



101 Lucas Valley Road, Suite 300
 San Rafael, CA 94903
 Tel.: 415-472-1734
 Fax: 415-499-7715
 www.LGVSD.org

MANAGEMENT TEAM
 General Manager, Curtis Paxton
 Plant Operations, Mel Liebmann
 Collections/Safety/Maintenance, Greg Pease
 Engineering, Michael P. Cortez
 Administrative Services, Dale McDonald

DISTRICT BOARD
 Megan Clark
 Ronald Ford
 Craig K. Murray
 Gary E. Robards
 Crystal J. Yezman

The Mission of the Las Gallinas Valley Sanitary District is to protect public health and the environment by providing effective wastewater collection, treatment, and recycling services.

BOARD MEETING AGENDA

July 6, 2023

MATERIALS RELATED TO ITEMS ON THIS AGENDA ARE AVAILABLE FOR PUBLIC INSPECTION DURING NORMAL BUSINESS HOURS AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, SAN RAFAEL, OR ON THE DISTRICT WEBSITE WWW.LGVSD.ORG

Estimated Time

4:30 PM

OPEN SESSION:

4:35 PM

1. PUBLIC COMMENT

This portion of the meeting is reserved for people desiring to address the Board on matters not on the agenda and within the jurisdiction of the Las Gallinas Valley Sanitary District. Presentations are generally limited to three minutes. All matters requiring a response will be referred to staff for reply in writing and/or placed on a future meeting agenda. Please contact the General Manager before the meeting.

4:40 PM

2. CONSENT CALENDAR:

These items are considered routine and will be enacted, approved or adopted by one motion unless a request for removal for discussion or explanation is received from the staff or the Board.

- A. Approve the Board Minutes for June 15, 2023
- B. Approve the Warrant List for July 6, 2023
- C. Approve Ford request to attend the WateReuse California Conference November 5-8 in Indian Wells, CA
- D. Approve Contract Amendment for Asset Management Consulting
- E. Approve Board Policy F-50 Reserves and Resolution 2023-2314
- F. Approve Order of Publication Ordinance 192

Possible expenditure of funds: Yes, Item B through D.

Staff recommendation: Adopt Consent Calendar – Items A through F.

4:50 PM

3. INFORMATION ITEMS:

STAFF/CONSULTANT REPORTS:

- 1. General Manager's Report – verbal

- 5:00 PM**
- 4. PUBLIC HEARING: ORDINANCE 193 – AN ORDINANCE AMENDING TITLE 3, CHAPTER 2, LAS GALLINAS VALLEY SANITARY CODE (REIMBURSEMENT FOR PUBLIC SEWER MAIN EXTENSIONS)**
- A. OPEN PUBLIC HEARING**
District staff presents Ordinance No. 193 Amending Title 3, Chapter 2 Sanitary Code of the Las Gallinas Valley Sanitary District.
- B. REVIEW DISTRICT STAFF RECOMMENDATIONS**
Board to consider staff recommendation to adopt Ordinance 193 amending Title 3, Chapter 2 Sanitary Code of the Las Gallinas Valley Sanitary District.
- C. PUBLIC COMMENT**
This portion of the meeting is reserved for people desiring to address the Board regarding the proposed Ordinance. Presentations are generally limited to three minutes.
- D. CLOSE THE PUBLIC HEARING**
Board to close the public hearing.
- E. BOARD DETERMINATION AND ACTION**
Board to consider comments from public, review administrative record and make determination regarding approval of Ordinance 193.

- 5:30 PM**
- 5. BOARD MEMBER REPORTS:**
1. CLARK
a. NBWA Board Committee, 2023 Operations Control Center Ad Hoc Committee, Other Reports
2. FORD
a. NBWRA, 2023 Operations Control Center Ad Hoc Committee, 2023 McInnis Marsh Ad Hoc Committee, 2023 Fleet Management Ad Hoc Committee, 2023 GM Evaluation Ad Hoc Committee, 2023 San Francisco Bay Trail Ad Hoc Committee, Other Reports
3. MURRAY
a. Marin LAFCO, 2023 Biosolids Ad Hoc Committee, CASA Energy Committee, 2023 Development Ad Hoc Committee, 2023 San Francisco Bay Trail Ad Hoc Committee, Other Reports
4. ROBARDS
a. Gallinas Watershed Council/Miller Creek, 2023 Engineering Ad Hoc Committee re: STPURWE, 2023 McInnis Marsh Ad Hoc Committee, 2023 Development Ad Hoc Committee, 2023 GM Evaluation Ad Hoc Committee, Other Reports
5. YEZMAN
a. Flood Zone 7, CSRMA, 2023 Ad Hoc Engineering Committee re: STPURWE, Marin Special Districts, 2023 Biosolids Ad Hoc Committee, Other Reports

- 5:40 PM**
- 6. BOARD REQUESTS:**
- A. Board Meeting Attendance Requests – Verbal
- B. Board Agenda Item Requests – Verbal

5:50 PM 7. VARIOUS INDUSTRY RELATED ARTICLES

6:00 PM 8. ADJOURNMENT

FUTURE BOARD MEETING DATES: JULY 20 AND AUGUST 3, 2023

AGENDA APPROVED:	Megan Clark, President	Patrick Richardson, Legal Counsel
------------------	------------------------	-----------------------------------

CERTIFICATION: I, Teresa Lerch, Board Secretary of the Las Gallinas Valley Sanitary District, hereby declare under penalty of perjury that on or before July 3, 2023 4:30 p.m., I posted the Agenda for the Board Meeting of said Board to be held on July 6, 2023, at the District Office, located at 101 Lucas Valley Road, Suite 300, San Rafael, CA.

DATED: June 29, 2023



 Teresa L. Lerch
 Board Secretary

The Board of the Las Gallinas Valley Sanitary District meets regularly on the first and third Thursday of each month. The District may also schedule additional special meetings for the purpose of completing unfinished business and/or study sessions. Regular meetings are held at the District Office, 101 Lucas Valley Road, Suite 300, San Rafael, CA.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the District at (415) 472-1734 at least 24 hours prior to the meeting. Notification prior to the meeting will enable the District to make reasonable accommodation to help ensure accessibility to this meeting.

AGENDA ITEM 1

7/6/2023

PUBLIC COMMENT

This portion of the meeting is reserved for persons desiring to address the Board on matters not on the agenda and within the jurisdiction of the Las Gallinas Valley Sanitary District. Presentations are generally limited to three minutes. All matters requiring a response will be referred to staff for reply in writing and/or placed on a future meeting agenda. Please contact the General Manager before the meeting.

MEETING MINUTES OF JUNE 15, 2023

THE BOARD OF DIRECTORS AND STAFF OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION ON JUNE 15, 2023 AT 4:30 PM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300 CONFERENCE ROOM, SAN RAFAEL, CA. 94903

BOARD MEMBERS PRESENT: Ron Ford, Craig Murray, Gary Robards
BOARD MEMBERS ABSENT: Megan Clark and Crystal Yezman
STAFF PRESENT: Curtis Paxton, General Manager; Teresa Lerch, Board Secretary; Dale McDonald, District Treasurer
OTHERS PRESENT: Patrick Richardson, District Counsel; Gregory Ramirez, IEDA.
ANNOUNCEMENT: Vice President Murray announced that the agenda had been posted as evidenced by the certification on file in accordance with the law.

Due to illness, Director Yezman requested in writing to participate in the Board meeting by teleconference for "just cause" pursuant to Gov. Code Sec. 54953(f)(2)(A)(i).

ACTION:

Board approved (M/S Ford/Robards (3-0-2-0) Yezman attend the Board meeting by teleconference (Zoom) pursuant to Gov. Code Sec. 54953(f)(2)(A)(i) and the teleconferencing information was posted for the public on the LGVSD website and at the meeting location.

AYES: Ford, Murray and Robards
NOES: None.
ABSENT: Clark, Yezman
ABSTAIN: None.

Yezman joined the meeting at 4:32 pm.

CLOSED SESSION:

ACTION:

THE BOARD OF DIRECTORS OF THE LAS GALLINAS VALLEY SANITARY DISTRICT ADJOURNED TO CLOSED SESSION ON JUNE 15 2023 , AT 4:33 PM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, CONFERENCE ROOM, SAN RAFAEL, CALIFORNIA.

Lerch left the meeting at 4:33 pm.

CONFERENCE WITH LABOR NEGOTIATOR – Agency designated representative : Gregory Ramirez, IEDA; Employee organization: IUOE Local 3: pursuant to Government Code Section 54957.6

ADJOURNMENT:

ACTION:

The Board of Directors of the Las Gallinas Valley Sanitary District reconvened the Regular Session on June 15, 2023 at 4:52 pm.

BOARD MEMBERS PRESENT: Ron Ford, Craig Murray, Gary Robards, Crystal Yezman

STAFF PRESENT: Curtis Paxton, General Manager, Teresa Lerch, District Secretary; Dale McDonald, District Treasurer; Mike Cortez, District Engineer

OTHERS PRESENT: Patrick Richardson, District Counsel

PUBLIC COMMENT: None.

REPORT ON CLOSED SESSION: Vice President Murray reported that there were no reportable actions in Closed Session.

1. CONSENT CALENDAR:

These items are considered routine and will be enacted, approved or adopted by one motion unless a request for removal for discussion or explanation is received from the staff or the Board.

- A. Approve the Board Minutes for May 25 and June 1, 2023
- B. Approve the Warrant List for June 15, 2023
- C. Approve Board Compensation for May 2023
- D. Approve Request by Board member, Megan Clark, to remotely attend the Regular Meeting of the Board scheduled for June 30, 2023, due to "emergency circumstances" pursuant to Gov. Code Sec 54953 (f)(2)(A) (ii).

ACTION:

Board approved (M/S Ford/Robards (4-0-1-0) the Consent Calendar items A through D.

AYES: Ford, Murray, Robards and Yezman

NOES: None.

ABSENT: Clark

ABSTAIN: None.

2. PUBLIC COMMENT:

Carl Carr, Business Representative for Operating Engineers Local Union 3 read a letter to the Board regarding Board President Clark's Unprofessional and Disrespectful Comments to Union Members.

3. CONSENT CALENDAR:

These items are considered routine and will be enacted, approved or adopted by one motion unless a request for removal for discussion or explanation is received from the staff or the Board.

- E. Approve the Board Minutes for May 25 and June 1, 2023
- F. Approve the Warrant List for June 15, 2023
- G. Approve Board Compensation for May 2023
- H. Approve Request by Board member, Megan Clark, to remotely attend the Regular Meeting of the Board scheduled for June 30, 2023, due to "emergency circumstances" pursuant to Gov. Code Sec 54953 (f)(2)(A) (ii).

ACTION:

Board approved (M/S Ford/Robards (4-0-1-0) the Consent Calendar items A through D.

AYES: Ford, Murray, Robards and Yezman

NOES: None.

ABSENT: Clark

ABSTAIN: None.

4. INFORMATION ITEMS:

STAFF / CONSULTANT REPORTS:

- 1. General Manager's Report – Paxton reported.
- 2. Engineering Department Report – Cortez reported.

3. Board Policy F-50 (Reserves) – McDonald reported. The Board suggested a few modifications and this item will be brought back at the next regular Board meeting under the Consent Calendar.

4. UNREPRESENTED EMPLOYEE CONTRACTS EXTENSION

The Board reviewed and discussed the Unrepresented Employee Contracts extension.

ACTION:

Board approved (M/S Ford/Robards (4-0-1-0) having the General Manager execute the December 31, 2023 contact extensions for the Unrepresented Employees (Cortez, Liebmann, McDonald, Pease and Schultz).

AYES: Ford, Murray, Robards and Yezman
NOES: None.
ABSENT: Clark
ABSTAIN: None.

5. BOARD REPORTS

1. CLARK - Absent
 - a. NBWA Board Committee – No report
 - b. 2023 Operations Control Center Ad Hoc Committee – no report
 - c. Other Reports–none
2. FORD
 - a. NBWRA – no report
 - b. 2023 Operations Control Center Ad Hoc Committee – no report
 - c. 2023 GM Evaluation Ad Hoc Committee – no report
 - d. 2023 McInnis Marsh Ad Hoc Committee – no report
 - e. 2023 Fleet Management Ad Hoc Committee – no report
 - f. 2023 SF Bay Trail Ad Hoc Committee – no report
 - g. Other Reports – none
3. MURRAY
 - a. Marin LAFCO – no report
 - b. CASA Energy Committee –verbal report
 - c. 2023 Biosolids Ad Hoc Committee – verbal report
 - d. 2023 Development Ad Hoc Committee – no report
 - e. 2023 SF Bay Trail Ad Hoc Committee – no report
 - f. Other Reports – none
4. ROBARDS
 - a. Gallinas Watershed Council/Miller Creek – no report
 - b. 2023 Engineering Ad Hoc Committee re: STPURWE – no report
 - c. 2023 McInnis Marsh Ad Hoc Committee – no report
 - d. 2023 Development Ad Hoc Committee – no report
 - e. 2023 GM Evaluation Ad Hoc Committee –verbal report
 - f. Other Reports – none
5. YEZMAN
 - a. Flood Zone 7– no report
 - b. CSRMA – no report
 - c. Marin Special District Association – no report
 - d. 2023 STPURWE Engineering Ad Hoc Committee – no report
 - e. 2023 Biosolids Ad Hoc Committee – no reportOther Reports– None.

6. BOARD REQUESTS:

- A. Board Meeting Attendance Requests – None.

Board Secretary Lerch reminded the Board to submit their conference registration requests for the CASA 2023 Annual Conference August 9-11 in San Diego and/or the 2023 WaterReuse California Annual Conference November 5-7 in Indian Wells if they would like to attend.

B. Board Agenda Item Requests – None.

7. MISCELLANEOUS DISTRICT CORRESPONDENCE

Discussion ensued.

8. ADJOURNMENT:

ACTION:

Board approved (M/S Robards/Ford 4-0-1-0) the adjournment of the meeting at 6:19 PM.

AYES: Ford, Murray, Robards and Yezman.

NOES: None.

ABSENT: Clark.

ABSTAIN: None.

The next Board Meeting is scheduled for June 30, 2023 at 4:30 pm at the San Rafael Schools District Office 310 Nova Albion Way, 2nd Floor, San Rafael, CA. 94903

ATTEST:

Teresa Lerch, Board Secretary

APPROVED:

Craig K. Murray, Vice-President

Agenda Item 2B
Date July 6, 2023

Las Gallinas Valley Sanitation District Warrant List 7/06/2023 DRAFT							
	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for items
1	7/6/2023	ACH	Alliant Insurance	11,208.00		11,208.00	Mobile Vehicle Program Policy Renewal - 7/1/23 - 7/1/24
2	7/6/2023	N/A	Allmax Software Support	5,013.34		5,013.34	Annual Operator10 Wastewater Support Software- 7/1/23 - 7/31/24
3	7/6/2023	N/A	Aries Industries	2,814.87		2,814.87	Collections- Repairs on ITV Camera Truck
4	7/6/2023	N/A	AT&T dba Calnet	300.58		300.58	Phone Lines @ Pump Stations
5	7/6/2023	EFT2	Bank of Marin	27,723.45		27,723.45	Recycled Water Loan Payment- July
6	7/6/2023	N/A	Bay Area Air Quality Management District	807.00		807.00	Lab- Annual Permit to Operate Fee 2023/24
7	7/6/2023	EFT	CaPERS CERBT-OPEB	11,630.00		11,630.00	Pre-Fund CERBT Payment -July
8	7/6/2023	N/A	Comet Building Maintenance	3,026.67		3,026.67	Janitorial Services- June
9	7/6/2023	EFT	Direct Dental	795.80		795.80	Dental Payment- 6/26
10	7/6/2023	ACH	Downing Heating	1,215.44		1,215.44	Glycol Chiller Repairs
11	7/6/2023	N/A	Environmental Science Associates	3,146.66		3,146.66	Flood Protection Plan for Biosolids Project
12	7/6/2023	N/A	Environmental Systems Research Institute	11,300.00		11,300.00	Small Utility Enterprise Agreement Annual GIS Subscription- 2023/24
13	7/6/2023	ACH	EOA	12,978.00		12,978.00	Tech Support for Regulatory Permits- May
14	7/6/2023	ACH	Exponent	3,234.50		3,234.50	STPURWE- Failure Analysis of Chain & Motor on Blowheel
15	7/6/2023	ACH	Fishman Supply	304.52		304.52	Compostable Cups
16	7/6/2023	ACH	Freyer & Laureta	26,662.80		26,662.80	Electrical Upgrades to Pump Stations
17	7/6/2023	ACH	Grainger	3,559.49		3,559.49	Stock Inventory Parts
18	7/6/2023	N/A	Jackson's Hardware	321.34		321.34	Misc. Supplies
19	7/6/2023	N/A	Kelly Spicers Facilities Solutions	208.95		208.95	Thorndale Lateral Line Backup- Odor Control
20	7/6/2023	N/A	Marin Ace	45.82		45.82	Misc. Supplies
21	7/6/2023	N/A	McMaster-Carr	542.09		542.09	Misc. Parts
22	7/6/2023	ACH	Orion Protection Services	369.61		369.61	Nightly Patrol Services- July
23	7/6/2023	N/A	Parcel Quest	4,798.00		4,798.00	Parcel Number Database- 2 Navigator Accounts
24	7/6/2023	ACH	Paxton, Curtis	344.70		344.70	CSDA General Manager Leadership Conference Reimbursement
25	7/6/2023	EFT	Sunlife Financial	3,513.99		3,513.99	EE's AD&D, Disability and Life Insurance- July
26	7/6/2023	N/A	Unicorn Group	5,785.71		5,785.71	Newsletter Postage & Printing
27	7/6/2023	N/A	United Site Services	692.43		692.43	Porta Potty- 6/24 - 7/21
28	7/6/2023	ACH	Univar	7,438.30		7,438.30	Sodium Hypochlorite
29	7/6/2023	N/A	USA Blue Book	1,376.37		1,376.37	Dechlorination Diffuser

Las Gallinas Valley Sanitation District Warrant List 7/06/2023 DRAFT							
	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for Items
30	7/6/2023	EFT	Vision Service Plan	563.94		563.94	Vision Payment- July
31	7/6/2023	N/A	West Yost	145.50		145.50	Cybersecurity Baseline Assessment
32	7/6/2023	N/A	Zenon Enterprises	115.67		115.67	Gasket

Do not change any formulas below this line.

TOTAL \$ 140,775.54 \$ - \$ 140,775.54

EFT1	EFT1 = Payroll (Amount Required)	0.00	0.00	Approval:
EFT2	EFT2 = Bank of Marin loan payments	27,723.45	27,723.45	
PC	Petty Cash Checking	0.00	0.00	Finance
>1	Checks (Operating Account)	0.00	0.00	
N/A	Checks - Not issued	40,441.00	40,441.00	GM
EFT	EFT = Vendor initiated "pulls" from LGVSD	16,503.73	16,503.73	
ACH	ACH = LGVSD initiated "push" to Vendor	56,107.36	56,107.36	Board
	Total	\$ 140,775.54	\$ 140,775.54	

Difference: \$ _____

STPURWE Costs 3,234.50



BOARD MEMBER CONFERENCE/ MEETING/WEBINAR ATTENDANCE REQUEST

Date: 6/18/23 Name: ROY FORD

I would like to attend the WATER REUSE CA. CONFERENCE Meeting
of _____

To be held on the 4th 9th day of Nov. from 8:30 a.m. / p.m. to
5th day of Nov. from _____ a.m. / p.m.

Location of meeting: INDIAN WELLS, CA.

Actual meeting date(s): Nov. 5th - Nov 7th, 2023

Meeting Type: (In person/Webinar/Conference) _____

Purpose of Meeting: EDUCATION

Meeting relevance to District: FURTHER OUR RE-CYCLING PROGRAM

Request assistance from Board Secretary to register for Conference: YES NO

Board Directors to make their own Hotel Reservations and book their own transportation including airfare, taxi and/or shuttles.

Frequency of Meeting: _____

Estimated Costs of Travel (if applicable): \$1800.00

Date submitted to Board Secretary: 6/18/23

Board approval obtained on Date: _____

Please submit this form to the Board Secretary no later than 1 week prior to the Board Meeting.



2023 WATERREUSE CALIFORNIA CONFERENCE

INDIAN WELLS, CA • NOV. 5-7

[me\Sections\California\Meetings & Events\2023 California Annual Conference](#)

2023 WaterReuse California Annual Conference

The 2023 Annual WaterReuse California Conference will take place November 5-7 in Indian Wells, CA, including a wealth of technical sessions, panel presentations, and networking opportunities.

Topics will highlight the latest on the Direct Potable Reuse regulations, the crisis on the Colorado River and reuse solutions, water reuse technologies, outreach and education, regional collaboration, the current California funding landscape and much more.

Submit an Abstract

Deadline: July 28, 2023

Submit your abstract today and present your project, research, or findings to an audience of California's leading water reuse practitioners! WaterReuse California encourages submissions from presenters which include a diversity of voices including water and wastewater utility representation, especially from small utilities, young professionals, and graduate students. If not a California-based topic, abstracts should include detail about how the topic relates to California reuse. Please review the call for abstracts before submitting.



Submit an Award Nomination

Deadline: August 15, 2023

Each year, WaterReuse California recognizes agencies, customers, and individuals that have demonstrated exceptional leadership in advancing water recycling in California. The membership nominates potential award winners each year and awards are presented during a ceremony at the Annual Conference.

Visit Indian Wells!

Work, connect, and learn with the beautiful backdrop of Indian Wells! Sessions will take place between two luxurious hotels just feet away from one another: the Hyatt Regency Indian Wells Resort & Spa and the Renaissance Esmeralda Resort & Spa. Participants will convene from across California and beyond to advance the practice of water reuse while celebrating the many successes of 2023.



Item Number _____ 2D _____

GM Review _____ CP _____

Agenda Summary Report

To: Board of Directors

From: Greg Pease, Collections Manager
(415) 526-1513; gpease@lqvsd.org

Michael P. Cortez, PE, District Engineer
(415) 526-1518; mcortez@lqvsd.org

Mtg. Date: July 6, 2023

Re: Award of Contract Amendment to Centricity for Cityworks Implementation and Antero Migration

Item Type: Consent Action _____ Information _____ Other _____.

Standard Contract: Yes No _____ (See attached) Not Applicable _____.

STAFF RECOMMENDATION

Board to approve award of Contract Amendment No. 1 to Centricity GIS (Centricity) for Cityworks Implementation and Antero Migration in the amount of \$299,000.

BACKGROUND

On March 18, 2021, the District Board awarded a contract to Centricity GIS for management of assets related to the Secondary Treatment Plant Upgrade and Recycled Water Expansion (STPURWE) Project utilizing Cityworks Computerized Maintenance Management System/Geographic Information System (CMMS/GIS). The contract was designated as Task 1 leveraging Cityworks as the overall platform for all District assets in the treatment plant and reclamation as future tasks. Centricity has completed Task 1 to District satisfaction and the Maintenance Department has identified additional tasks required for a fully operational Asset Management System (AMS) for the District.

The District currently has asset information stored on multiple platforms and lacks the ability to exchange information easily between the different databases. Collection system assets are in Cityworks, which the District originally procured in 2016 for the collection system, whereas work orders and maintenance records for treatment plant and reclamation are conducted in Antero. In response to the Maintenance Department’s request, Centricity submitted the attached proposal to address the issue. Amendment 1 scope is comprised of two major components: 1) implement and configure one platform, Cityworks AMS, to manage all District assets; and 2) migrate and integrate historical data from Antero to Cityworks AMS.

Below are advantages of using Cityworks AMS:

- Provides comprehensive mapping and geospatial information specific to each asset.
- Streamlines process flows without the need of navigating multiple platforms.
- Allows scheduling and assignment of work activities based on priorities and workflow.



- Provides one central database for inspection results, maintenance logs, reports, work orders, and other pertinent information associated with each asset.

Centricity will work closely with key District staff such as Maintenance Manager, Maintenance Supervisor, and CMMS Technician to properly configure Cityworks and ensure that it meets District needs for asset tracking and work order management. Also, hands-on training and support will be provided to maintenance staff for a smooth transition.

Centricity has been working with the District Collections Department since 2016 for implementation of Cityworks for collection system assets and providing ongoing support services. Hence, it has a comprehensive understanding of the efforts required to incorporate all remaining assets into the program for a successful project. District staff has had positive experiences working with Centricity and is confident that Centricity is the best fit for the task based on its technical capabilities and knowledge of the current LGVSD Cityworks configuration.

The Maintenance Department reviewed the proposal and deemed the proposal reasonable and appropriate for its asset management needs.

PREVIOUS BOARD ACTION

N/A

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

Funding in the amount \$299,000 is within the FY 2023/2024 Budget.



PROPOSAL

Cityworks AMS Implementation for Treatment Plant &
Antero Migration to Cityworks

Prepared for:

Las Gallinas Valley Sanitary District

ATTN:
LGVSD

June 28, 2023

CONTACT:

Brandon Wright
801-376-8160
bwright@centricitygis.com



Table of Contents

Table of Contents	2
Cover Pages/Executive Summary	4
Approach and Methodology	7
Firm Description & Project Organization.....	21
Qualifications and Past Performance	24
References.....	25
Implementation Fee/Cost Proposal.....	30

About Centricity GIS

Introduction

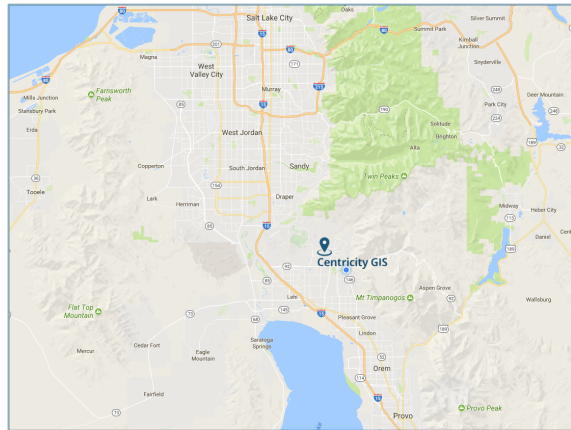
Centricity GIS, LLC is a leading GIS Consulting company that provides a wide range of implementation, data, and application development services. Our founder, Brandon Wright, is a seasoned professional with 20 years of experience in GIS, Asset Management, and systems integration. All of our technical staff have at least 8 years of expertise in their respective disciplines, ensuring that we deliver high-quality services to our clients.

We are committed to meeting the unique needs of our clients and offer tailored solutions that meet their specific requirements. In addition to providing services for specific projects, we also provide on-site resources such as programmers, analysts, and technicians to augment an agency's staff.

As a Cityworks Business Partner, we specialize in CMMS and GIS services for public agencies such as Cities, Counties, and Water Agencies. Our partnership allows us to provide the best solutions that meet our clients' needs by leveraging Cityworks and ESRI technologies. From out-of-the-box solutions using Esri's ArcGIS for Local Government solutions to custom PLL implementations, we help agencies realize their return on investment as quickly as possible.

At Centricity GIS, we pride ourselves on delivering high-quality services, leveraging our technical expertise and extensive experience in GIS and Asset Management. Our goal is to help our clients achieve their goals and deliver exceptional value

We are located in Cedar Hills, Utah, about 30 minutes from Cityworks headquarters.



Experience.

Centricity GIS is a full-service asset management and permitting consulting firm. We serve municipal governments and private and public utilities, providing tried-and-true implementation strategies that focus on your business processes, workflows, system requirements, and training.

With nearly 20 years of experience in the Asset Management and Permitting Industry, we have performed over 50 unique Cityworks implementations. Our extensive knowledge in system design and implementation allows us to leverage the flexibility and power of the Cityworks platform.

We also have in-house developers that specialize in core Cityworks integrations and development tools. Our expertise in permitting enables us to be efficient and effective during all phases of implementation. We have a proven track record of integrating Cityworks with many types of systems.

Cover Pages/Executive Summary

June 28, 2023

Subject: Cityworks AMS Software Solution and Migration from Antero – Sewer Treatment

LGVSD:

We are pleased to provide you with an implementation summary for the Cityworks Asset Management System (AMS) for the Las Gallinas Valley Sanitary District (LGVSD) Sewer Treatment Group. Our primary goal is to ensure a smooth transition from Antero to Cityworks AMS, maintaining and enhancing the existing GIS assets and asset management data.

Project Overview:

The implementation of Cityworks AMS for the LGVSD Sewer Treatment Group will consist of the following key stages:

1. Project initiation and planning
2. System configuration and customization
3. Data migration from Antero to Cityworks AMS
4. Integration with GIS assets
5. Training and user support
6. System testing and validation
7. Go-live and post-implementation support

Stage 1: Project Initiation and Planning

We will start by establishing a dedicated project team, comprising representatives from LGVSD, GIS experts, and Cityworks implementation specialists. The project team will collaborate on defining the project scope, schedule, and resource requirements. A detailed project plan will be created to ensure a timely and efficient implementation.

Stage 2: System Configuration and Customization

Our Cityworks implementation specialists will work with LGVSD staff to configure the system according to your requirements. This includes setting up custom fields, workflows, and asset management processes specific to the Sewer Treatment Group.

Stage 3: Data Migration from Antero to Cityworks AMS

We will develop a data migration plan to transfer all asset management data, including historical records, from Antero to Cityworks AMS. A comprehensive data mapping and validation process will be conducted to ensure data integrity and compatibility.

Stage 4: Integration with GIS Assets

Page | 4

Cityworks AMS will be integrated with the existing GIS assets, enabling seamless visualization and management of spatial data. Our GIS experts will work with LGVSD's GIS team to establish the necessary connections and perform any required data conversions.

Stage 5: Training and User Support

We will provide tailored training sessions for LGVSD staff, focusing on Cityworks AMS functionality and best practices for the Sewer Treatment Group. Additional user support will be available throughout the implementation process to ensure a smooth transition.

Stage 6: System Testing and Validation

A thorough testing and validation phase will be conducted to confirm that Cityworks AMS meets LGVSD's requirements and expectations. The project team will work together to address any issues and make necessary adjustments before going live.

Stage 7: Go-live and Post-implementation Support

After successful testing and validation, Cityworks AMS will be launched for the Sewer Treatment Group. Our team will continue to provide post-implementation support, including system updates, issue resolution, and ongoing training as needed.

We are confident that the Cityworks AMS implementation will significantly enhance the LGVSD Sewer Treatment Group's asset management capabilities and streamline your operations. We look forward to working closely with your team throughout the implementation process and ensuring a successful transition.

Overall, we believe that the Cityworks software solution is the right fit for the City, and we are committed to providing you with a robust, scalable, and reliable software solution that can meet their evolving needs. We look forward to the opportunity to work with the District and deliver a software solution that will transform your service delivery processes and improve data-driven decision-making.

Centricity GIS, a Cityworks Business Partner based in Cedar Hills, Utah, is uniquely qualified to provide these implementation services. Our founder has over 19 years of experience completing Cityworks implementation projects, having previously worked for Cityworks.

Partnering with us ensures a comprehensive implementation process that guarantees a successful Cityworks deployment for your organization. This proposal covers the following implementation services:

- GIS Migration from Antero into ESRI GIS
- Workflow Review Meetings (Onsite)

- Initial Cityworks AMS Database Configuration for Sewer Treatment
 - Service Requests, Work Orders, Inspections
 - Setup Employees, Materials and Equipment
- Review of Configured Database (Onsite)
- Admin User Training (Onsite)
- End User Training (Onsite)
- Rollout Support
- Ad-Hoc Support
- Data Migration from Antero into Cityworks AMS

This proposal provides information and scoping to support your goals as listed and we look forward to demonstrating our capabilities through our software and extensive client references locally and throughout the US. We look forward to a long business relationship with LGVSD and help it become a more efficient, strategic and GIS data driven organization for many years to come.

In summary, our project approach is designed to ensure that the District receives a customized, user-friendly, and scalable Cityworks AMS software solution that meets their specific requirements. We are committed to providing ongoing support to ensure that the software remains operational and meets the District's evolving needs.

Sincerely,



Brandon Wright
Founder | President
801-376-8160

Approach and Methodology

A. INTRODUCTION

The implementation of a Cityworks Asset Management System (AMS) is a significant undertaking for any organization. It involves the integration of software, hardware, data, and business processes to enable the efficient management of assets, work orders, service requests, inspections, and reports. The success of the implementation depends on a well-planned approach that considers the organization's objectives, requirements, resources, and timelines.

B. OVERVIEW

This project approach is designed to provide a comprehensive framework for the Cityworks AMS implementation. The approach will consist of the following phases:

- 1. Discovery Phase (Kickoff Meetings):** During this phase, the project team will work with the organization's stakeholders to understand the current asset management processes, systems, and data. The project team will identify the business requirements, objectives, and success factors for the Cityworks AMS implementation. The outcome of this phase will be a comprehensive understanding of the organization's current state and a roadmap for the future.
- 2. Design Phase (Database Configuration and Antero Data Migration for GIS Asset Hierarchy):** During this phase, the project team will design the Cityworks AMS solution based on the business requirements and objectives. The team will develop the functional and technical specifications, data migration plan, integration plan, and customizations. The team will also design the user interface, workflows, and reports. The outcome of this phase will be a detailed design of the Cityworks AMS solution. The Antero GIS data migration from Antero and into ESRI ArcGIS is also included in this phase to ensure that a smooth and seamless data migration from Antero is available in Cityworks AMS via ESRI ArcGIS Asset Hierarchy.
- 3. Development Phase (Database Review and Additional Information Config, Historical Data Migration):** During this phase, the project team will develop and configure the Cityworks AMS solution. The team will implement the functional and technical specifications, data migration plan, integration plan, and customizations. The team will also develop the user interface, workflows, and reports. The outcome of this phase will be a fully

functional Cityworks AMS solution. This phase also includes the Historical Data Migration (Asset Maintenance) from Antero into Cityworks AMS.

4. **Testing Phase (User Acceptance Testing):** During this phase, the project team will test the Cityworks AMS solution to ensure that it meets the business requirements and objectives. The team will perform unit, integration, system, and user acceptance testing. The team will also identify and resolve any defects. The outcome of this phase will be a fully tested and validated Cityworks AMS solution.
5. **Deployment Phase (Admin & End User Training, Go Live Support):** During this phase, the project team will deploy the Cityworks AMS solution into the production environment. The team will perform the data migration, system configuration, and user training. The team will also provide post-deployment support to ensure the solution is fully operational. The outcome of this phase will be a fully deployed Cityworks AMS solution.
6. **Post-Deployment Phase (Ad-Hoc Support):** During this phase, the project team will provide post-deployment support and maintenance to ensure the Cityworks AMS solution is operating at peak performance. The team will also perform a post-implementation review to identify any lessons learned and opportunities for improvement. The outcome of this phase will be a fully operational and optimized Cityworks AMS solution.

Conclusion:

This project approach provides a structured and comprehensive framework for the Cityworks AMS implementation. The approach considers the organization's objectives, requirements, resources, and timelines. It ensures that the Cityworks AMS solution is designed, developed, tested, deployed, and supported to meet the organization's needs and expectations. The project team will work closely with the organization's stakeholders to ensure a successful implementation that delivers tangible benefits and ROI.

Scope:

This scope of work identifies the tasks required for the successful implementation of Cityworks for LGVSD Cityworks AMS. Centricity GIS understands that the following requirements have been identified by the District's and will be included in implementation:

- Workflow Review Meetings (Onsite)
- Initial Cityworks AMS Database Configuration for Sewer Treatment
 - Service Requests, Work Orders, Inspections
 - Setup Employees, Materials and Equipment
 - GIS Migration from Antero into ESRI GIS
- Review of Configured Database (Onsite)
- Admin User Training (Onsite)
- End User Training (Onsite)
- Rollout Support
- Ad-Hoc Support
- Data Migration from Antero into Cityworks AMS

We'll ensure that all of these requirements are met during the implementation process and that the final Cityworks solution is tailored to the District's specific needs. Our team is dedicated to providing a successful and streamlined implementation experience.

TASK 1: WORKFLOW REVIEW MEETING (ONSITE)

Meet with District staff to review workflows that will be created and configured in the Cityworks AMS Application. This meeting provides an opportunity for the client to review and refine their workflows within the system, ensuring that the system is set up to meet their specific needs and processes.

During the meeting, the Cityworks team works with the client to review their existing workflows and identify any areas where improvements can be made. The team then recommends changes and modifications to the workflows, based on best practices and industry standards. The District has the opportunity to provide feedback and input, and to ask any questions they may have about the changes being proposed.

The Workflow Review Meeting is an essential step in ensuring that the Cityworks AMS system is configured to support the client's business processes and workflows. By optimizing these workflows, the client can improve their operational efficiency, reduce costs, and ensure that their assets are managed effectively. The Cityworks team's expertise in asset management and their in-depth understanding of the Cityworks AMS system ensures that the workflows are optimized and designed to deliver the best possible outcomes for the District.

Tasks:

1. Meet with District staff to review and understand the District workflows.
2. Get documentation from District that will provide the basis for the Business Unit AMS configuration.
 - a. Print Documents
 - b. Reports
 - c. Diagrams, Etc.

Deliverable Milestones:

- a. Meeting Notes

TASK 2: INITIAL CITYWORKS SYSTEM DESIGN & CONFIGURATION

Configuration of Cityworks system and database. During this phase, the Cityworks team works with the client to design and configure the system to meet their specific needs. This involves identifying the client's asset types, data requirements, workflows, and business processes, and then configuring the system accordingly.

The Initial Cityworks System Design & Configuration is an important step in the Cityworks AMS implementation process because it lays the foundation for the entire system. A well-designed and configured system can help organizations streamline their operations, improve data accuracy, and make better decisions about their assets. By working closely with the client during this phase, the Cityworks team can ensure that the system is tailored to their needs and will deliver maximum value over the long term.

Tasks:

1. Cityworks Database Configuration for Sewer Treatment Plant
2. Workflows
 - a. Service Requests
 - b. Work Orders
 - c. Inspections
 - d. Employees, Material, Equipment
 - e. Etc.
3. GIS Migration from Antero into ESRI GIS
4. Reports
5. GIS Integration
6. Field Module Setup

Deliverable Milestones:

- a. Configured Database

TASK 3: DATABASE REVIEW (ONSITE)

Meet with District staff to review workflows and Cityworks setup that has been configured. This task involves a comprehensive review of the District's setup asset data and Cityworks information, with the aim of ensuring that the data is accurate, complete, and well-organized.

Tasks:

1. Database Review
2. Workflow changes and configuration changes as needed
 - a. Onsite Workshops
 - b. Configuration and Documentation
 - c. Demonstrate Configuration
 - d. LGVSD Internal Review and Feedback

Deliverable Milestones:

- a. Meeting Notes
- b. Configuration changes

TASK 4: ADDITIONAL INFORMATION CONFIGURATION (REMOTE)

Centricity GIS will configure additional information collected as part of application forms, fees and deposits, contractor types, and any additional, ancillary application data that needs to be tracked inside of Cityworks.

Tasks:

1. Configure additional info
2. Up to 20 Custom Crystal Reports
3. Configure Office Inboxes for End Users (up to 2 inboxes per user)
4. Configure Respond Inboxes for End Users (up to 2 inboxes per user)
5. Creation of Saved Searches for Inboxes
6. Creation of Saved Advanced Queries for Respond Dashboards

Deliverable Milestones:

- a. Meeting Notes
- b. Any additional configuration changes and Inboxes and Dashboards

TASK 5: ADMIN TRAINING (ONSITE)

Centricity GIS will provide onsite Admin training for Cityworks. The District will provide the training facility and computers necessary for staff use. The Admin users will be identified during the kickoff and Configuration phases of the implementation.

Following the training of Administrator users, Centricity GIS will conduct a “Train-the-Trainer” style session with key department staff. The purpose of this training is to provide knowledge and steps necessary to train all other field personnel who will use the system.

Reporting – During the Admin Training, Crystal Reports training will also be covered to ensure that the Admin staff from the District are well training in creating additional custom reports as needed for the District.

Searching/Reporting within Cityworks will also be covered heavily in the Admin training to ensure a deep knowledge of how to extract and organize data from Cityworks is understood.

Deliverable Milestones:

- a. Admin Training
- b. Report Training
- c. Copy of training material used in training session delivered in digital format (PDF)
- d. Preparation for Go-live

TASK 6: END USER TRAINING (ONSITE)

Centricity GIS will provide onsite training for the primary, or “End Users” of Cityworks. The District will provide the training facility and computers necessary for staff use.

The purpose of this training is to provide knowledge and steps necessary to train all other field personnel who will use the system.

Training will occur over 1 days

Deliverable Milestones:

- a. User Training completed
- b. Copy of training material used in training session delivered in digital format (PDF)
- c. Go-live

TASK 7: USER ACCEPTANCE TESTING

The objective of this UAT plan is to ensure that the Cityworks AMS implementation meets all the business requirements and that the end-users are satisfied with the system's functionality, usability, and reliability.

The scope of this UAT plan includes all the modules and functionalities of the Cityworks AMS implementation, including asset management, work orders, inspections, service requests, and reports.

The UAT team will be composed of representatives from different departments and roles, including the project sponsor, business owners, end-users, and IT staff.

The testing environment will be a mirror of the production environment, with the same hardware, software, and data. The UAT team will have access to the Cityworks AMS implementation in a sandbox environment, which will not affect the live data.

The test plan will include the following phases:

Test Case Development: The UAT team will develop test cases based on the business requirements, use cases, and workflows. The test cases will cover all the functionalities and scenarios, including positive and negative tests, user interface tests, integration tests, and performance tests.

Test Execution: The UAT team will execute the test cases and document the results. The test execution will follow a structured approach, including setup, execution, and validation of each test case.

Defect Management: The UAT team will document any defects found during the testing, including the steps to reproduce, severity, and priority. The defects will be logged into the defect management system and tracked until resolution.

Test Reporting: The UAT team will provide regular reports to the project team on the testing progress, including the test results, defect status, and overall test coverage.

Acceptance Criteria

The Cityworks AMS implementation will be considered accepted if the following criteria are met:

All the test cases have been executed, and no critical or high severity defects are outstanding.

The end-users are satisfied with the system's functionality, usability, and reliability.

The system meets all the business requirements and objectives.

Sign-Off

Once the UAT is completed, the project sponsor will review the test results and provide the final sign-off on the Cityworks AMS implementation. The sign-off will indicate that the system meets all the acceptance criteria and is ready for production deployment.

This UAT plan provides a structured approach to testing the Cityworks AMS implementation and ensuring that it meets the business requirements and end-users' expectations. The UAT team will work closely with the project team and IT staff to identify and resolve any issues before the system is deployed into production.

Deliverable Milestones:

- a. UAT Complete
- b. Testing Reports Compiled
- c. System Signoff Complete

TASK 8: ROLLOUT SUPPORT (ONSITE)

After the configuration, installation and training phases have concluded, we will provide Onsite rollout support.

1. Determine with department manager/champion what data/inboxes need to be displayed.
2. Build Dashboards – Build end user and management inboxes/dashboards
3. Cityworks Reconfiguration that needs completed based on Work Flow Meetings and Admin training.
4. Configuration of Mobile Apps.

Deliverable Milestones:

- a. Onsite Roll Out Support

TASK 9: AD-HOC SUPPORT

After the configuration, installation and training phases have concluded, we will provide troubleshooting and support services. **Used as needed up to 120 hours.**

1. Determine with department manager/champion what data/inboxes need to be displayed.
2. Build Inboxes – Build end user and management inboxes
3. Cityworks Reconfiguration that needs completed based on Work Flow Meetings and Admin training.
4. Configuration of Mobile Apps (if applicable licenses from Cityworks apply)
5. Crystal Report Development
6. Dashboards and KPI's

Deliverable Milestones:

- a. Support as needed at negotiate rate of \$200/hr

TASK 10: HISTORICAL DATA MIGRATION FROM ANTERO

Historical data migration is a critical task in the implementation of Cityworks Asset Management System (AMS) as it involves the transfer of all the historical work history from an old system to the new system. This task requires careful planning, preparation, and execution to ensure that all data is accurately transferred and seamlessly integrated into the new system.

The first step in the historical data migration task is to identify the source system and the data that needs to be migrated. The source system should be thoroughly reviewed to ensure that all relevant data is identified and extracted for migration. This process may involve working with legacy system administrators or IT staff to extract data from legacy databases, which can be in different formats and structures.

Once the source data has been identified, the next step is to clean and prepare the data for migration. This process involves data scrubbing, data mapping, and data transformation to ensure that the data is compatible with Cityworks AMS. This step also involves the development of custom scripts or programs to convert data into the required format for import.

The data migration itself involves importing the prepared data into Cityworks AMS. This process requires careful execution to ensure that all data is accurately transferred, and no data is lost or corrupted during the migration process. Depending on the size and complexity of the data, this process may take several hours or even days to complete.

After the data has been migrated, the next step is to test the data to ensure that it has been accurately transferred and integrated into the new system. This involves running a series of tests to ensure that all data is present and accounted for and that the data is accessible and usable within Cityworks AMS.

Finally, after the historical data migration has been completed and verified, it is essential to provide training and support to end-users. This includes training on how to access and use the migrated data, as well as providing ongoing support to ensure that any issues or questions are promptly addressed.

Overall, the historical data migration task is critical to the success of a Cityworks AMS implementation. It requires careful planning, preparation, and execution to ensure that all historical work history data is accurately transferred and seamlessly integrated into the new system.

Deliverable Milestones:

- a. Data mapping and conversion plan
- b. Data migration scripts or programs
- c. Import log
- d. Test plans and test cases
- e. Data migration completion report

Firm Description & Project Organization

Centricity GIS, LLC is a premier multi-service organization that specializes in Field Asset Surveying, Geographic Information Systems (GIS), and application software services. Our team of experienced professionals provides a comprehensive range of services, including consulting, training, staffing, and technical support to meet the diverse needs of our clients.

We are committed to delivering the highest quality GIS-centric and Cityworks implementation projects, particularly in the utility industry for Water, Sewer, Storm, Gas, and Electric. Our team has over 20 years of experience in GIS and 25 years in Cityworks implementation, backed by a wealth of industry and technical expertise.

At Centricity GIS, we take pride in setting the standard for excellence in GIS and Cityworks implementation. We strive to provide our clients with the most innovative and effective solutions to help them achieve their goals and maximize their return on investment.

CENTRICITY GIS is a Dun & Bradstreet verified business (DUNS 08-085-9425).



Partners:

- Cityworks Business Partner Network
- ESRI Silver Partner



Management

Brandon Wright, the founder of Centricity GIS, LLC, is a highly accomplished professional with over 19 years of experience in Cityworks and GIS within the Asset Management industry. He graduated from the University of Colorado, USA, with a B.S. degree in Business Information Systems.

Mr. Wright has successfully completed over 50 Cityworks related projects, primarily implementing Cityworks systems with government agencies throughout the United States. His core competency is in implementing Cityworks Asset Management solutions for government agencies, including Water, Wastewater, Parks & Recreation, and more.

As the leader of Centricity GIS, Mr. Wright manages strategic planning, business development, and company operations. He also serves as the client liaison officer on all projects, overseeing scope, schedule, budget, and time frame.

Mr. Wright's specialties include Asset Management, Data Conversion, and Project Implementation. He is known for his exceptional project management skills and his ability to deliver high-quality results on time and within budget. His expertise and leadership have enabled Centricity GIS to become a trusted partner for government agencies and other organizations seeking GIS and Asset Management solutions.

PROJECT MANAGEMENT APPROACH:

Initiation: At the initiation stage, we will define the scope of the project, identify the stakeholders, and assess the feasibility of the project. We will also develop a project charter that outlines the project goals, objectives, and timelines.

Planning: In the planning phase, we will create a detailed project plan that includes a work breakdown structure (WBS), project schedule, resource allocation, and risk management plan. We will also define the project requirements, deliverables, and acceptance criteria.

Execution: During the execution phase, we will implement the project plan, monitor the progress of the project, and manage any changes to the scope, schedule, or resources. We will also ensure that the project deliverables are produced according to the specifications and quality standards.

Monitoring and Control: The monitoring and control phase involves tracking the progress of the project against the project plan, identifying any deviations from the plan, and taking corrective actions to keep the project on track. We will also manage project risks, communicate progress to stakeholders, and ensure that project documentation is up to date.

Closure: In the closure phase, we will deliver the project deliverables, conduct a final review of the project, and obtain approval from stakeholders. We will also

close out the project, including archiving project documents and conducting a lessons learned review to identify areas for improvement.

By following this project management approach, Centricity GIS, LLC will ensure that its projects are completed on time, within budget, and to the satisfaction of its stakeholders.

Software Skills

GIS Software: ArcGIS Desktop, ArcGIS Online, ArcGIS Server, ArcGIS Pro

Asset Management Software: Cityworks PLL and AMS

Databases: Access, SQL Server, Oracle, Geodatabase

Reporting Tools: Crystal Reports, SQL Server Reporting Services


Qualifications and Past Performance


The following table shows the combined project experience of our team.


- Centricity GIS Reference Sites


Client	Implementation	Support	PLL	AMS	Reporting	Integrations
Moses Lake, WA	✓	✓	✓	✓	✓	✓
West Valley City, UT	✓	✓	✓	✓	✓	✓
Park City, UT	✓	✓		✓	✓	
Herriman, UT	✓	✓	✓	✓	✓	✓
Saratoga Springs, UT	✓	✓	✓	✓	✓	
Rancho Palos Verdes, CA	✓	✓		✓	✓	
Las Gallinas Valley Sanitary District, CA		✓		✓		
Redlands, CA	✓	✓	✓	✓	✓	✓
Cook County, IL	✓	✓	✓	✓	✓	
DDOT, Washington, DC	✓	✓		✓	✓	
Apex, NC	✓	✓		✓	✓	
Houston, TX	✓	✓		✓	✓	
Ruidoso, NM	✓	✓		✓	✓	


References


Item	Proposer Response
Client Reference No. 1 – Existing	
Name	City of Santa Cruz, CA
Number of Employees	300+
Population	61,950 (2021)
Contact Name	Ken Morgan
Contact Title	Director of IT
Contact Telephone Number	831-420-5095
Contact E-Mail Address	kmorgan@santacruzca.gov
Products, Modules, Services Provider by Proposer	Cityworks AMS Water and Wastewater. Vertical Assets and Coastline Management
Implementation Kick Off Date	October 2022
Go Live Date	Estimated July 2023
Rationale for including the specific reference	Current client in the state of California implementing
Name of prior replaces/upgraded system	NA


Client Reference No. 2 – Existing	
Name	City of Salinas, CA
Number of Employees	100+
Population	162,000
Contact Name	Eric Sandoval
Contact Title	GIS Administrator
Contact Telephone Number	831-758-7166
Contact E-Mail Address	erics@ci.salinas.ca.us
Products, Modules, Services Provider by Proposer	Cityworks AMS for Parks and Facilities
Implementation Kick Off Date	August 2022
Go Live Date	December 2022
Rationale for including the specific reference	Cityworks California Implementation
Name of prior replaces/upgraded system	None


Client Reference No. 3 – Existing	
Name	City of Huntington Beach, CA
Number of Employees	100+
Population	196,652
Contact Name	Bryan Arnado
Contact Title	Utilities Technology Supervisor
Contact Telephone Number	714-536-5206
Contact E-Mail Address	bryan.arnado@surfcity-hb.org
Products, Modules, Services Provider by Proposer	Cityworks AMS implementation for Parks and Sewer
Implementation Kick Off Date	May 2022
Go Live Date	September 2022
Rationale for including the specific reference	Cityworks Implementation for Parks and Sewer Laterals. Expanding to remainder of City.

Client Reference No. 4 – Existing	
Name	American Fork City, UT
Number of Employees	100+
Population	35,000
Contact Name	Jay Brems
Contact Title	Water Dept Manager
Contact Telephone Number	801-404-6129 x58
Contact E-Mail Address	jbrems@americanfork.gov
Products, Modules, Services Provider by Proposer	Cityworks AMS implementation City wide
Implementation Kick Off Date	October 2020
Go Live Date	March 2021
Rationale for including the specific reference	Cityworks City wide implementation. Including Citizen Reporting system tied into Cityworks.
Name of prior replaces/upgraded system	Elements

Item	Proposer Response
Client Reference No. 5 – Existing	
Name	City of Moses Lake, Washington
Number of Employees	300+
Population	24,009 (2018)
Contact Name	Cindy Smith
Contact Title	GIS Program Manager
Contact Telephone Number	509-764-3754
Contact E-Mail Address	csmith@cityofml.com
Products, Modules, Services Provider by Proposer	Cityworks AMS and PLL. Citywide Implementation. Building, Planning, Fire, Code Enforcement.
Implementation Kick Off Date	February 2020
Go Live Date	November 2020
Rationale for including the specific reference	Current client in the state of Washington
Name of prior replaces/upgraded system	Dude Solutions

Client Reference No. 6 – Existing	
Name	Park City, Utah
Number of Employees	100+
Population	8500
Contact Name	Scott Barrell
Contact Title	GIS Analyst
Contact Telephone Number	801-573-5470
Contact E-Mail Address	Scott.barrell@parkcity.org
Products, Modules, Services Provider by Proposer	Citywide Cityworks AMS for water distribution and treatment
Implementation Kick Off Date	December 1, 2017
Go Live Date	November 1, 2018
Rationale for including the specific reference	Cityworks Water reference site
Name of prior replaces/upgraded system	iWorQ

Client Reference No. 7 – Existing	
Name	Dixon, CA
Number of Employees	100+
Population	20,084
Contact Name	Josh Hudson
Contact Title	Operations Supervisor - Water Distribution Division
Contact Telephone Number	530-682-3265
Contact E-Mail Address	jhudson@cityofdixon.us
Products, Modules, Services Provider by Proposer	Cityworks AMS implementation for Water
Implementation Kick Off Date	November 1, 2020
Go Live Date	May 15, 2021
Rationale for including the specific reference	Full Cityworks AMS Implementation for Water group including Facility work orders and inspections.

Client Reference No. 8 – Existing	
Name	San Juan Water District
Number of Employees	100+
Population	160,000
Contact Name	David Long
Contact Title	CMMS Coordinator
Contact Telephone Number	916-791-6927
Contact E-Mail Address	dlong@sjwd.org
Products, Modules, Services Provider by Proposer	Cityworks AMS implementation for Water
Implementation Kick Off Date	2019
Go Live Date	9/1/2019
Rationale for including the specific reference	Cityworks for Water Distribution and Treatment. This customer moved away from Maintenance Connection and utilized the Esri Utility Network Data Model. They worked with HDR on this project.
Name of prior replaces/upgraded system	Maintenance Connection

EDUCATION

Bachelor of Science
Degree, Business
Information Systems,
University of Colorado



Brandon Wright Founder/Project Oversight

Mr. Wright has over 20 years of experience providing Asset Management and GIS services to public agencies. Mr. Wright has been responsible for directing asset management projects and addressing logistical and technical concerns. Prior to working at Centricity GIS, Mr. Wright worked Cityworks for 10 years.

Services include database development/administration and maintenance, map creation, needs assessment, implementation and integration. Integration services include integrating GIS databases (SQL Server or Oracle) with other systems such as Asset Management Systems, Customer Billing, Document Management and Work Orders. He also provides system training, and general IT consulting services.

Summary of Skills

- Expertise using ESRI's ArcGIS software products, ArcGIS Desktop 10.x, ArcGIS Server, ArcGIS Online
- Experience in administration of Cityworks AMS & PLL
- Cityworks PLL Administration Training
- Expertise in Mapping, GIS Data Modeling, Systems Integration, Needs Assessments
- Over 10 years of Project Management experience
- Database experience with SQL Server, Oracle, and Microsoft Access

Representative Projects

- Moses Lake, Washington, Cityworks and PLL Implementation
- Rancho Palos Verdes, Cityworks Implementation
- Vista Irrigation District, Cityworks Implementation
- San Mateo, Cityworks Implementation
- Cook County, IL, Cityworks and PLL Implementation
- Saratoga Spring, UT, Cityworks and PLL Implementation
- Houston, TX, Cityworks Implementation/Expansion
- DDOT (Washington, D.C.), Cityworks Implementation/Expansion
- Columbia, SC, Cityworks Implementation/Expansion
- Lafayette, LA, Cityworks Implementation
- El Paso, TX, Cityworks Implementation/Expansion
- Apex, NC, Cityworks Implementation

Implementation Fee/Cost Proposal

Cityworks Implementation Costs

Task	Description	Total Cost
1	Workflow Review Meetings (3 Days Onsite)	\$ 12,000
	Kickoff Meeting & Workflow Meetings Meeting Notes	
2	Initial Cityworks Database Configuration	\$ 120,000
	Configuration for Cityworks AMS	
3	Database Review (3 Days Onsite)	\$ 12,000
	Post Review Changes Meeting Notes and Action Items	
4	Additional Information Configuration	\$ 25,000
	Dashboards Saved Searches Inboxes Configuration Changes Crystal Reports	
5	Admin Training (2 Days)	\$ 8,000
	Onsite Admin Training for District Admin Users	
6	End User Training (5 Days Onsite)	\$ 20,000
	Onsite End User Training for District Users	
7	User Acceptance and Testing	\$ 10,000
	Rollout of UAT Testing	
8	Rollout Support (5 Days Onsite)	\$ 20,000
	Onsite Support for End Users when system goes live	
9	Ad-Hoc Support (up to 160 hours)	\$ 32,000
	Configuration Changes Admin Support Dashboards/KPI's Mobile App Configuration Any other Ad-Hoc Support that may be needed Crystal Report Development (Up to 160 Hours) Billed at \$200/Hr As Used, Post Go Live.	
10	Historical Data Migration	\$ 40,000
	Historical Data Migration from Antero to Cityworks	
	<u>Total Implementation Including Ad-Hoc Support</u>	<u>\$ 299,000</u>




Item Number _____ 2E _____

GM Review _____ CP _____

Agenda Summary Report

To: Board of Directors

From: Dale McDonald, Administrative Services Manager 
 (415) 526-1519 dmcdonald@lqvsd.org

Mtg. Date: July 6, 2023

Re: Revise Policy F-50 (Reserves)

Item Type: Consent Action Information Other .

Standard Contract: Yes No (See attached) Not Applicable .

STAFF RECOMMENDATION

Adopt Resolution No. 2023-2314 revising the District Reserve Policy F-50.

BACKGROUND

The District Reserve Policy guides the Board and staff on the establishment of reserves, explains the purpose and reasons for the size of each reserve, and provides for the oversight of reserves.

On June 15, 2023, the Board reviewed proposed changes to the Reserve policy, including updates to target goals and the addition of a new section on restricted reserves. Comments made were incorporated below Section F-50-10, the Designated Reserve Fund Policy table.

Policies of the Board are to be updated by resolution.

PREVIOUS BOARD ACTION

Reserve Policy was last modified by Board Resolution No. 2022-2255 on May 19, 2022.

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

None. The fiscal impact will occur when funds are allocated to reserves as part of the budget process and adoption scheduled for June 30, 2023.

RESOLUTION NO. 2023-2314

A RESOLUTION APPROVING REVISED BOARD POLICY F-50 RESERVES

LAS GALLINAS VALLEY SANITARY DISTRICT

WHEREAS, the Board of Directors (“Board”) has determined that a comprehensive list of Policies and Procedures for the Board is in the best interest of the District; and

WHEREAS, the Board has compiled a comprehensive list of Policies and Procedures to serve as the rules and regulations of the Board; and

WHEREAS, the Board did adopt such comprehensive list of Policies and Procedures on July 9, 2009; and

WHEREAS, such policies may need to be updated from time to time; and

WHEREAS, on June 15, 2023, the Board reviewed and suggested changes to Board Financial Policy F-50 Reserves.

NOW THEREFORE, the Sanitary Board of the Las Gallinas Valley Sanitary District approves the following revised policy section F-50 RESERVES in its entirety. The previously approved Board Policy F-50 is hereby revoked and declared null and void.

If any policy or portion of a policy contained within the Policies and Procedures is in conflict with rules, regulations, or legislation having authority over the Las Gallinas Valley Sanitary District, said rules, regulations or legislation shall prevail.

The Policies and Procedures shall remain in effect until amended by at least a majority vote of the Board of Directors.

* * * * *

I hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly passed and adopted by the Sanitary Board of the Las Gallinas Valley Sanitary District, Marin County, California, at a meeting thereof held on the 6th day of July 2023, by the following vote of the members thereof:

- AYES, and in favor thereof Members:
- NOES, Members:
- ABSENT, Members:
- ABSTAIN, Members:

Teresa Lerch, Board Secretary

APPROVED:

Megan Clark, Board President

F-50 RESERVES

Purpose

This policy establishes reserves, explains the purpose and reasons for the size of each reserve, and provides for the oversight of reserves.

The District requires reserves for operations and capital needs. Reserves provide financing safeguards for the District’s operations. Such funds are available for extraordinary expenses and to fund cash flow. In addition, reserve fund investments generate earnings to supplement other revenues.

The District has two types of reserve funds: Designated Reserves and Restricted Reserves. Board Designated Reserves are comprised of funds set aside for specific purposes as determined by the District Board of Directors, which include, but are not limited to, funding for capital facility construction, replacement and refurbishment, and establishing operating and rate stabilization. The Board has the authority to redirect the use of the Designated Reserves as the needs of the District change. Restricted Reserves are funds held to satisfy limitations set by external requirements and restraints of agreements, creditors, grantors, or law.

F-50-10 Designated Reserve Fund Policies

PURPOSE	OPERATING & RATE STABILIZATION RESERVE Fund unexpected expense increases or offset loss of Sewer Service Charge revenue. Replenish any reserves used over a 6-to-10-year period.	VEHICLE & EQUIPMENT RESERVE (VERF) Fund capital vehicle replacement based on VERF program. Replenish any reserves used to adequately fund program for 3 to 4 years.	EMERGENCY REPAIR RESERVE Fund emergency repairs. Replenish the reserve over a 2 to 3 year period.	CAPITAL RESERVE Provide capital for major capital projects including upgrades and expansions.	TOTAL COMBINED RESERVES
CURRENT STATUS					
Target Goal * <i>(as of 6/30/23)</i>	\$9,085,466 <u>10,000,000</u>	\$1,000,000	\$1,000 <u>500,000</u>	\$411,000,000.	\$1523,085,466 <u>500,000</u>
Balance * <i>(as of 06/30/23) Balance</i>	\$2,651,898 <u>4,248,594</u>	\$1,094,425 <u>499,376</u>	\$1,000,000 <u>166,667</u>	\$3,425,644 <u>9,184,772</u>	\$8,171,967 <u>15,099,409</u>
Percent Reached *	2942%	40450%	40078%	8683%	
Risks	The reserve is used to absorb unexpected cost increases and spread them over more than one year. Provide for this reserve by funding from property tax and ERAF funds.	Aging vehicle fleet without proper replacement funding risks operational interruptions and sewer overflow response delays.	Balance may be used to fund working capital needs. Fund would not be large enough to address a catastrophic event.	Without a reserve, projects are funded with current year revenue in excess of O&M needs; or the District has to rely on bond financing. At the time the reserve balance was established the District had operating and capital reserves of \$10M.	

** For the latest Target Goal, Balance, and Percentage Reached refer to the most recently adopted budget.*

LONG-TERM GOALS

LONG-TERM GOALS					
Basis for Target Goal	7 months of operating and debt service cash flow based on most current budget; amount to be evaluated annually based on proposed budget. Reserve can be used to stabilize and avoid dramatic rate increases.	VERF program that determines useful vehicle life, varying from 5 to 10 years. Vehicle schedule used to develop target goal annually as part of budget process.	The cost to repair a major pump station or other infrastructure.	To provide capital for major capital projects that span two or more years. Accumulated depreciation to be reviewed and factored into setting target to have current ratepayer pay for the utilization of the District's assets.	
The district will build up the reserves based on: (a) the annual Construction CPI and (b) annual allocations of property tax and ERAF funds, as available.					
Considerations	Due to the timing of revenue receipts an increased margin would be more comfortable. A sudden increase in costs would have to be absorbed by operating reserves since the rate setting process occurs every 4 to 5 years.	May not be sufficient to fund three or more unexpected large vehicle or equipment purchases.	The reserve would be able to absorb one major repair or several smaller ones; a catastrophic event would require federal or state funding.	Should be sufficient for cash funding or regular projects but may not be enough for larger infrastructure replacements where debt may be incurred.	

F-50-15 Target Goal and Balances. The target goal varies by reserve fund and is developed annually as part of the budget process. Target goals may change as future budgets are adopted. For the latest balances refer to the most recently adopted budget.

F-50-20 Use of Designated Reserves. Upon recommendation of the General Manager, the Board shall identify the reserve to be utilized and authorize the General Manger to transfer reserve funds to the respective operational or capital funds as part of the budget process. Any use outside of the budget process shall be reflected in any revised budget or by resolution of the Board.

F-50-30 Restricted Reserves

Capacity Connection Fee Fund: Cash available from the collection of Capital Facilities Charge Connection Fees is kept in a separate fund. The fee is charged to developers based upon the estimated cost to construct additional capacity to serve the new development. These funds are restricted by law for expansion of sewer facilities that increase capacity within the District's service area. Funds are disbursed from the reserve as expenditures are incurred to increase system capacity to serve the new connections that contributed to the fund through fees collected. The fund balance accrues interest monthly. *(Government Code § 66013(c)).*

Captains Cove Fund: In 2003, the District entered into an agreement with the Captain's Cove Homeowner's Association to accept into the public sewer system the private sewer pumping and collections systems serving Captain's Cove, a 160-unit condominium project. A special sewer service charge surcharge is collected annually to fund the maintenance and operational costs of the disproportionate number of pump stations within the community. Funds are

disbursed from the reserve to cover Operating and Maintenance costs which include, but are not limited to, the following: the actual cost of labor (including general and administrative overhead plus tools and supplies normally applied), equipment and vehicle charges, consumables (such as electrical power), and spare parts and/or replaced components as necessary. Use of funding for capital outlay projects that serve Captain’s Cove is identified as part of the budget process and must be approved by Board action.

Marin Lagoon Fund: In 1989, the District approved a sanitary sewerage system necessary to serve the community of Marin Lagoon. The cost of maintenance and operation of (9) nine sanitary sewerage lift stations are far in excess of those costs incurred by the District in providing such service to other parts of the District. A special sewer service charge surcharge is collected annually to fund the maintenance and operational costs of the disproportionate number of sanitary sewerage lift stations within the community. Funds are disbursed from the reserve to cover Operating and Maintenance costs which include, but are not limited to, the following: the actual cost of labor (including general and administrative overhead plus tools and supplies normally applied), equipment and vehicle charges, consumables (such as electrical power), and spare parts and/or replaced components as necessary. Use of funding for capital outlay projects that serve Marin Lagoon is identified as part of the budget process and must be approved by Board action.

Recycled Water Capital Repair and Replacement Fund: The 2017 agreement between Las Gallinas Valley Sanitary District (“Producer”) and Marin Municipal Water District (“Distributor”) for purchase and sale of recycled water includes a requirement that the Producer establish and maintain a separate fund for capital repair and replacement costs of the Recycled Water Treatment Facility (“RWTF”) constructed as part of the Secondary Treatment Plant Upgrade Recycled Water Expansion Project. Both the Producer and Distributor pay into the fund by multiplying the total annual -Operation and Maintenance Costs charged to the RWTF by 10%. The fund will pay for any items that cost more than five thousand dollars (\$5,000.00) and have a useful life of more than one year. Capital repair or replacement items or projects costing less than \$5,000 will be charged to the Producer’s Operation and Maintenance budget. The Capital Repair and Replacement Fund shall not exceed \$500,000 in total, and such funds shall only be used for capital repair and replacement costs of the RWTF. The fund balance accrues interest monthly.

Resolution No. 2022-2255<u>2023-2314</u>	Date Approved: *** DRAFT **** <u>July 6, 2023</u>
President of the Board	Last Revised: May 19, 2022 <u>May 19, 2022</u>

F-50 RESERVES

Purpose

This policy establishes reserves, explains the purpose and reasons for the size of each reserve, and provides for the oversight of reserves.

The District requires reserves for operations and capital needs. Reserves provide financing safeguards for the District’s operations. Such funds are available for extraordinary expenses and to fund cash flow. In addition, reserve fund investments generate earnings to supplement other revenues.

The District has two types of reserve funds: Designated Reserves and Restricted Reserves. Board Designated Reserves are comprised of funds set aside for specific purposes as determined by the District Board of Directors, which include, but are not limited to, funding for capital facility construction, replacement and refurbishment, and establishing operating and rate stabilization. The Board has the authority to redirect the use of the Designated Reserves as the needs of the District change. Restricted Reserves are funds held to satisfy limitations set by external requirements and restraints of agreements, creditors, grantors, or law.

F-50-10 Designated Reserve Fund Policies

PURPOSE	OPERATING & RATE STABILIZATION RESERVE Fund unexpected expense increases or offset loss of Sewer Service Charge revenue. Replenish any reserves used over a 6-to-10-year period.	VEHICLE & EQUIPMENT RESERVE (VERF) Fund capital vehicle replacement based on VERF program. Replenish any reserves used to adequately fund program for 3 to 4 years.	EMERGENCY REPAIR RESERVE Fund emergency repairs. Replenish the reserve over a 2 to 3 year period.	CAPITAL RESERVE Provide capital for major capital projects including upgrades and expansions.	TOTAL COMBINED RESERVES
CURRENT STATUS					
Target Goal * (as of 6/30/23)	\$10,000,000	\$1,000,000	\$1,500,000	\$11,000,000.	\$23,500,000
Balance * (as of 06/30/23)	\$4,248,594	\$499,376	\$1,166,667	\$9,184,772	\$15,099,409
Percent Reached *	42%	50%	78%	83%	
Risks	The reserve is used to absorb unexpected cost increases and spread them over more than one year. Provide for this reserve by funding from property tax and ERAF funds.	Aging vehicle fleet without proper replacement funding risks operational interruptions and sewer overflow response delays.	Balance may be used to fund working capital needs. Fund would not be large enough to address a catastrophic event.	Without a reserve, projects are funded with current year revenue in excess of O&M needs; or the District has to rely on bond financing. At the time the reserve balance was established the District had operating and capital reserves of \$10M.	

* For the latest Target Goal, Balance, and Percentage Reached refer to the most recently adopted budget.

LONG-TERM GOALS					
Basis for Target Goal	7 months of operating and debt service cash flow based on most current budget; amount to be evaluated annually based on proposed budget. Reserve can be used to stabilize and avoid dramatic rate increases.	VERF program that determines useful vehicle life, varying from 5 to 10 years. Vehicle schedule used to develop target goal annually as part of budget process.	The cost to repair a major pump station or other infrastructure.	To provide capital for major capital projects that span two or more years. Accumulated depreciation to be reviewed and factored into setting target to have current ratepayer pay for the utilization of the District's assets.	
The district will build up the reserves based on: (a) the annual Construction CPI and (b) annual allocations of property tax and ERAF funds, as available.					
Considerations	Due to the timing of revenue receipts an increased margin would be more comfortable. A sudden increase in costs would have to be absorbed by operating reserves since the rate setting process occurs every 4 to 5 years.	May not be sufficient to fund three or more unexpected large vehicle or equipment purchases.	The reserve would be able to absorb one major repair or several smaller ones; a catastrophic event would require federal or state funding.	Should be sufficient for cash funding or regular projects but may not be enough for larger infrastructure replacements where debt may be incurred.	

F-50-15 Target Goal and Balances. The target goal varies by reserve fund and is developed annually as part of the budget process. Target goals may change as future budgets are adopted. For the latest balances refer to the most recently adopted budget.

F-50-20 Use of Designated Reserves. Upon recommendation of the General Manager, the Board shall identify the reserve to be utilized and authorize the General Manger to transfer reserve funds to the respective operational or capital funds as part of the budget process. Any use outside of the budget process shall be reflected in a revised budget or by resolution of the Board.

F-50-30 Restricted Reserves

Capacity Connection Fee Fund: Cash available from the collection of Capital Facilities Charge Connection Fees is kept in a separate fund. The fee is charged to developers based upon the estimated cost to construct additional capacity to serve the new development. These funds are restricted by law for expansion of sewer facilities that increase capacity within the District's service area. Funds are disbursed from the reserve as expenditures are incurred to increase system capacity to serve the new connections that contributed to the fund through fees collected. The fund balance accrues interest monthly. (*Government Code § 66013(c)*).

Captains Cove Fund: In 2003, the District entered into an agreement with the Captain's Cove Homeowner's Association to accept into the public sewer system the private sewer pumping and collections systems serving Captain's Cove, a 160-unit condominium project. A special sewer service charge surcharge is collected annually to fund the maintenance and operational costs of the disproportionate number of pump stations within the community. Funds are disbursed from the reserve to cover Operating and Maintenance costs which include, but are

not limited to, the following: the actual cost of labor (including general and administrative overhead plus tools and supplies normally applied), equipment and vehicle charges, consumables (such as electrical power), and spare parts and/or replaced components as necessary. Use of funding for capital outlay projects that serve Captain’s Cove is identified as part of the budget process and must be approved by Board action.

Marin Lagoon Fund: In 1989, the District approved a sanitary sewerage system necessary to serve the community of Marin Lagoon. The cost of maintenance and operation of (9) nine sanitary sewerage lift stations are far in excess of those costs incurred by the District in providing such service to other parts of the District. A special sewer service charge surcharge is collected annually to fund the maintenance and operational costs of the disproportionate number of sanitary sewerage lift stations within the community. Funds are disbursed from the reserve to cover Operating and Maintenance costs which include, but are not limited to, the following: the actual cost of labor (including general and administrative overhead plus tools and supplies normally applied), equipment and vehicle charges, consumables (such as electrical power), and spare parts and/or replaced components as necessary. Use of funding for capital outlay projects that serve Marin Lagoon is identified as part of the budget process and must be approved by Board action.

Recycled Water Capital Repair and Replacement Fund: The 2017 agreement between Las Gallinas Valley Sanitary District (“Producer”) and Marin Municipal Water District (“Distributor”) for purchase and sale of recycled water includes a requirement that the Producer establish and maintain a separate fund for capital repair and replacement costs of the Recycled Water Treatment Facility (“RWTF”) constructed as part of the Secondary Treatment Plant Upgrade Recycled Water Expansion Project. Both the Producer and Distributor pay into the fund by multiplying the total annual Operation and Maintenance Costs charged to the RWTF by 10%. The fund will pay for any items that cost more than five thousand dollars (\$5,000.00) and have a useful life of more than one year. Capital repair or replacement items or projects costing less than \$5,000 will be charged to the Producer’s Operation and Maintenance budget. The Capital Repair and Replacement Fund shall not exceed \$500,000 in total, and such funds shall only be used for capital repair and replacement costs of the RWTF. The fund balance accrues interest monthly.

Resolution No. 2023-2314	Date Approved: July 6, 2023
President of the Board	Last Revised: May 19, 2022



ORDER REGARDING PUBLICATION

The Board of Directors finds that A Notice of Public Hearing for Ordinance 192, was published in the Marin Independent Journal on June 15 and June 22, 2023 as required by the California Health and Safety Code and the Ordinance has been available for inspection at the District's offices and on its website. This Order constitutes conclusive evidence of compliance with requirements for publication and posting of this ordinance. This Order shall be posted at the following locations and is available for inspection at the District's office.

The Order shall be posted in the following locations in the District, as follows:

1. Las Gallinas Valley Sanitary District Administrative Office
101 Lucas Valley Road, Suite 300
San Rafael, California 94903
2. Las Gallinas Valley Sanitary District Web Site
www.lgvsd.org

Signed this date at San Rafael, Marin County, California:

Date

Megan Clark, Board President

Marin Independent Journal

4000 Civic Center Drive, Suite 301
San Rafael, CA 94903
415-382-7335
legals@marinij.com

2074259

LAS GALLINAS VALLEY SANITARY
101 LUCAS VALLEY RD SUITE#300
SAN RAFAEL, CA 94903

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

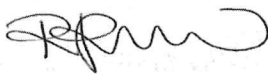
**STATE OF CALIFORNIA
County of Marin**

I am a citizen of the United States and a resident of the County aforesaid: I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer of the MARIN INDEPENDENT JOURNAL, a newspaper of general circulation, printed and published daily in the County of Marin, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Marin, State of California, under date of FEBRUARY 7, 1955, CASE NUMBER 25566; that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

06/15/2023, 06/22/2023

I certify (or declare) under the penalty of perjury that the foregoing is true and correct.

Dated this 27th day of June, 2023.



Signature

PROOF OF PUBLICATION

Legal No. 0006759825

NOTICE OF PUBLIC HEARINGS
LAS GALLINAS VALLEY SANITARY

The Sanitary District is desirous of public comments on the Annual Sewer Service Charge rates for fiscal years 2023-2024 through 2026-2027, Ordinance 192 and the Annual Budget for fiscal year 2023-2024 prior to their adoption. Copies of the Sewer Rate Study and proposed Budget are available at the District Office as well as on the District's website at www.LGVSD.org.

Sewer Service Charge rate increases are proposed for a four-year period to become effective July 1, 2023.

Proposed Residential Charges: Single-family home or residential units such as condominiums and mobile homes - Annual Sewer Service Charge Rate per living unit. Multi-family residential units such as apartments - 90% of the Annual Sewer Service Charge per living unit.

Current Residential rate: \$1,122 (per dwelling unit per year)

Residential rate (per dwelling) Effective Dates:

	July 1, 2023	July 1, 2024	July 1, 2025	July 1, 2026
Single Family	\$1,233	\$1,356	\$1,492	\$1,641
Multi-Family	\$1,109	\$1,220	\$1,342	\$1,476
Mobile Home	\$1,233	\$1,356	\$1,492	\$1,641

Proposed Non-Residential Sewer Service Charges: Rates for non-residential customers are proportional to the rise in residential rates. Rates are calculated individually for each type of non-residential use, based on water usage and a strength factor of domestic, elevated, or high, which is an average cost to treat wastewater from a particular type of non-residential customer.

Non-Residential rate (per SSU per year) Effective Dates:

	July 1, 2023	July 1, 2024	July 1, 2025	July 1, 2026
Domestic Strength	\$1,233	\$1,356	\$1,492	\$1,641
Elevated Strength	\$2,243	\$2,467	\$2,714	\$2,985
High Strength	\$3,331	\$3,664	\$4,030	\$4,433

FURTHERMORE, the Las Gallinas Valley Sanitary District Board intends to adopt the District Annual Sewer Service Charge Increases and District Budget for 2023-2024 with or without modification at the public hearings set for June 30, 2023.

NOTICE IS HEREBY GIVEN, that on June 30, 2023 at 4:30 pm, at the San Rafael City Schools Board Room, 310 Nova Albion Way, San Rafael, on the 2nd Floor, the Las Gallinas Valley Sanitary District Board will hear and consider all comments to the Annual Sewer Service Charge Increases for 2023-2024 through 2026-2027, Ordinance 192 and on the District Budget for 2023-2024.

Dated: June 12, 2023

Curtis Paxton
General Manager
Las Gallinas Valley Sanitary District
6759825 June 15 & 22, 2023

7/6/2023

General Manager Report

- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation



Item Number _____ 4 _____
GM Review _____ CP _____

Agenda Summary Report

To: Board of Directors
From: Michael P. Cortez, PE, District Engineer
(415) 526-1518; mcortez@lqvsd.org
Mtg. Date: July 6, 2023
Re: Proposed Ordinance 193 – Amendment to Title 3, Chapter 2, Sanitary Code of the Las Gallinas Valley Sanitary District
Item Type: Consent _____ Action X Information _____ Other _____
Standard Contract: Yes _____ No _____ (See attached) Not Applicable X .

STAFF RECOMMENDATION

Board to adopt Ordinance No. 193, An Ordinance Amending Title 3, Chapter 2, An Ordinance Relating to Reimbursement for Public Sewer Main Extensions and/or Sewer Capacity Upgrades of the Ordinance Code of the Las Gallinas Valley Sanitary District.

BACKGROUND

The minimum posting requirement of the revisions related to Ordinance 193 has been satisfied, and District staff recommends adoption by the Board after the public hearing scheduled for July 6, 2023. The revisions would allow private developers to shoulder a proportionate share of the cost of sewer facility capacity upgrades through a Reimbursement Agreement, which is a common practice of other public agencies.

District legal counsel prepared the proposed revisions (“Exhibit A”) to the Ordinance as presented to the Board on June 1, 2023. The revisions were based on District staff’s discussion with the Land Development Ad Hoc Committee on April 3, 2023 and research and review of applicable codes by District legal counsel. Attached is the final version of Ordinance 193 (“Exhibit B”) for review and approval by the Board.

PREVIOUS BOARD ACTION

1. Board adopted Ordinance No. 164 incorporating revisions to the various sections of the District’s Ordinance Code on May 28, 2015.
2. On June 1, 2023, Board set a Public Hearing Date of July 6, 2023 for Ordinance No. 193, An Ordinance Amending Title 3, Chapter 2, An Ordinance Relating to Reimbursement for Public Sewer Main Extensions and/or Sewer Capacity Upgrades of the Ordinance Code of the Las Gallinas Valley Sanitary District.

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

N/A

CHAPTER 2

AN ORDINANCE RELATING TO REIMBURSEMENT FOR PUBLIC
SEWER MAIN EXTENSIONS AND/OR SEWER CAPACITY UPGRADES

ARTICLE I. PURPOSE. ~~Where t~~The extension of a public sewer and/or sewer capacity upgrades, to include but not limited to the increase in size and/or capacity of gravity sewers/sewer mains, -trunk lines or lateral extensions, the increase in size of sewer main lines or lateral extensions, pump stations, and/or force mains and/or gravity sewers, -to the existing sewer collection system that to- are necessary in order to serve any parcel or tract of land, the expense of such public sewer extension and/or sewer capacity upgrades shall be done by and borne by at the expense of the owner of said parcel or tract of land. However, ~~although,~~ the District reserves the right to perform the work and bill the owner for the cost, to perform the work itself, or to perform the work pursuant to special assessment proceedings. ~~Where the public sewer is more than four hundred (400) feet from the exterior wall of a proposed structure to the main sewer line~~ The District, in its sole discretion, ~~-may enter into a Reimbursement Agreement with the applicant to reimburse the applicant when others connect to the new main sewer line. The Reimbursement Agreement shall be valid for ten (10) years~~ but may be extended at the discretion of the District. Other applicants who connect to this main sewer line will contribute their proportionate share of the construction costs which shall be paid to the original applicant. The District Engineer in his sole discretion shall determine the relevant proportionality analysis to be used in a repayment calculation. No interest calculation shall be part of the relevant proportionality analysis ~~due any applicant.~~

**BOARD OF DIRECTORS OF THE
LAS GALLINAS VALLEY SANITARY DISTRICT**

**ORDINANCE NO. 193
AN ORDINANCE AMENDING TITLE 3, CHAPTER 2,
OF THE ORDINANCE CODE OF THE
LAS GALLINAS VALLEY SANITARY DISTRICT**

**AN ORDINANCE RELATING TO REIMBURSEMENT
FOR PUBLIC SEWER MAIN EXTENSIONS AND/OR SEWER CAPACITY
UPGRADES**

The Board of Directors of the Las Gallinas Valley Sanitary District, Marin County, California, does ordain as follows:

Section 1. Title 3, Chapter 2, An Ordinance Relating to Reimbursement for Public Sewer Main Extensions, is amended to read as follows:

ARTICLE I. PURPOSE. Where the extension of a public sewer and/or sewer capacity upgrades, to include but not limited to the increase in size and/or capacity of gravity sewers/sewer mains, trunk lines , pump stations, and/or force mains, to the existing sewer collection system that are necessary in order to serve any parcel or tract of land, the expense of such public sewer extension and/or sewer capacity upgrades shall be done by and borne by the owner of said parcel or tract of land. However, the District reserves the right to perform the work and bill the owner for the cost, to perform the work itself, or to perform the work pursuant to special assessment proceedings. The District, in its sole discretion, may enter into a Reimbursement Agreement with the applicant to reimburse the applicant when others connect to the new main sewer line. The Reimbursement Agreement shall be valid for ten (10) years but may be extended at the discretion of the District. Other applicants who connect to this main sewer line will contribute their proportionate share of the construction costs which shall be paid to the original applicant. The District Engineer in his/her sole discretion shall determine the relevant proportionality analysis to be used in a repayment calculation. No interest calculation shall be part of the relevant proportionality analysis.

Section 2. Upon adoption of this Ordinance, it shall be entered in full in the minutes of the Board of Directors, shall be posted in one place in the District, shall be published once in the Marin

Independent Journal, and shall take effect immediately upon the expiration of one (1) week of said publication and posting.

I hereby certify that the foregoing is a full, true and correct copy of the Ordinance duly and regularly passed and adopted by the Board of Directors of the Las Gallinas Valley Sanitary District of Marin County, California, at a meeting hereof held on July 6, 2023, by the following vote of members thereof:

AYES:
NOES:
ABSENT:
ABSTAIN:

Teresa Lerch, Board Secretary
Las Gallinas Valley Sanitary District

APPROVED:

Megan Clark, Board President

(seal)

7/6/2023

BOARD MEMBER REPORTS

CLARK

NBWA Board Committee, 2023 Operations Control Center Ad Hoc Committee, Other Reports

FORD

NBWRA, 2023 Operations Control Center Ad Hoc Committee, 2023 GM Evaluation Ad Hoc Committee, 2023 McInnis Marsh Ad Hoc Committee, 2023 Fleet Management Ad Hoc Committee, 2023 SF Bay Trail Ad Hoc Committee, Other Reports

MURRAY

Marin LAFCO, CASA Energy Committee, 2023 Biosolids Ad Hoc Committee, 2023 Development Ad Hoc Committee, 2023 SF Trail Ad Hoc Committee, Other Reports

ROBARDS

Gallinas Watershed Council/Miller Creek, 2023 Engineering Ad Hoc Committee re: STPURWE, 2023 McInnis Marsh Ad Hoc Committee, 2023 GM Evaluation Ad Hoc Committee, 2023 Development Ad Hoc Committee, Other Reports

YEZMAN

Flood Zone 7, CSRMA, Marin Special Districts Association, 2023 Ad Hoc Engineering Sub-Committee re: STPURWE, 2022 Biosolids Ad Hoc Committee, Other Reports



Agenda Item 5.3
 Air Quality, Climate Change & Energy Workgroup
 Date July 6, 2023

June 22, 2023
 8:30 – 10:30 a.m.
 Zoom Link

Meeting ID & Passcode: See Meeting Invite
 Phone: See Meeting Invite

ITEM	LEAD
Welcome/Roll Call	Jackie Zipkin (Chair), Greg Kester and Sarah Deslauriers (CASA)
Review/Approval of Agenda	All

PRIORITY ISSUES/ACTION ITEMS

	ITEM	LEAD	NOTES
1.	CARB Advanced Clean Vehicle Regulations	Sarah Greg Steve David	Proposed Regulations were adopted April 28 – CASA draft summary out for review, regulations limit biomethane-fueled vehicles to those in fleet as of Jan 1, 2024; Board resolution acknowledges need to collaborate w/ CASA on SB 1383 to maintain multiple uses for biogas, pursuing follow-on meetings w/ of CARB/state agencies
2.	SB 1383: Organic Waste CH₄ Reductions	Greg Sarah	CalRecycle outreach to Counties, Little Hoover Commission met May 23 on report and voted to approve delay of implementation
3.	EPA Renewable Fuel Standard RINs	Greg	EPA released proposed set rule Nov 30, CASA testified Jan 10, submitted comments Feb 10 supporting apportioning RIN values for sludge- vs food waste-derived biogas, final rule expected June 21
4.	CARB Low Carbon Fuel Standard	Greg Julia	Potential changes to LCFS being considered, community meetings May 31 and June 1 to receive public feedback on proposed changes to LCFS
5.	Criteria Pollutants & Toxics Emissions Reporting & Hot Spots Program	Sarah David	Wastewater sector can report BAU through 2028 (for 2027 data year), scheduling follow-up meeting with CARB to discuss timeline and next steps, beginning to draft RFP for Program Manager, Air Toxics Subgroup meeting: July 12
6.	Adaptation Update	Sarah	Sea Level Rise Action Plan – OPC to meet Aug 15, scheduling a meeting w/ CCC to discuss the H++ scenario in the SLR Planning Guidance, summary of Regional Water Board permit requirements to address climate change impacts and mitigation, SWRCB Climate Change website for tracking Water Board Actions, alliance of regional collaboratives for climate adaptation

STATE LEGISLATIVE & BUDGET UPDATE

	ITEM	LEAD	STATUS
1.	State Legislation	Jessica	2023 legislation, updated ACE bill list
2.	Governor’s Budget	Jessica	2023-24 Governor’s budget, May Revision , bond request letter

INFORMATIONAL ITEMS

	ITEM	LEAD	NOTES
1.	SB 1440 Biogas Procurement	Greg	PG&E and SoCalGas solicitations
2.	Methane Review/Monitoring at WRRFs	Sarah John	Princeton study states “WRRF methane emissions could be double...”, but is a screening step, outreach to researchers at Princeton underway, tracking UC Riverside research
3.	VT Carbon Sequestration Meta-Analysis	Sarah	Report expected 2023, c-sequestration potential summary
4.	BACT: Large Emergency Diesel Engines	David	BAAQMD, SMAQMD, and SJVAPCD adopted Tier 4; SCAQMD to adopt Tier 4 w/ source test provisions
5.	CARB Potential Amendments to Diesel Engine Off-Road Standards	Sarah	Tier 5 rulemaking (including CO ₂ standards), proposal 2024, implement to begin 2028 – next workshop: June 27

UPCOMING CONFERENCES/EVENTS

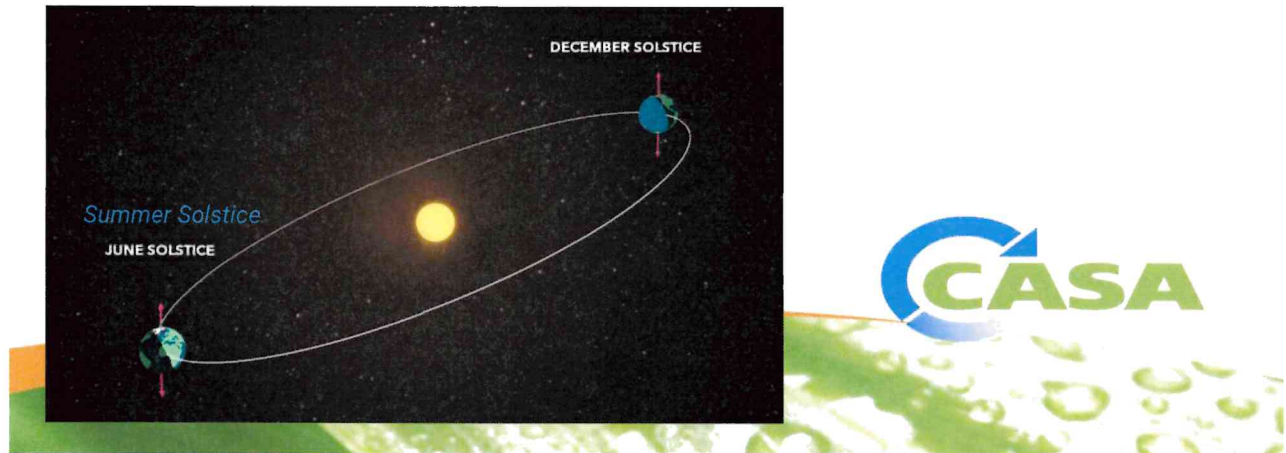
NAME	DATE/LOCATION
Clean Water SoCal Climate Action Plan Workshop	June 28, Hybrid/Orange County Water District
NACWA Utility Leadership Conference	July 11-14, Louisville
WEF Circular Water Economy Summit	July 18-20, Nashville
CASA Annual Conference	August 9-11, San Diego
CASA-CWEA Innovative Technology Seminars	November 29 (SFB-RWQCB office, Oakland) & 30 (Hyperion, LA)

NEXT MEETING: July 27th, 8:30-10:30 am

Air Quality, Climate Change, & Energy (ACE) Workgroup Meeting

June 22, 2023 (8:30 – 10:30 am)

Zoom Link – See Meeting Appointment



1

Priority Issues/ Action Items



2

1. CARB's Advanced Clean Fleet Regulations

Applies to gross vehicle weight rating >8,500 lbs (medium- and heavy-duty)

State & Local Government Agency Fleets include cities, counties, special districts, State agencies

- **If NOT considered** a low population county, have >10 vehicles in fleet:
 - January 1, 2024, 50% of vehicle purchases in each calendar year must be ZEVs
 - January 1, 2027, 100% of vehicle purchases in each calendar year must be ZEVs
- **If considered** low population county or ≤10 vehicles in fleet:
 - January 1, 2027, 100% of vehicle purchases in each calendar year must be ZEVs.
- Exemptions/extensions are available but confusing –
CASA is looking into streamlining the process!



CASA drafted a summary of the regulation for member review!

3

1. CARB's Advanced Clean Fleet Regulations

High Priority & Federal Fleets Requirements

If you are a WWTP, you can opt into this regulation:

- Allows more time to transition medium- and heavy-duty fleet vehicles (especially if opting in by Jan 1st, 2024, to avoid having to comply with the State & Local Government Agency Fleets Regulations)
- Allows biomethane fueled vehicles supporting SB 1383 facilities to opt into Milestone Group 3
- Does **NOT** provide for expansion of trucks fueled by biomethane in support of SB 1383 beyond Jan 1st, 2024

Percentage of vehicles that must be ZEVs →	10%	25%	50%	75%	100%
Milestone Group 1: Box trucks, vans, buses w/ two axles, yard tractors, light-duty package delivery vehicles	2025	2028	2031	2033	2035 & beyond
Milestone Group 2: Work trucks, day cab tractors, buses with three axles	2027	2030	2033	2036	2039 & beyond
Milestone Group 3: Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042 & beyond



4

1. CARB's Advanced Clean Fleet Regulations

■ Next Steps

- Circulating draft summary of regulation for member feedback
- CASA coordinating meeting with CARB Executive Officer to discuss approach for coordinating state agencies on ACF and SB 1383 implementation in response to Board Resolution
- Participating in groups discussing early lessons learned to determine how to streamline extensions and exemptions
- Other:
 - CARB expected to be sued as the regulation is submitted to Office of Administrative Law

5



2. SB 1383 Organic Waste Methane Emissions Reduction

- 40% methane reduction by 2030 (relative to 2013 levels)
- Organic waste diversion from landfills (includes biosolids, digestate, and sludges)
 - 50% by 2020 (relative to 2014 levels) and 75% by 2025 (relative to 2014 levels)
- Implementation – Effective Jan 1, 2022, local jurisdictions to start enforcement Jan 1, 2024, and Compliance by Jan 1, 2025
- CalRecycle outreach to overturn restrictive County ordinances
- Article 2 applicant, H Cycle, theoretically produces a low-carbon hydrogen using thermal conversion technology – to be approved
- Little Hoover Commission (an independent state oversight agency, bipartisan board composed of five public members appointed by the governor, four public members appointed by the Legislature, two senators and two assemblymembers)
 - Voted to recommend “temporary pause” in implementation with no timeline
 - Successfully achieving the goals will require changes in law and regulation, additional funding, and create more holistic approach to reducing landfill methane emissions



6



3. EPA Renewable Fuel Standard: RINs



- Misinterpretation since 2017
- RFS Renewable Identification Number (RIN) values for sludge-based biogas (D3, cellulosic) vs food waste-based biogas (D5, advanced biomass fuel)
- Proposed Set Rule released for public comment Nov 30th – reflects “Plan B” apportioning RINs based on feedstock
 - Allows specifying operational parameters for sewage sludge digestion
 - Volume awarded a D3 RIN to be subtracted from the total volume of biogas produced – the difference assumed to be produced from the added organic waste and awarded D5 RIN
 - eRINs – RIN credit awarded to vehicle manufacturer vs biogas producer
- Comments submitted February 10th
- Planned adoption June 2023

7



4. CARB Low Carbon Fuel Standard

- Designed to reduce fossil fuel dependence:
 - Decrease carbon intensity of CA’s transportation fuel pool
 - Provide increasing range of low-carbon and renewable alternatives
- July 2022 to present day workshops discussed potential changes with recommendations to promote biogas-to-hydrogen pathways
- Feedback on Feb 22nd workshop, comments submitted March 15th
- May 23rd workshop presented on auto-adjusting CI targets post-2030 via an auto-acceleration mechanism, comments due June 6th
- Low Carbon Fuel Standard Virtual Community Meetings to provide overview of LCFS program and receive input on potential future LCFS changes
 - Session 1: May 31, 2023, 6 to 8 PM
 - Session 2: June 1, 2023, 6 to 8 PM

8



5. Criteria Pollutants & Toxics Reporting and Air Toxics “Hot Spots” Program Updates – Statewide Two-Step Process

- AB 617 gives CARB authority to “harmonize” air monitoring, reporting, & emission reductions from stationary sources
- AB 2588 Hot Spots compound list is >1,700 compounds (from >500)
 - Unknown toxicity levels
 - Unknown emission factors
 - Many are not relevant to WWTPs
- Phased compliance allows WWTPs to:
 - Report business-as-usual through 2028 (reporting begins 2029 for 2028 data)
 - Perform “two-step process” to determine relevant shortlist of compounds
 1. Scan air space of unit processes (or other process) to determine detectable compounds
 2. Determining the sampling and analysis methods to quantify emissions (Mimic 1990 Pooled Emissions Estimation Program, PEEP, but broader in scope)

9



5. Statewide Two-Step Process – Next steps

- **Follow up on CARB Kickoff meeting April 25th** where we:
 - Reviewed approach to Step 1 (desktop exercise and/or narrow Step 1 to be performed at single WWTP in Bay Area, Central Valley, South Coast)
 - Introduced list of compounds and POTWs - CARB reviewing draft data
 - Asked foundational questions (including providing a letter stating a two-step process is required for all whether as a group or alone)
- **Coordinate meetings w/ air districts** on Step 1 and field test participants – confirm Step 1 w/ CARB
- **Continue refining list of POTWs** based on actual daily flow – discuss use of annual average daily flow for a selected year (consider 2019):
 - >5 MGD, uncovered primaries
 - >10 MGD, covered primaries
- **Administrative tasks**
 - Confirm governing structure – CASA to serve as Fiscal Agent, identify Executive Committee
 - **Being drafting RFP**
 - Refine estimated budget and contributions by flow

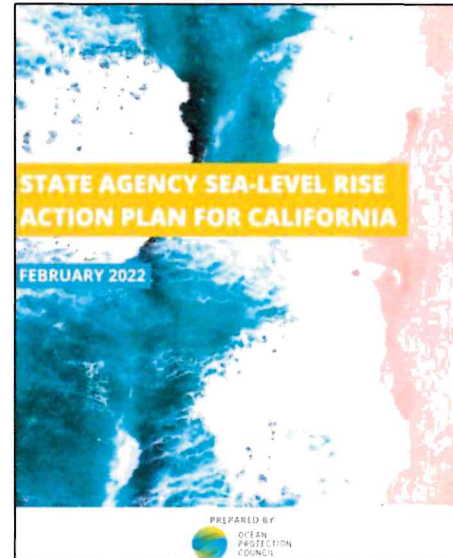
Preliminary actions led by Air Toxics Subgroup – next meeting June 14th

10



6. Adaptation: OPC Sea Level Rise Action Plan (FY 2021/22 – 2024/25)

- Released Feb 2022 by SLR Leadership Team (finalized in August 2022)
- ~80 State Actions categorized by SLR Principle
 - 1. Best Available Science
 - 2. Partnerships
 - 3. Communications
 - 4. Local Support
 - 5. Alignment
 - 6. Resilience Projects
 - 7. Equity & Social Justice
- Next round of updates in spring 2023
- OPC Meetings
 - August 15
 - December 12



11

6. Adaptation: OPC Sea Level Rise Action Plan (FY 2021/22 – 2024/25)

- April 24th Meeting
- Sea-level rise taskforce focused on developing scenarios of sea-level rise (peer review by technical experts)
- Approved Funding
 - **\$1 million to create a technical assistance program to support sea-level rise adaptation planning**
 - **\$310,000 to expand the California Coastal Adaptation Planning Inventory**
 - \$540,000 to implement OPC's Equity Plan
 - \$5.4 million to accelerate kelp research and restoration
 - \$450,000 to establish a statewide groundfish sampling program
 - \$450,000 to develop offshore wind environmental monitoring guidance

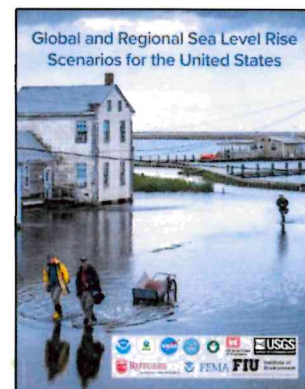
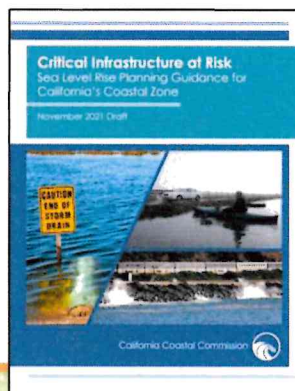
12

6. Adaptation: CA Coastal Commission Sea Level Rise

- Coastal Commission Critical Infrastructure at Risk: SLR Planning Guidance scenarios are referenced in permits – CASA reached out to authors to discuss NOAA’s Technical Report recommendation to not consider the H++ (extreme) scenario

As a result of improved understanding of the timing of possible large future contributions from ice-sheet loss, the “Extreme” scenario from the 2017 report (2.5 m global mean SLR by 2100) is now viewed as less plausible and has been removed.

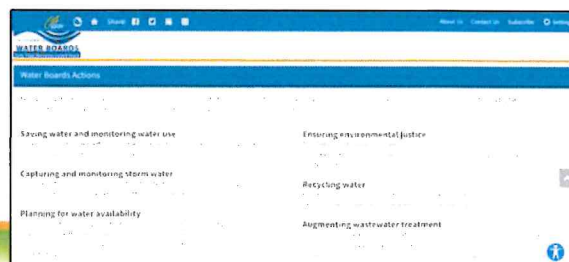
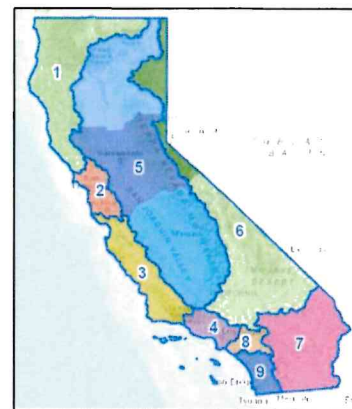
- Sustainability Principles draft document targeting GHG reductions
 - While planning to adapt to new conditions is essential, so are actions to reduce GHG emissions
 - 10 guiding principles and 7 actions supporting GHG reductions (through land use policy and permitting decisions)



13

6. CA Adaptation: Approaches to Resilience across Regional Water Boards

- NPDES/WDR permit renewals requiring climate change vulnerability assessments, action plans, resilience plans, disaster preparedness plans, some GHG emissions inventorying, etc...of varying scopes depending on the Regional Water Board
- Please be aware of your region’s approach and let us know of any new
 - City of Beaumont
- State Water Board Climate Change Website – Tracking Water Board Actions



14

6. Adaptation: Alliance of Regional Collaboratives for Climate Adaptation

- North Coast Resource Partnership (NCRP)
- Capital Region Climate Readiness Collaborative (CRCRC)
- Sierra Climate Adaptation & Mitigation Partnership (Sierra CAMP)
- Bay Area Climate Adaptation Network (BayCAN)
- Central Coast Climate Collaborative (4C)
- Inland Southern California Climate Collaborative (ISC3)
- Los Angeles Regional Collaborative for Climate Action and Sustainability (LARC)
- San Diego Regional Climate Collaborative (SDRCC)



15

2023 Outlook:

State Legislation Update

(subgroup providing input to State Leg Committee)

Governor's budget

(deficit)



16

Assembly Bills in Review

Watch
Spot
Support
Oppose
Disapprove

- AB 43 (Holden D) GHG emissions: building materials: embodied C trading system
- AB 45 (Arambula) Blue carbon demonstration project
- AB 241 (Reyes D) Air quality programs: funding (Enhanced Fleet Modernization Program)
-
-
- AB 573 (Garcia D) Organic waste (OW): meeting recovered OW product procurement targets
-
- AB 678 (Alvarez D) Biomethane procurement targets or goals: core transport agents
- AB 849 (Garcia D) Community emissions reduction programs
- AB 985 (Arambula D) SJVAPCD: emission reduction credit
-
- AB 1216 (Muratsuchi D) WWTPs: monitoring of air pollutants
-
-
-
- AB 1548 (Hart D) GHG Reduction Fund: grant program: recycling infrastructure projects
(failed 6/1 deadline, two-year)
- AB 1594 (Garcia D) Medium- and heavy-duty ZEV: public agency utilities
- AB 1628 (McKinnor D) Microfiber Filtration (amended)

17



Senate Bills in Review

Watch
Spot
Support
Oppose
Disapprove

- SB 308 (Becker D) Carbon Dioxide Removal Market Development Act (check definitions)
-
- SB 414 (Allen D) Climate change: applications using hydrogen: assessment
-
- SB 493 (Min D) Air pollution: alternative vehicles and electric and hydrogen infrastructure
(Ordered inactive by author 6/1)
- SB 674 (Gonzalez D) Air pollution: refineries: community air monitoring systems: fence-line monitoring systems
-
- SB 781 (Stern D) Methane emissions: ~~low-methane~~ natural gas producing low methane emissions

18



Informational Items

19



1. SB 1440 Biogas Procurement

- PG&E and SoCalGas solicitations

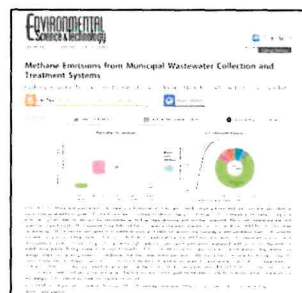
20



2. Methane Review/Monitoring at WRRFs

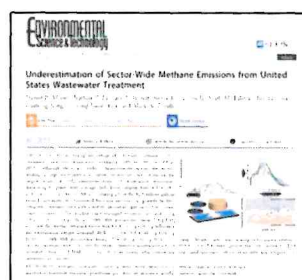
1. Methane Emissions from Municipal Wastewater Collection and Treatment Systems

Cuihong Song, Jun-Jie Zhu, John L. Willis, Daniel P. Moore, Mark A. Zondlo, and Zhiyong Jason Ren
 doi: [10.1021/acs.est.2c04388](https://doi.org/10.1021/acs.est.2c04388)
 Published: February 3rd, 2023



2. Underestimation of Sector-Wide Methane Emissions from United States Wastewater Treatment

Daniel P. Moore, Nathan P. Li, Lars P. Wendt, Sierra R. Castaneda, Mark M. Falinski, Jun-Jie Zhu, Cuihong Song, Zhiyong Jason Ren, and Mark A. Zondlo
 doi: [10.1021/acs.est.2c05373](https://doi.org/10.1021/acs.est.2c05373)
 Published: February 27th, 2023



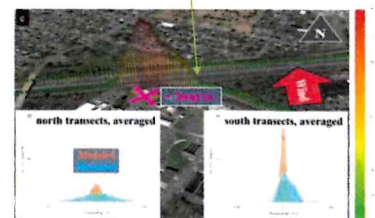
21



2. Methane Review/Monitoring at WWTPs

- Two Princeton methane studies led by Mark Zondlo and Z. Jason Ren
 - Two approaches → same conclusion
 - Overall Conclusion: CH₄ emissions from WWTPs are significantly **underestimated** compared to IPCC/EPA estimates (however, <1% of GHGs in US inventory is related to WWTPs)
- Next steps
 - Emailed researchers for follow-up discussions
 - Let us know if you've been contacted by UC–Riverside (Francesca Hopkins) to research your emissions – partners with Princeton, performing separate research

Princeton Mobile Lab



22



3. Carbon Sequestration Meta-Analysis

Systematic Reviews & Data Extraction

- Virginia Tech to understand C-sequestration potential from land-applied biosolids
- Review of published and unpublished data
- Promote biosolids research, identify gaps, and inform/harmonize future collection methods

Status of Report Summarizing Findings

- **Report release in 2023**
- Expecting high level overview and evidence of c-sequestration via biosolids land application

23



4. BACT, Large Emergency Diesel Engines $\geq 1,000$ bhp

- Air District Activities
 - BAAQMD – effective January 1, 2020
 - Sacramento Metro AQMD – effective June 4, 2021
 - San Joaquin Valley APCD – effective April 29, 2022
 - South Coast AQMD – approved September 2, 2022
 - BACT scientific review committee and public review process underway
 - Compliant engines are tested by their manufacturers, SCAP would like to see testing requirements for compliant engines matching that for certified engines to avoid unnecessary testing requirements onsite
 - Side note: SCAQMD advises operators not to use backup generators when the power is NOT out (for example, during the September 2022 heat wave)
- CARB interest in replacing existing backup generators by 2037
- SCAQMD to incentivize (\$) demonstration of new technology

24



5. Potential Amendments to Diesel Engine Off-Road Emission Standards

- “Tier 5 Rulemaking”
 - Reduce NO_x (up to 90%) and PM (up to 75%) compared to Tier 4 standards
 - Stringent exhaust standards for all power categories, including those that do not utilize exhaust aftertreatment (i.e., DPFs and SCRs)
 - First-time CO₂ standards
- Proposal to Board expected by 2024
- Implementation to begin in 2028
- CARB has funded research projects to assess feasibility of lower NO_x, PM, and CO₂ emission standards, as well as representative useful-life periods
- Next Workshop: June 27

25



Conferences/Events

- **Clean Water SoCal CAP Workshop**
June 28, Hybrid/Orange County Water District
- **NACWA Utility Leadership Conference**
July 11-14, Louisville
- **WEF Circular Water Economy Summit**
July 18-20, Nashville
- **CASA Annual Conference**
August 9-11, San Diego
- **CASA-CWEA Innovative Technology Seminars**
November 29 (SFBRWQCB Office, Oakland) & 30 (Hyperion, LA)

26



Upcoming Meetings

- July 27th



Thank you!



CASA ACE Committee Bill Tracker 6/21/2023

AB 43

(Holden D) Greenhouse gas emissions: building materials: embodied carbon trading system.

Current Text: Amended: 6/20/2023 [html](#) [pdf](#)

Introduced: 12/5/2022

Last Amend: 6/20/2023

Status: 6/20/2023-From committee chair, with author's amendments: Amend, and re-refer to committee. Read second time, amended, and re-referred to Com. on E.Q.

Location: 6/7/2023-S. E.Q.

Calendar: 7/5/2023 9:30 a.m. - 1021 O Street, Room 1200 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Current law requires the State Air Resources Board, by July 1, 2025, to develop, in consultation with specified stakeholders, a framework for measuring and then reducing the average carbon intensity of the materials used in the construction of new buildings, including those for residential uses. Current law requires the framework to include a comprehensive strategy for the state's building sector to achieve a 40% net reduction in greenhouse gas emissions of building materials, as determined from a baseline calculated using a certain 2026 report, if that report is adequate, or as specified. Current law requires that strategy to achieve this target as soon as possible, but no later than December 31, 2035, provides for an interim target of 20% net reduction by December 31, 2030, authorizes the state board to adjust the interim target, as provided, and requires the established targets to begin no sooner than January 1, 2027. Current law also requires the state board to form and maintain a technical advisory committee, as described. This bill would, among other changes, extend the date for the development of the framework to December 31, 2026, and would require the state board to develop a comprehensive strategy, by December 31, 2028, rather than by December 31, 2035, to achieve a 40-percent net reduction in greenhouse gas emissions of building materials as soon as possible, but no later than December 31, 2035. The bill would eliminate the interim target of 20% net reduction. The bill would authorize the baseline described above to be established based on either an industry average of environmental product declarations reported for the 2026 calendar year or on the most relevant, up-to-date information available, as determined by the state board.

Position	Assigned	Group
Watch	Jessica	ACE, SLC

AB 45

(Boerner D) Coastal resources: coastal development permits: blue carbon demonstration projects.

Current Text: Amended: 5/25/2023 [html](#) [pdf](#)

Introduced: 12/5/2022

Last Amend: 5/25/2023

Status: 6/14/2023-Referred to Com. on N.R. & W.

Location: 6/14/2023-S. N.R. & W.

Calendar: 6/27/2023 9 a.m. - 1021 O Street, Room 2100 SENATE NATURAL RESOURCES AND WATER, MIN, DAVE, Chair

Summary: The California Coastal Act of 1976, among other things, requires anyone wishing to perform or undertake any development in the coastal zone, except as specified, in addition to obtaining any other permit required by law from any local government or from any state, regional, or local agency, to obtain a coastal development permit from the California Coastal Commission, as provided. This bill would authorize the commission to authorize blue carbon demonstration projects, as defined, in order to demonstrate and quantify the carbon sequestration potential of these projects to help inform the state's natural and working lands and climate resilience strategies.

Position	Assigned	Group
Refer to ACE Committee	Spencer	ACE

AB 241

(Reyes D) Air quality programs: funding.

Current Text: Amended: 5/18/2023 [html](#) [pdf](#)

Introduced: 1/13/2023

Last Amend: 5/18/2023

Status: 5/22/2023-Read second time. Ordered to third reading.

Location: 5/22/2023-A. THIRD READING

Calendar: 6/22/2023 #17 ASSEMBLY THIRD READING FILE - ASSEMBLY BILLS

Summary: Current law creates the Enhanced Fleet Modernization Program to provide compensation for the retirement and replacement of passenger vehicles and light-duty and medium-duty trucks that are high polluters. Current law requires the Bureau of Automotive Repair to administer the program and the State Air Resources Board to adopt the guidelines for the program. Current law requires the

guidelines to ensure vehicle replacement or a mobility option be an option for all motor vehicle owners and may be in addition to compensation for vehicles retired. Current law creates the Enhanced Fleet Modernization Subaccount in the High Polluter Repair or Removal Account and makes available, upon appropriation, all moneys in the account to establish, implement, and administer the program. This bill would require the guidelines to ensure each replacement vehicle in the program be either a plug-in hybrid or zero-emission vehicle unless the state board makes a specified determination in consultation with the State Energy Resources Conservation and Development Commission, as specified

Position	Assigned	Group
Watch	Jessica	ACE

AB 530

(Boerner D) County Water Authority Act: exclusion of territory: procedure.

Current Text: Amended: 5/15/2023 [html](#) [pdf](#)

Introduced: 2/8/2023

Last Amend: 5/15/2023

Status: 6/8/2023-Re-referred to Com. on RLS. pursuant to Assembly Rule 96.

Location: 6/8/2023-A. RLS.

Summary: The County Water Authority Act provides for the formation of county water authorities and grants to those authorities specified powers with regards to providing water service. The act provides 2 methods of excluding territory from any county water authority, one of which is that a public agency whose corporate area as a unit is part of a county water authority may obtain exclusion of the area by submitting to the electors within the public agency, at any general or special election, the proposition of excluding the public agency's corporate area from the county water authority. Current law requires that, if a majority of the electors approve the proposition, specified actions take place to implement the exclusion. This bill would additionally require the public entity to submit the proposition of excluding the public agency's corporate area from the county water authority to the electors within the territory of the county water authority. The bill would require the 2 elections to be separate; however, the bill authorizes both elections to run concurrently.

Position	Assigned	Group
Watch	Jessica	ACE, SLC

AB 573

(Garcia D) Organic waste: meeting recovered organic waste product procurement targets.

Current Text: Amended: 5/18/2023 [html](#) [pdf](#)

Introduced: 2/8/2023

Last Amend: 5/18/2023

Status: 6/14/2023-Referred to Com. on E.Q.

Location: 6/14/2023-S. E.Q.

Summary: Current law requires, no later than January 1, 2018, the State Air Resources Board to approve and begin implementing a comprehensive short-lived climate pollutant strategy to achieve a certain reduction in statewide emissions of methane, including a goal of a 75% reduction in the level of the statewide disposal of organic waste from the 2014 level by 2025. Current law requires the Department of Resources Recycling and Recovery, in consultation with the state board, to adopt regulations to achieve these organic waste reduction goals, that provide for, among other things, the calculation by the department of recovered organic waste product procurement targets for each local jurisdiction, and that may include penalties to be imposed by the department for noncompliance. This bill would require the department, for purposes of those regulations, to allow a local jurisdiction, until December 1, 2039, in procuring recovered organic waste products to meet the target procurement requirements, to use California-derived recovered organic waste that the local jurisdiction sends for processing at a facility or operation outside of the state that meets certain conditions, as provided.

Position	Assigned	Group
Support in concept	Jessica	ACE

AB 678

(Alvarez D) Biomethane procurement targets or goals: core transport agents.

Current Text: Amended: 3/27/2023 [html](#) [pdf](#)

Introduced: 2/13/2023

Last Amend: 3/27/2023

Status: 6/15/2023-In committee: Set, first hearing. Hearing canceled at the request of author.

Location: 5/31/2023-S. E. U., & C.

Calendar: 7/3/2023 3 p.m. or upon adjournment of Session - 1021 O Street, Room 1200 SENATE ENERGY, UTILITIES AND COMMUNICATIONS, BRADFORD, STEVEN, Chair

Summary: Current law requires the Public Utilities Commission to require each gas corporation to provide bundled basic gas service to all core customers in its service territory unless the customer chooses or contracts to have natural gas purchased and supplied by another entity. Current law requires the commission, in consultation with the State Air Resources Board, to consider adopting specific biomethane procurement targets or goals for each gas corporation, as specified. This bill would revise that latter requirement to instead require the commission to consider adopting specific

biomethane procurement targets or goals for each gas corporation and core transport agent, as defined.

Position	Assigned	Group
Support	Jessica	ACE

AB 849

(Garcia D) Community emissions reduction programs.

Current Text: Amended: 3/29/2023 [html](#) [pdf](#)

Introduced: 2/14/2023

Last Amend: 3/29/2023

Status: 6/7/2023-Referred to Com. on E.Q.

Location: 6/7/2023-S. E.Q.

Calendar: 7/5/2023 9:30 a.m. - 1021 O Street, Room 1200 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Current law requires the State Air Resources Board to prepare, and to update at least once every 5 years, a statewide strategy to reduce emissions of toxic air contaminants and criteria air pollutants in communities affected by a high cumulative exposure burden. Current law requires the state board to include in the statewide strategy, among other components, an assessment and identification of communities with high cumulative exposure burdens for toxic air contaminants and criteria air pollutants, prioritizing disadvantaged communities and sensitive receptor locations based on specified factors. Current law requires the state board, based on the assessment and identification of communities with high cumulative exposure burdens, to select locations around the state for preparation of community emissions reduction programs. Current law requires an air district encompassing any location selected by the state board to adopt, in consultation with the state board, within one year of the state board's selection, a community emissions reduction program to achieve emissions reductions for the location selected using cost-effective measures, as specified. Current law also requires an air district to submit the community emissions reduction program to the state board for review and approval as prescribed. Current law requires the air district and the state board to implement and enforce the measures in the community emissions reduction program consistent with their respective authority. This bill would additionally require the air district, in adopting a community emissions reduction program, to consult with other relevant state agencies. By imposing additional duties on air districts, this bill would impose a state-mandated local program.

Position	Assigned	Group
Watch	Jessica	ACE

AB 985

(Arambula D) San Joaquin Valley Unified Air Pollution Control District: emission reduction credit system.

Current Text: Amended: 5/18/2023 [html](#) [pdf](#)

Introduced: 2/15/2023

Last Amend: 5/18/2023

Status: 6/14/2023-Referred to Com. on E.Q.

Location: 6/14/2023-S. E.Q.

Calendar: 7/5/2023 9:30 a.m. - 1021 O Street, Room 1200 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Current law requires the board of every air district to establish by regulation a system by which all reductions in the emission of air contaminants that are to be used to offset certain future increases in the emission of air contaminants be banked prior to use to offset future increases in emissions, except as specified. Current law requires the state board to develop and adopt a methodology for use by air districts to calculate the value of credits issued for emission reductions from stationary, mobile, indirect, and areawide sources when those credits are used interchangeably, consistent with certain requirements. Current law also requires the State Air Resources Board to periodically update the methodology as it applies to future transactions, if necessary. Current law provides for the establishment of the San Joaquin Valley Unified Air Pollution Control District vested with the authority to regulate air emissions from stationary sources located in the San Joaquin Valley Air Basin. This bill would require the district to revise the regulation establishing its emission reduction credit system to specify a time period by which existing and future emission reduction credits will expire. The bill would provide that this revision of the emission reduction credit system is subject to disapproval by the state board within 60 days after adoption by the district.

Position	Assigned	Group
Oppose	Jessica	ACE, SLC

AB 1216

(Muratsuchi D) Wastewater treatment plants: monitoring of air pollutants.

Current Text: Amended: 4/26/2023 [html](#) [pdf](#)

Introduced: 2/16/2023

Last Amend: 4/26/2023

Status: 5/31/2023-Referred to Com. on E.Q.

Location: 5/31/2023-S. E.Q.

Calendar: 6/21/2023 9 a.m. - 1021 O Street, Room 1200 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Would require, on or before January 1, 2025, the owner or operator of a wastewater treatment facility that is located within 1,500 feet of a residential area and has an original design capacity of 425,000,000 gallons or more per day to develop, install, operate, and maintain a wastewater treatment-related fence-line monitoring system in accordance with guidance developed by the appropriate air quality management district. The bill would require the wastewater treatment-related fence-line monitoring system to include equipment capable of measuring pollutants of concern, including hydrogen sulfide, nitrogen oxides, and volatile organic compounds emitted to the atmosphere from wastewater treatment or reclamation processes that the appropriate district deems appropriate for monitoring. The bill would also require the owner or operator of a wastewater treatment facility to collect real-time data from the wastewater treatment-related fence-line monitoring system, to maintain records of that data, and to transmit the data to the appropriate air quality management district in accordance with the district's guidance. In addition, the bill would require, to the extent feasible, the data generated by these systems to be provided to the public as quickly as possible in a publicly accessible format.

Position	Assigned	Group
Oppose	Jessica	ACE, Attorneys, SLC

AB 1548 (Hart D) Greenhouse Gas Reduction Fund: grant program: recycling infrastructure projects.

Current Text: Amended: 4/20/2023 [html](#) [pdf](#)

Introduced: 2/17/2023

Last Amend: 4/20/2023

Status: 6/14/2023-Referred to Com. on E.Q.

Location: 6/14/2023-S. E.Q.

Calendar: 7/5/2023 9:30 a.m. - 1021 O Street, Room 1200 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Current law requires the Department of Resources Recycling and Recovery, with additional moneys from the Greenhouse Gas Reduction Fund that may be appropriated to the department, to administer a grant program to provide financial assistance to promote the in-state development of infrastructure, food waste prevention, or other projects to reduce organic waste or to process organic and other recyclable materials into new value-added products. Current law requires the program to provide eligible financial assistance for certain activities, including recyclable material manufacturing. Current law specifies eligible infrastructure projects for purposes of the program. Current law requires the department to consider if and how the project may benefit disadvantaged communities in awarding a grant for organics composting or organics in-vessel digestion. This bill would expand the scope of the grant program to include providing financial assistance to promote in-state development of projects to sort and aggregate organic and other recyclable materials, as provided, or to divert items from disposal through enhanced reuse opportunities. The bill would require the grant program to provide eligible financial assistance for increasing opportunities for reuse of materials diverted from landfill disposal and for recyclable material recovery, sorting, or baling equipment for use at publicly owned facilities. The bill would authorize eligible infrastructure projects for the grant program to include projects undertaken by a local government at publicly owned facilities to improve the recovery, sorting, or baling of recyclable materials to get those materials into the marketplace, the purchase of equipment and construction of facilities to help develop, implement, or expand edible food waste recovery operations, and the establishment of reuse programs to divert items from landfill disposal for reuse by members of the public.

Position	Assigned	Group
Watch	Jessica	ACE

AB 1594 (Garcia D) Medium- and heavy-duty zero-emission vehicles: public agency utilities.

Current Text: Amended: 5/18/2023 [html](#) [pdf](#)

Introduced: 2/17/2023

Last Amend: 5/18/2023

Status: 6/14/2023-Referred to Coms. on E.Q. and TRANS.

Location: 6/14/2023-S. E.Q.

Summary: Executive Order No. N-79-20 establishes the goal of transitioning medium- and heavy-duty vehicles in California to zero-emission vehicles by 2045 for all operations where feasible and by 2035 for drayage trucks, and requires the State Air Resources Board to develop and propose medium- and heavy-duty vehicle regulations to meet that goal. This bill would require any state regulation that seeks to require, or otherwise compel, the procurement of medium- and heavy-duty zero-emission vehicles by a public agency utility to ensure that those vehicles can support a public agency utility's ability to maintain reliable water and electric services, respond to disasters in an emergency capacity, and provide mutual aid assistance statewide and nationwide, among other requirements. The bill would define a public agency utility to include a local publicly owned electric utility, a community water system,

and a wastewater treatment provider, as specified. This bill contains other existing laws.

Position	Assigned	Group
Support	Jessica	ACE

AB 1628 (McKinnor D) Microfiber filtration.

Current Text: Amended: 5/25/2023 [html](#) [pdf](#)

Introduced: 2/17/2023

Last Amend: 5/25/2023

Status: 6/14/2023-Referred to Com. on E.Q.

Location: 6/14/2023-S. E.Q.

Calendar: 7/5/2023 9:30 a.m. - 1021 O Street, Room 1200 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Would require, on and after January 1, 2029, that all new washing machines offered for sale in California for residential, commercial, or state use contain a microfiber filtration system, as defined, with a mesh size not greater than 100 micrometers.

Position	Assigned	Group
Support	Jessica	ACE, SLC

SB 308 (Becker D) Carbon Dioxide Removal Market Development Act.

Current Text: Amended: 5/18/2023 [html](#) [pdf](#)

Introduced: 2/2/2023

Last Amend: 5/18/2023

Status: 6/8/2023-Referred to Com. on NAT. RES.

Location: 6/8/2023-A. NAT. RES.

Summary: Would enact the Carbon Dioxide Removal Market Development Act that would require the State Air Resources Board, no later than December 31, 2027, to adopt a regulation to require certain emitting entities to purchase negative emissions credits equal to a specified amount of their greenhouse gas emissions, as determined by the state board, in each calendar year beginning in the 2028 calendar year in accordance with specified requirements. The bill would require the state board, no later than December 31, 2027, to establish rules and processes for certifying carbon dioxide removal processes that may be used to create negative emissions credits and for tracking negative emissions credits in accordance with certain criteria. The bill would also require negative emissions resulting from the use of negative emissions credits to be included in the calculation of the state's net greenhouse gas emissions, as specified.

Position	Assigned	Group
Refer to ACE Committee	Jessica	ACE

SB 414 (Allen D) Climate change: applications using hydrogen: assessment.

Current Text: Amended: 5/18/2023 [html](#) [pdf](#)

Introduced: 2/9/2023

Last Amend: 5/18/2023

Status: 6/20/2023-From committee: Do pass and re-refer to Com. on APPR. (Ayes 11. Noes 0.) (June 19). Re-referred to Com. on APPR.

Location: 6/19/2023-A. APPR.

Summary: Would, on or before December 31, 2025, require the State Air Resources Board, in consultation with the State Energy Resources Conservation and Development Commission (Energy Commission) and the Public Utilities Commission (PUC), upon appropriation by the Legislature, to complete an assessment of the use of hydrogen in certain applications, as specified. The bill would require the assessment to incorporate the findings of, and not duplicate, the above-described evaluation. The bill would require the state board, the Energy Commission, and the PUC to consider the findings in the assessment in their plans, rulemakings, reports, or other process related to the planning, implementation, or regulation of hydrogen production, distribution, storage, or usage in the state.

Position	Assigned	Group
Watch	Jessica	ACE

SB 493 (Min D) Air pollution: alternative vehicles and electric and hydrogen infrastructure.

Current Text: Amended: 6/19/2023 [html](#) [pdf](#)

Introduced: 2/14/2023

Last Amend: 6/19/2023

Status: 6/19/2023-Referred to Coms. on TRANS. and U. & E. (Amended Text Released 6/19/2023)

Location: 6/8/2023-A. TRANS.

Calendar: 7/5/2023 1:30 p.m. - 1021 O Street, Room 1100 ASSEMBLY TRANSPORTATION, FRIEDMAN, LAURA, Chair

Summary: Current law requires the Energy Commission, in consultation with the State Air Resources Board (state board) and the Public Utilities Commission (PUC), to prepare a statewide assessment of fuel cell electric vehicle fueling infrastructure and fuel production needed to support the adoption of zero-emission trucks, buses, and off-road vehicles at levels necessary for the state to meet the goals and requirements of Executive Order No. N-79-20 and any state board regulatory action that requires or allows zero-emission vehicles in the heavy-duty vehicle and off-road sectors. Current law also requires the Energy Commission, working with the state board and the PUC, to prepare a statewide assessment of the electric vehicle charging infrastructure needed to support the levels of electric vehicle adoption required for the state to meet its goals of putting at least 5,000,000 zero-emission vehicles on California roads by 2030, and of reducing emissions of greenhouse gases to 40% below 1990 levels by 2030. This bill would require the assessment of the fuel cell electric vehicle fueling infrastructure and fuel production to additionally include an assessment of storage and transport facilities, and the assessment of the electric vehicle charging infrastructure to additionally include electric system infrastructure and electric generation. The bill would expand the scope of the latter assessment to include the electric vehicle charging infrastructure, electric system infrastructure, and electric generation needed for the state to meet the goals of Executive Order No. N-79-20 and any state board regulatory action that requires or allows zero-emission vehicles in the heavy-duty vehicle and off-road sectors. The bill would require both assessments to identify any barriers to the deployment of hydrogen infrastructure and any barriers to the deployment of electric infrastructure, respectively, for medium- and heavy-duty fleets and recommendations for addressing those barriers. The bill would require the Energy Commission to publish a determination regarding the adequacy of completed or planned charging or fueling sites for the 5 years following the completion of the initial statewide assessment and the findings of the electric vehicle charging infrastructure assessment, as provided.

Position	Assigned	Group
Watch	Spencer	ACE

SB 674 (Gonzalez D) Air pollution: refineries: community air monitoring systems: fence-line monitoring systems.

Current Text: Amended: 6/19/2023 [html](#) [pdf](#)

Introduced: 2/16/2023

Last Amend: 6/19/2023

Status: 6/19/2023-From committee with author's amendments. Read second time and amended. Re-referred to Com. on NAT. RES.

Location: 5/26/2023-A. NAT. RES.

Calendar: 6/26/2023 2:30 p.m. - State Capitol, Room 447 ASSEMBLY NATURAL RESOURCES, RIVAS, LUZ, Chair

Summary: Current law requires a refinery-related community air monitoring system to be installed near each petroleum refinery that meets certain requirements. Current law requires the owner or operator of a petroleum refinery to develop, install, operate, and maintain a fence-line monitoring system in accordance with guidance developed by the appropriate air quality management district or air pollution control district. Current law requires the air districts and the owners or operators of refineries to collect real-time data from those monitoring systems, to maintain records of that data, and, to the extent feasible, provide to the public those data in a publicly accessible format. This bill would extend the above requirements to refineries engaging in other types of refining processes, including those using noncrude oil feedstock, and to auxiliary facilities. The bill would require the refinery-related community air monitoring system and the fence-line monitoring system to be installed on or before January 1, 2026, after a 30-day public comment period, and would require the refinery-related community air monitoring system to be updated, as specified. The bill would require the appropriate air district to establish pollutants for the monitoring systems to monitor and would include certain pollutants identified by the Office of Environmental Health Hazard Assessment. The bill would authorize the air district to exclude a pollutant for monitoring at those monitoring systems, as provided. The bill would require air districts, on a 5-year basis, to review the list of pollutants being measured and would authorize the air districts to revise the list, as provided. The bill would require the air districts and the owners and operators of refineries to maintain records of the data collected from those systems for at least 5 years and would require the owners and operators to post online, and to notify the public of the availability of, quarterly reports containing certain information.

Position	Assigned	Group
Watch	Jessica	ACE

SB 781 (Stern D) Methane emissions: natural gas producing low methane emissions.

Current Text: Amended: 6/19/2023 [html](#) [pdf](#)

Introduced: 2/17/2023

Last Amend: 6/19/2023

Status: 6/19/2023-From committee with author's amendments. Read second time and amended. Re-referred to Com. on NAT. RES.

Location: 6/15/2023-A. NAT. RES.

Calendar: 6/26/2023 2:30 p.m. - State Capitol, Room 447 ASSEMBLY NATURAL RESOURCES, RIVAS, LUZ, Chair

Summary: The California Global Warming Solutions Act of 2006 requires all state agencies to consider and implement strategies to reduce their greenhouse gas emissions. This bill would additionally require state agencies to prioritize strategies to reduce methane emissions, including emissions from imported natural gas, where feasible and cost effective. The bill would require the State Air Resources Board, no later than December 31, 2024, to establish a certification standard for natural gas producing low methane emissions. The bill would require the state board to encourage natural gas procurement on behalf of the state to shift to certified natural gas producing low methane emissions. The bill would also require the state board, the Public Utilities Commission, and other relevant agencies to timely consider programs, or changes to existing programs, to reduce methane emissions, including emissions from imported natural gas procured by utilities and other large gas users.

Position
Watch

Assigned
Jessica

Group
ACE

Total Measures: 17
Total Tracking Forms: 17



Understanding CARB’s Advance Clean Fleet Regulations

The California Air Resources Board (CARB) [Advanced Clean Fleet \(ACF\) Regulations](#) were approved April 28, 2023. The ACF Regulations apply to fleets performing drayage operations, those owned by State, local, and federal government agencies, and high priority fleets. High priority fleets are entities that own, operate, or direct at least one vehicle in California, and that have either \$50 million or more in gross annual revenues, or that own, operate, or have common ownership or control of a total of 50 or more vehicles (excluding light-duty package delivery vehicles). The regulation applies to medium- and heavy-duty on-road vehicles with a gross vehicle weight rating >8,500 pounds, off-road yard tractors, and light-duty mail and package delivery vehicles.

This document summarizes how the ACF Regulations (as written) apply to publicly owned treatment works (POTWs) under the State & Local Government Agency Fleet Regulations and the High Priority & Federal Fleets Requirements.

The State & Local Government Agency Fleet Regulations apply to city, county, special district, and State agency fleets (Title 13, CCR Section 2013(d): General Requirements)

If your organization is NOT within a low population county (i.e., unshaded counties in figure) and you have >10 vehicles in your fleet, the following timelines apply each calendar year:

- As of January 1, 2024, 50% of vehicle purchases must be zero-emission vehicles (ZEVs)¹.
- As of January 1, 2027, 100% of vehicle purchases must be ZEVs.

If your organization is within a low population county or you have ≤10 vehicles in fleet:

- As of January 1, 2027, 100% of vehicle purchases must be ZEVs.

Exemptions (e.g., two-engine vehicles and demonstrated daily usage) and extensions (e.g., ZEV infrastructure delay) are available and require a review of applicability and preparation of documentation. CASA is working to streamline the preparation of documentation supporting exemption and extension approval.

Note, per Section 2013(e), in lieu of complying with the requirements of the State and Local Government Agency Fleets, it allows POTWs to elect to permanently opt their entire fleets into the *ZEV Milestones Option Flexibility* under the High Priority and Federal Fleets Requirements (Title 13, CCR Section 2015.2) until January 1, 2030. If choosing this option, fleet owners must comply with all the requirements applicable to federal government fleets specified in Section 2015. After electing to use this option, fleet owners may not switch back to the State and Local Government Fleet Requirements. See additional details under the High Priority & Federal Fleets Requirements section below for further clarification.

The High Priority & Federal Fleets Requirements apply to POTWs (government agencies) opting into the regulation – per Section 2015 (via State & Local Government Agency Fleet Regulations Section 2013(e): General Requirements)

Through January 1, 2030², the High Priority & Federal Fleets Requirements (Title 13, CCR Section 2015.2) allows POTWs to elect to permanently opt-in their entire fleets according to the following clarifications received from CARB:

- The entire POTW fleet can opt into the ZEV Milestone Option, adhering to the appropriate timeline for Group 1, 2, or 3 based on vehicle type.
- Additionally, the portion of the POTW fleet that meets the requirements of Section 2015.2(b) *Waste and Wastewater Fleet Provision*, may qualify for opting into the delayed phase-in under ZEV Milestone Group 3. In other words, if 100 vehicles were in the fleet, and only 10 were exclusively fueled with biomethane and support

implementation of SB 1383, all 100 can opt-in to the ZEV Milestones Option and those 10 could be included in



¹ Per Section 2013(b), “Zero-emissions vehicle” or “ZEV” means a vehicle with a zero-emissions powertrain that produces zero exhaust emission of any criteria pollutant (or precursor pollutant) or greenhouse gas under any possible operational modes or conditions.

² If electing to opt in after January 1, 2024, your fleet must be in compliance with your currently elected compliance option (i.e., the State & Local Government Agency Fleet Regulations).



CALIFORNIA ASSOCIATION of SANITATION AGENCIES

925 L Street, Suite 200 • Sacramento, CA 95814 • TEL: (916) 446-0388 • www.casaweb.org

the Milestone Group 3 while the rest of the fleet would follow under the appropriate Group 1, 2 or 3 timelines based on vehicle type.

Fleet owners utilizing this provision must report fleet and vehicle information as specified in Sections 2015.4(c)(1)(J) and keep records as specified in Section 2015.5(m).

Additionally, CASA is working to collect member experience related to the barriers to implementation for both the State and local government agency requirements and federal government agency requirements. We are working to clarify needed adjustments to the Regulations and streamlining the process for exemption and extension approval.

For more information or if you have questions, please contact Sarah Deslauriers at sdeslauriers@carollo.com. Updates are provided as part of CASA's Air Quality, Climate Change, & Energy Workgroup monthly meetings and the Advanced Clean Vehicle Subgroup is being re-established to meet monthly or as needed.

CASA ACE
June 22, 2023
Craig K. Murray

CARB ACF: Review of High Priority & Federal Fleets Requirements. Hybrids w/Hydrogen counted as ZEVs. DR: Hydrogen combustion vehicles (because NOx) not compliant. Richard Lao IEUA: restricted to replacement only in fleet, so fleet will be static not change in another 10 years or so. Steve Jepsen: there is exemption for engine chassy, engine in pumps, vactor equipt. Fits solidly in the exemption and see that can use exemption to buy ICE vehicle. Sarah: yes, there is a path but goes to the executive officer. SJ: Unavailability application will have another level of reviews and approvals. Sarah: Bec.limitation of biogas and these are essential for essential services.

Sarah getting great comments in on ACF and are coordinating with Ex. Officer of implementation of SB 1383. Office of Admin. Law and that lawsuits will be coming out also from this new rule. GK: Batteries weigh upwards to 8500 tons, if doesn't fit in vehicle, how address. Sarah: needs to be vehicle available to serve purpose. Didn't hear from them 1:1 replacement. So every one diesel then need 2,3 or 4 ZEVs to same same purpose and that is an unacceptable cost. DR: Cement Mixer load and duty cycle but about 1/3 size. CARB said see told you it would work and those in industry say it is not same and not work. Sarah: need to look at functional equivalence. Eg Offers size but much lower range of service. DR: You are causing a disruption of our biogas to find a use, sooner meet with Dr. Cliff the better. LACSD committed \$25/yr for study. GK: Sarah's contract to work on these issues. Steve Jepsen : 1:1 replacement, in order to provide same level of service, need more equipment and more staff. Can a regulation force us to add more equipment and staff? Sarah: Listen to cost impacts and back to ratepayers. Jackie Zipkin: BACWA approved funding last week in behalf of Sarah. SJ: Bill by CMUA to make sure these vehicles are publicly available.

GK: Carol Morgan at Partnering for Impact Session gave update. Seeking temp. pause in implementing SB 1383 and GK think absolutely wrong way to go. Landfill is cheaper and continuing but waiting for claim of feedstock and go forward. Inflation Reduction Act (IRA) at Fed. Level has up to 50% credit for public facilities. Also money with Clean Water Fund. Jim Dunbar: Article 2: Many rounds of discussion. Determined Lystek tech. already complied. AD and then land apply. Aerobic also followed by land application is accepted tech. and don't need to go through this exercise. GK: this is a total shift. JD: Cal Recycle is a solid waste group so they just don't know about the AD Cycle.

RINs GK: no longer devalue. Set rule released June 21. Patrick Serfass American Biogas Council. 25% more value out of RIN if use the calculation. If have baseline non foodwaste probably use that and give you the most upside. Expect this will open up Food Waste Recycling in CA with this EPA RINs update. Julia Levin Bioenergy Association. Question Biogas convert to Hydrogen and will continue to be eligible with Federal RFS. PS: Has to be used as vehicle fuel to be considered as RINs. Yesterday did not finalize even though that pathway exists. Needs to be political priority to finalize ERINs like in the Dec. proposal. JL: LCFS, Federal ERINs and ACF are now all connected in CA. Don't get credit and huge problem. PS: Feds. Don't Care. JL: Jennifer Granholm should care. JL: significant financial hit. Sarah: we need support to show that biogas to hydrogen is viable. PS: Anyway CARB to include CNG vehicles? GK: Spent last 1.5 years to CARB and we failed. DR: No Way, ship has left in CA. DR: If this is litigated, Congressional intent to allow CA to pick winners and losers but not bet on it for moment. JL: This is something CA should really be wanting to work with, hurt us if not get more pathways est., CA Gov. has Office in DC. PS: Spent time with Podesta in MI last week to take action with ERINs.

GK: Success at Fed Level but being phased out in CA. JL: 2 more board hearings on LCFS and the ISOR. Biogas Sector: Increase carbon intensity reductions by 2035 and talk to 30% reduction and should help raise LCFS credit. Avoided Methane Emissions proposing to phase out, mainly for Ag. Go to Compost or go to biomethane discussion and credits and discussion phase out credits by 2040. Phase out Biomethane that is not delivered to the grid. Convert to other end uses or be converted. Don't replace fossil fuel if the fuel intended to replace isn't actually delivered. Isn't explicit if Hydrogen has to actually be delivered or not. PS: What is available? GK: SB 1440 line injection. JL: Line choice aggregators looking at Category 1. JL: 1440 not it aimed at residential and small businesses. Need a long term home. SLR. Sarah: \$1M Tech Asst Funding and \$310k for inventory expansion. H++ extreme scenario for resilience planning. State Water Board has climate change website. Weds. June 28 workshop at OCWD. State Leg. And Budget
Budget passed last Thursday on deadline. Start of budget but lot of things remain and will be done with budget trailer bills into August. Gov. Infrastructure streamlining on CEQA not incl. in budget. Water recycling money restored. \$300m supposed to be cut was restored but could be cut with trailer bill. Resources Bond and work with committee on requests and which ballot it will go on. Our Ask: \$1B clean water SRF request. \$1.8B Water Recycling ; \$2B at least SLR; \$100M innovative biosolids tech. for regional solutions of SB 1383, reduction of vehicle miles and such. Eduardo Garcia Inland Empire one of the sponsors. Primary or general election 2024. Bills: Our Concerned green hydrogen bill ab 1550 didn't make it off committee floor. Hyperion bill (City of El Segundo) (fenceline or community monitoring) passed, we testified in opposition. AB 1216 Muratsuchi. JL on AB 1550 (Bennett) : Meetings today including electrolytic hydrogen and include biomass and biogas as a feedstock. Very concerned about Environmental community and arguments not based in Science. Steam reformation mostly. Don't want any hydrogen from fossil fuels and EJ also saying other sources such as biogas and biomass. Env. Defence fund and RDC do most harm but before just Sierra Club.
GK: So Cal Gas and PG&E around July 10 come out with solicitations to acquire biogas.

#

CHAT:

Patrick Serfass 8:39 AM

Can RNG vehicles count as ZEVs in CA?

David Rothbart (LACSD/Clean Water SoCal) 8:39 AM

Unfortunately...no.

Meg Herston, FSSD 8:41 AM

Is it only vehicles greater than 8500 lbs that must be ZEVs? I'm still confused by the >8500lbs requirement. Do vehicles <8500lbs count towards the 50%?

David Rothbart (LACSD/Clean Water SoCal) 8:42 AM

Again, unfortunately the light duty cars won't count.

Heidi Oriol, Regional San & SacSewer 8:50 AM

Meg, my understanding is that the light duty vehicle element is being addressed on the manufacturing side instead and that is why public agencies are not receiving light duty ZEV requirements.

Heidi Oriol, Regional San & SacSewer 8:50 AM

<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/advanced-clean-cars-ii>

Heidi Oriol, Regional San & SacSewer 9:03 AM

Not just cost, but also an unacceptable environmental impact (including emissions) associated with producing 2-3 ZEV vehicles to replace 1 IC vehicle.

Steve Jepsen, Clean Water SoCal 9:04 AM

Plus additional driver (staff) costs in some cases.

Patrick Serfass | American Biogas Council 9:20 AM

Compost AND digestate! =)



BOARD MEMBER MEETING ATTENDANCE REQUEST

Date: _____ Name: _____

I would like to attend the _____ Meeting
of _____

To be held on the _____ day of _____ from _____ a.m. / p.m. to
_____ day of _____ from _____ a.m. / p.m.

Location of meeting: _____

Actual meeting date(s): _____

Meeting Type: (In person/Webinar/Conference) _____

Purpose of Meeting: _____

Meeting relevance to District: _____

Request assistance from Board Secretary to register for Conference: YES NO

Frequency of Meeting: _____

Estimated Costs of Travel (if applicable): _____

Date submitted to Board Secretary: _____

Board approval obtained on Date: _____

Please submit this form to the Board Secretary no later than 1 week prior to the Board Meeting.

7/6/2023

BOARD AGENDA ITEM REQUESTS

Agenda Item 6B

- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation

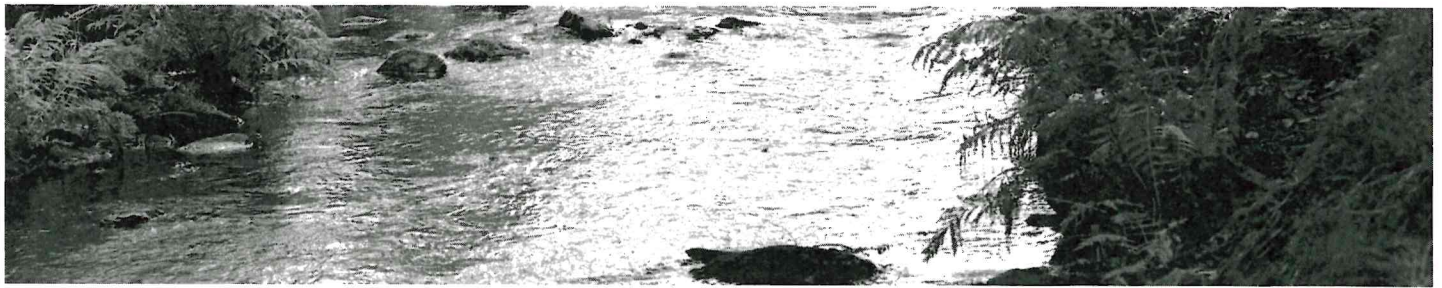
District plans to add water, boost reservoir efficiency

Short-term projects examined as long-term studies continue



Water rushes down the spillway at Peters Dam at Kent Lake near Lagunitas. One new project would automate state-mandated dam water releases from Kent Lake into Lagunitas Creek meant to benefit coho salmon. DOUGLAS ZIMMERMAN – SPECIAL TO THE MARIN INDEPENDENT JOURNAL, FILE





A stretch of Lagunitas Creek in Lagunitas. The Marin Municipal Water District is working on a variety of supply projects. SHERRY LAVARS — MARIN INDEPENDENT JOURNAL, FILE

BY WILL HOUSTON

WHOUSTON@MARINIJ.COM

Three months after adopting a plan to add new water supplies, the Marin Municipal Water District provided a progress update on a variety of projects.

The report to the district board Tuesday largely focused on projects that could be completed within the next two to four years. They include automating dam water releases; new interconnections between reservoirs; adding a pump station and potential hydropower capabilities to the district's third-largest, but infrequently used, reservoir; and new conservation measures.

Preliminary studies are also underway on more complicated projects such as a proposed brackish desalination plan on the Petaluma River, expanding reservoir capacity and pumping imported Russian River water into local reservoirs, staff said.

"We almost ran out of water in 2021. We have an enormous amount of work to do to ensure that we have resiliency for the long term," board member Jed Smith said during the meeting.

The district serves 191,000 residents in central and southern Marin. About 75% of the agency's water supply is from seven local reservoirs, with the remainder coming from imported Russian River water from Sonoma County. The agency has not expanded its reservoir storage capacity since the early 1980s.

The agency began studying new water supplies after it faced the possibility of depleting its reservoir supplies as soon as mid-2022 following two dry winters. The crisis was avoided with the storms in late 2021.

After a yearlong review process, the district board voted in February to adopt a roadmap of potential water supply projects it plans to study further. Additionally, the board approved historic rate increases last month meant to raise millions of dollars to pay for the new projects.

The district aims to add 12,000 to 20,000 acre-feet of new annual supply by 2035. The water supply study estimated the agency would need at least 8,500 acre-feet of additional water per year to weather a severe four-year drought. By comparison, the agency's reservoirs can hold about 80,000 acre-feet in its reservoirs, about a two-year supply. It can import about 11,000 acre-feet of Russian River water annually. An acre-foot, enough to cover an acre in a foot of water, is about 326,000 gallons.

The board discussion Tuesday focused on near-term projects to make the reservoirs more efficient rather than adding any new capacity.

One project would automate state-mandated dam water releases from Kent Lake into Lagunitas Creek meant to benefit endangered and threatened wildlife, namely coho salmon.

District official Paul Sellier said the dam water releases are performed manually and rely on staff tracking streamflow data from U.S. Geological Survey gauges in the creek.

"There is a big time delay between the time we make the call to adjust the valve and the time in which we see an actual change in the flow," Sellier told the board.

There is a five- to six-hour lag time between the point of release at Kent Lake to the stream gauge in Samuel P. Taylor State Park. Sellier said this can result in the district's either not meeting the state-mandated streamflow levels or releasing more water than is required.

To address this, the district is working with state and federal agencies to determine whether it could automate the dam water releases. Sellier said this would work by creating an algorithm that would release or hold dam water based on stream gauge data. Another stream gauge would need to be installed further upstream at the confluence of Lagunitas Creek and its tributary, San Geronimo Creek, which Sellier said is planned to occur in the fall.

The district aims to complete the project by late 2024, although Sellier said the actual automation of dam water releases will likely start later.

water from about July through November to reduce demand on its reservoir supplies in case of a dry winter.

But it comes at a cost. The district has to spend about \$1,600 per acre-foot of Russian River water compared to the roughly \$300 to \$450 cost of treating its reservoir water.

Sellier said the district hired a Sacramento engineering consulting firm, Woodard & Curran, to help develop a strategy to determine how much Russian River to purchase and when.

"In a way, we're trying to minimize our cost and also at the same time minimize our risk, and those two are kind of opposed," Sellier said. "So we need to find a sweet spot."

Woodard & Curren was contracted by the district earlier this year to support the implementation of the new water supply projects. The district is paying the firm about \$445,000.

Another early project would create a pipeline and pump station to connect one of the district's smaller reservoirs, Phoenix Lake, to the nearby Bon Tempe Reservoir.

Phoenix Lake is only drawn on during water shortages because it does not have a pumping and distribution system. Instead, employees have to spend four weeks setting up a pump station and pipes to transport Phoenix Lake water to the Bon Tempe treatment plant.

District engineer Crystal Yezman said the staff is evaluating three routes for the new connection, of which all would end by going through a 1,200-foot-long tunnel at the top of the hill near Bon Tempe Reservoir. Yezman said a preferred route has been identified because it provides access to an electrical hookup, but that an environmental review is needed before deciding. The project is estimated to cost \$5.2 million.

Yezman said a consultant is being hired to aid with the project's development, which could include other benefits such as flood control and potentially hydropower.

"This is an area of global interest, storage hydropower," board member Ranjiv Khush told Yezman on Tuesday. "I'm really excited that you're moving forward with this."

Board member Matthew Samson raised concerns about these other uses potentially delaying the project beyond its forecast 2024-2025 completion date. Staff said should that be determined, it would be brought back to the board for a decision.

Another near-term project would provide connect the district's third-largest reservoir, Soulajule Reservoir, to the electrical grid at a cost of about \$7.2 million. Like Phoenix Lake, the reservoir is only tapped during water shortages because it requires generator power to pump water.

Yezman said Pacific Gas & Electric Co. is planning to begin studies in early July, including the potential for solar power, batteries, fuel cells and a permanent generator.

Additionally, the board is set to discuss at a July meeting whether to revise an ordinance that bans businesses and government agencies from installing new decorative turf.

The rules that took effect in April 2022 prohibit the installation of decorative grass typically found in areas such as road medians or along sidewalks in strip malls and shopping centers. Residential properties as well as recreational areas such as parks and athletic fields are excluded from the ordinance.

Staff said potential revisions could be to expedite the removal of existing decorative turf.

"I worry that businesses are putting back in their nonfunctional turf because now there is water and there aren't restrictions on irrigation," Monty Schmitt, president of the district board, said during the meeting. "And it's an investment I'd like to see people not make, especially if we're doing to move in a direction of banning nonfunctional turf."

For longer-term projects, the district formed an agreement with Petaluma to study the potential of a brackish desalination plant on the Petaluma River. The city has a consultant taking a preliminary look at the potential groundwater availability and quality.

Sellier said the results should be available by this month, which will be around the time the district seeks a consulting firm to provide technical support in studying the project. A feasibility study would begin in the fall, Sellier said.

"I think this one is going to be really, really challenging," board member Larry Russell said during the meeting.

The district is also already seeking firms to conduct predesign work for reservoir projects, including the potential expansion of its largest reservoirs: Kent, Nicasio and Soulajule. Another project would build new connections that would allow imported Russian River water to be stored in local reservoirs. Both analyses are set to begin in the fall.

Marin IJ 6/15/23
Ranjiv Khush and Matthew Samson

Watershed rec plan needs collaboration

The citizens of Marin displayed compelling initiative in 1912 when they voted to form the Marin Municipal Water District, California's first publicly owned municipal water district.

But the sources of MMWD's water had long existed in Mount Tamalpais' rain-fed creeks, which have supported settlements extending back to the Coast Miwok civilization and their predecessors. Sheltering these water sources was one priority for MMWD's early leaders when they established a protected watershed on the slopes of Mt. Tam.

A second priority was creating public access to connect the community to those watershed lands. In 1917, MMWD launched one of California's first ranger programs to help protect the watershed, including through the management of recreational activities.

More than 100 years later, we continue to benefit from that prescient planning, investment and stewardship.

The watershed continues to provide about 75% of MMWD's water. It is also a biodiversity hotspot: 15% of California's plant species are found on Mt. Tam, including eight species that exist only in Marin.

All reservoirs are open for fishing, and there are over 150 miles of watershed trails and fire roads with varying degrees of access for hiking, running, viewing nature, walking dogs, riding horses and biking.

The presence of a large accessible open space amid our creative community is a tremendous asset that has shaped our communities connection to the natural world. It also contributes to the development of our community's youth, who range from environmental stewards, cross-country runners, avid hikers and world-class mountain bikers.

Not surprisingly, the watershed is also at the center of debates over activities that can appear at odds. Historical tensions between hikers and equestrians regarding the safety and preservation of shared trails were ultimately addressed through a mutual willingness to find common ground.

This cooperation enabled the district to maintain horse access to fire roads and designated trails. Unfortunately, differences between hikers and environmental advocates on the one hand and the mountain biking community on the other have proved more challenging to resolve.

The district is now developing a watershed recreation management plan, which is a feasibility study that includes the input of all stakeholder groups and the broader public. The process has included six community workshops, a watershed visitor survey and opportunities for public comment during board of directors and watershed committee meetings over the last year.

The objective is to guide the development of up-to-date management policies and procedures that ensure environmental health, maintain high-quality water supplies, reduce wildfire risks and provide access for ongoing outdoor recreation.

The likelihood of achieving these objectives will increase if groups on opposing sides of contentious planning issues, particularly those related to bicycle access, come together to find acceptable compromises.

The "hiker vs. biker" debate has gone on for decades. Frustration over perceived differences in watershed trail access has likely contributed to the increasing disregard of regulations by some. Rigid viewpoints may disenfranchise younger community members who represent the future of environmental management.

The lines between stakeholder groups, however, are increasingly blurry: Many conservationists enjoy cycling; many mountain bikers care deeply about the health of our watershed.

Rather than focusing on differences, it is time to recognize shared values and work together on watershed access strategies that contribute to a productive path forward. The recreation management planning process is a means to finding mutually acceptable solutions. There are examples that have been developed locally and across the country through thoughtful access planning, which provide models for how to share open spaces lands while protecting biodiversity.

We must align all recreation management decisions with MMWD's mission of providing safe and reliable drinking water, in concert with protecting the diverse ecology and environment of our watershed. Yet, as our community evolves, recreation plans must also maintain pace with changes in patterns of visitation and ensure inclusivity. Time and time again, Marin residents have put differences aside and worked together to maintain the beauty and wonder of our county.

We are now presented with another opportunity to continue this practice. Let's all roll up our sleeves and develop strategies that ensure a healthy watershed ecosystem and a safe outdoor resource for all.

views expressed are their own and do not necessarily reflect district policies or positions.

District adopts \$306M budget

Agency set to invest in water supply projects

BY WILL HOUSTON

WHOUSTON@MARINIJ.COM

The Marin Municipal Water District has approved a \$305.9 million, two-year budget that will begin to make significant investments in new water supplies not seen by the agency in decades.

“We have a very big job ahead of us with this budget,” Monty Schmitt, the president of the district’s elected board, said before it voted unanimously to adopt the budget on Tuesday.

The budget covers the two-year period of July 1, 2023, through June 30, 2025, and aims to funnel tens of millions of dollars into several priorities. They include new water supply projects; wildfire preparations in the district-owned Mount Tamalpais watershed; restoring tens of millions of dollars in reserve funds depleted by the recent two-year drought; and chipping away at an estimated \$200 million backlog of maintenance to the water delivery system. The budget comes after the agency faced the possibility of depleting its main reservoir supplies as soon as mid-2022 during the recent drought. The district has since adopted a plan to significantly expand its water supplies for the first time since the 1980s.

“I think as we look back on this decision tonight I expect that our community will see that this is a clear shift to further invest in our critical habitat, to encourage our efficiencies in our system, to stave off the deterioration of our infrastructure and increase our water resiliency for future generations,” board member Jed Smith said during the meeting.

The district, which supplies water to 191,000 residents in central and southern Marin, is paying for the many priorities after adopting historic rate hikes last month. The median household will have its water bill costs rise 20% on average during the first year of the five-year rate plan. The new rates take effect on July 1.

Board member Larry Russell voted against the rate hike last month because of affordability and equity concerns. On Tuesday, Russell said some of the rate changes, including lowering the threshold for how much water a ratepayer uses before getting bumped into a higher-cost rate tier, will likely prompt some “significant pushback” from ratepayers in the coming months.

“Be aware, it’s coming,” Russell said during the meeting.

Bret Uppendahl, the district finance director, said another driver behind the budget increase is higher costs of operations caused by inflationary pressures on supplies, insurance premium hikes and ongoing reduced water sales.

The district is proposing to spend \$34.7 million on new water supply projects in the next four years. The funding will be used both to begin near-term projects to improve the efficiencies of the agency’s existing reservoir supplies as well as to begin studies on longer-term and more complex projects, such as enlarging reservoirs and a brackish desalination plant on the Petaluma River.

The agency is also looking to invest nearly \$34.8 million during the next four years to address a backlog of maintenance in its water supply system, including pipes, water tanks, treatment plants, reservoirs and pump stations.

Additionally, the district plans to invest a \$10 million in the next two years that will be split between two reserve funds.

One fund is the district’s reserve fund, which was drawn down heavily during the recent two-year drought to cover losses from reduced water sales and to import more Russian River water from Sonoma County. The district receives about 25% of its annual water supply from the Russian River.

The reserve fund balance dropped from \$63 million in 2021 to \$28 million.

“It’s going to take a long time to build back to where we were,” Smith said.

The other fund would be used to pay for larger water supply projects by providing matching funds for state or federal grants.

Other allocations include about \$8.1 million during the next two years for projects on the Mount Tamalpais watershed owned by the district. These projects include fire fuel reduction projects; roads and trail maintenance; and culvert and landslide repairs.

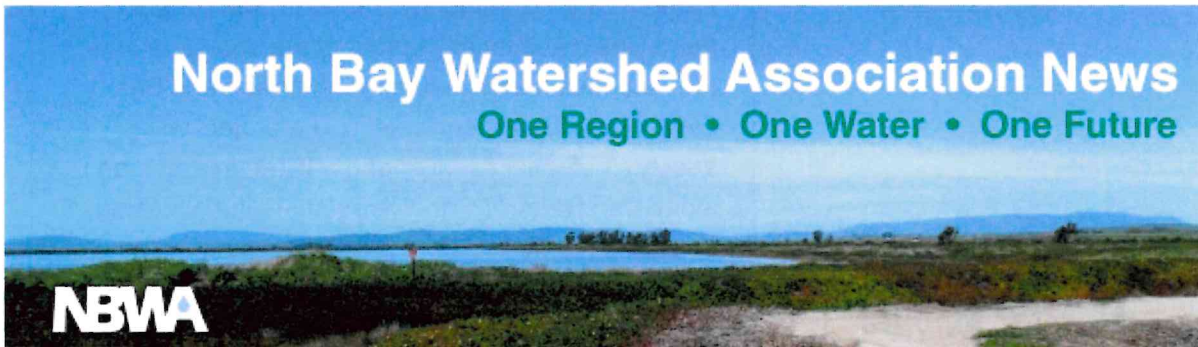
“We’ve got a watershed that is in a lot of need of maintenance as well as advanced or accelerated work toward the wildfire portion of it.”

the 20,000-acre watershed for wildfire risk is “much greater” than the budget provides.

“And if we can find more money for that, I think that would be well spent,” Roberts told the board.

Teresa Lerch

From: North Bay Watershed Association <northbaywa@gmail.com>
Sent: Tuesday, June 27, 2023 12:53 PM
To: Teresa Lerch
Subject: NBWA Quarterly Newsletter - Summer 2023



State

- [State bills seek broad reforms on water rights](#)
- [California ranchers intentionally violated an emergency water order. Now lawmakers want to triple the fines](#)

Federal

The North Bay experienced a plentiful rainy season and provided a welcome respite from the historic drought. As we greet summertime refocused on water conservation and planning for future extreme weather patterns – droughts, floods, sea-level rise – our member agencies continue to collaborate on projects that will sustain our communities, protect our environment, and prepare for the impacts of climate change. We're proud to highlight two programs that demonstrate the North Bay is taking significant strides towards a more climate resilient region.

The Las Gallinas Valley Sanitary District recently completed a \$68-million upgrade to its wastewater treatment and recycled water facilities in San Rafael and held a June 8 event to mark completion of this major project. The upgrades increase the plant's secondary treatment capacity from 8 to 18 million gallons per day, improving reliability during extreme weather events, and added advanced treatment technology to ensure future regulatory requirements can be met. The improvements will increase the

- [Western states reach 'historic' deal to help save the Colorado River](#)
- [Arizona Limits Construction Around Phoenix as Its Water Supply Dwindles](#)

U.S. Drought Monitor Map for Northern California



Click [HERE](#) for drought conditions by area

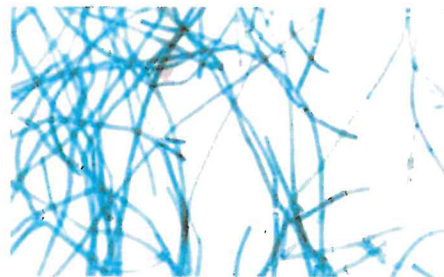
GSA Information

- [Solano County Water Agency](#)
- [Petaluma Valley Groundwater](#)
- [Santa Rosa Plain Groundwater](#)

District's recycled water production capacity to 5 million gallons per day (2 billion gallons per year), providing more recycled water for reuse throughout Marin County in cooperation with its partners at Marin Water and the North Marin Water District. For more information, visit: <https://www.lqvsd.org/>

Following the June 2 NBWA Board meeting at the Alfred J. Boro Community Center in San Rafael, there was a short walking tour of the shoreline and the Tiscornia Marsh Habitat Restoration and Sea Level Rise Adaptation Project. The project will address potential flooding and habitat degradation along San Rafael's Canal Area shoreline, focusing on the Tiscornia Marsh, a property owned by the Marin Audubon Society. Participants visited the project site and discussed other opportunities for adaptation measures, along with the compounding hazards of subsidence, groundwater rise, and increasing flooding risks. For more information, visit: <http://www.tiscorniamarshp.org/about.html>

-Andy Rodgers, Executive Director NBWA



A dozen exotic bacteria are found to passively collect rare earth elements from wastewater

The biomass of some exotic photosynthetic cyanobacteria can efficiently absorb rare earth elements (REE) from wastewater; for example those derived from mining, metallurgy, or the recycling of e-waste. The absorbed REEs

- [Sonoma Valley Groundwater](#)
- [Napa Watersheds](#)
- [Marin County Groundwater](#)

can afterwards be washed from the biomass and collected for reuse.

[Read the article HERE](#)

Estuary News



State Board OKs Sonoma Water Changes to Russian River Instream Flows

The changes are a "key tool in managing the water supply for more than 600,000 people and the environment in Sonoma and Marin counties."

[Read the article HERE](#)

Contact Us

If you have information that you think could be featured in an NBWA newsletter, please send an email to: northbaywa@gmail.com



Delta Wetlands and Resilience: Blue Carbon and Marsh Accretion

Restoring wetlands in the Sacramento-San Joaquin Delta (Delta) can mitigate subsidence, sequester carbon, reduce GHG emissions, and provide habitat for wetland dependent species. These benefits—their magnitude, scope, and resilience to future sea level rise—depend on the type and siting of new wetlands; rates of carbon accumulation, GHG emissions, and vertical accretion; and opportunities for wetlands to migrate upslope.

Read the article [HERE](#)



Biden gives California more than \$690 million to improve water quality and infrastructure

California will get more than \$391 million to improve safe drinking water infrastructure from an Environmental Protection Agency program, while the U.S. Bureau of Reclamation said it would allocate \$300 million to 24 projects for water delivery, storage and electricity in California.

Read the article [HERE](#)



Russian-Eel river stakeholders launch new effort to find path forward without defunct power plant

The newly formed Russian River Water Forum will consider alternatives in a future without the PG&E hydroelectric plant that for decades has shunted Eel River water into the Russian River.

Read the article [HERE](#)



Marin Municipal Water District reports progress on supply projects

The report to the district board on Tuesday largely focused on

projects that could be completed within the next two to four years. They include automating dam water releases; new interconnections between reservoirs; adding a pump station and potential hydropower capabilities to the district's third-largest, but infrequently used, reservoir; and new conservation measures.

Read the article [HERE](#)

Water Quality



After the deluge: Floods may taint more drinking water in California

Nitrate has been a decades-long problem in California and now stormwater has flushed fertilizer and manure into aquifers.

Read the article [HERE](#)

Water Supply and Restoration



Lookout Slough Restoration will be the Delta's Largest Yet

When the restoration of Lookout Slough is complete, Lookout Slough will be no more. Created to provide water for a century-old duck-hunting club, the human-made canal will be filled in as part of a \$119 million, 3,400-acre tidal wetlands restoration, the largest ever in the Sacramento-San Joaquin Delta.

[Read the article HERE](#)

Groundwater



Winter storms boost Central Valley water supplies, but aquifer levels remain depleted

Satellite data analyzed by researchers at NASA's Jet

Propulsion Laboratory show that the series of atmospheric river storms this winter alleviated some of California's water deficit, but that groundwater levels remain depleted from years of drought and chronic overpumping in the Central Valley.

[Read the article HERE](#)

Water Reuse



Beyond the Yuck Factor: Cities Turn to 'Extreme' Water Recycling

San Francisco is at the forefront of a movement to recycle wastewater from commercial buildings, homes, and neighborhoods and use it for toilets and landscaping. This decentralized approach, proponents say, will drive down demand in an era of increasing water scarcity.

[Read the article HERE](#)



*Copyright © 2022 *NBWA* All rights reserved.*

Our mailing address is:
North Bay Watershed Association c/o MMWD
220 Nellen Ave.
Corte Madera, CA 94925

Want to change how you receive these emails?
You can [update your preferences](#) or [unsubscribe from this list](#)

This email was sent to tlersch@lqvsd.org
[why did I get this?](#) [unsubscribe from this list](#) [update subscription preferences](#)
North Bay Watershed Association · 220 Nellen Avenue · Corte Madera, California 94925 · USA



From: Mark Millan <millan@datainstincts.com>
Sent: Tuesday, June 27, 2023 1:49 PM
To: 'Undisclosed Recipients'
Subject: NASA Achieves Water Recovery Milestone on International Space Station - NASA 6/20/23

NASA Achieves Water Recovery Milestone on International Space Station

NASA June 20, 2023

For space missions that venture beyond low Earth orbit, new challenges include how to provide basic needs for crew members without resupply missions from the ground. NASA is developing life support systems that can regenerate or recycle consumables such as food, air, and water and is testing them on the International Space Station.

Ideally, life support systems need to recover close to 98% of the water that crews bring along at the start of a long journey. The space station's Environmental Control and Life Support System (ECLSS) recently demonstrated that it can achieve that significant goal.

ECLSS is a combination of hardware that includes a Water Recovery System. This system collects wastewater and sends it to the Water Processor Assembly (WPA), which produces drinkable water. One specialized component uses advanced dehumidifiers to capture moisture released into the cabin air from crew breath and sweat.

Full article here: https://www.nasa.gov/mission_pages/station/research/news/water_recovery_milestone

News Update

www.DataInstincts.com

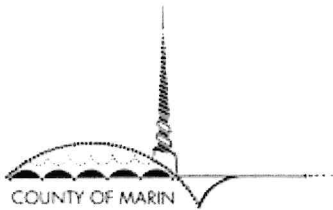
You received this news item because your address has been included with a list of individuals interested in updates regarding new water supply options.

Teresa Lerch

From: Teresa Lerch
Sent: Friday, June 30, 2023 6:04 AM
To: Teresa Lerch
Subject: FW: \$4M Grant Awarded to Divert Trash from Marin Waterways

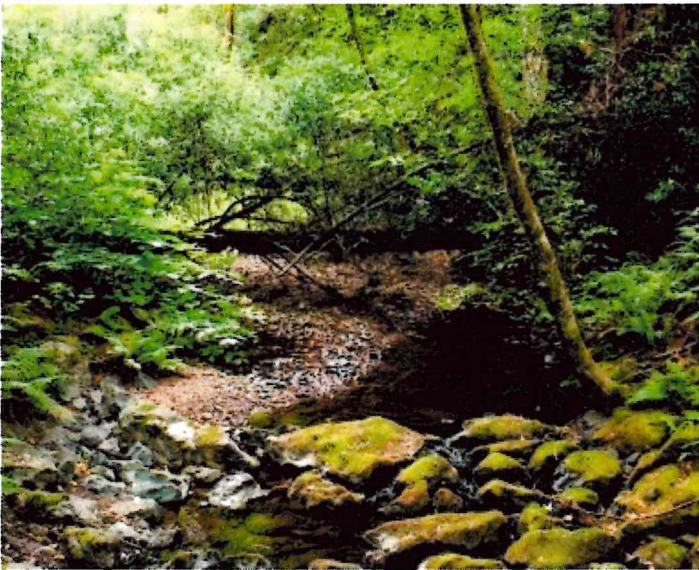
----- Original Message -----

From: County of Marin <camarin@public.govdelivery.com>
To: bagron3@comcast.net
Date: 06/29/2023 1:57 PM PDT
Subject: \$4M Grant Awarded to Divert Trash from Marin Waterways



NEWS RELEASE

www.marincounty.org/news



\$4M Grant Awarded to Divert Trash from Marin Waterways

EPA funding will help create pollution prevention infrastructure

San Rafael, CA – The [Marin Countywide Stormwater Pollution Prevention Program](#) (MCSTOPPP) has been awarded a \$4 million grant from the U.S. Environmental Protection Agency (EPA) through its San Francisco Bay Water Quality Improvement Fund.

The grant will be used to fund the design of up to 17 stormwater treatment facilities and construct one or two of those facilities. Each stormwater treatment installation would be designed to capture trash larger than five millimeters from stormwater runoff, as well as remove pesticide residues, PCBs, metals and other fine sediment pollutants.

Additionally, the grant will fund the design and construction of a special facility to filter materials from water removed by municipalities during the cleaning and maintenance of storm drains and trash capture devices. This process ensures that pollutants and trash are properly disposed of as solid waste materials and do not end up in local waterways.

"This effort is a major undertaking for MCSTOPPP and the grant award will allow us to make it a reality," said DPW Assistant Director Berenice Davidson. "This is a big step forward for protecting the natural resources of this beautiful county by helping keep pollutants out of the water. We are grateful to the EPA for supporting this work."

The grant will cover half of the \$8 million initiative, with the remaining \$4 million funding match coming from the California Department of Transportation (Caltrans) in the form of a \$3.1 million cooperative agreement and approximately \$900,000 from MCSTOPPP and the County of Marin's General Fund.

MCSTOPPP is comprised of Marin's 11 incorporated cities and towns and the County of Marin, and each will be involved in this implementation. The effort will develop engineering designs and secure environmental permits for as many as 17 stormwater treatment installations for potential placement in eight Marin municipalities (County of Marin, San Rafael, Novato, Tiburon, Corte Madera, Larkspur, Mill Valley, Sausalito).

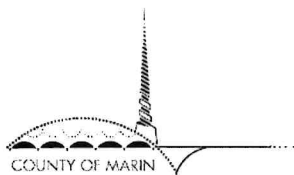
The funding for this initial undertaking will only cover the construction of one or two of the stormwater treatment installations. However, it is anticipated that at least 12 of the other stormwater treatment installations that are designed under this initiative would be constructed later by the municipalities using Caltrans funding, as those facilities would treat runoff from Caltrans rights-of-way.

Public outreach is also a key factor in this effort and the grant funding will support such work. MCSTOPPP plans to include community-based engagement through coordination with the participating municipalities. The public outreach will focus on the importance of proper trash disposal

practices and how a commitment to this work will impact the waterways of Marin for future generations.

You have subscribed to News Releases & Advisories for Marin County. This information has recently been updated.

Visit the [Newsroom](#) to view all County news releases.



Not all events are sponsored by the County of Marin. County of Marin sponsored events are required to be accessible. If you are a person with a disability and require an accommodation to participate in a County program, service, or activity, requests may be made by calling (415) 473-4381 (Voice), Dial 711 for CA Relay, or by [email](#) at least five business days in advance of the event. We will do our best to fulfill requests received with less than five business days' notice. Copies of documents are available in alternative formats upon request.



SUBSCRIBER SERVICES:
[Manage Sign-up Preferences](#) | [Help](#)

This email was sent to bagron3@comcast.net using GovDelivery Communications Cloud on behalf of: County of Marin, California

Not all events are sponsored by the County of Marin. County of Marin sponsored events are required to be accessible. If you are a person with a disability and require an accommodation to participate in a County program, service, or activity, requests may be made by calling (415) 473-4381 (Voice), Dial 711 for CA Relay, or by [email](#) at least five business days in advance of the event. We will do our best to fulfill requests received with less than five business days' notice. Copies of documents are available in alternative formats upon request.

