molecular Weight
Zetag 8812	low	very high
Zetag 8814	medium	high
Zetag 8816	medium-high	very high
Zetag 8818	high	very high
Zetag 8819	very high	very high
Zetag 8844FS	medium	medium
Zetag 8846FS	medium-high	medium
Zetag 8848FS	high	high
Zetag 8849FS	very high	medium
Zetag 8868FS	high	low
Zetag 8828FSB	medium-high	high
Zetag 8847FSB	high	medium
Zetag 8857FSB	high	medium
Zetag 8858FSB	high	medium
Zetag 8829FSB	very high	high

Principal Use

Polyelectrolytes for conditioning a variety of municipal and industrial substrates prior to mechanical or static solid/liquid separation.

These products are not suitable for use in potable water applications. If in any doubt regarding suitability for a given application, please contact your local sales representative.

Benefits

Highly effective across a wide range of applications (e.g., mechanical dewatering and thickening, flotation and clarification). Operation over a wide pH range (4 – 9).

Storage

The shelf life of the product is minimum 6 months from date of manufacturing if it is stored in its sealed original packaging within a temperature range of 5 – 25 °C in a dry place.

It is recommended that stock solutions at 0.25 – 0.5% are prepared regularly and for maximum effect such solutions should be used within 5 days. Beyond this period some loss in efficiency of the product may occur.

Depending upon storage conditions and product age, product separation may occur. If separation is observed the product should be re-dispersed well by mixing or re-circulation before use to ensure maximum efficiency.

Shipping & Handling

As with all cationic polyelectrolytes the product exhibits toxicity towards fish.

It is important that precautions are taken where the product may come into direct contact with fresh water courses, streams and rivers.

Corrosion towards most standard materials of construction is very low. Stainless steel, fiberglass, polyethylene, polypropylene and rubberized surfaces are recommended. In some cases, aluminum surfaces can be adversely affected.

Spilled product is slippery underfoot, very slippery when wet, stir before use. Please refer to the SDS for methods of removing the polymer.

The following materials should be avoided when handling neat inverse emulsions products:

- EPDM (Ethylene Propylene Rubber)
- Natural Rubber
- Polyurethane
- PVC

Packaging

This product is available in a variety of packaging sizes. Your Solenis representative will recommend the appropriate packaging for the application.

Continued on page 2.


Important Information

Typical Properties: Refer to the Safety Data Sheet (SDS).

Regulatory Information: Refer to the SDS/RDS or contact your sales representative for any additional regulatory and environmental information.

Safety: Solenis maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using Solenis products in your facilities.

	Page: 1
SAFETY DATA SHEET	Revision Date: 08/30/2022
	Print Date: 02/19/2024
	SDS Number: R1201191
Zetag™ 8818 (US) FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 933013	Version: 2.5

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Zetag™ 8818 (US) FLOCCULANT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Flocculating agent

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) EHSProductSafetyTeam@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation : Category 2

Eye irritation : Category 2B

GHS label elements

Hazard pictograms :




Signal word : Warning

Hazard statements : H315 + H320 Causes skin and eye irritation.

Precautionary statements :

Prevention:
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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SAFETY DATA SHEET		Revision Date: 08/30/2022
		Print Date: 02/19/2024
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Zetag™ 8818 (US) FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 933013		Version: 2.5

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Other hazards

Material can create slippery conditions.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture


Components

Chemical name	CAS-No.	Classification	Concentration (%)
ALIPHATIC HYDROCARBON	Trade Secret	Flam. Liq. 4; H227 Asp. Tox. 1; H304	>= 20 - < 30
ALCOHOL ETHOXYLATE	Trade Secret	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 1.5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES


- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.

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- Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Lung irritation
confusion
irregular heartbeat
Convulsions
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.
Causes skin and eye irritation.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO2)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO2)
Nitrogen oxides (NOx)
Hydrocarbons

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- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Material can create slippery conditions.
Water may cause extremely slippery conditions.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Material can create slippery conditions.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : For small spills, quickly contain and remove the spilled material using absorbent pads, socks, kitty litter, sawdust etc, then appropriately dispose. Do not leave absorbents to sit overnight, as they will become hard and difficult to remove.
The remaining residue or film can be treated with dilute caustic (2%) or dilute liquid bleach (2–5%), allowed to soak for up to one hour, and clean with warm water (between 49C – 54C (120F – 130 F)) or flushed to a sewer using high volumes of water taking into account local guidelines.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid spillage on floor as the product can become very slippery.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

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Dispose of rinse water in accordance with local and national regulations.

- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Recommended storage temperature : 41 - 77 °F / 5 - 25 °C
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION


Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALIPHATIC HYDROCARBON	Trade Secret	TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Filter type : Type A
- Hand protection
Material : nitrile rubber
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
- Skin and body protection : Wear as appropriate.


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Impervious clothing
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Wear resistant gloves (consult your safety equipment supplier).
 Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures : Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES


Appearance	: emulsion
Colour	: white
Odour	: hydrocarbon-like
Odour Threshold	: No applicable information available.
pH	: ca. 4
Melting point/freezing point	: No data available
Boiling point/boiling range	: ca. 212 °F / 100 °C
Flash point	: > 212 °F / > 100 °C
	Method: ASTM D92: Standard Test Method for Flash and Fire Points by Cleveland Open Cup. No flash point - Measurement made up to the indicated temperature, pilot light extinguishes.
Evaporation rate	: No data available
Flammability (solid, gas)	: Not classified as a flammability hazard
Self-ignition	: does not ignite
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: The product has not been tested.
Relative vapour density	: No data available

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Relative density	:	No data available
Density	:	ca. 1.0 g/cm ³ (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	dispersible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	1,000 - 1,500 mPa.s
Viscosity, kinematic	:	> 20.5 mm ² /s (104 °F / 40 °C) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents strong reducing agents
Hazardous decomposition products	:	Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x) Hydrocarbons

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

ALIPHATIC HYDROCARBON:

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity : LC 50 (Rat, male and female): > 5.28 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

ALCOHOL ETHOXYLATE:

- Acute oral toxicity : LD50 (Rat): Expected > 300 - 2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

- Species : Rabbit
- Method : OECD Test Guideline 404
- Result : irritating
- GLP : yes

Components:

ALIPHATIC HYDROCARBON:


- Result : Mildly irritating to skin

Serious eye damage/eye irritation

Causes eye irritation.

Product:

- Species : Rabbit
- Result : Mild eye irritation
- Remarks : Unlikely to cause eye irritation or injury.

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Components:

ALIPHATIC HYDROCARBON:

Result : Mildly irritating to eyes

ALCOHOL ETHOXYLATE:

Result : Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:


ALIPHATIC HYDROCARBON:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Further information

Product:

Remarks : No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

- Toxicity to fish : LC50 (Oncorhynchus mykiss): 18 mg/l
Exposure time: 96 h
Remarks: Test conducted using environmentally representative water.
- NOEC (Oncorhynchus mykiss (rainbow trout)): 13 mg/l
Exposure time: 96 h
Remarks: Test conducted using environmentally representative water.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 2.72 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Test conducted with a similar formulation
Remarks: Test conducted using environmentally representative water.

Ecotoxicology Assessment

- Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.
- Chronic aquatic toxicity : Not classified based on available information.

Components:

ALIPHATIC HYDROCARBON:

Ecotoxicology Assessment

- Acute aquatic toxicity : No toxicity at the limit of solubility
- Chronic aquatic toxicity : No toxicity at the limit of solubility

ALCOHOL ETHOXYLATE:


Ecotoxicology Assessment

- Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Not classified based on available information.

Persistence and degradability

Product:

- Biodegradability : Remarks: At natural pHs (>6), the polymer degrades due to the hydrolysis to more than 70% in 28 days.

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Physico-chemical removability : Remarks: The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good


IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

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Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment performed on the product as delivered and when used as intended.


The components of this product are reported in the following inventories:

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply
- DSL : All components of this product are on the Canadian DSL
- ENCS : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements

H227 : Combustible liquid.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H318 : Causes serious eye damage.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage
Flam. Liq. : Flammable liquids
ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA : 8-hour, time-weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand

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Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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