



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 our environment, providing effective wastewater collection, treatment, and resource recovery.

## BOARD MEETING AGENDA

**August 17, 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](http://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.

**CLOSED SESSION:**

**4:40 PM**

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

**CONFERENCE WITH LABOR NEGOTIATOR – Agency designated representative: Curtis Paxton, General Manager; Unrepresented Employees: Administrative/Financial Specialist, Administrative Services Manager, Collections/Maintenance/Safety Manager, District Engineer, Plant Manager; pursuant to Government Code Section 54957.6**

**OPEN SESSION:**

**5:20 PM**

**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.

- A. Approve the Board Minutes for July 20, 2023
- B. Approve the Warrant List for August 3 and August 17, 2023
- C. Approve Board Compensation for July 2023

- D. Approve Clark request to attend two AWWA Webinars Move the Dial on Your Utility DEI Program August 9 and August 16, 2023
- E. Approve Murray request to attend ESSI Webinar on Renewable Energy Efficiency July 18, 2023
- F. Approve Murray request to attend CSDA Annual Conference August 28-31, 2023
- G. Approve Yezman request to attend CWEA Webinar on Activated Sludge July 19, 2023
- H. Approve Award of Contract Biosolids Land Application Services
- I. Approve Award of Contract Digester MCC-2 Upgrade
- J. Approve Kennedy Jenks Contract Amendment 2 for additional construction management services
- K. Approve Application of Allocation of Capacity for APN 175-360-04 Pet Emergency & Specialty Center of Marin
- L. Approve Application of Allocation of Capacity for APN 179-241-03 44 Circle Road Single Family Residence
- M. Approve Resolution 2023-2315 confirming the Report on Sewer Charges

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

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

5:30 PM

**4. INFORMATION ITEMS:**

STAFF/CONSULTANT REPORTS:

- 1. Marin Sanitary Service Update and 2022 Annual Report
- 2. General Manager’s Report – verbal

6:10 PM

**5. BATTERY ENERGY STORAGE SYSTEM PROJECT**

Board to review and approve proceeding with the proposed Battery Energy Storage System (BESS) project including a deposit to PG&E for the SGIP application and obtaining pricing for BESS from ForeFront Power for future Board consideration.

6:30 PM

**6. 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

6:40 PM 7. BOARD REQUESTS:

- A. Board Meeting Attendance Requests – Verbal
- B. Board Agenda Item Requests – Verbal

6:45 PM 8. VARIOUS INDUSTRY RELATED ARTICLES


6:50 PM 9. ADJOURNMENT

**FUTURE BOARD MEETING DATES: SEPTEMBER 7 AND SEPTEMBER 21, 2023**

AGENDA APPROVED:	Megan Clark, President	Patrick Richardson, Legal Counsel
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**CERTIFICATION:** I, Teresa Lerch, Board Secretary of the Las Gallinas Valley Sanitary District, hereby declare under penalty of perjury that on or before August 14, 2023 4:30 p.m., I posted the Agenda for the Board Meeting of said Board to be held on August 17, 2023, at the District Office, located at 101 Lucas Valley Road, Suite 300, San Rafael, CA.

DATED: August 10, 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

**8/17/2023**

**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.**

**8/17/2023**

**CLOSED SESSION**

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

Agenda Item 3A  
Date August 17, 2023

**MEETING MINUTES OF JULY 20, 2023**

THE BOARD OF DIRECTORS AND STAFF OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION ON JULY 20, 2023 AT 4:30 PM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300 CONFERENCE ROOM, SAN RAFAEL, CA. 94903

**BOARD MEMBERS PRESENT:** Megan Clark, Craig Murray, Gary Robards and Crystal Yezman.

**BOARD MEMBERS ABSENT:** Ron Ford.

**STAFF PRESENT:** Curtis Paxton, General Manager; Teresa Lerch, Board Secretary; Dale McDonald, District Treasurer.

**OTHERS PRESENT:** Patrick Richardson, District Counsel; Gregory Ramirez, IEDA.

**ANNOUNCEMENT:** President Clark announced that the agenda had been posted as evidenced by the certification on file in accordance with the law.

Due to illness, Director Ford 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 Robards/Murray (4-0-1-0) Ford attending this 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: Clark, Murray, Robards and Yezman.
- NOES: None.
- ABSENT: Ford.
- ABSTAIN: None.

Ford joined the meeting at 4:32 pm.

**PUBLIC COMMENT:** None.

**CLOSED SESSION:**

**ACTION:**

THE BOARD OF DIRECTORS OF THE LAS GALLINAS VALLEY SANITARY DISTRICT ADJOURNED TO CLOSED SESSION ON JULY 20 2023 , AT 4:32 PM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, CONFERENCE ROOM, SAN RAFAEL, CALIFORNIA.

Lerch left the meeting at 4:32 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 July 20, 2023 at 5:58 pm.

**BOARD MEMBERS PRESENT:** Megan Clark, Ron Ford, Craig Murray, Gary Robards, Crystal Yezman.

**STAFF PRESENT:** Curtis Paxton, General Manager, Teresa Lerch, Board Secretary; Dale McDonald, District Treasurer.

**OTHERS PRESENT:** Patrick Richardson, District Counsel.

**PUBLIC COMMENT:** None.

**REPORT ON CLOSED SESSION:** President Clark 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 June 30 and July 6, 2023
- B. Approve the Warrant List for July 20, 2023
- C. Approve Board Compensation for June 2023
- D. Approve Cancellation of August 3 Board Meeting
- E. Approve Order of Publication Ordinance 193

**ACTION:**

Board approved (M/S Murray/Yezman (5-0-0-0) the Consent Calendar items A through E.

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

**2. INFORMATION ITEMS:**

**STAFF / CONSULTANT REPORTS:**

- 1. General Manager's Report – Paxton reported.

**3. BOARD REPORTS**

- 1. CLARK
  - 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 – Flood Zone 7 – verbal report
- 3. MURRAY
  - a. Marin LAFCO – no report
  - b. CASA Energy Committee –no report

- c. 2023 Biosolids Ad Hoc Committee – no 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 –no report
- f. Other Reports – Mentioned that Ed Nute would like a tour of the plant.

5. **YEZMAN**

- a. Flood Zone 7– no report
- b. CSRMA – no report
- c. Marin Special District Association – verbal report
- d. 2023 STPURWE Engineering Ad Hoc Committee – no report
- e. 2023 Biosolids Ad Hoc Committee – no report
- f. Other Reports– None.

4. **BOARD REQUESTS:**

- A. Board Meeting Attendance Requests – Murray would like to attend the EESI Renewal Energy Efficiency Expo on July 18, 2023 Webinar and the CSDA Annual Conference August 28-31, 2023 in Monterey. Yezman would like to attend the CWEA Microscopic Examination of Activated Sludge Webinar on July 19, 2023.
- B. Board Agenda Item Requests –None.

5. **MISCELLANEOUS DISTRICT CORRESPONDENCE**

Discussion ensued.

6. **ADJOURNMENT:**

**ACTION:**

Board approved (M/S Yezman/Robards 5-0-0-0) the adjournment of the meeting at 6:32 PM.

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

The next Board Meeting is scheduled for August 17, 2023 at 4:30 pm

ATTEST:

\_\_\_\_\_  
Teresa Lerch, Board Secretary

APPROVED:

\_\_\_\_\_  
Craig K. Murray, Vice-President



Agenda Item 305  
Date August 17, 2023

Las Gallinas Valley Sanitation District Warrant List 8/03/2023							
	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for items
1	8/3/2023	EFT1	ADP Payroll	167,175.78		167,175.78	7/28/2023 Payroll & Processing Charges
2	8/3/2023	20388	Aqua Engineering	2,788.75		2,788.75	STPURWE- T&M Design Services during Construction
3	8/3/2023	20389	Aramark Uniform Service	570.35		570.35	Uniform Service w/e 7/17 & 7/24
4	8/3/2023	20390	ArcSine Engineering	20,025.85		20,025.85	STPURWE- Programming- March
5	8/3/2023	20390	ArcSine Engineering	5,941.20		5,941.20	SCADA Support- June
6	8/3/2023	20391	Aries	2,637.34		2,637.34	ITV Truck Parts- Collections
7	8/3/2023	20392	AT&T dba Calnet	987.06		987.06	Phone Lines @ Pump Stations
8	8/3/2023	EFT	Bank of Marin Cardmember Services	20,712.49		20,712.49	Credit Card Purchases 6/6-7/6
9	8/3/2023	ACH	Buckles-Smith	893.20		893.20	Digester Project Parts
10	8/3/2023	EFT	CalPERS 475 Plan	7,571.84		7,571.84	EE's Contribution to Deferred Comp.- Pay Period 7/10 - 7/23
11	8/3/2023	EFT	CalPERS Retirement	27,694.84		27,694.84	EE & ER Payment to Retirement- Pay Period 7/10 - 7/23
12	8/3/2023	ACH	Central Marin Sanitation Agency	8,751.83		8,751.83	FOG Program Inspections & Pretreatment Program- 4/1 - 6/30
13	8/3/2023	20393	Comet Buliding Maintenance	1,620.00		1,620.00	Janitorial Services- July
14	8/3/2023	20410	DAC Consultants	4,030.50		4,030.50	STPURWE- Geotech Services during Construction- Sept- June
15	8/3/2023	ACH	Diego Truck Repair	2,337.45		2,337.45	Check Engine Light Repair- Collections Truck
16	8/3/2023	EFT	Direct Dental	1,761.66		1,761.66	Dental Payments
17	8/3/2023	ACH	Edelstein, Daniel	3,762.25		3,762.25	Canada Goose Control- May
18	8/3/2023	ACH	Exponent	6,574.00		6,574.00	STPURWE- Failure Analysis of Bio Wheel Chain and Motor
19	8/3/2023	ACH	Fastenal	3,210.74		3,210.74	Bulk Supplies. Flat Top Box
20	8/3/2023	20394	FedEx	82.47		82.47	Misc. Mailings
21	8/3/2023	ACH	Freyer Laureta	22,057.00		22,057.00	Misc. Electrical Improvements- June
22	8/3/2023	20395	GD Nielson Construction	149,126.38		149,126.38	Standby Generator Installation Project- July
23	8/3/2023	ACH	Golshani, Sahar	305.00		305.00	Safety Glasses Reimbursement Per the MOU
24	8/3/2023	ACH	Grainger	1,048.59		1,048.59	Misc. Supplies
25	8/3/2023	ACH	Harrington Process Solutions	475.42		475.42	Valve Ball
26	8/3/2023	20396	Jackson's Hardware	60.00		60.00	American Flag
27	8/3/2023	20397	Jefferson Security	90.00		90.00	Building Alarm Updates
28	8/3/2023	ACH	Kennedy Jenks	5,613.40		5,613.40	Integrated Wastewater Master Plan- June
29	8/3/2023	20398	Liebert Cassidy Whitmore	2,328.50		2,328.50	Legal Advice- June


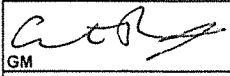
Las Gallinas Valley Sanitation District Warrant List 8/03/2023							
	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for Items
30	8/3/2023	20399	Marin Ace	39.06		39.06	Misc. Supplies
31	8/3/2023	20400	Marin County Tax Collector	8,881.90		8,881.90	LAFCO Charges FY 2023/24
32	8/3/2023	20401	Marin/Sonoma Mosquito & Vector Control	5,094.98		5,094.98	Mosquito Control @ Ponds- June
33	8/3/2023	20402	McMaster- Carr	1,089.01		1,089.01	Misc. Supplies
34	8/3/2023	20403	Novato Toyota	359.75		359.75	Maintenace Service- District Toyota Camry
35	8/3/2023	20404	Operating Engineers	721.74		721.74	Union Dues- Paydate 7/28
36	8/3/2023	ACH	Orion Protection Services	369.61		369.61	Night Patrol @ Smith Ranch- August
37	8/3/2023	20405	Pace Supply	2,510.00		2,510.00	Digester Project Parts
38	8/3/2023	ACH	Regional Government Services	1,387.05		1,387.05	Reimbursable Expenses L. Wong- Caselle Go-Live
39	8/3/2023	ACH	Reladyne	3,242.79		3,242.79	Unleaded & Diesel Fuel
40	8/3/2023	20406	San Rafael Police Dept.	50.00		50.00	False Alarm @ Plant
41	8/3/2023	EFT	Sunlife	3,513.99		3,513.99	EE's AD&D, Disability and Life Insurance- August
42	8/3/2023	20407	Uline	64.60		64.60	Dividers for Shelf Bins
43	8/3/2023	20408	Underground Service Alert	3,908.02		3,908.02	Ca. State Fee ofr Regulatory Costs 7/1/23 - 6/30/24, 2023 Membership
44	8/3/2023	20409	United Site Services	692.43		692.43	Porta Potty Cleaning
45	8/3/2023	EFT	WEX Health	50.00		50.00	FSA Administration- July
46	8/3/2023	ACH	Yezman, Crystal	92.30		92.30	CASA/ CWEA Conference & Webinar Reimbursement
47	8/3/2023	20411	Zappetini	10,000.00		10,000.00	Catwalk Repairs & Replacement

**Las Gallinas Valley Sanitation District  
Warrant List 8/03/2023**

Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for Items
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Do not change any formulas below this line.

**TOTAL** \$ 512,301.12 \$ - \$ 512,301.12

EFT1	EFT1 = Payroll (Amount Required)	167,175.78		167,175.78	Approval:
EFT2	EFT2 = Bank of Marin loan payments	0.00		0.00	 Finance
PC	Petty Cash Checking	0.00		0.00	
>1	Checks (Operating Account)	223,699.89		223,699.89	 GM
N/A	Checks - Not issued	0.00		0.00	
EFT	EFT = Vendor initiated "pulls" from LGVSD	61,304.82		61,304.82	Board
ACH	ACH = LGVSD initiated "push" to Vendor	60,120.63		60,120.63	
<b>Total</b>		<u>\$ 512,301.12</u>		<u>\$ 512,301.12</u>	

Difference: \$ \_\_\_\_\_

STPURWE Costs 33,419.10

Las Gallinas Valley Sanitary District  
Reconciliation Detail  
6204 - Credit Card at Elan Financial, Period Ending 06/30/2023

Type	Date	Name	Memo	Amount	Balance
Beginning Balance					30,858.29
Cleared Transactions					
Charges and Cash Advances - 97 items					
Credit Card	06/06/2023	ADT Commerical Security	Security @ Plant Gate AMY SCHULTZ;	-25.00	-25.00
Credit Card	06/07/2023	Comcast	Internet Services AMY SCHULTZ;	-575.39	-600.39
Credit Card	06/07/2023	Evoqua Water	DI Water Tank Exchange SAHAR GOLSHANI;	-207.20	-807.59
Credit Card	06/07/2023	Miscellaneous	Meeting supplies PAM AMATORI;	-92.79	-900.38
Credit Card	06/07/2023	Safeway	Meeting supplies PAM AMATORI;	-46.13	-946.51
Credit Card	06/08/2023	Home Depot	Plants for Ribbon Cutting PAM AMATORI;	-99.26	-1,045.77
Credit Card	06/08/2023	Marin County Clerk	2 SLA program recording AMY SCHULTZ;	-62.50	-1,108.27
Credit Card	06/08/2023	Miscellaneous	Fuel for District Auto - CURTIS D PAXTON;	-47.60	-1,155.87
Credit Card	06/08/2023	Miscellaneous	Parking for CWEA/CASA CURTIS D PAXTON;	-22.00	-1,177.87
Credit Card	06/09/2023	Zoom	Online Meeting Software AMY SCHULTZ;	-134.99	-1,312.86
Credit Card	06/12/2023	Miscellaneous	Food for Ribbon Cutting @ McInnis Golf TERESA LERCH;	-1,673.75	-2,986.61
Credit Card	06/12/2023	Sonic.net	Internet Host AMY SCHULTZ;	-19.95	-3,006.56
Credit Card	06/12/2023	Safeway	Office Supplies PAM AMATORI;	-6.00	-3,012.56
Credit Card	06/13/2023	Miscellaneous	Distirct Vehicle Cleaning CURTIS D PAXTON;	-40.00	-3,052.56
Credit Card	06/13/2023	Diversity Learning	Harassment Training GREG PEASE;	-15.95	-3,068.51
Credit Card	06/14/2023	Amazon.com	Diaphragm Pump GREG PEASE;	-218.49	-3,287.00
Credit Card	06/14/2023	Restaurants - Specified	Lunch w/M. Clark CURTIS D PAXTON;	-65.63	-3,352.63
Credit Card	06/14/2023	United Parcel Service	Shipping camera to Aries ROBERT B FERNANDES;	-32.82	-3,385.45
Credit Card	06/14/2023	Fastrak	Tolls for District Vehicles AMY SCHULTZ;	-25.00	-3,410.45
Credit Card	06/14/2023	Diversity Learning	Harassment Training DONALD MOORE	-15.95	-3,426.40
Credit Card	06/15/2023	Home Depot	Paints & Supplies CHRIS CAMPBELL;	-159.72	-3,586.12
Credit Card	06/15/2023	Miscellaneous	Premium Pro Monthly Subscription GREG PEASE;	-4.99	-3,591.11
Credit Card	06/16/2023	Amazon.com	Sign Holder- Board Annoucements PAM AMATORI;	-22.93	-3,614.04
Credit Card	06/20/2023	Amazon.com	Items for system upgrade @ plant PAM AMATORI;	-946.06	-4,560.10
Credit Card	06/20/2023	Home Depot	Water Heater - Lab KEVIN M LEWIS;	-860.20	-5,420.30
Credit Card	06/20/2023	Miscellaneous	Hotel - CWEA/CASA CURTIS D PAXTON;	-483.64	-5,903.94
Credit Card	06/20/2023	ReadyRefresh	Bottled Water Service AMY SCHULTZ;	-182.68	-6,086.62
Credit Card	06/20/2023	Hardy Diagnostics	T. Coliform Media SAHAR GOLSHANI;	-181.70	-6,268.32
Credit Card	06/20/2023	Panera Bread	Food for Board Meeting TERESA LERCH;	-175.74	-6,444.06
Credit Card	06/20/2023	Zoom	Online Meeting- Engineering MICHAEL P CORTEZ;	-149.90	-6,593.96
Credit Card	06/20/2023	Miscellaneous	CWEA Redwood Empire Tour & Dinner (4) CHRIS CAMPBELL;	-120.00	-6,713.96
Credit Card	06/20/2023	Amazon.com	Tire Repair Kit & Winch Power Cable GREG PEASE;	-109.88	-6,823.84
Credit Card	06/20/2023	Amazon.com	Items for system upgrade @ plant PAM AMATORI;	-84.07	-6,907.91
Credit Card	06/20/2023	Amazon.com	Tire Repair kit & Winch Power Cable GREG PEASE;	-52.44	-6,960.35
Credit Card	06/20/2023	Call Center Sales	After hours message center AMY SCHULTZ;	-45.44	-7,005.79
Credit Card	06/20/2023	Amazon.com	SDHC UHS-I Card and Adaptor TERESA LERCH;	-25.30	-7,031.09
Credit Card	06/20/2023	Hardy Diagnostics	Coliform Media SAHAR GOLSHANI;	-24.71	-7,055.80
Credit Card	06/20/2023	Amazon.com	Amazon Prime Fee PAM AMATORI;	-16.38	-7,072.18
Credit Card	06/20/2023	Amazon.com	File Folders TERESA LERCH;	-12.21	-7,084.39
Credit Card	06/20/2023	Diversity Learning	Harassment Training CHRIS CAMPBELL	-11.95	-7,096.34
Credit Card	06/21/2023	CWEA	MT-1 Membership Renewal GLENN R COOK;	-95.00	-7,191.34
Credit Card	06/21/2023	Amazon.com	Hanging File Folders SAHAR GOLSHANI;	-53.82	-7,245.16
Credit Card	06/21/2023	Chevron	Waters MANUEL CARDENAS;	-15.33	-7,260.49
Credit Card	06/21/2023	Diversity Learning	Harassment Training GLENN R COOK;	-11.95	-7,272.44
Credit Card	06/22/2023	Miscellaneous	Fuel for District Vehicle GREG PEASE;	-65.00	-7,337.44
Credit Card	06/22/2023	Amazon.com	Clorox Bleach SAHAR GOLSHANI;	-38.23	-7,375.67
Credit Card	06/22/2023	Marin Ace	Contract Bag ROGELIO TAPIA;	-20.75	-7,396.42
Credit Card	06/22/2023	Amazon.com	Bib Apron Waterdrop Resistant SAHAR GOLSHANI;	-13.09	-7,409.51
Credit Card	06/22/2023	Diversity Learning	Harassment Training Manuel Cardenas	-11.95	-7,421.46
Credit Card	06/23/2023	Home Depot	Paint, paint brushes, etc. STEVEN INSKEEP;	-414.45	-7,835.91
Credit Card	06/23/2023	USA BlueBook	Activated Sludge Troubleshooting Guide SAHAR GOLSHANI;	-248.02	-8,083.93
Credit Card	06/23/2023	Amazon.com	Lubricant for HOBO Logger SAHAR GOLSHANI;	-73.46	-8,157.39
Credit Card	06/23/2023	Diversity Learning	Harassment Training Ralph Loveless	-11.95	-8,169.34
Credit Card	06/23/2023	Diversity Learning	Harassment Training ROBERT B FERNANDES;	-11.95	-8,181.29
Credit Card	06/23/2023	Amazon.com	Screwdriver set SAHAR GOLSHANI;	-10.93	-8,192.22
Credit Card	06/23/2023	Amazon.com	3V Lithium Batteries SAHAR GOLSHANI;	-8.96	-8,201.18
Credit Card	06/26/2023	Microsoft	Licenses AMY SCHULTZ;	-3,300.00	-11,501.18
Credit Card	06/26/2023	Microsoft	Licenses AMY SCHULTZ;	-816.00	-12,317.18
Credit Card	06/26/2023	Miscellaneous	Temperature Logger SAHAR GOLSHANI;	-538.65	-12,855.83
Credit Card	06/26/2023	Amazon.com	Shop tools GREG PEASE;	-309.11	-13,164.94
Credit Card	06/26/2023	FLeetio	Vehicle Maintenance Program GREG PEASE;	-192.00	-13,356.94
Credit Card	06/26/2023	CWEA	Certificate Renewal SAHAR GOLSHANI;	-110.00	-13,466.94
Credit Card	06/26/2023	Fastrak	Tolls of Distirct Vehicles AMY SCHULTZ;	-25.00	-13,491.94
Credit Card	06/26/2023	Fastrak	Tolls of Distirct Vehicles AMY SCHULTZ;	-25.00	-13,516.94
Credit Card	06/26/2023	Amazon.com	Shop tools GREG PEASE;	-17.69	-13,534.63
Credit Card	06/26/2023	Microsoft	Monthly Fee AMY SCHULTZ;	-16.00	-13,550.63
Credit Card	06/26/2023	Amazon.com	Office supplies - 101 LVR PAM AMATORI;	-5.45	-13,556.08
Credit Card	06/26/2023	Microsoft	Encrypted Email AMY SCHULTZ;	-2.00	-13,558.08
Credit Card	06/27/2023	Hardy Diagnostics	T. Coliform Media SAHAR GOLSHANI;	-156.36	-13,714.44
Credit Card	06/27/2023	Hardy Diagnostics	T. Coliform Media SAHAR GOLSHANI;	-24.82	-13,739.26
Credit Card	06/27/2023	Diversity Learning	Harassment Training DALE MCDONALD;	-15.95	-13,755.21
Credit Card	06/28/2023	Miscellaneous	Projector ROBERT M LIEBMANN;	-1,419.16	-15,174.37
Credit Card	06/28/2023	Comcast	Business Internet AMY SCHULTZ;	-265.35	-15,439.72
Credit Card	06/29/2023	Harbor Freight	Shop tools KEVIN M LEWIS;	-521.08	-15,960.80
Credit Card	06/29/2023	Amazon.com	Sound Level Meter & Safety Assess. ROBERT M LIEBMANN;	-348.50	-16,309.30
Credit Card	06/29/2023	Amazon.com	Coffee SAHAR GOLSHANI;	-109.63	-16,418.93
Credit Card	06/29/2023	Amazon.com	Office supplies - 101 LVR & 300 SRR PAM AMATORI;	-80.34	-16,499.27
Credit Card	06/29/2023	Miscellaneous	Parking for the CWEA/CASA Conf. CURTIS D PAXTON;	-75.00	-16,574.27
Credit Card	06/29/2023	Amazon.com	Cable for security camera ROBERT M LIEBMANN;	-71.01	-16,645.28
Credit Card	06/29/2023	Amazon.com	Cables for projector ROBERT M LIEBMANN;	-51.67	-16,696.95
Credit Card	06/29/2023	Amazon.com	Cable for security camera ROBERT M LIEBMANN;	-5.03	-16,701.98
Credit Card	06/30/2023	Ubiquiti	Items for system upgarde @ Plant PAM AMATORI;	-653.48	-17,355.46
Credit Card	06/30/2023	Amazon.com	Office supplies - 101 LVR & 300 SRR PAM AMATORI;	-199.65	-17,555.11
Credit Card	06/30/2023	Novato Carwash	Clean/wash the C-Mac PAM AMATORI;	-34.00	-17,589.11

Las Gallinas Valley Sanitary District  
Reconciliation Detail  
6204 - Credit Card at Elan Financial, Period Ending 08/05/2023

Type	Date	Name	Memo	Amount	Balance
Credit Card	06/30/2023	Amazon.com	Batteries GREG PEASE;	-15.58	-17,604.69
Credit Card	06/30/2023	Diversity Learning	Harassment Training YI YING HUANG;	-11.95	-17,616.64
Credit Card	07/03/2023	Home Depot	Shop Tools KEVIN M LEWIS;	-2,762.93	-20,379.57
Credit Card	07/03/2023	Treasury Software	ACH conversion software AMY SCHULTZ;	-39.95	-20,419.52
Credit Card	07/03/2023	ADT Commercial Security	Security @ Plant Gate AMY SCHULTZ;	-25.00	-20,444.52
Credit Card	07/03/2023	Miscellaneous	Parts for F350 MANUEL CARDENAS;	-12.01	-20,456.53
Credit Card	07/03/2023	Diversity Learning	Harassment Training ANTHONY J TRAVERNA	-11.95	-20,468.48
Credit Card	07/05/2023	Batteries +	Various Batteries CHRIS CAMPBELL;	-233.08	-20,701.56
Credit Card	07/05/2023	Safeway	Creamer for 101 LVR & 300 SRR PAM AMATORI;	-31.96	-20,733.52
Credit Card	07/05/2023	Amazon.com	Office Supplies 101 LVR PAM AMATORI;	-8.52	-20,742.04
Credit Card	07/06/2023	Hardy Diagnostics	Coliform Media SAHAR GOLSHANI;	-181.70	-20,923.74
Credit Card	07/06/2023	Amazon.com	Office Supplies 101 LVR PAM AMATORI;	-52.11	-20,975.85
Credit Card	07/06/2023	Hardy Diagnostics	T. Coliform Media SAHAR GOLSHANI;	-24.87	-21,000.72
Total Charges and Cash Advances				-21,000.72	-21,000.72
<b>Payments and Credits - 7 items</b>					
Bill	06/05/2023	Bank of Marin	Credit card purchase 5/05 through 6/5	30,355.99	30,355.99
Credit Card	06/12/2023	Nelac Institute	Return of Merchandise SAHAR GOLSHANI;	350.00	30,705.99
Credit Card	06/15/2023	Home Depot	Return of Jaw Lock TEVEN INSKEEP;	36.08	30,742.07
Credit Card	06/15/2023	Home Depot	Return of Hand Masks STEVEN INSKEEP;	79.13	30,821.20
Credit Card	06/23/2023	Home Depot	Return of small tools STEVEN INSKEEP;	37.09	30,858.29
Credit Card	06/28/2023	CPS HR Consulting	Refund AMY SCHULTZ;	50.00	30,908.29
Credit Card	07/03/2023	Home Depot	Refund for return of Cordless tower light KEVIN M LEWIS;	250.18	31,158.47
Total Cleared Transactions				10,157.75	10,157.75
Cleared Balance				-10,157.75	20,712.49
Register Balance as of 08/05/2023				-10,157.75	20,712.49
Ending Balance				-10,157.75	20,712.49

Report Criteria:

- Detail report.
- Invoices with totals above \$0.00 included.
- Paid and unpaid invoices included.

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
<b>A and P Moving Inc</b>								
105	A and P Moving Inc	4063957	Document Storage-	07/31/2023	96.80	.00		
Total A and P Moving Inc:					96.80	.00		
<b>ADP, Inc</b>								
140	ADP, Inc	639512936	Payroll processing fees	08/04/2023	69.05	.00		
140	ADP, Inc	639513599	Payroll processing fees	08/04/2023	2,017.60	.00		
Total ADP, Inc:					2,086.65	.00		
<b>Bank of Marin</b>								
295	Bank of Marin	AUGUST 2023	Recycled Water Loan Payment	08/08/2023	7,548.99	.00		
295	Bank of Marin	AUGUST 2023	Recycled Water Loan Payment	08/08/2023	20,174.46	.00		
Total Bank of Marin:					27,723.45	.00		
<b>Bank of Marin Cardmember Services</b>								
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	DONALD E MOORE	06/15/2023	15.95	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	STEVEN INSKEEP	06/15/2023	79.13-	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	STEVEN INSKEEP	06/15/2023	36.08-	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	CHRIS CAMPBELL	06/15/2023	159.72	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	STEVEN INSKEEP	06/15/2023	37.09-	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	STEVEN INSKEEP	06/15/2023	414.45	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	CURTIS D PAXTON, FOR 03 NIG	06/15/2023	75.00	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	NORMAN ROGERS	06/15/2023	11.95	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	CHRIS CAMPBELL	06/15/2023	120.00	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 b	CHRIS CAMPBELL	06/15/2023	11.95	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 d	KEVIN M LEWIS	07/03/2023	250.18-	.00		
300	Bank of Marin Cardmember Servi	CC 7-6-23 d	CHRIS CAMPBELL	07/03/2023	233.08	.00		
Total Bank of Marin Cardmember Services:					639.62	.00		
<b>Bellecci &amp; Associates, Inc.</b>								
355	Bellecci & Associates, Inc.	210068.00-000	22 Leon Dr. ADU inspection	08/08/2023	336.00	.00		
Total Bellecci & Associates, Inc.:					336.00	.00		
<b>BullsEye Telecom, Inc.</b>								
460	BullsEye Telecom, Inc.	47187503	Trunk Lines	08/01/2023	334.05	.00		
Total BullsEye Telecom, Inc.:					334.05	.00		
<b>CalPERS CERBT-OPEB</b>								
560	CalPERS CERBT-OPEB	100000017240	CERBT-OPEB Payment- August	08/04/2023	11,630.00	.00		
Total CalPERS CERBT-OPEB:					11,630.00	.00		
<b>Caselle, Inc.</b>								
620	Caselle, Inc.	126840	Support & Maintenance Sept	08/01/2023	1,461.00	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Caselle, Inc.:						1,461.00	.00	
<b>Centricity GIS</b>								
660	Centricity GIS	1437	AMS Services July 2023	08/07/2023	750.00	.00		
Total Centricity GIS:						750.00	.00	
<b>Cintas Corporation</b>								
675	Cintas Corporation	4163777068	Safewasher Filter Service	08/07/2023	179.54	.00		
Total Cintas Corporation:						179.54	.00	
<b>Cintas Corporation 2</b>								
680	Cintas Corporation 2	5169693908	First Aide Kit Refil	08/03/2023	68.99	.00		
Total Cintas Corporation 2:						68.99	.00	
<b>Contractor Compliance and Monitoring, In</b>								
730	Contractor Compliance and Monit	18844	Secondary Treatment - Myers & S	07/31/2023	852.76	.00		
730	Contractor Compliance and Monit	18844	Secondary Treatment - Myers & S	07/31/2023	150.49	.00		
730	Contractor Compliance and Monit	18845	STPURWE Labor Compliance Se	07/31/2023	230.00	.00		
730	Contractor Compliance and Monit	18846	Standby Generators System	07/31/2023	80.50	.00		
730	Contractor Compliance and Monit	18847	On-Call Inspection Services- Pia	07/31/2023	201.25	.00		
730	Contractor Compliance and Monit	18848	Grit Screw Conveyor System Repl	07/31/2023	373.75	.00		
730	Contractor Compliance and Monit	18849	Standby Generator System Repla	07/31/2023	1,029.25	.00		
730	Contractor Compliance and Monit	18850	Secondary Treatment - DAC Asso	07/31/2023	23.00	.00		
730	Contractor Compliance and Monit	18851	Labor Compliance for On-Call Ins	07/31/2023	675.00	.00		
730	Contractor Compliance and Monit	18852	Levee Road Repair- Custom Tract	07/31/2023	108.00	.00		
730	Contractor Compliance and Monit	18853	Center Pivot Replacement	07/31/2023	297.00	.00		
730	Contractor Compliance and Monit	18854	Venetia Harbor Pump STation Co	07/31/2023	371.25	.00		
730	Contractor Compliance and Monit	18855	On-Call contract for labor complia	07/31/2023	87.00	.00		
730	Contractor Compliance and Monit	18856	On-Call contract for labor complia	07/31/2023	174.00	.00		
Total Contractor Compliance and Monitoring, In:						4,653.25	.00	
<b>Core Utilities, Inc.</b>								
740	Core Utilities, Inc.	42529	IT Services	08/08/2023	1,227.50	.00		
Total Core Utilities, Inc.:						1,227.50	.00	
<b>CPS HR Consulting</b>								
780	CPS HR Consulting	0014026	Human Resources Consulting Ser	07/29/2023	546.26	.00		
Total CPS HR Consulting:						546.26	.00	
<b>Dash Mechanical Engineering LLC</b>								
875	Dash Mechanical Engineering LL	0272	Gearbox Motor & Brake Inspectio	05/01/2023	3,740.00	.00		
Total Dash Mechanical Engineering LLC:						3,740.00	.00	
<b>Direct Dental Administrators, LLC</b>								
925	Direct Dental Administrators, LLC	202307260000	Dental Payment	07/26/2023	59.00	.00		
925	Direct Dental Administrators, LLC	202307260000	Dental Payment	07/26/2023	40.00	.00		
925	Direct Dental Administrators, LLC	202307260000	Dental Payment	07/26/2023	25.00	.00		
925	Direct Dental Administrators, LLC	202307260000	Dental Payment	07/26/2023	33.00	.00		
925	Direct Dental Administrators, LLC	202307260000	Dental Payment	07/26/2023	14.00	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
925	Direct Dental Administrators, LLC	202307260000	Dental Payment	07/26/2023	64.00	.00		
925	Direct Dental Administrators, LLC	D20230811-28	Dental Payment	08/07/2023	165.77	.00		
925	Direct Dental Administrators, LLC	D20230811-28	Dental Payment	08/07/2023	231.31	.00		
Total Direct Dental Administrators, LLC:					632.08	.00		
<b>Du-All Safety, LLC</b>								
960	Du-All Safety, LLC	24597	Safety & Training FY 2022-23	07/31/2023	2,531.00	.00		
960	Du-All Safety, LLC	24597	Safety & Training FY 2023-24	07/31/2023	2,197.00	.00		
Total Du-All Safety, LLC:					4,728.00	.00		
<b>Environmental Science Associates</b>								
1035	Environmental Science Associate	187147	Flood Protection Plan for Biosolid	06/30/2023	4,588.48	.00		
Total Environmental Science Associates:					4,588.48	.00		
<b>Fastenal Company</b>								
1080	Fastenal Company	CAPET66411	Nylock	07/26/2023	19.28	.00		
1080	Fastenal Company	CAPET66508	Misc. Supplies	08/04/2023	538.23	.00		
Total Fastenal Company:					557.51	.00		
<b>FedEx</b>								
1090	FedEx	8-206-57421	Misc. Mailings	07/28/2023	127.62	.00		
Total FedEx:					127.62	.00		
<b>Ford, Ron</b>								
1130	Ford, Ron	AUGUST 2023	Health Reimbursement	08/08/2023	200.00	.00		
Total Ford, Ron:					200.00	.00		
<b>Gardeners Guild</b>								
1180	Gardeners Guild	113711	Landscape Maintenanc	08/01/2023	1,238.00	.00		
Total Gardeners Guild:					1,238.00	.00		
<b>GHD Inc.</b>								
1190	GHD Inc.	380-0036805	Regional Biosolids Compost Facili	08/04/2023	23,067.19	.00		
1190	GHD Inc.	380-0036805	Biosolids Program & Research Pr	08/04/2023	7,518.46	.00		
Total GHD Inc.:					30,585.65	.00		
<b>Grainger</b>								
1235	Grainger	9786869470	Lubricant Oil	07/28/2023	2,044.32	.00		
1235	Grainger	9793462749	Folding Table	08/03/2023	159.60	.00		
Total Grainger:					2,203.92	.00		
<b>GraphicSmith LLC</b>								
1240	GraphicSmith LLC	11854	Internet Site Design	07/31/2023	75.40	.00		
Total GraphicSmith LLC:					75.40	.00		
<b>Hanford ARC</b>								
1265	Hanford ARC	2307221155	Lower Miller Creek Revegetation	07/31/2023	3,770.00	.00		



Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Hanford ARC:						3,770.00	.00	
<b>Hildebrand Consulting, LLC</b>								
1320	Hildebrand Consulting, LLC	542	2023 Sewer Rate Study	05/20/2023	1,380.00	.00		
Total Hildebrand Consulting, LLC:						1,380.00	.00	
<b>Jackson's Hardware, Inc.</b>								
1385	Jackson's Hardware, Inc.	135907	Bulk Supplies	08/07/2023	96.94	.00		
1385	Jackson's Hardware, Inc.	135975	Misc. Supplies	08/08/2023	72.91	.00		
1385	Jackson's Hardware, Inc.	135994	Fastner	08/08/2023	32.73	.00		
Total Jackson's Hardware, Inc.:						202.58	.00	
<b>Kennedy/Jenks Consulting, Inc.</b>								
1440	Kennedy/Jenks Consulting, Inc.	165259	STPURWE: Construction Manage	08/02/2023	8,275.03	.00		
1440	Kennedy/Jenks Consulting, Inc.	165259	STPURWE: Construction Manage	08/02/2023	1,460.30	.00		
Total Kennedy/Jenks Consulting, Inc.:						9,735.33	.00	
<b>Kenwood Energy</b>								
1445	Kenwood Energy	LGVSD-2308	Solar PV System Upgrades Assist	07/31/2023	1,128.75	.00		
Total Kenwood Energy:						1,128.75	.00	
<b>KnowBe4, Inc.</b>								
2930	KnowBe4, Inc.	INV270043	Security Awareness Training	07/28/2023	2,300.90	.00		
Total KnowBe4, Inc.:						2,300.90	.00	
<b>Marin Ace</b>								
1560	Marin Ace	67665	Paint & Paint Brushes	08/01/2023	53.04	.00		
1560	Marin Ace	67794	Utility Gloves	08/08/2023	30.57	.00		
Total Marin Ace:						83.61	.00	
<b>McMaster-Carr</b>								
1640	McMaster-Carr	12280938	Pipe Fittings	08/08/2023	407.14	.00		
Total McMaster-Carr:						407.14	.00	
<b>Murray, Craig</b>								
1710	Murray, Craig	AUGUST 2023	Health Reimbursement	08/08/2023	125.00	.00		
Total Murray, Craig:						125.00	.00	
<b>North Valley Labor Compliance Services</b>								
1795	North Valley Labor Compliance Se	005188	Labor Compliance Services for Lo	07/31/2023	150.00	.00		
Total North Valley Labor Compliance Services:						150.00	.00	
<b>Oberkamper &amp; Associates</b>								
1835	Oberkamper & Associates	22-0651	STPURWE- Plant Perimeter Road	07/01/2023	867.00	.00		
1835	Oberkamper & Associates	22-0651	STPURWE- Plant Perimeter Road	07/01/2023	153.00	.00		
1835	Oberkamper & Associates	23-0554	McInnis Gold Course Corp Yard S	07/01/2023	3,990.00	.00		
1835	Oberkamper & Associates	23-0647	McInnis Gold Course Corp Yard S	07/01/2023	100.00	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
1835	Oberkamper & Associates	23-0707	Reclamation Area Boundary Surv	07/31/2023	1,328.00	.00		
Total Oberkamper & Associates:					6,438.00	.00		
<b>Operating Engineers Local No. 3</b>								
1850	Operating Engineers Local No. 3	8/11 PAYDATE	Union Dues 8/11 Paydate	08/08/2023	721.74	.00		
Total Operating Engineers Local No. 3:					721.74	.00		
<b>Pacific Gas &amp; Electric - 0580531718-6</b>								
1890	Pacific Gas & Electric - 05805317	6/27-7/26	Electricity @ Plant	08/09/2023	176,825.94	.00		
Total Pacific Gas & Electric - 0580531718-6:					176,825.94	.00		
<b>Pacific Gas &amp; Electric - 1991349158-5</b>								
1895	Pacific Gas & Electric - 19913491	6/16-7/18	Electricity @ Pump Stations - 6/16	08/09/2023	13,459.48	.00		
Total Pacific Gas & Electric - 1991349158-5:					13,459.48	.00		
<b>Platt Electric Supply</b>								
1995	Platt Electric Supply	4H18287	Electrical Supplies	08/04/2023	336.34	.00		
Total Platt Electric Supply:					336.34	.00		
<b>R3 Consulting Group</b>								
2055	R3 Consulting Group	122816	Support for 2022 Electronic Annu	08/02/2023	5,287.50	.00		
Total R3 Consulting Group:					5,287.50	.00		
<b>Rathlin Properties LLC</b>								
2075	Rathlin Properties LLC	JULY RENT AD	Monthly Rent	06/26/2023	9,319.00	9,319.00	06/26/2023	
2075	Rathlin Properties LLC	SEPT RENT	Monthly Rent	08/08/2023	9,319.00	.00		
Total Rathlin Properties LLC:					18,638.00	9,319.00		
<b>Retiree Augusto</b>								
2120	Retiree Augusto	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	148.68	.00		
Total Retiree Augusto:					148.68	.00		
<b>Retiree Burgess</b>								
2125	Retiree Burgess	RETIREE HEA	Retiree Health Reimbursement	06/26/2023	132.25	132.25	06/26/2023	
2125	Retiree Burgess	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	132.25	.00		
Total Retiree Burgess:					264.50	132.25		
<b>Retiree Cummins</b>								
2130	Retiree Cummins	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	132.25	132.25	06/26/2023	
2130	Retiree Cummins	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	132.25	.00		
Total Retiree Cummins:					264.50	132.25		
<b>Retiree Cutri</b>								
2135	Retiree Cutri	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	448.36	448.36	06/26/2023	
2135	Retiree Cutri	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	448.36	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Retiree Cutri:					896.72	448.36		
<b>Retiree Emanuel</b>								
2140	Retiree Emanuel	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	269.02	269.02	06/26/2023	
2140	Retiree Emanuel	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	269.02	.00		
Total Retiree Emanuel:					538.04	269.02		
<b>Retiree Gately</b>								
2145	Retiree Gately	RERIREE HEA	Retiree Health Reimbursement- J	06/26/2023	269.02	.00		
2145	Retiree Gately	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	269.02	269.02	06/26/2023	
2145	Retiree Gately	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	269.02	.00		
Total Retiree Gately:					807.06	269.02		
<b>Retiree Guion</b>								
2150	Retiree Guion	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	269.02	269.02	06/26/2023	
2150	Retiree Guion	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	269.02	.00		
Total Retiree Guion:					538.04	269.02		
<b>Retiree Kermoian</b>								
2155	Retiree Kermoian	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	132.25	132.25	06/26/2023	
2155	Retiree Kermoian	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	132.25	.00		
Total Retiree Kermoian:					264.50	132.25		
<b>Retiree Mandler</b>								
2160	Retiree Mandler	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	132.25	132.25	06/26/2023	
2160	Retiree Mandler	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	132.25	.00		
Total Retiree Mandler:					264.50	132.25		
<b>Retiree McGuire</b>								
2165	Retiree McGuire	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	698.50	698.50	06/26/2023	
2165	Retiree McGuire	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	698.50	.00		
Total Retiree McGuire:					1,397.00	698.50		
<b>Retiree Memmott</b>								
2170	Retiree Memmott	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	185.29	185.29	06/26/2023	
2170	Retiree Memmott	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	185.29	.00		
Total Retiree Memmott:					370.58	185.29		
<b>Retiree Petrie</b>								
2175	Retiree Petrie	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	148.68	148.68	06/26/2023	
2175	Retiree Petrie	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	148.68	.00		
Total Retiree Petrie:					297.36	148.68		
<b>Retiree Pettley</b>								
2180	Retiree Pettley	RETIREE HEA	Retiree Health Reimbursement -J	06/26/2023	132.25	132.25	06/26/2023	
2180	Retiree Pettley	SEPT HEALTH	Retiree Health Reimbursement -S	08/08/2023	132.25	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Retiree Pettey:					264.50	132.25		
<b>Retiree Reetz</b>								
2185	Retiree Reetz	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	415.50	415.50	06/26/2023	
2185	Retiree Reetz	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	415.50	.00		
Total Retiree Reetz:					831.00	415.50		
<b>Retiree Reilly</b>								
2190	Retiree Reilly	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	132.25	132.25	06/26/2023	
2190	Retiree Reilly	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	132.25	.00		
Total Retiree Reilly:					264.50	132.25		
<b>Retiree Vine</b>								
2195	Retiree Vine	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	132.25	132.25	06/26/2023	
2195	Retiree Vine	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	132.25	.00		
Total Retiree Vine:					264.50	132.25		
<b>Retiree Wettstein</b>								
2200	Retiree Wettstein	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	732.00	732.00	06/26/2023	
2200	Retiree Wettstein	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	732.00	.00		
Total Retiree Wettstein:					1,464.00	732.00		
<b>Retiree Williams</b>								
2205	Retiree Williams	RETIREE HEA	Retiree Health Reimbursement- J	06/26/2023	732.00	732.00	06/26/2023	
2205	Retiree Williams	SEPT HEALTH	Retiree Health Reimbursement- S	08/08/2023	732.00	.00		
Total Retiree Williams:					1,464.00	732.00		
<b>Robards, Gary</b>								
2235	Robards, Gary	HEALTH REIM	Health Reimbursement	08/08/2023	200.00	.00		
Total Robards, Gary:					200.00	.00		
<b>Satcom Global</b>								
2310	Satcom Global	AI08230211	Satelite Phone Service	08/01/2023	55.24	.00		
2310	Satcom Global	AI08230211	Satelite Phone Service	08/01/2023	55.23	.00		
2310	Satcom Global	AI08230211	Satelite Phone Service	08/01/2023	55.23	.00		
Total Satcom Global:					165.70	.00		
<b>Southwest Valve &amp; Equipment</b>								
2415	Southwest Valve & Equipment	9552	4" wafer onyx PSW Isolator Ring	08/01/2023	3,961.42	.00		
Total Southwest Valve & Equipment:					3,961.42	.00		
<b>Spiess, Robert</b>								
2420	Spiess, Robert	2023-24B	2023/24 Sewer service charges a	08/08/2023	4,410.00	.00		
Total Spiess, Robert:					4,410.00	.00		
<b>Terryberry</b>								
2530	Terryberry	P24944	Employee Recognition- C. Campb	08/08/2023	200.96	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Terryberry:						200.96	.00	
<b>Towne Communications, Inc.</b>								
2565	Towne Communications, Inc.	127124	Warranty agreement on Phone Sy	07/29/2023	176.60	.00		
Total Towne Communications, Inc.:						176.60	.00	
<b>Uline</b>								
2610	Uline	166560359	Shelf Bin Organizer	07/28/2023	877.65	.00		
Total Uline:						877.65	.00	
<b>US Bank (bond)</b>								
2665	US Bank (bond)	2360206	Debit Service Payment on Reven	08/03/2023	645,300.00	.00		
Total US Bank (bond):						645,300.00	.00	
<b>Valley Irrigation Service, Inc.</b>								
2690	Valley Irrigation Service, Inc.	11853	Heavy Duty U-Joint	07/26/2023	373.30	.00		
2690	Valley Irrigation Service, Inc.	11857	Running Light	07/26/2023	1,038.45	.00		
Total Valley Irrigation Service, Inc.:						1,411.75	.00	
<b>Verizon Wireless</b>								
2710	Verizon Wireless	9940571829	District Cell Phones	08/07/2023	52.01	.00		
2710	Verizon Wireless	9940571829	District Cell Phones	08/07/2023	38.01	.00		
2710	Verizon Wireless	9940571829	District Cell Phones	08/07/2023	444.09	.00		
2710	Verizon Wireless	9940571829	District Cell Pones	08/07/2023	377.77	.00		
2710	Verizon Wireless	9940571829	District Cell Phones	08/07/2023	52.01	.00		
2710	Verizon Wireless	9940571829	District Cell Phones	08/07/2023	694.14	.00		
Total Verizon Wireless:						1,658.03	.00	
<b>Water Research Foundation</b>								
2750	Water Research Foundation	052109-2023-1	Utility Membership- Oct 2023 - Se	08/01/2023	3,294.25	.00		
Total Water Research Foundation:						3,294.25	.00	
<b>West Yost</b>								
2775	West Yost	2054506	Grant funding, tracking and applic	06/30/2023	4,285.50	.00		
Total West Yost:						4,285.50	.00	
<b>WEX Health, Inc.</b>								
2780	WEX Health, Inc.	0001782092-IN	FSA Administration	07/31/2023	50.00	.00		
Total WEX Health, Inc.:						50.00	.00	
<b>Yezman, Crystal</b>								
2830	Yezman, Crystal	AUGUST HEAL	Health Reimbursement- August	08/08/2023	200.00	.00		
Total Yezman, Crystal:						200.00	.00	
<b>Zenon Environmental Corporation</b>								
2455	Zenon Environmental Corporation	902199717	Programming Services for Filter F	07/29/2023	33,519.80	.00		
2455	Zenon Environmental Corporation	902199717	Programming Services for Filter F	07/29/2023	5,915.26	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
2455	Zenon Environmental Corporation	902254757	Insight Software Annual Renewal	08/04/2023	2,973.79	.00		
Total Zenon Environmental Corporation:					42,408.85	.00		
Grand Totals:					1,060,604.77	14,412.14		

Board Member: \_\_\_\_\_

General Manager: \_\_\_\_\_

Finance Manager: \_\_\_\_\_

Report Criteria:

- Detail report.
- Invoices with totals above \$0.00 included.
- Paid and unpaid invoices included.

Agenda Item 3c  
Date August 17, 2023

Directors' Meeting Attendance Recap

<u>Name</u>	<u>Total Meetings</u>
Megan Clark	4
Ron Ford	4
Craig Murray	5
Gary Robards	4
Crystal Yezman	<u>5</u>
<b>Total</b>	<u><u>22</u></u>

Meeting Date: 8/17/2023  
Paydate: 8/25/2023



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

**BOARD MEMBER ATTENDANCE FORM**

Director's Name: MEGAN CLARK Month: JULY 2023

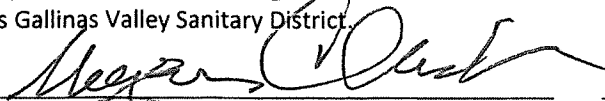
Board Members shall be compensated for up to the legal limit of six (6) meetings per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
6 <sup>th</sup>	REG.	✓	
20 <sup>th</sup>	REG.	✓	
<b>TOTAL</b>		<b>2</b>	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
7 <sup>th</sup>	Legal	✓	
28 <sup>th</sup>	ad hoc occ	✓	
<b>TOTAL</b>		<b>2</b>	

**Total Meetings for which I am Requesting Payment:**  
**Max of six (6) per Health & Safety Code §4733** 4

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

  
 \_\_\_\_\_  
 Director Signature 8-8-23  
 \_\_\_\_\_  
 Date 8/9/23  
 \_\_\_\_\_  
 Administrative Services Manager Approved 8/8/23  
 \_\_\_\_\_  
 Date 24  
 \_\_\_\_\_  
 Board Secretary Received Date





101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

**BOARD MEMBER ATTENDANCE FORM**

Director's Name: Ronald Ford Month: July 2023

Board Members shall be compensated for up to the legal limit of six (6) meetings per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
07/06	Reg. Board	X	
07/20	Reg. Board	X	
<b>TOTAL</b>		2	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
07/07	GM evaluation committee	X	
07/28	OCC Ad/Hoc meeting	X	
<b>TOTAL</b>		2	

<b>Total Meetings for which I am Requesting Payment: Max of six (6) per Health &amp; Safety Code §4733</b>	<b>4</b>
--	----------

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

Ron Ford  
 \_\_\_\_\_  
 Director Signature  
 \_\_\_\_\_  
 Board Secretary Received

07/31/2023  
 \_\_\_\_\_  
 Date  
 8/9/23  
 \_\_\_\_\_  
 Date  
 7/23



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

**BOARD MEMBER ATTENDANCE FORM**

Director's Name: MURRAY, Craig K. Month: July 2023

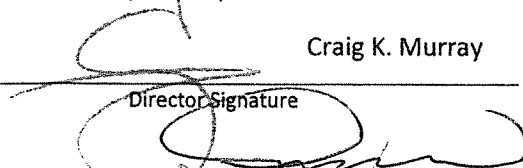
Board Members shall be compensated for up to the legal limit of six (6) meeting per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
7/6/23	Board Meeting	X	
7/20/23	Board Meeting	X	
7/31/23	Ad Hoc Committee - Development	X	
<b>TOTAL</b>		3/3	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
7/9,11,16,20/23	Merrydale Road/Las Gallinas Creek Headwater Litter & Debris Removal c/o City of San Rafael: 7/9 4.0 hr ; 7/11 0.5 hrs; 7/16 4.0 hrs; 7/20 2.0 hrs		XXXX
7/18/23	Renewable Energy Energy Efficiency EXPO- EESI, Wash. DC Webinar	X	
7/24/23	Marin County Special Districts Association (MCSDA) – County CAO Reps		X
7/27/23	CASA Air Quality, Climate Change & Energy (ACE) Workgroup Meeting	X	
<b>TOTAL</b>		2/7	

Total Meetings for which I am Requesting Payment: Max of six (6) per Health & Safety Code §4733	<b>5/10</b>
--	-------------

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

  
 \_\_\_\_\_  
 Director Signature  
 \_\_\_\_\_  
 Administrative Services Manager Approved  
 \_\_\_\_\_  
 Board Secretary Received

July 27, 2023  
 \_\_\_\_\_  
 Date  
 8/9/23  
 \_\_\_\_\_  
 Date  
 7/27/23  
 \_\_\_\_\_  
 Date



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

**BOARD MEMBER ATTENDANCE FORM**

Director's Name: GARY ROBARDOS Month: Jul 2023

Board Members shall be compensated for up to the legal limit of six (6) meetings per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
7/6/23	LGUSD Reg Board Mtg	X	
7/20/23	<del>GA</del> Reg Board Mtg	X	
TOTAL		2	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
7/7/23	GM Performance Ad Hoc	X	
7/31/23	Development Ad Hoc	X	
TOTAL		2	

Total Meetings for which I am Requesting Payment: 4  
 Max of six (6) per Health & Safety Code §4733

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

Gary Robardos Director Signature 7/31/23 Date  
[Signature] Administrative Services Manager Approved 8/9/23 Date  
[Signature] Board Secretary Received 8/1/23 Date



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903  
 Office: 415.472.1734 Fax: 415.499.7715

**BOARD MEMBER ATTENDANCE FORM**

Director's Name: Yezman Month: July 2023

Board Members shall be compensated for up to the legal limit of six (6) meeting per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
07/06/2023	Regular Board Mtg	X	
07/20/2023	Regular Board Mtg	X	
<b>TOTAL</b>		<b>2</b>	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
07/19/2023	CWEA Webinar on Microbiology	X	
07/24/2023	MSDA Executive Board Mtg	X	
07/31/2023	MSDA/County DPW Coordination Mtg	X	
<b>TOTAL</b>		<b>3</b>	

<b>Total Meetings for which I am Requesting Payment: Max of six (6) per Health &amp; Safety Code §4733</b>	<b>5</b>
--	----------

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

[Signature] 08/03/2023  
 Director Signature Date

[Signature] 8/9/23

[Signature] 8/3/23

AGENDA ITEM 3 D  
DATE August 17, 2023



### BOARD MEMBER CONFERENCE/ MEETING/WEBINAR ATTENDANCE REQUEST

Date: 8.8.23 Name: MEGAN CLARK

I would like to attend the AWWA - MOVE THE DIAL ON <sup>DEI program</sup> Meeting  
of AWWA

To be held on the 9<sup>th</sup> + 16<sup>th</sup> day<sup>s</sup> of AUG. from 10:00 a.m. / p.m. to 11:30 p.m.  
\_\_\_\_\_ day of \_\_\_\_\_ from \_\_\_\_\_ a.m. / p.m.

Location of meeting: ON LINE

Actual meeting date(s): 9<sup>th</sup> + 16<sup>th</sup> of August

Meeting Type: (In person) Webinar / Conference) \_\_\_\_\_

Purpose of Meeting: INFO

Meeting relevance to District: \_\_\_\_\_

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: twice

Estimated Costs of Travel (if applicable): 0

Date submitted to Board Secretary: 8.8.23

Board approval obtained on Date: \_\_\_\_\_

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

EVENTS



Event Details

## Move the Dial on Your Utility's DEI Program, Part I



Date:  
**August 9, 2023**

Time:  
**11:00 AM - 12:00 PM MT**

**Add to Calendar**

Times listed for Mountain time zone.

Webinar fee per person: FREE for Member/\$25 Nonmember

In this 2-part series, attendees will hear from utility leaders on learn how to adapt and implement strategies to improve diversity, equity, and inclusion at your utility, regardless of size.

In this part of the series, speakers will share the importance of having an education and communication strategy before beginning outreach to the community for workforce development or launching a DEI initiative. They will identify key areas, objectives, and goals to include in overall communication strategies to advance DEI in the utility.

Attendees will learn about:

- I. The importance, and know-how, of crafting, developing, and problem-solving DEI strategy at their utilities.
- II. How to conceptualize DEI adjustments specific to their utility.
- III. How to identify key elements for developing a DEI strategy for their utility, convert it into a plan, and take action via leadership buy-in and effective and holistic communication.

Expert Panel:

Moderated by Maggie Vaulman, Section Relationship Manager, Section Services, AWWA

- I. Brianna Huber, Director of Water Filtration, City of East Moline
- II. Karen Rentz, Director of Human Resources, Toho Water Authority

Registration is per person, and allows webinar access for one person on one computer. All registrants will receive a link to view the webinar recording, within 7 days after airing.

Certificates of Completion are available if viewed in full. Certificates can be accessed self-service by following the instructions at [www.awwa.org/credits](http://www.awwa.org/credits). Contact your licensing agency to see if they will accept your Certificate of Completion.

By registering for this webinar, you submit your personal contact data such as name, address, and email address to the sponsors who will use it to communicate with you regarding this event and their services. If you do not wish to receive any emails from our webinar sponsors you may follow the sponsors opt out or unsubscribe instructions following receipt of an email from them. You will not be able to opt out prior to receiving an initial email from our webinar sponsors.

[View Less](#)

List Price: **\$25.00**  
Member Price: **Free**

EVENTS

 Event Details

## Move the Dial on Your Utility's DEI Program, Part II



Date:  
**August 16, 2023**

Time:  
**11:00 AM - 12:30 PM MT**

**Add to Calendar**

Times listed for Mountain time zone.

Webinar fee per person: FREE for Member/\$25 Nonmember

In this 2-part series, attendees will hear from utility leaders on learn how to adapt and implement strategies to improve diversity, equity, and inclusion at your utility, regardless of size.

In part 2, utility leaders will speak about evaluating organizational readiness for change, determining a baseline understanding of DEI concepts, and using that information to identify objectives and goals for their utility's strategy. The session will cover the importance of leadership buy-in and how to gain it.

Attendees will learn to:

- I. The importance, and know-how, of crafting, developing, and problem-solving DEI strategy at their utilities.
- II. How to conceptualize DEI adjustments specific to their utility.
- III. How to identify key elements for developing a DEI strategy for their utility, convert it into a plan, and take action via leadership buy-in and effective and holistic communication.

Registration is per person, and allows webinar access for one person on one computer. All registrants will receive a link to view the webinar recording, within 7 days after airing.

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List Price: **\$25.00**  
Member Price: **Free**



AGENDA ITEM 3E  
DATE August 17, 2023



## BOARD MEMBER CONFERENCE/ MEETING/WEBINAR ATTENDANCE REQUEST

Date: 7/18/23 Name: MURRAY, Craig K.

I would like to attend the Renewable Energy Energy Efficiency EXPO

Meeting of Environmental and Energy Study Institute (EESI)

To be held on the 18th day of July from 0930am a.m. /  
p.m. to 18th day of July from to 5:00pm a.m. / p.m.

Location of meeting: Hart Senate Office Building, 120 Consitution Ave NE,  
Washington, DC Room 902 (9<sup>th</sup> Floor)

Actual meeting date(s): Tuesday, July 18, 2023

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

Purpose of Meeting: 26<sup>th</sup> Annual Renewable Energy Policy Forum

Meeting relevance to District: Technology and Energy Policy Updates

YES NO

Request assistance from Board Secretary to register for Conference:

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

Frequency of Meeting: 1x

Estimated Costs of Travel (if applicable): N/A

Date submitted to Board Secretary: 7/13/23

Board approval obtained on Date: \_\_\_\_\_

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

REVISED 05052022




**Craig Murray**

---

**From:** Daniel Bresette, EESI <eesi@eesi.org>  
**Sent:** Thursday, July 13, 2023 9:09 AM  
**To:** Craig Murray  
**Subject:** Join us for the Clean Energy EXPO on Tuesday, July 18 - 7 Members of Congress Speaking

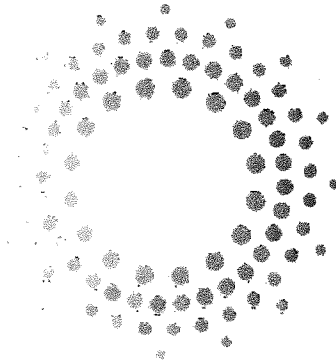
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**Environmental and Energy Study Institute**

# **EXPO & Policy Forum**



# **Renewable Energy Energy Efficiency EXPO**

**Tuesday, July 18, 2023  
9:30 AM - 5:00 PM EDT**

**Hart Senate Office Building  
120 Constitution Ave NE  
Washington, DC  
Room 902 (9th Floor)**

[www.eesi.org/expo](http://www.eesi.org/expo)

Free and open to all.



**Policy Forum Livestream:**

[www.eesi.org/livecast](http://www.eesi.org/livecast)

No login required

@eesionline

#DCenergyexpo



The Environmental and Energy Study Institute (EESI) and the Senate Renewable Energy and Energy Efficiency (REEE) Caucus invite you to join us for the **26th Annual Congressional Renewable Energy and Energy Efficiency EXPO and Policy Forum** on Tuesday, July 18.

Top-level speakers will showcase technologies and solutions that reduce carbon emissions, save households money, improve the economy, build resilience, and protect our security interests.

Please note that the following schedule is subject to change.

**Members of Congress speaking:**

- |       |  |
|-------|--|
| 10 AM | <b>Sen. Jack Reed (D-R.I.)</b><br><i>Co-Chair, Senate Renewable Energy and Energy Efficiency Caucus</i>            |
| 12 PM | <b>Rep. Scott Peters (D-Calif.)</b>  |
| 1 PM  | <b>Sen. Ron Wyden (D-Ore.)</b>   |
| 3 PM  | <b>Sen. Mike Crapo (R-Idaho) by video</b><br><i>Co-Chair, Senate Renewable Energy and Energy Efficiency Caucus</i> |

- 5:30 PM **Sen. Chris Van Hollen (D-Md.)**  
*Deputy Co-Chair, Senate Renewable Energy and Energy Efficiency  
 Caucus*
- 6:15 PM **Sen. Ron Wyden (D-Ore.)**  
 TBA **Rep. Earl Blumenauer (D-Ore.)**

### Policy Forum

- 10 AM Where It All Begins: Energy Efficiency Essentials  
 11 AM Clean Energy Opportunities in Rural Communities  
 12 PM Training the Workforce for the 21st Century Clean Energy Economy  
 1 PM Toward the Energy System of the Future  
 3 PM Clean Energy and National Security  
 4 PM Accelerating Sustainable Transportation

### Policy Forum Speaker Lineup

**10:00 AM - 10:45 AM EDT** **Where It All Begins: Energy Efficiency Essentials**

- **Paula Glover**, President, Alliance to Save Energy (ASE)
- **Curt Rich**, President and CEO, North American Insulation Manufacturers Association (NAIMA)
- **Justin Koscher**, President and CEO, Polyisocyanurate Insulation Manufacturers Association (PIMA)
- **Bryon Krug**, Treasurer, National Association of Energy Service Companies (NAESCO); President, CEG Solutions LLC

**11:00 AM - 11:45 AM EDT** **Clean Energy Opportunities in Rural Communities**

- **Jaime Jackson**, Senior Advisor for the Rural Utilities Service, U.S. Department of Agriculture (USDA)
- **Carrie Annand**, Executive Director, Biomass Power Association (BPA)
- **Keith Dennis**, President, Beneficial Electrification League (BEL)

- **Aaliyah Nedd**, Director of Government Relations, National Cooperative Business Association CLUSA International (NCBA CLUSA)

12:00 PM -  
12:45 PM EDT

### **Training the Workforce for the 21st Century Clean Energy Economy**

- **Garrett Nilsen**, Deputy Director, Solar Energy Technologies Office, U.S. Department of Energy (DOE)
- **Jason Walsh**, Executive Director, BlueGreen Alliance (BGA)
- **Lynn Abramson**, President, Clean Energy Business Network (CEBN)
- **Charles Bolden**, Senior Director of Congressional Affairs, Solar Energy Industries Association (SEIA)

1:00 PM -  
2:15 PM EDT

### **Toward the Energy System of the Future**

- **Mandy Mahoney**, Director, Building Technologies Office, U.S. Department of Energy
- **Lisa Jacobson**, President, Business Council for Sustainable Energy (BCSE)
- **Malcolm Woolf**, President and CEO, National Hydropower Association (NHA)
- **Ralph Cleveland**, President and CEO, American Association of Blacks in Energy (AABE)
- **Bill Parsons**, Vice President, Federal and State Affairs, American Clean Power (ACP)
- **Misti Groves**, Vice President, Market and Policy Innovation, Clean Energy Buyers Association (CEBA)

3:00 PM -  
3:45 PM EDT

### **Clean Energy and National Security**

- **Rachel Ross**, Deputy Chief Sustainability Officer, U.S. Department of Defense (DOD)
- **Jake Gentle**, Program Manager, Infrastructure Security, Idaho National Laboratory (INL)
- **Jennifer Schafer-Soderman**, Executive Director, Federal Performance Contracting Coalition (FPCC)
- **Jeremy Harrell**, Chief Strategy Officer, ClearPath

4:00 PM -  
4:45 PM EDT

### **Accelerating Sustainable Transportation**

- **Britney McCoy**, Director, Climate Analysis and Strategies Center, Office of Transportation and Air Quality, U.S. Environmental Protection Agency (EPA)
- **Genevieve Cullen**, President, Electric Drive Transportation Association (EDTA)
- **Chris Bliley**, Senior Vice President of Regulatory Affairs, Growth Energy
- **Art Guzzetti**, Vice President, Mobility Initiatives and Public Policy, American Public Transportation Association (APTA)

### **Participants**

- U.S. Department of Agriculture (USDA)
- U.S. Department of Defense (DOD)
- U.S. Department of Energy (DOE)
- U.S. Environmental Protection Agency (EPA)
- Alliance to Save Energy (ASE)
- American Association of Blacks in Energy (AABE)
- American Clean Power (ACP)
- American Public Transportation Association (APTA)
- Beneficial Electrification League (BEL)
- Biomass Power Association (BPA)
- BlueGreen Alliance (BGA)
- Business Council for Sustainable Energy (BCSE)
- Clean Energy Buyers Association (CEBA)
- Clean Fuels Development Coalition (CFDC)

- ClearPath
- Electric Drive Transportation Association (EDTA)
- Environmental and Energy Study Institute (EESI)
- Federal Performance Contracting Coalition (FPCC)
- Growth Energy
- Idaho National Laboratory (INL)
- National Association of Energy Service Companies (NAESCO)
- National Cooperative Business Association CLUSA International (NCBA CLUSA)
- National Hydropower Association (NHA)
- North American Insulation Manufacturers Association (NAIMA)
- Polyisocyanurate Insulation Manufacturers Association (PIMA)
- Solar Energy Industries Association (SEIA)

## Honorary Co-Host

Senate Renewable Energy & Energy Efficiency Caucus

**Environmental and Energy Study Institute**  
**Daniel Bresette, President**

EESI is an independent 501(c)(3) non-profit organization established in 1984 by a bipartisan Congressional caucus to provide timely information and develop innovative policy solutions that set us on a cleaner, more secure and sustainable energy path.

[www.eesi.org](http://www.eesi.org)



CFC #10627

This email was sent to: [craig\\_murray@ci.richmond.ca.us](mailto:craig_murray@ci.richmond.ca.us)

This email was sent by: Environmental and Energy Study Institute (EESI)  
 1020 19th Street, NW Suite 400, Washington, DC, 20036 USA

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AGENDA ITEM 3F  
DATE August 17, 2023



## BOARD MEMBER CONFERENCE/ MEETING/WEBINAR ATTENDANCE REQUEST

Date: 7/17/23 Name: MURRAY, Craig K.

I would like to attend the 2023 Annual Conference Meeting of California  
Special Districts Association (CSDA)

To be held on the 28th day of August from 0800am  
a.m. / p.m. to 31st day of August from to 5:00pm a.m. / p.m.

Location of meeting: Monterey Marriott /Portola Hotel Conference Center

Actual meeting date(s): August 28-31, 2023

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

Purpose of Meeting: A Gathering of the Districts

Meeting relevance to District: Special District Compliance, Industry Updates  
YES NO

Request assistance from Board Secretary to register for Conference:

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

Frequency of Meeting: 1x

Estimated Costs of Travel (if applicable): \$2,500.

Date submitted to Board Secretary: 7/17/23

Board approval obtained on Date: \_\_\_\_\_

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



**California Special  
Districts Association**  
*Districts Stronger Together*

# 2023 CSDA annual conference & exhibitor showcase

The Leadership Conference  
for Special Districts

📅 August 28 – 31, 2023 | 📍 Monterey, California



The CSDA Annual Conference & Exhibitor Showcase is the one conference that hits all the right notes for special district leaders! Cultivate new connections this August in Monterey.

Join 800-plus special district professionals and industry experts for a three-day, must-attend education and networking event.

- ✦ Develop new partnerships.
- ✦ Discover new products and services to make your district more efficient.
- ✦ Expand your horizons with inspiring and motivating keynote sessions.
- ✦ Learn about the latest in special district technology, management playbooks, and legal trends.
- ✦ Explore new ideas and best practices. Walk away with practical strategies, new connections, and innovative ideas to move your district forward.

### **We're getting the band back together in Monterey!**

CSDA's 2023 Annual Conference & Exhibitor Showcase is back in Monterey! Attendees can enjoy meandering down Cannery Row and Monterey Old Fisherman's Wharf to indulge in a piping hot bread bowl full of clam chowder, visit the acclaimed Monterey Bay Aquarium to see a spirited sea otter up-close, or book a boat tour, whale watching cruise, or fishing trip to set sail on the open waters of Monterey Bay. In your free time, enjoy the combination of natural beauty and cultural richness of Monterey!



Monterey Marriott | Monterey, CA



Portola Hotel & Spa | Monterey, CA

*CSDA room reservations in the CSDA room block at the Marriott and Portola Hotel & Spa are available starting at the rate of \$229 plus tax. The room reservation cut-off is August 5, 2023; however, space is limited and may sell out before this date. Information regarding hotel reservations and link to book in the CSDA room block will be emailed to the registrant within 24 hours of registration.*

*One night's non-refundable room and tax will be charged at the time a reservation is made for rooms reserved at the Portola, and charged on August 5, 2023, for rooms reserved at the Marriott.*





Item Number \_\_\_\_\_ 3H \_\_\_\_\_

GM Review \_\_\_\_\_ CP \_\_\_\_\_

# Agenda Summary Report

**To:** Board of Directors  
**From:** Michael P. Cortez, PE, District Engineer  
 (415) 526-1518; [mcortez@lqvsd.org](mailto:mcortez@lqvsd.org)  
**Mtg. Date:** August 17, 2023  
**Re:** Award of Contract – Biosolids Land Application Services  
**Item Type:** Consent  Action \_\_\_\_\_ Information \_\_\_\_\_ Other \_\_\_\_\_  
**Standard Contract:** Yes  No \_\_\_\_\_ (See attached) Not Applicable \_\_\_\_\_

## STAFF RECOMMENDATION

Board to approve the Award of Contract for Biosolids Land Application Services Project to Synagro-WWT, Inc.

## BACKGROUND

Since 2015, the District has included in its Strategic Plan Vision to “Strive toward beneficial recycling of wastewater, biosolids and other resources using safe and effective processes and systems to achieve our zero waste vision.” Biosolids were identified as one of five strategic focus areas for the 2023-2027 plan timeframe, and the District’s objective is to migrate biosolids from disposal to beneficial reuse.

The District has put in significant efforts over a long period of time to initiate beneficial reuse of biosolids, including conducting feasibility studies, site testing, and permitting. In March 2021, the District submitted a Notice of Intent for coverage under the *General Waste Discharge Requirements for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural, and Land Reclamation Activities*, Order No. 2004-0012-DWQ (General Order).

In July 2022, the District enrolled under the General Order with a Notice of Applicability (NOA) and a specific monitoring and reporting program, which allows the District to beneficially reuse biosolids for the first time. The District was the only agency in the San Francisco Bay Area Regional Water Quality Control Board (Region 2) granted a permit due to its commitment to work with the EPA National Priorities Program three-year research project, *Unregulated Organic Chemicals in Biosolids: Prioritization, Fate and Risk Evaluations for Land Applications* (Research Project) to evaluate all aspects of biosolids reuse.

The award of a contract for Biosolids Land Application Services will be the culmination of a goal the District has been planning for over eight (8) years to beneficially use biosolids while also securing a long-term viable biosolids management strategy. This will enable the District to manage its biosolids on District-owned property for the foreseeable future.

On August 7, 2023, the District opened bids for the Project advertised on July 14, 2023. Synagro-WWT, Inc. was the sole bidder at \$565,863.80. The bid price was checked against industry values and surrounding agencies, and it was found to be in the range of expected costs.



The apparent lowest bid price exceeds the engineer's estimate of \$300,000 and the current operations budget of \$102,000 for sludge injection. Excess funding will be through budget reallocation from capital reserves.

**PREVIOUS BOARD ACTION**

- On October 6, 2022, the Board awarded a contract to GHD, Inc. for Biosolids Program and Research Project Support Services in the amount of \$950,834.
- On November 3, 2022, the Board awarded a contract to Environmental Science Associates for Phase 1 of the Flood Protection Plan in the amount of \$99,955.

**ENVIRONMENTAL REVIEW**

N/A

**FISCAL IMPACT**

\$565,863.80



Item Number \_\_\_\_\_ 3I \_\_\_\_\_

GM Review \_\_\_\_\_ CP \_\_\_\_\_

# Agenda Summary Report

**To:** Board of Directors  
**From:** Michael P. Cortez, PE, District Engineer  
 (415) 526-1518; [mcortez@lqvsd.org](mailto:mcortez@lqvsd.org)  
**Mtg. Date:** August 17, 2023  
**Re:** Award of Contract – Digester MCC-2 Upgrade  
**Item Type:** Consent  Action \_\_\_\_\_ Information \_\_\_\_\_ Other \_\_\_\_\_  
**Standard Contract:** Yes  No \_\_\_\_\_ (See attached) Not Applicable \_\_\_\_\_

## STAFF RECOMMENDATION

Board to approve the Award of Contract for Digester MCC-2 Upgrade Project to Blocka Construction, Inc.

## BACKGROUND

On August 7, 2023, the District opened bids for the Digester MCC-2 Upgrade Project and received bids from the following contractors:

<u>Bidders</u>	<u>Bid Price</u>
1. Blocka Construction, Inc. (Pleasanton)	\$1,018,000*
2. Anvil Builders (Emeryville)	\$2,295,000

\* - *Apparent low bidder.*

The engineer’s estimate of construction cost is \$1,000,000. Staff has evaluated the bids and found that Blocka Construction is a responsive and responsible bidder.

The project provides for the replacement of existing motor control center designated as MCC-2 and related power distribution equipment in the Digester Room. The new MCC-2 will be installed in the Shop Building adjacent to the Digester Room per plans and specifications prepared by Hazen and Sawyer to comply with the latest National Fire Protection Association requirements for a hazardous location classification.

The bid price is consistent with the current CIP project budget allocation for FY 2023-24.

## PREVIOUS BOARD ACTION

N/A

## ENVIRONMENTAL REVIEW

N/A

## FISCAL IMPACT

\$1,018,000



Item Number \_\_\_\_\_ 3J \_\_\_\_\_

GM Review \_\_\_\_\_ CP \_\_\_\_\_

# Agenda Summary Report

**To:** Board of Directors  
**From:** Michael P. Cortez, PE, District Engineer  
 (415) 526-1518; [mcortez@lqvsd.org](mailto:mcortez@lqvsd.org)  
**Mtg. Date:** August 17, 2023  
**Re:** Approve Kennedy Jenks Contract Amendment 2 for Additional Construction Management and Inspection Services for the STPURWE Project  
**Item Type:** Consent  Action  Information  Other   
**Standard Contract:** Yes  X No  (See attached) Not Applicable

## STAFF RECOMMENDATION

Board to approve Contract Amendment 2 with Kennedy Jenks (KJ) for additional construction management (CM) and inspection services for the Secondary Treatment Plant Upgrade and Recycled Water Expansion (STPURWE) project in the amount of \$68,056.

## BACKGROUND

The target filing of Notice of Completion for the STPURWE project has been extended to address unresolved Potential Change Orders (PCOs) with Myers & Sons Construction, LLC and outstanding issues with H2O Innovations. KJ has submitted a budget increase request in the amount of \$68,056 to cover services until the end of September 2023. This is in addition to previous Contract Amendment 1 for services between October 2022 and February 2023.

District staff discussed the need of extending KJ's CM and inspection services with the Engineering Subcommittee on August 3, 2023. Staff reviewed the scope of work and fee estimate and deemed the proposal reasonable.

## PREVIOUS BOARD ACTION

- On July 17, 2019, the Board awarded a contract to KJ for CM and Inspection Services for the STPURWE project, terminated contract with MWHC for CM and Inspection Services, and authorized the General Manager to execute both the contract and Notice of Termination.
- On January 19, 2023, the Board approved Contract Amendment 1 with KJ for additional CM and inspection services for the STPURWE project in the amount of \$259,063.

## ENVIRONMENTAL REVIEW

N/A

## FISCAL IMPACT

\$68,056, funding source will be from the uncommitted remaining STPURWE budget.

2 August 2023

Mike Cortez  
District Engineer  
Las Gallinas Valley Sanitary District  
300 Smith Ranch Road  
San Rafael, CA 94903

Subject: Request for Budget Amendment Number 2; Job Number No. 12600-07 and 16650-02  
CM / Inspection Services – Secondary Treatment Upgrade and Recycled Water Expansion Project  
K/J Project Number 1998013\*00  
District Purchase Order No. 19614

Dear Mr. Cortez:

Due to the time extension of the Las Gallinas Valley Sanitary District Secondary Treatment Upgrade and Recycled Water Expansion Project Kennedy/Jenks Consultants (Kennedy/Jenks) is currently over the original budget and Budget Amendment Number R1 for the construction management / inspection services on the project by \$17,436 through 7/31/2023.

The original project duration showed a completion date of December 2021. Kennedy Jenks was able to incorporate the original fee of \$3,715,820 beyond the December 2021 date through October 2022. Budget Amendment Number R1 of \$259,063 was issued in January 2023 to capture the proposed costs through March 3, 2023. Kennedy Jenks was able to incorporate the budget amendment through June 2023.

The current construction completion date is anticipated to be at the end of September 2023 with the conclusion of the work on the biowheels. For budgeting purposes the average monthly invoicing rate for the budget amendment R1 has been approximately \$32,383. Kennedy/Jenks anticipates the average monthly workload to decrease for the next three months and is respectfully requesting a budget amendment Number 2 of \$68,056 to cover the current overage of -\$17,436 and to capture the proposed costs through October 6, 2023.

Please do not hesitate to contact me with any questions on the Budget Amendment Request Number 2 for Construction Management / Inspection Services for the Las Gallinas Valley Sanitary District Secondary Treatment Upgrade and Recycled Water Expansion Project.

Very truly yours,

KENNEDY/JENKS CONSULTANTS



Tom Gorman  
Senior Construction Manager / Project Manager

Las Gallinas VSD  
Secondary Treatment Plant Upgrade

K/J Fee Proposal - Budget Amendment Request Number 2

8/2/23

Construction Management Services		2022													Total Hours	Total Price
Project Staffing Plan		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec			
Months	Billing Rate															
Work Days Per Month		20	19	21	22	22	20	22	22	20	22	19	20			
<b>K/J Team Staffing</b>																
Construction Manager	Tom Gorman	\$ 240	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
PM/QA	Ron Esmilla	\$ 250	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
Resident Engineer	Justin Harrison	\$ 210	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
Inspector	Marcell Argumedo	\$ 195	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
EI&C Inspector	Phil Saunders	\$ 195	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
Doc Management	Araceli Aquilar	\$ 95	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
<b>Total K/J Team Staff</b>																<b>\$ -</b>
Subconsultants and expenses (Notes 1-8)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ -
Total by Year																<b>0 \$</b>

Construction Management Services		2023													Total Hours	Total Price
Project Staffing Plan		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec			
Months	Billing Rate															
Work Days Per Month		20	19	21	22	22	20	22	22	20	22	19	20			
<b>K/J Team Staffing</b>																
Construction Manager	Tom Gorman	\$ 245	0	0	0	0	0	0	64	48	24	0	0	136	\$ 33,320	
PM/QA	Ron Esmilla	\$ 255	0	0	0	0	0	0	0	0	4	0	0	4	\$ 1,020	
Resident Engineer	Justin Harrison	\$ 215	0	0	0	0	0	0	16	8	8	0	0	32	\$ 6,880	
Inspector	Marcell Argumedo	\$ 200	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	
EI&C Inspector	Phil Saunders	\$ 200	0	0	0	0	0	0	16	16	0	0	0	32	\$ 6,400	
Doc Management	Araceli Aquilar	\$ 100	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	
<b>Total K/J Team Staff</b>															<b>\$ 47,620</b>	
Subconsultants and expenses (Notes 1-5)			\$0	\$0	\$0	\$0	\$0	\$17,436	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$ 20,436	
Total by Year															<b>204</b>	<b>\$ 68,056</b>

Total Recommended Amendment Budget Request \$ 68,056

Notes:

- 1) Materials testing and special inspection will be provided by consultants retained by the owner. KJ will provide management.
- 2) Inspection hourly rates are based on prevailing wage.
- 3) Expenses cover living cost for Inspectors Argumedo and Sanders and project vehicle cost for Gorman and Harrison.
- 4) Continue to use EADOC's electronic document management system. Note, the final costs for the usage and final document archives are not known or captured in this budget amendment.
- 5) District has retained EOR Aqua Engineering and will retain other consultants as necessary to perform standard ESDC functions.





Item Number 3K

GM Review CP

# Agenda Summary Report

**To:** Board of Directors  
**From:** Michael P. Cortez, PE, District Engineer  
 (415) 526-1518; [mcortez@lqvsd.org](mailto:mcortez@lqvsd.org)  
**Mtg. Date:** August 17, 2023  
**Re:** Application of Allocation of Capacity for APN 175-360-04  
 Pet Emergency & Specialty Center of Marin  
**Item Type:** Consent  Action  Information  Other   
**Standard Contract:** Yes  No  (See attached) Not Applicable

## STAFF RECOMMENDATION

Board to approve the issuance of a Will Serve Letter to Pet Emergency & Specialty Center of Marin located at 1 Thorndale Dr.

## BACKGROUND

The project consists of converting an existing office building to a pet clinic designated as Pet Emergency & Specialty Center of Marin. District staff has reviewed the plans, and based on the information provided, a Will Serve Letter has been drafted and a connection fee of \$53,170 has been assessed for the addition of 130 plumbing fixture units (PFUs). Furthermore, the Central Marin Sanitation Agency (CMSA) has reviewed the project and issued a waiver for industrial pre-treatment compliance requirements. The existing and proposed PFU will be field verified by a District-hired inspector. The connection fee will be adjusted for the actual number of additional plumbing fixture units if different from the submitted plan set.

The Will Serve Letter is contingent upon satisfaction of the conditional requirement to fulfill connection fee obligation before the District provides the final sign-off.

Potential Access Issues to Impacted Sewer Facilities: None; no improvements to the sewer main are proposed.

Additional Flow Contribution: The District Ordinance refers to one Equivalent Dwelling Unit (EDU) as a Single-Family Dwelling Unit that includes up to 20 PFUs. Assuming 200 gallons per day (gpd) per EDU, the flow contribution per PFU is approximately 10 gpd.

The estimated additional flow from the proposed project is approximately 1,300 gpd. It will have negligible impact to downstream sewer facilities. Staff is tracking additional flows from proposed residential and commercial developments and will be evaluating the combined effects as part of the overall collection system hydraulic analysis.

## PREVIOUS BOARD ACTION

N/A



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

Date: August 17, 2023

Property Owner(s): Rocco LLC

Property Owner Address: 2330 Marinship Way, Suite 125  
 Sausalito, CA 94965

Applicant: Erica Edgmon with SF Codes

Project Name: Pet Emergency & Specialty Center of Marin

Project Address: 1 Thorndale Dr  
 San Rafael, CA 94903

Project APN: APN 175-360-04

**Re: Will-Serve Letter**

You have requested a **Will-Serve Letter** from the Las Gallinas Valley Sanitary District (“LGVSD”) at the August 17, 2023 Board Meeting.

Subject to the terms and conditions in this letter, LGVSD will serve the project with additional 130 Plumbing Fixture Units (PFU). This letter may be used to submit to another local agency to satisfy a condition for either tentative subdivision map approval or any other permit approval.

**This letter is contingent upon the following:**

- 1) **Satisfaction of the conditional requirement to address any corrective actions in the sanitary sewer improvement components of the project and fulfill connection fee obligation before the District signing off on the final inspection.**
- 2) **Calculations the applicant’s design engineer has prepared indicating that the existing 4” sewer lateral is sufficient for the added PFUs. The applicant shall also verify that the existing 4” sewer lateral is sufficient to convey the total flows contributed by other tenants in the same building.**

The standard terms and conditions of approval are as follows:

Initial	Item	Condition of Approval
	1	Applicant shall pay for the facility capacity fee (new connection fee) in accordance with LGVSD ordinances and policies. Please note payment date obligation and amount obligation.
	2	Applicant agrees to abide by all conditions of approval of the Board of Directors and District staff.
	3	This Will-Serve approval terminates three (3) years from the Board meeting date unless all building permits have been issued for the project.
	4	Field verification before and after construction is required for this project. Applicant shall accommodate and coordinate with District hired third-party inspector.
	5	Prior to the connection of any sewer lateral, you must contact the District for the sewer lateral inspection permit and the application is available on District website. A lateral tie-in inspection is required before any lateral can be backfilled.

6	After the sewer lateral inspection is completed and the connections is verified, the project will be added to the sewer user charge and will receive a charge for this service annually.
7	Applicant shall reimburse the District for all plan review, field verification before and after construction, and inspection fees accrued associated with this project.

A complete summary of the project specific conditions of approval is included in the Board Meeting minutes.

The Connection Fee approved by the Board is as follows:

Connection Fee for 136 PFU at \$409/PFU:	\$ 55,624.00
Credit for 6 existing PFU at \$409/PFU:	<\$ 2,454.00>
Application Fee:	\$ 250.00 (paid)
Engineering Review and Inspection Fees:	\$ <u>TBD</u>
Total Fee:	\$ 53,420.00
<b>Outstanding Balance:</b>	<b>\$ 53,170.00</b>

The proposed PFU shall be subjected to field verification upon project completion. The connection fee may be adjusted for actual number of additional plumbing fixture units.

The District ordinance provides for payment of the Connection Fee over a two-year period according to the following:

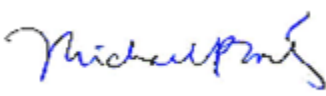
1. 10% of the Connection Fee is due within thirty days of Board approval of final plans and specifications;
2. 40% of the Connection Fee is due within one year, August 17, 2024; or upon the date of building permit issuance, whichever occurs first;
3. 50% of the Connection Fee is due within two years, August 17, 2025; or upon the date of building permit issuance, whichever occurs first;

Please remit **\$53,170** and make the check payable to Las Gallinas Valley Sanitary District. Please note if payment schedule as above is not followed, you risk losing your allocation.

By issuing this **Will-Serve Letter**, LGVSD is not incurring any liability of any nature, including but not limited to mandate, damages or injunctive relief. LGVSD is making no representation to the applicant nor waiving any rights it has under any applicable State or Federal law. In the event there is any court imposed moratorium on LGVSD, a connection to the District system may not occur. In the event any government agency imposes a moratorium on LGVSD, a connection to the District system may not occur. In the event there is not sufficient capacity, a connection to the District system may not occur.

If connection has not been made within three years, the allocation will be terminated without prejudice. Upon request, you will receive a refund of 90% of the above fees and you will be able to re-apply for an allocation at the fee rate then prevailing. Please sign and date the original of this letter and return it to the District office within 10 days. The copy is for your records.

Sincerely,



Michael P. Cortez, PE District Engineer

LGVSD Will Serve Letter  
Pet Emergency & Specialty Center of Marin  
1 Thorndale Dr

AGREED:

\_\_\_\_\_ Date: \_\_\_\_\_  
Project Applicant Signature

Cc: Dale McDonald, Administrative Services Manager

DRAFT

**ENVIRONMENTAL REVIEW**

N/A

**FISCAL IMPACT**

Connection Fee Revenue of \$53,170.



*Figure 1. Location Map*



Item Number \_\_\_\_\_ 3L \_\_\_\_\_

GM Review \_\_\_\_\_ CP \_\_\_\_\_

# Agenda Summary Report

**To:** Board of Directors  
**From:** Michael P. Cortez, PE, District Engineer  
 (415) 526-1518; [mcortez@lqvsd.org](mailto:mcortez@lqvsd.org)  
**Mtg. Date:** August 17, 2023  
**Re:** Application of Allocation of Capacity for APN 179-241-03  
 44 Circle Rd Single-Family Residence  
**Item Type:** Consent  Action \_\_\_\_\_ Information \_\_\_\_\_ Other \_\_\_\_\_  
**Standard Contract:** Yes \_\_\_\_\_ No \_\_\_\_\_ (See attached) Not Applicable

## STAFF RECOMMENDATION

Board to approve the issuance of a Will Serve Letter for the single-family residence (SFR) located at 44 Circle Rd.

## BACKGROUND

The existing home at 44 Circle Rd was demolished and the property owner is seeking sewer capacity allocation for construction of a new 5,135 square-foot SFR building with garage, carports, and storage buildings on the same parcel. The project will add 32 plumbing fixture units (PFUs) to the existing sewer allocation for a connection fee in the amount of \$13,088. Attached is a draft Will Serve Letter for Board approval.

Potential Access Issues to Impacted Sewer Facilities: None; no improvements to the sewer main are proposed.

Additional Flow Contribution: The project will have negligible impact to downstream sewer facilities. Staff is tracking additional flows from proposed residential and commercial developments and will be evaluating the combined effects as part of the overall collection system hydraulic analysis.

## PREVIOUS BOARD ACTION

N/A

## ENVIRONMENTAL REVIEW

N/A

## FISCAL IMPACT

Connection Fee Revenue of \$13,088.



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

Date: August 17, 2023

Property Owner(s): Advanced Building Solutions, Inc.

Property Owner Address: 855 Lakeville Street, Suite 200  
 Petaluma, CA 94952

Applicant: Chris Scerri with Advanced Building Solutions, Inc.

Project Name: 44 Circle Rd Single-Family Residence

Project Address: 44 Circle Rd  
 San Rafael, CA 94903

Project APN: APN 179-241-03

**Re: Will-Serve Letter**

You have requested a **Will-Serve Letter** from the Las Gallinas Valley Sanitary District (“LGVSD”) at the August 17, 2023 Board Meeting.

Subject to the terms and conditions in this letter, LGVSD will serve the single-family residential unit with additional 32 Plumbing Fixture Units (PFU). This letter may be used to submit to another local agency to satisfy a condition for either tentative subdivision map approval or any other permit approval.

**This letter is contingent upon satisfaction of the conditional requirement to address any corrective actions in the sanitary sewer improvement components of the project and fulfill connection fee obligation before the District signing off on the final inspection.**

The standard terms and conditions of approval are as follows:

Initial	Item	Condition of Approval
	1	Applicant shall pay for the facility capacity fee (new connection fee) in accordance with LGVSD ordinances and policies. Please note payment date obligation and amount obligation.
	2	Applicant agrees to abide by all conditions of approval of the Board of Directors and District staff.
	3	This Will-Serve approval terminates three (3) years from the Board meeting date unless all building permits have been issued for the project.
	4	Field verification before and after construction is required for this project. Applicant shall accommodate and coordinate with District hired third-party inspector.
	5	Prior to the connection of any sewer lateral, you must contact the District for the sewer lateral inspection permit and the application is available on District website. A lateral tie-in inspection is required before any lateral can be backfilled.
	6	After the sewer lateral inspection is completed and the connections is verified, the project will be added to the sewer user charge and will receive a charge for this service annually.
	7	Applicant shall reimburse the District for all plan review, field verification before and after construction, and inspection fees accrued associated with this project.

A complete summary of the project specific conditions of approval is included in the Board Meeting minutes.

The Connection Fee approved by the Board is as follows:

Connection Fee for 50 PFU at \$409/PFU:	\$ 20,450.00
Credit for 18 existing PFU at \$409/PFU:	<\$ 7,362.00>
Application Fee:	\$ 250.00 (paid)
Engineering Review and Inspection Fees:	\$ <u>TBD</u>
Total Fee:	\$ 13,338.00
<b>Outstanding Balance:</b>	<b>\$ 13,088.00</b>

The proposed PFU shall be subjected to field verification upon project completion. The connection fee may be adjusted for actual number of additional plumbing fixture units.

The District ordinance provides for payment of the Connection Fee over a two-year period according to the following:

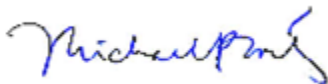
1. 10% of the Connection Fee is due within thirty days of Board approval of final plans and specifications;
2. 40% of the Connection Fee is due within one year, August 17, 2024; or upon the date of building permit issuance, whichever occurs first;
3. 50% of the Connection Fee is due within two years, August 17, 2025; or upon the date of building permit issuance, whichever occurs first;

Please remit **\$13,088** and make the check payable to Las Gallinas Valley Sanitary District. Please note if payment schedule as above is not followed, you risk losing your allocation.

By issuing this **Will-Serve Letter**, LGVSD is not incurring any liability of any nature, including but not limited to mandate, damages or injunctive relief. LGVSD is making no representation to the applicant nor waiving any rights it has under any applicable State or Federal law. In the event there is any court imposed moratorium on LGVSD, a connection to the District system may not occur. In the event any government agency imposes a moratorium on LGVSD, a connection to the District system may not occur. In the event there is not sufficient capacity, a connection to the District system may not occur.

If connection has not been made within three years, the allocation will be terminated without prejudice. Upon request, you will receive a refund of 90% of the above fees and you will be able to re-apply for an allocation at the fee rate then prevailing. Please sign and date the original of this letter and return it to the District office within 10 days. The copy is for your records.

Sincerely,



Michael P. Cortez, PE District Engineer

AGREED:

\_\_\_\_\_  
Project Applicant Signature

\_\_\_\_\_  
Date:

Cc: Dale McDonald, Administrative Services Manager






Item Number \_\_\_\_\_ 3M \_\_\_\_\_

GM Review \_\_\_\_\_ CP \_\_\_\_\_

# Agenda Summary Report

---

To: Board of Directors

From: Dale McDonald, Administrative Services Manager   
 (415) 526-1519 [dmcDonald@lqvsd.org](mailto:dmcDonald@lqvsd.org)

Meeting Date: August 17, 2023

Re: Resolution 2023-2315 Confirming the Report on Sewer Service Charges for the Las Gallinas Valley Sanitary District for the Fiscal Year 2023-24.

Item Type: Consent X Action \_\_\_\_\_ Information \_\_\_\_\_ Other \_\_\_\_\_.

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

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## STAFF RECOMMENDATION

Staff recommends that the Board adopt Resolution 2023-2315 confirming the final assessment report of Sewer Service Charges for Fiscal Year 2023-2024.

## BACKGROUND

As part of the regular process to place the Sewer Service Charges on the Tax Roll the District is required to take various formal actions by Resolution.

A written report containing a description of each parcel of real property receiving services and facilities from the District and the amount of service charge for each parcel for the Fiscal Year 2023-2024 was prepared. The full written report dated August 2, 2023 is on file at the District office.

On August 7, 2023, the District finalized the Special Assessment process by submitting a transmittal to the County of Marin authorizing the County Department of Finance to place the Sewer Service Charge assessment on the tax roll for Fiscal Year 2023-2024. A total of 9,684 parcels included in the report are to be charged. The total assessment to be charged is \$17,589,580.90.

Adoption of this resolution completes the formal process to place the Sewer Service Charges on the property tax roll for Fiscal Year 2023-2024 by notifying the public of action taken.

## PREVIOUS BOARD ACTION

On June 30, 2023, the Board approved Resolution No. 2023-2310 confirming the annual Sewer Service Charges and Supplemental Service Charges for fiscal years 2023-2024 through 2026-2027 and providing for the collection of Sewer Service Charges on the Tax Roll.

## ENVIRONMENTAL REVIEW

N/A

## FISCAL IMPACT

None

**RESOLUTION NO. 2023-2315**

**A RESOLUTION CONFIRMING THE FINAL ASSESSMENT  
REPORT OF SEWER SERVICE CHARGES  
FOR THE LAS GALLINAS VALLEY SANITARY DISTRICT  
FOR THE FISCAL YEAR 2023-2024**

**RESOLVED**, by the Sanitary Board of the Las Gallinas Valley Sanitary District, Marin County, California that:

**WHEREAS**, said Board did on May 8, 2023 adopt its Resolution No. 2023-2304, Fixing Time and Place for Public Hearing on Sewer Service Charge Rates for the Fiscal Years 2023-2024, 2024-2025, 2025-2026, and 2026-2027 and providing for notice thereof where said Board did appoint the time and place of hearing protests to said sewer service charge report and directed notice; and

**WHEREAS**, notice was given of the time therein stated in the manner provided by law as appears by the affidavit of publication on file in the office of the Secretary of said District; and

**WHEREAS**, said matter came on regularly for hearing at the time fixed; and

**WHEREAS**, all written protests and other written communications were publicly read at said meeting and all persons desiring to be heard were fully heard; and

**WHEREAS**, this Board did on June 30, 2023, pursuant to Health & Safety Code §5473, adopt its Resolution No. 2023-2310, Confirming the Annual Sewer Service Charge and Supplemental Service Charges for the Fiscal Years 2023-2024 Through 2026-2027 and Providing for the Collection of Sewer Service Charges on the Tax Roll, and did direct the preparation and filing of a written report containing a description of each parcel of real property receiving services and facilities from the District and the amount of service charge for each parcel for the fiscal year 2023-2024; and

**WHEREAS**, said written report was prepared and filed with the Treasurer of said District on or before August 10, 2023.

**NOW, THEREFORE, IT IS ORDERED** as follows:

1. That objections to and protests, as required by Health and Safety Code §5473.2, against said report were not made by the owners of a majority of the separate parcels or property described in the report against which charges for the services and facilities provided by the District were fixed.

2. That said report be, and it is hereby adopted in full without revision, change, reduction, or modification of any charge specified therein, and that said charges shall be collected on the tax roll of the County of Marin in the manner provided by law.

3. That the Treasurer of this District has filed with the County Auditor of Marin County, on or before August 10, 2023, a copy of said report, upon which shall be endorsed over his signature a statement that the report had been fully adopted by the Sanitary Board of the Las Gallinas Valley Sanitary District.

4. The County Auditor of Marin County shall, upon receipt of said report, enter the amounts of the charges against the respective lots or parcels as they appear on the current assessment roll for the fiscal year 2023-2024.

5. The County Auditor of Marin County shall, in addition to the annual sewer service charge, collect the County's collection fee of \$2 per parcel from each of the lots or parcels that appear on the current assessment roll for the fiscal year 2023-2024.

\* \* \* \* \*

I hereby certify that the forgoing 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 August 17, 2023, by the following vote of the members thereof:

AYES, and in the favor thereof, Members:

NOES, Members:

ABSENT, Members:

ABSTAIN, Members:

ATTEST:

\_\_\_\_\_  
Teresa L. Lerch, Board Secretary  
Las Gallinas Valley Sanitary District

APPROVED:

(SEAL)

\_\_\_\_\_  
Megan Clark, Board President  
Las Gallinas Valley Sanitary District



Item Number \_\_\_\_\_ 4.1 \_\_\_\_\_

GM Review \_\_\_\_\_ CP \_\_\_\_\_

# Agenda Summary Report

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To: Board of Directors  
From: Dale McDonald, Administrative Services Manager *M*  
(415) 526-1519 [dmcDonald@lqvsd.org](mailto:dmcDonald@lqvsd.org)  
Meeting Date: August 17, 2023  
Re: Marin Sanitary Service update and 2022 Annual Report

Item Type: Consent \_\_\_\_\_ Action \_\_\_\_\_ Information X Other \_\_\_\_\_  
Standard Contract: Yes \_\_\_\_\_ No X (See attached) Not Applicable \_\_\_\_\_

---

## STAFF RECOMMENDATION

Informational only.

## BACKGROUND

The Las Gallinas Valley Sanitary District (District) provides solid waste management services to residents within the unincorporated areas of the District through franchise agreement with Marin Sanitary Service, the District’s current solid-waste franchisee.

In addition to garbage, recycling, and compost services in northern Marin, Marin Sanitary Service plays a critical role in the District’s efforts to implement the statewide organic waste recycling and surplus food recovery program required by SB 1383 to reduce short-lived climate pollutants.

Justin Wilcock from Marin Sanitary Service will present an annual report on the state of Marin Sanitary Service.

The full 2022 Service Area Annual Report is attached and available on our District website at <https://www.lqvsd.org/wp-content/uploads/2022-Service-Area-Report.pdf>

The Marin Sanitary Service report covers the previous calendar year and serves as a foundation for upcoming discussions related to the franchise agreement. A staff report on the District’s compliance with SB 1383 enforcement requirements is tentatively scheduled for September. Refuse rate adjustments for 2024 will be considered and brought before the Board in December.

## PREVIOUS BOARD ACTION

N/A

## ENVIRONMENTAL REVIEW

N/A

## FISCAL IMPACT

N/A



*Marin Sanitary Service*  
CONSERVATION — OUR EARTH, OUR MISSION, OUR JOB

# 2022 SERVICE AREA ANNUAL REPORT

Marin Sanitary Service  
1050 Andersen Drive, San Rafael CA, 94901  
Tel 415-456-2601  
[www.marinsanitaryservice.com](http://www.marinsanitaryservice.com)

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## Summary

In 2022 Marin Sanitary Service's (MSS) primary focus was the implementation of SB 1383 and supporting jurisdictions with the adoption of ordinances and contract amendments. These changes reflect the company's new requirements around education and compliance with this monumental state law. The company had an aggressive public outreach campaign which included general messaging to residents, businesses, and multi-family properties. Messaging was provided in print, billing inserts, electronic and in-person. On route auditing in the community commenced in 2022 and led to discussions on local social media about why people were looking through containers. This concerned dialogue helped to spread information to the public and many community members joined the conversation with additional education and support for these new programs. The company remains confident in the current roll-out plan and was pleased to see CalRecycle work in better collaboration with haulers and jurisdictions to implement this law.

2022 was also a year of new innovation for the company with two new machines installed. The Tiger depackaging unit will help with SB 1383 compliance allowing grocery stores and food producers to recover organic material previously landfilled because of the difficulty of removing packaging. This will lead to an expansion of the Food 2 Energy (F2E) partnership with the Central Marin Sanitation Agency (CMSA) and increased energy production from recovered organic material. The company remains proud of its efforts to conserve valuable resources for the community. The second machine, a TOMRA optical sorter, will help ensure even cleaner bales of recycled paper further solidifying Marin Sanitary as a producer of valuable, recyclable materials. The company moves into its 75th year poised to continue as a community partner in resource conservation.

# Operational Improvement

## OPERATIONAL EFFICIENCY

MSS continues to focus on ensuring routes are optimized for efficiency. This is accomplished with the route auditor and routing software reviewed by the routing manager and program development manager. Route efficiency requires regular review and updating to account for changing services, updated equipment, and personnel changes. One main focus of 2022 was continuing efforts to ensure organic routes can absorb increased customers and material anticipated with SB 1383. During 2022, 223 commercial customers added organic services generating an estimated 10 additional tons of material.

## ROUTING OPTIMIZATION

RouteSmart integrates with Softpak’s MobilePak routing software to develop and deliver optimized routes to the driver’s tablet. Through this program, MSS has been able to solve complex routing challenges while enhancing safety and improving efficiency.

**Table 1: Routes and Employee Breakdown**

<b>Collected Material</b>	<b># of Routes</b>	<b># of Employees</b>
Landfill	18	21
Recycling	18	18
Organics	10	10
Food Waste (F2E)	1	1
Totals	47	50

## ROUTING COLLECTION CHANGES

### Commercial Organics

RouteSmart allows users to develop route scenarios as service needs change. RouteSmart was used to develop new commercial organics routes accommodating for SB 1383 customer increases.

Approximately 350 commercial customers still need to add organic service and RouteSmart will aid in adding these additional organics customers to existing routes.





### **Commercial Recycling**

MSS added a fourth Commercial Recycle truck for two days a week service in 2022 to collect an increase of material expected from implementing SB 1383 regulations. This new truck also allows for a pure commercial recycling account which provides for better data integrity.

### **CART DELIVERY AND REMOVAL/INVENTORY MAINTENANCE**

All cart delivery and removal work orders are performed by dedicated cart route drivers. Delivery and removal work orders are added to the driver's tablet, and sequenced for optimal vehicle routing. The cart route driver works closely with the dispatcher to ensure all work orders are closed each day in preparation for running a container inventory report. Cart exchanges continued to be hindered by supply chain issues. The company is still working with vendors to deal with material and labor shortages. The specialized nature of MSS carts has impacted some vendor's ability to fulfill orders. The company continues to research alternatives to mitigate against future delays.

### **MOBILE APPLICATIONS**

MSS drivers utilize in-cab tablets to ensure accurate and efficient operations. The company uses Whip-Around software to track daily pre- and post-trip reports. This software helps ensure timely repairs to vehicles to keep them on the road. Accidents and damages are also reported through the tablet providing detailed and timely reporting.

Daily routing details are uploaded to the tablets providing drivers with real-time notes and information. This is particularly important when back-up drivers cover routes.

### **Route Productivity:**

During 2022, MSS restructured multiple routes to decrease overtime. The number of stops and cans serviced were balanced between routes to aid in efficiency. Additional factors considered included the driving conditions on the routes, truck types and other factors contributing to total route time improving the balance to achieve route parity. MSS aims to reduce unnecessary overtime whenever possible.

### Route Audits:

A route auditor rides along with route drivers to verify current services within MSS billing system match the service the customer is receiving. Driver notes and account descriptions are reviewed as tools for drivers to successfully complete service. The auditor also ensures each customer has appropriate service. When service levels require adjustments, recommendations are communicated to the customer via a customer service representative recommending an increase or decrease in service. Audits completed detail 64 customers who were identified having service discrepancies and 164 addresses did not have active service accounts. A service discrepancy occurs when there is a difference between the customer's account in MSS's system and the actual cart size, quantity, and commodity type at the service location. Customers were contacted to resolve the billing discrepancies in cart size/quantity or commodity. For those who could not be reached via telephone, a letter was mailed. Accounts that were found to not have active service were also mailed letters to initiate service. See *Table 2* for audit details, and *Table 3* for the results. Of the 164 with no active service, approximately 34% have called in to start service. Those who did not contact the company had carts removed to ensure no service is provided at that address.

**Table 2: Service Discrepancy Found in Route Audit**

<b>Row Labels</b>	<b>Count of Category of Issue</b>
Service Discrepancy - Less Service than pays for - smaller cart size	5
Service Discrepancy - More Service than covered for in service - larger cart size	59
<b>Grand Total</b>	<b>64</b>

**Table 3: Results from Service Discrepancy Found in Route Audit**

<b>Row Labels</b>	<b>Count of Result</b>
Added one time charge	2
Changed Cart Out for Correct Size	186
Corrected Service Screen	17
Customer did not respond changed rate	80
Customer has correct cart	16
Forward to CSR Resolve Distance	14
Removed Extra Cart	5
Customer called changed rate, kept cart	32
Changed Cart Out for Correct Commodity	118
<b>Grand Total</b>	<b>470</b>

### **Landfill Cart Potential Audits/Visual Audits**

In 2022, MSS completed visual waste audits. A visual waste audit is when the driver audits the landfill cart for material that potentially could be recycled. Visual waste audits are part of the monitoring process and help to identify waste types and volumes of divertible material in the landfill waste stream. Drivers perform visual waste audits of landfill containers for all commercial and multifamily dwelling customers to determine the percentage of divertible material. Drivers reported that out of all the commercial customers serviced approximately 10% have material that could be diverted from the landfill.

# Residential Services

## RESIDENTIAL SERVICE LEVELS

**Residential Customers: Comprehensive** hauling services **for one low rate**

**We're more than just the garbage company - we're your resource hauler, providing comprehensive recycling and landfill services in a basic bundled service package for one low cost.**

 <p><b>Dual Sort Recycling</b> Recycle bottles, cans and containers on the brown side and paper products on the blue side.</p>	+	 <p><b>Organics Yard /Food Waste</b> Recycle yard trimmings, kitchen scraps and food soiled paper in the green cart so they can be composted into a rich soil amendment.</p>	+	 <p><b>Garbage Hauling</b> Everything put in the garbage goes directly to landfill.</p>
---	---	---	---	--

**The more you recycle, the more you save.** See reverse side to learn how.

Visit [www.marinsanitaryservice.com](http://www.marinsanitaryservice.com) for guidelines on what is recyclable and compostable.

All residential customers are offered three services as part of the bundled rate. This includes a gray (landfill or garbage) cart, a dual sort split body recycling cart and a green organics cart. The bundled rate is based on the size of the landfill cart. At the end of 2022, there were 30,266 residential customers serviced by MSS. Duplexes and triplexes are considered residential customers. If a property manager pays the bill, the duplex or triplex is considered to be a single customer; therefore, the cart numbers will exceed the actual customer count. Not all customers have recycling carts and many customers have multiple organics carts. *Tables 4, 5 and 6* show the residential cart subscription levels for year end 2022 compared to year end 2021. These numbers are only for MSS supplied tipper carts and do not reflect customer owned cans or bags that contain extra garbage, yard waste and/or recycling. During 2022, 8,810 extra garbage, yard waste and/or recycling bags were collected, this was a 64% increase from 2021. In 2021, 5,351 extra garbage, yard waste and/or recycling bags were collected.

**Table 4: Residential “Landfill” Cart Service Subscriptions**

Residential Weekly Landfill Service						
Cart Size	2019	2020	2021	2022	% Change	% of Total
20 gallon	6074	6,053	6,070	6,167	1.57%	19%
32 gallon	18,257	18,093	17,857	17,553	-1.73%	54%
64 gallon	5,420	5,888	6,098	6,088	-0.16%	19%
96 gallon	545	626	648	636	-1.89%	2%
<b>Total</b>	<b>30,296</b>	<b>30,660</b>	<b>30,673</b>	<b>32,466</b>	<b>5.52%</b>	

**Table 5: Residential Recycling and Organics Cart Service Subscription**

Residential Weekly Dual Sort Recycling Service						
Number of Carts						
CART size	2019	2020	2021	2022	% Change	% of Total
5 gallon bucket*	647	578	506	460	-10%	1%
32 gallon**	4	16	23	17	-35%	0%
64 gallon	28,555	27,384	26,910	26,291	-2%	86%
96 gallon	1,882	2,781	3,467	3,977	13%	13%
<b>Total</b>	<b>31,088</b>	<b>31,088</b>	<b>30,906</b>	<b>30,745</b>	<b>-0.52%</b>	

**Table 6: Residential Recycling and Organics Cart Service Subscription**

Residential Weekly Green Waste Service						
Number of Carts						
CART size	2019	2020	2021	2022	% Change	% of Total
35 gallon	1,859	1,971	2,216	2,298	4%	6%
64 gallon	29,297	33,471	33,678	33,449	-1%	93%
96 gallon***	29	26	31	29	-7%	0.1%
<b>Total</b>	<b>31,185</b>	<b>31,185</b>	<b>35,925</b>	<b>35,776</b>	<b>-0.42%</b>	

\*Use of 5 gallon bucket is being phased out.

\*\*Only offered in duplexes or triplexes where each tenant pays their own bill.

\*\*\*Only available at duplexes and triplexes with shared service and are being phased out.

### Scheduled Curbside Clean-up Program:

This program offers all residential customers the opportunity to set out additional recycling, yard waste and landfill waste twice per year for the removal of excess materials. Each customer is mailed a flyer in their bill alerting them to their specific scheduled clean-up dates for spring and fall. Information is also located on the MSS website under the residential clean-ups tab.

### Bulky Items:

Bulky items like mattresses, appliances, and furniture are not collected during curbside clean-ups. These collections must be scheduled separately. Residential customers are allocated 2, scheduled bulky item collections of up to 2 items each time at no extra charge.

**Table 7: Program Statistics**

	2020	2021	2022
Scheduled Clean- Ups (total tons)	219	301	229
Bulky Items (total tons)	129	187	116
Illegal Dumping (total tons)	6	36	24
Tons Recycled	433	267	184
Bulky Items Collected (number of items)	4789	5,160	4,774

Figure 1: Sample Mailer

## FALL 2022 CURBSIDE CLEAN-UP

# OCT 31 - NOV 4

## NOT ACCEPTED DURING CURBSIDE CLEAN-UP

City of San Rafael billing cycle R2.  
See [www.marinsanitaryservice.com](http://www.marinsanitaryservice.com) for  
instructions on locating your billing cycle.

### INSTRUCTIONS

- Place up to 14 bags or cans at the curb for your normal collection day
- Bags/cans must be 32 gallons or smaller
- 60 pound weight limit per container
- No loose garbage or items
- Bags/cans must be at the curbside



landfill



recyclables



yard waste

See reverse for items not accepted.

### PREPARE FOR WINTER



This is the perfect opportunity to clear your property of extra yard waste!

Curbside Clean-up service is proudly offered to you by:



CONSERVATION — OUR HEALTH, OUR MISSION, OUR JOB



THE CITY WITH A MISSION

A090822\_MAGSMASR2\_CU\_RES\_OCT22



NO loose clothes



NO loose garbage



NO bulky items  
*\*see below*



NO household hazardous waste  
Visit [www.marinhhw.com](http://www.marinhhw.com) for information about proper disposal of these items.

### BULKY ITEM DISPOSAL

Bulky items such as couches, appliances, mattresses and other large items will not be collected on your Curbside Clean-up day. Call us at (415) 456-2601 to schedule a bulky item pick-up. Special handling fees may apply.



## MARIN SANITARY SERVICE

Customer Service: (415) 456-2601  
[www.marinsanitaryservice.com](http://www.marinsanitaryservice.com)

## Commercial and Multifamily Services

### COMMERCIAL BUSINESS SERVICE LEVELS

Commercial businesses are offered recycling services as part of a bundled rate. Two organics programs are offered to all commercial customers. Food 2 Energy (F2E) for businesses with pre-consumer food waste and commercial organics for all others. Since there is a wide variety of container types, sizes and collection frequency, the data in *Table 8* is reported based on overall weekly yardage of service. Commercial business customers are offered the following container types and services for landfill/garbage materials.

- 32, 64, and 96 gallon MSS tipper carts.
- 1, 2, 3, 4, 5, and 6 cubic yard bins.
- 10, 18, 20, 25 cubic yard roll-off boxes.
- Compactors: sizes range from 3 cubic yards to 40 cubic yards.

Recycling and organics services are primarily offered for collection in carts. Cardboard and organic materials may be collected in bins. The following container types and sizes are available for commercial customers.

- 32, 64, and 96 gallon blue carts for paper recycling.
- 32, and 64 gallon brown carts for containers recycling (plastic, glass, metal bottles & cans).
- 32 and 64 gallon organics (green) carts for composting.
- 32 and 64 gallon food waste (dark) carts for F2E.
- 1, 2, and 3 cubic yard bins for cardboard recycling.
- 2 and 3 cubic yard bins for food waste for commercial compost.

Volume has slightly decreased for landfill material and minimally increased for recycling material (*Table 8*). There was a 10.81% increase in organic volume due to efforts in increased services offered along with outreach and education to encourage SB 1383 compliance.



**Table 8: Commercial Weekly Service in Cubic Yards**

SERVICE IN YARDS	2020	2021	2022	% Change
LANDFILL	7,869	8,188	8,045	-1.75%
RECYCLING	4,678	5,354	5,368	0.26%
ORGANICS (YW + FW)	779	805	892	10.81%
<b>Total</b>	<b>13,326</b>	<b>14,347</b>	<b>14,305</b>	<b>-0.29%</b>

### MULTIFAMILY DWELLING SERVICE LEVELS

Multifamily Dwellings (MFDs) are offered recycling and organics services as part of a bundled rate. In addition, after attending a workshop, MFD tenants receive kitchen pails for the collection of compostable materials inside their home. Since there is a wide variety of container types, sizes and collection frequencies, the data in *Table 9* is reported based on overall weekly service yards. MFD customers are offered the following container types and services for landfill/garbage materials.

- 32, 64, and 96 gallon MSS tipper carts.
- 1, 2, 3, 4, 5, and 6 cubic yard bins.
- 10, 18, 20, 25 cubic yard roll-off boxes.
- Compactors: sizes range from 3 cubic yards to 40 cubic yards.

The following container types and sizes are available for MFD customers.

- 32, 64, and 96 gallon blue carts for paper recycling.
- 32 and 64 gallon brown carts for containers recycling (plastic, glass, metal bottles & cans).
- 32 and 64 gallon organics green carts for composting.
- 1, 2, and 3 cubic yard bins for cardboard recycling.
- 2 and 3 cubic yard bins organics bins for composting.

**Table 9: Multifamily Weekly Services for Landfill (Garbage), Recycling and Organics.**

SERVICE IN YARDS	2020	2021	2022	% Change
LANDFILL	3,805	3,766	3,851	2.26%
RECYCLING	1,924	1,998	2,035	1.85%
ORGANICS (YW + FW)	452	481	563	17.05%

## Compliance with State Laws

### COMPLIANCE WITH STATE LAWS

#### Mandatory Commercial Recycling (AB 341)

Table 10 and 11 show current compliance numbers for AB 341.

**Table 10: Commercial Business Compliance with AB 341 (4+ CY per week of landfill service must recycle)**

AB 341 - 2022								
Commercial Businesses	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total
<b>Grand Total</b>	278	20	17	4	54	24	12	409
<b>Not Compliant</b>	3	0	0	0	0	0	0	3
<b>Compliant</b>	275	20	17	4	54	24	12	406
<b>% Compliance</b>	99%	100%	100%	100%	100%	100%	100%	99%

**Table 11: Multifamily Dwelling (5+ units) Compliance with AB 341**

AB 341 - 2022								
Multifamily	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total
<b>Covered MFD's</b>	369	29	7	N/A	151	69	23	648
<b>Not compliant</b>	8	0	0		0	0	0	8
<b>Compliant</b>	361	29	7		151	69	23	640
<b>% Compliant</b>	98%	100%	100%		100%	100%	100%	99%

## Mandatory Commercial Organics Recycling (AB 1826)

AB 1826 has now been eclipsed by SB 1383 as they both require mandatory organics service. However, in the transition to SB 1383 CalRecycle has continued to request an accounting of AB 1826 requirements. Current compliance rates are reported in *Table 12* and *Table 13*.

**Table 12: Commercial Business Compliance with AB 1826 at Year End 2022**

AB 1826 - 2022								
Commercial	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total
Covered	542	45	27	10	79	62	49	814
Exempt	253	6	5	4	39	26	6	339
Compliant	181	37	22	5	30	33	43	351
Not Compliant	108	2		1	10	3		124
% Compliance	80%	96%	100%	90%	87%	95%	100%	85%

**Table 13: Multifamily (MFD) Compliance with AB 1826 at Year End 2022**

AB 1826 - 2022									
Multi Family	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total	
Covered	323	22	7	N/A	129	50	20	551	
Exempt	3								3
Compliant	254	22	7			73	50	20	426
Not Compliant	66					56			122
% Compliance	80%	100%	100%			57%	100%	100%	78%

## Short-lived Climate Pollutants (SLCP): Organic Waste Reductions (SB 1383)

### Operations

MSS anticipated adding 4 days a week of commercial organics service. While the outreach team was successful in adding over 200 new organics services, the route has not grown to the full 4-day per week route. As more accounts are added, additional days are available within our current routing, truck and driver capacities.

On the processing side, the company has sufficient capacity through Redwood landfill with Napa Recycling as a back up to process organic material for composting. In an effort to increase participation in the F2E program to help ensure sufficient capacity for compostable materials, MSS purchased the depackaging unit to process the F2E materials collected. This equipment allows customers to bag their food waste in clear plastic bags to help ensure more participation in the program. In addition, the equipment processes spoiled/expired packaged food, helping ensure the organic materials, previously non-recoverable, are included in the material sent to Central Marin Sanitation Agency to be digested and create clean, renewable energy.

### Outreach

The community outreach department and communications continued to alert all customers, residential, commercial, and multifamily, to the SB 1383. All customers were mailed an insert with their bill at the beginning of the year and social media messaging included information on SB 1383. In addition both Spring and Fall newsletters discussed SB 1383 and keeping organics out of the landfill. All non-compliant businesses and multi-family dwellings were visited by our outreach staff.

In January of 2022 there were over 700 non-compliant customers, and MSS has worked diligently reducing the total non-compliant number to 320. The company continues to work with these remaining customers to bring them to full compliance or verify they are exempt from the requirements.

# MSS FALL UPDATE

SERVING CENTRAL MARIN COUNTY SINCE 1948

SEPTEMBER 2022

## ORGANICS: FROM YOUR KITCHEN TO MARIN FARMS

*Your food scraps and yard waste are used to grow food and nourish local soil.*



### FROM YOUR KITCHEN

**Food scraps & yard waste are collected separately from other waste**

California law (SB 1383) requires that every home, apartment complex, and commercial business collect their food waste, yard waste, and paper separately from all other waste. Make this easy for your household by collecting your food scraps in a kitchen compost pail or bowl and frequently emptying it into your green compostables cart.



### TO THE CURB

**MSS collects and transports your organic material**

All your compostables — food waste, yard waste, and food-soiled paper — should go in your green cart for curbside collection by MSS. Thank you for making sure that only accepted organic material is placed in your green cart!



**ACCEPTED ORGANIC MATERIAL**  
food, food-soiled paper, yard waste, small branches (under 4ft long & 3in diameter)



**NOT ACCEPTED**  
compostable or bio-degradable plastics of any kind, palm/bamboo, oils, grease, liquids



### TO THE COMPOSTING FACILITY

**Organic material is aerobically composted**

Rather than going to a landfill to decay into methane gas, MSS delivers your organics to Redwood Landfill's Covered Aerobic Static Pile (CASP) composting facility where it is composted following the US Composting Council's Testing Assurance protocol.



### INTO FARMER'S SOIL

**Certified organic compost is available for farming**

The state-of-the-art CASP facility at the Redwood Landfill produces WM EarthCare™ Homegrown Compost which is approved for organic farming by the Organic Materials Review Institute (OMRI) and is a California Department of Food and Agriculture certified Organic Input Material. Compost derived from your food scraps, food-soiled paper, and yard waste is used by local farmers and ranchers.

### YOUR COMPOST AT WORK AT A MARIN COUNTY RANCH

Find out how **Straus Home Ranch** uses WM EarthCare Homegrown Compost to ensure a steady supply of naturally grown grass for their dairy cows.



### WHY COMPOSTABLE OR BIO-PLASTICS CANNOT GO IN YOUR GREEN CART

We cannot accept any plastics labeled as compostable or bio-degradable. If we did, the quality compost WM EarthCare produces would lose its organic farming certification. Their compost is certified by the Organic Materials Review Institute (OMRI). OMRI doesn't allow compostable or bio-degradable plastics as many are actually petroleum based and just break down into micro plastics. Others don't break down rapidly enough and it is hard to differentiate between compostable and non-compostable plastics.

**Please put your compostable plastics or bio-degradable items in your garbage cart.**



### SB 1383 Compliance

Per the ordinances passed by all jurisdictions, all commercial and multi-family properties are required to have service or receive a de minimis waiver if they produce less than 20-gallons of organics a week. MSS provides the monitoring requirements for the jurisdictions. This includes visits to commercial and multi-family properties to look in all containers and verify proper usage ensuring there are no organics in the landfill containers. MSS drivers report which customers are “contaminating” the landfill containers with organics. There are not currently any contamination charges in place for organics in the landfill cart, but this can be addressed in the future. Residential customers will also be monitored with the MSS route auditor reviewing a sample of each route to determine if organics are in landfill carts. In all cases, when organics are discovered, a cart tag and follow up notification will be sent to each home or business. Customers will have an opportunity to correct the contamination and MSS will do a follow up inspection to confirm they have started removing organics from the landfill container.

**Table 14: SB 1383 Multi-family Dwelling Account Compliance for 2022**

SB 1383 - 2022								
Multi family	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total
Subject to Compliance Review	322	22	7	N/A	129	50	20	550
Compliant	254	22	7		73	50	20	426
Not Compliant	68	0	0		56	0	0	124
% Compliance	79%	100%	100%		56%	100%	100%	77%

**Table 15: SB 1383 Commercial Account Compliance for 2022**

SB 1383 - 2022								
Commercial	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total
Subject to Compliance Review	784	51	32	13	117	86	55	1138
Waivers	192	8	5	1	35	9	6	256
Compliant	430	42	27	9	69	59	49	685
Not Compliant	162	1	0	3	13	18	0	197
% Compliance	79%	98%	100%	77%	89%	79%	100%	83%



### Route Audits

SB 1383 regulations require that jurisdictions conduct education and outreach on organics recycling to all residents, businesses (including those that could donate edible food) haulers, solid waste facilities, and local food banks and other food recovery organizations. During route audits, MSS's route auditor also conducting the SB 1383 route reviews by random selection. SB1383 route reviews are defined as a visual inspection of containers along a route for the purpose of determining container contamination and or proper sorting of material. If contaminates are found, the route auditor takes a picture of the material and mails a letter to the customer for educational purposes. During 2022, 1,356 route reviews were conducted, 403 containers were found with prohibited contaminates (30%).

**Table 16: SB1383 Tracking Total 2022**

<b>Sb1383 Tracking Totals 2022</b>		
<b>Stream</b>	<b>No Prohibited Contaminants</b>	<b>Prohibited Contaminants</b>
<b>Cardboard Recycling</b>	80	11
<b>Containers Recycling</b>	50	51
<b>Food Waste</b>	20	3
<b>Landfill</b>	281	169
<b>Mixed Organics</b>	252	32
<b>Mixed Recycling</b>	197	122
<b>Paper Recycling</b>	73	18
<b>Totals</b>	953	403



# Diversion, Recycling, and Global Impacts of State Mandates

## DIVERSION RATES

AB 939 (Sher) requires cities and counties in California to divert 50% of solid waste delivered to landfills. The primary calculation method for diversion rates are based on three (3) factors: 1) Total Solid Waste Generation, 2) Total Landfill Disposal, and 3) Total Diversion from Landfill. This can also be expressed algebraically “Waste Generation = Total Landfill + Total Diversion”. *Table 17* highlights the various activities that contribute and/or impede progress toward the current and future diversion mandates.

**Table 17: State Diversion Goal: AB 939 (1989)**

<b>AB 939 State Goal: 50 Percent Diversion from the Landfill (Jurisdictional Mandate)</b>	
<b>Activities that Count Toward Goal</b>	<p><b><i>Diversion:</i></b>                      Source Reduction                      Composting                      Recycling                      ADC                      AIC                      Other Beneficial Reuse                      Transformation Credit</p>
<b>Activities that Do Not Count Toward Goal</b>	<p><b><i>Disposal:</i></b>                      Landfill (Including Exports)                      Some Transformation                      Engineered Municipal Solid Waste (EMSW)                      Green Waste ADC (Beginning in 2020)</p>

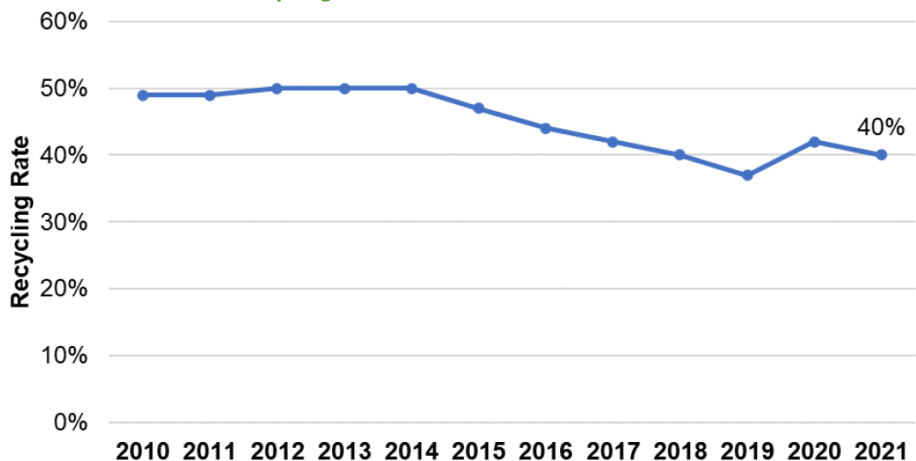
Tonnage reported from residential and commercial self-hauling, construction and demolition debris box rentals, and a host of other non-franchised programs within the County are reflected in the Jurisdictional diversion rate that is reported by MSS to the Marin Hazardous and Solid Waste Joint Powers Authority (JPA), who in turn reports this tonnage information to the State of California.

## RECYCLING RATES

In 2020, CalRecycle began collecting data through the Recycling and Disposal Reporting System (RDRS). This provides data direct to CalRecycle from various parties including haulers and recycling facilities. Progress is monitored by CalRecycle and continues to be supported through research and reporting.

CalRecycle adopted AB 341 (Chesbro) which strived to reach a goal of a 75% recycling rate by 2020. This goal was not achieved, with the most recent recycling rate reported being 40% as characterized below in *Figure 2*. This rate is a decrease from the 2020 rate of 42%, and is far from the goal of 75%. The state continues to move forward toward this ambitious rate through implementation and improvement of current programs including the Beverage Container Recycling program, CARE program for recycling carpet and mattress recycling programs.

**Figure 2: California Statewide Recycling Rate since 2010.**



California Department of Resources Recycling and Recovery. *State of Disposal and Recycling Report*. Retrieved March 14, 2023, from <https://calrecycle.ca.gov/reports/stateof/>

## Summary of MSS Recycling Efforts Over the Years

In 2022 recycling markets performed well. Shipping continues to be a factor, but has improved over previous year’s disruptions due to the pandemic. Paper, aluminum, and glass remained valuable and have helped ensure solid markets for recyclables overall.

**Table 18: Commodity Price Changes Average Price Per Ton**

Commodity	2020	2021	2022	% Change from 2021 to 2022
Cardboard	\$ 131.69	\$ 184.09	\$ 143.33	-22%
News Paper	\$ 85.23	\$ 139.90	\$ 167.87	20%
Office Paper	\$ 172.55	\$ 211.72	\$ 278.58	32%
Mixed Paper	\$ 41.67	\$ 94.00	\$ 109.23	16%
Aluminum Cans	\$ 812.00	\$ 1,329.00	\$ 1,628.48	23%
Glass	\$ 27.00	\$ 29.55	\$ 40.00	35%
HDPE # 2 natural (jugs)	\$ 893.00	\$ 1,375.00	\$ 937.65	-32%
HDPE # 2 colors (jugs)	\$ 154.00	\$ 683.00	\$ 288.52	-58%
PET # 1 (bottles)	\$ 104.00	\$ 361.00	\$ 383.98	6%
*Mixed Rigid Plastics (#3-7)	\$ 39.00	\$ 60.00	N/A	N/A

\*No material was sold in 2022

## MSS CONTAMINATION MITIGATION EFFORTS

### Operational Improvements

In 2022, MSS acquired two new recycling trucks. These new trucks have some customized improvements that will further ensure the split cart system works properly. The company has four additional recycling trucks of this style on order for 2023.

The Marin Recycling Center (MRC) procured a new optical sorter in 2022 which was install in January of 2023. This new technology is designed to help clean out colored paper and contaminants from the white paper recycling bales. This will ensure even cleaner bales of material.

Drivers continue to monitor for contamination. While the automated truck limits a driver’s ability to see the contamination the company is adding cameras to all trucks. These systems allow the driver to see the material enter the truck and can flag contamination. Currently ten trucks have full camera systems installed with all trucks planned for installation.

**MARIN SANITARY SERVICE**

**6 TIPS TO RECYCLE RIGHT**



- 1. KEEP YOUR RECYCLING LOOSE and never put items in plastic bags.
- 2. DO NOT MIX your paper recyclables with your glass, plastic and metal containers. See reverse.



- 3. REMOVE FOOD RESIDUE AND LIQUIDS from containers.

- 4. STACK LARGE PIECES OF CARDBOARD beside your cart in secured 2x2x2 ft. bundles.

- 5. ALL LIDS MUST CLOSE COMPLETELY. Remove bungee cords, ropes and weights prior to service.

- 6. DO NOT COMPACT MATERIAL in your cart.

**Marin Sanitary Service**  
 CONSERVATION — OUR EARTH, OUR MISSION, OUR JOB  
 (415) 456-2601 www.marinsanitaryservice.com

**WHAT SHOULD GO IN**

**SPLIT RECYCLING CART**

**CONTAINER RECYCLING (brown lid)**  
 BOTTLES, CANS & CONTAINERS



PLASTIC BOTTLES, JUGS & TUBS  
 GLASS BOTTLES & JARS  
 METAL CANS & CONTAINERS

**PAPER RECYCLING (blue lid)**  
 CLEAN PAPER PRODUCTS



NEWSPAPER & MIXED PAPER  
 UNWAXED CARDBOARD & PAPERBOARD



www.marinsanitaryservice.com

## Outreach Campaigns

Daily contamination lists are produced from driver notifications. These customers are called and the cause for contamination is discussed. The outreach team works with businesses and multi-family dwellings to provide tools and training to combat contamination. Repeat offenders are reviewed individually to determine the proper next steps including temporary removal from recycling or composting programs. Multi-family organics recycling seems to be the worst offenders with contamination. SB 1383 penalties for non-compliance will provide additional incentives for these companies to take responsibility for implementation of diversion programs.

Social media and the semi-annual newsletter are the best means for communicating contamination issues to customers on a large scale. Messaging is primarily focused on non-recyclable plastics.




**Marin Sanitary Service**  
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**RECYCLE RIGHT!**

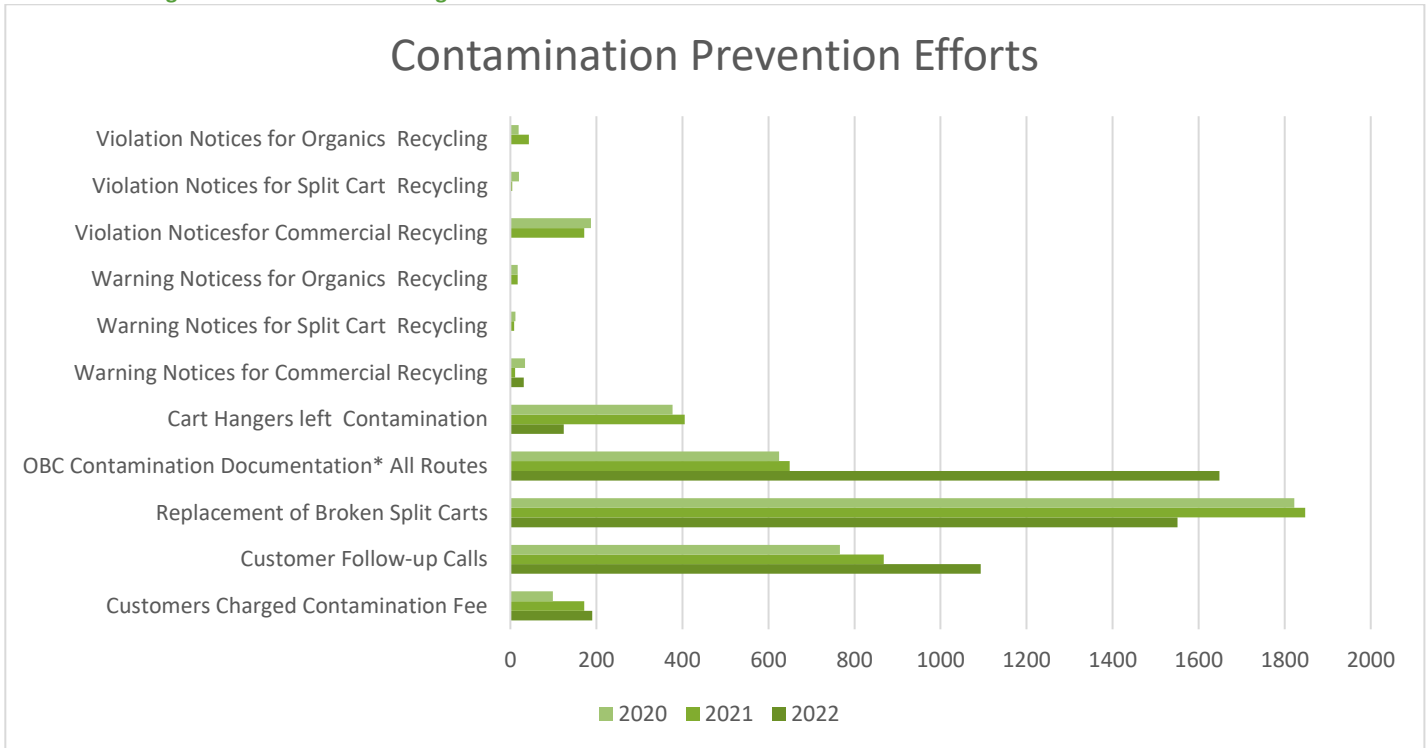


**Data Collection and Analysis**

During 2022 there was 4,639 (10% increase) of separate actions taken to try and minimize contamination (Figure 3). The residual rate stayed consistent from 2021 to 2022 at 15% (Figure 3).

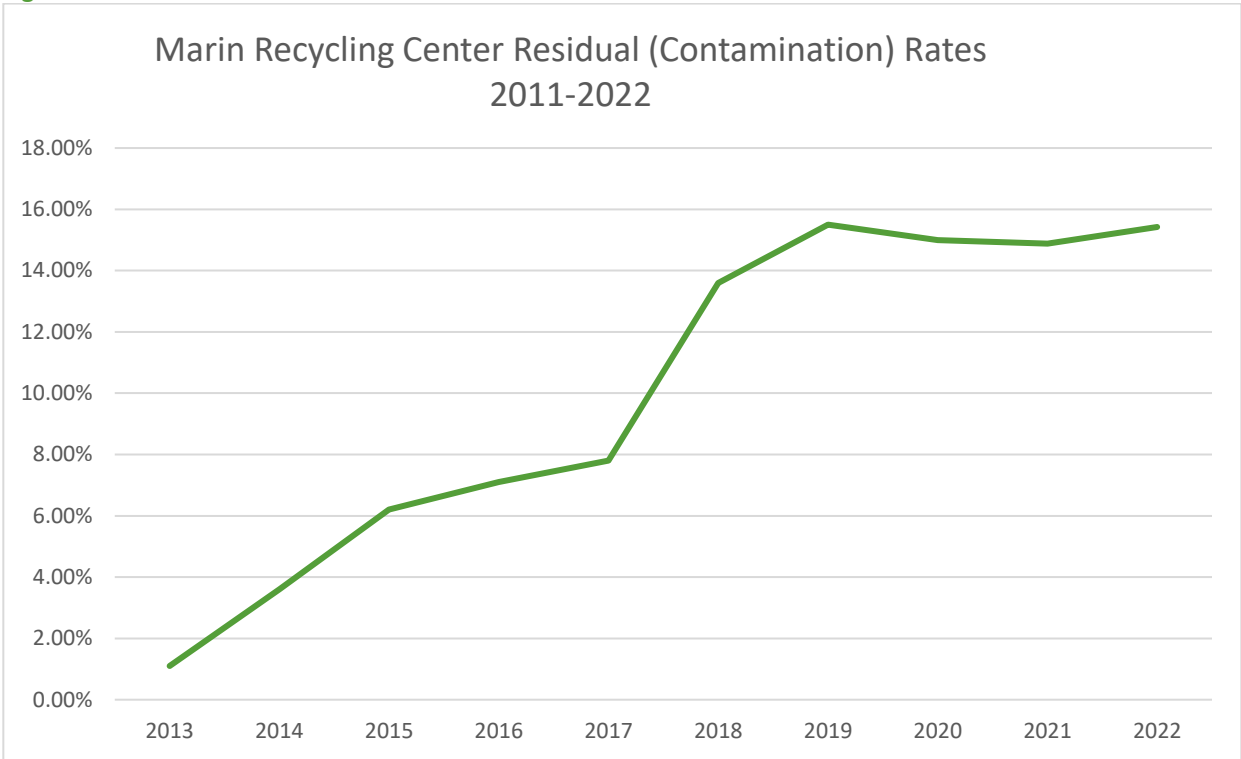


Figure 3: Contamination Mitigation Measures



\*OBC=On-board Computer documentation using tablets.

Figure 4: Historical Contamination Rates





# Recycling Rates (Weight and Volume Based)

## RECYCLING RATES BY WEIGHT AND BY VOLUME

Table 19 shows tonnage-based recycling rate. Of note is the curbside organic figure. With the addition of over 200 commercial organic accounts, it was estimated that this would generate an additional 10 tons of organic material, however, the organic material collected in 2022 actually declined. The volume of material collected is not the only factor impacting the tons of material collected. Weather plays the most significant part as dryer years would produce lighter materials and would lead to less yard waste collected. Fire fuel reduction efforts will also impact tonnages. Given that 2022 was a relatively light year for fire concern, residents may not have been as motivated to clean out debris. Also, the Marin Wildfire Prevention Authority (MWPA) has increased their collection of material through the chipper day events, which would mean less material in the green bin, even though the material is still being recovered.

Table 19: MSS SERVICE AREA DISPOSAL AND RECYCLING Rates (tons)

Weight Based Recycling Rates by Sector (tons)									
	Residential			Commercial/MF			Total		
	2020	2021	2022	2020	2021	2022	2020	2021	2022
<b>Tons Collected:</b>									
Curbside Organics (Food & Yard waste)	23,192	23,214	22,574	1,221	1,222	1,188	24,413	24,436	23,762
Curbside Containers Recycling	6,030	5,540	4,980	2,230	2,049	1,842	8,260	7,590	6,822
Curbside Fiber Recycling	6,184	5,627	5,162	2,287	2,081	1,909	8,471	7,709	7,071
Curbside Cardboard Recycling*	*N/A	*N/A	*N/A	5,784	6,809	4,117	5,784	6,809	4,117
Transfer Station	26,791	26,452	24,588	16,789	21,751	21,813	43,580	48,203	46,401
Commercial Food Waste (F2E)	*N/A	*N/A	*N/A	2,235	2,247	2,385	2,235	2,247	2,385
Commercial processed at MRRC	*N/A	*N/A	*N/A	8,132	5,562	5,008	8,132	5,562	5,008
<b>Total Tons Collected</b>	<b>62,197</b>	<b>60,834</b>	<b>57,304</b>	<b>38,678</b>	<b>41,721</b>	<b>38,262</b>	<b>100,874</b>	<b>102,555</b>	<b>95,567</b>
<b>Total Tons Diverted</b>	<b>35,406</b>	<b>34,382</b>	<b>32,716</b>	<b>19,205</b>	<b>17,912</b>	<b>15,067</b>	<b>54,611</b>	<b>52,294</b>	<b>47,783</b>
* Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential.									
<b>Recycling Rate</b>	<b>56.9%</b>	<b>56.5%</b>	<b>57.1%</b>	<b>49.7%</b>	<b>42.9%</b>	<b>39.4%</b>	<b>54.1%</b>	<b>51.0%</b>	<b>50.0%</b>

**Table 20: Landfill pounds per person per day**

	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>Landfilled (tons)</b>	46,264	50,261	47,783
<b>Tons disposed per Capita</b>	0.42	0.44	0.42
<b>Pounds per person per day disposal (PPD)</b>	2.28	2.42	2.29
<b>Population</b>	112,353	113,722	114,423

**Table 21 Volumetric Recycling Rates by Sector (Cubic Yards of Service)**

<b>Service Volume (Cubic Yards)</b>	<b>Residential</b>			<b>Commercial/MF</b>			<b>Total</b>		
	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>Organics</b>	10,958	11,069	11,009	1,224	1,287	1,455	12,182	12,356	12,463
<b>Curbside Recycle</b>	10,176	10,403	10,490	6,471	7,352	7,403	16,647	17,755	17,893
<b>Landfill</b>	5,639	5,683	5,653	11,504	11,954	12,021	17,143	17,637	17,674
<b>Recycling Volume</b>	79%	79%	79%	40%	42%	42%	63%	63%	63%

## Customer Service Data

### RESIDENTIAL AND COMMERCIAL/MULTIFAMILY NEW STARTS AND ACCOUNT CLOSURES FOR 2022

Table 22 details the number of new accounts and closed accounts by customer type.

Residential Service Guides are emailed or mailed out to all new customers explaining curbside collection services and programs and information pertaining to: debris box rental; document shredding; Marin Resource Recovery Center (MRRC) and Marin Household Hazardous Waste (HHW). Commercial and multifamily new customers receive information on MSS curbside collection services, mandatory recycling and organics laws/ordinances and Marin Household Hazardous Waste information. All residential, multifamily and commercial customers can also access information on our website.

**Table 22: New Starts and Account Closures by Customer Type**

<b>New Starts</b>	<b>Total</b>	<b>Closed Accounts</b>	<b>Totals</b>
Residential	2,075	Residential	2,100
Commercial Business	320	Commercial Business	151
Multifamily Dwellings	127	Multifamily Dwellings	19

### AUTOMATIC PAYMENT SERVICES

In an effort to conserve resources, MSS encourages customers to receive their bills electronically and to pay their bills online. MSS also offers automatic payments by credit card or electronic check for those customers who prefer not to use a web-based service (Table 23).

**Table 23: Automatic Payment Data 2022**

<b>Online Bill Pay</b>	<b>Totals</b>	<b>Automatic Payments non web-based</b>	<b>Totals</b>
Residential	12,439	Residential	2,970
Multifamily Dwellings	167	Multifamily Dwellings	248
Commercial Business	297	Commercial Business	291

## RESIDENTIAL AND COMMERCIAL/MULTIFAMILY CUSTOMER COMPLAINTS

In 2022, MSS received 77,123 calls compared to 66,980 in 2021. The majority of calls are service-related (start/stop service, cart exchanges, change of service), billing inquiries, or general education questions about collection and program information.

The total number of complaint calls are detailed in *Table 24*. The majority of calls were due to missed collections and broken containers. In most cases, the drivers were able to empty the missed containers on the same service day or the next business day. All broken containers were either repaired or replaced or placed on a wait list for future repair when carts become available due to supply shortages we have been experiencing with our vendors. In addition, MSS had 248 written (letter, email) compliments for staff in 2022, which is a 36% increase from 2021.

**Table 24: Complaints and Compliments by Type by Service Area**

Jurisdiction	Missed Collections			Broken Containers			Misc. Service Issues			Compliments		
	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022
<b>Consolidated County of Marin</b>	307	471	542	581	608	631	18	20	25	14	24	50
<b>San Rafael</b>	871	1,450	1,245	1,788	2,031	2,064	49	66	80	33	79	83
<b>Las Gallinas Valley Sanitary District</b>	247	325	290	554	534	634	7	9	9	13	14	25
<b>Ross</b>	77	92	129	74	115	113	6	1	6	2	5	4
<b>Larkspur</b>	176	257	308	334	262	350	11	13	23	8	12	26
<b>San Anselmo</b>	284	452	968	954	1,038	1,155	17	33	40	19	31	34
<b>Fairfax</b>	215	333	306	399	271	306	15	15	18	7	18	26
<b>MSS Service Area Totals</b>	<b>2,177</b>	<b>3,380</b>	<b>3,788</b>	<b>4,684</b>	<b>6,880</b>	<b>5,253</b>	<b>123</b>	<b>157</b>	<b>201</b>	<b>96</b>	<b>183</b>	<b>248</b>

## REPORTS OF INJURIES AND DAMAGE TO PROPERTY

Safety is a priority at MSS. Operations management meets regularly to review all accidents, damage and injuries. Outcomes from these meetings include making service or routing adjustments, issuing discipline, making adjustments to processes or programs and identify training needed. A safety committee including operations management, drivers, loss control and insurance carriers meets monthly and includes a facility inspection identifying and preempting any unsafe conditions. The committee also reviews the accidents, damages and injuries to discuss changes made. Documented employee safety meetings are held weekly with written agendas and handout materials. Additional forms of communication throughout the year such as videos, a safety bulletin board, public acknowledgement for examples of safe activities and rewards for employee safety tips are utilized to encourage and support the safety culture.

In 2022 the company also implemented a quarterly meeting with select members from the Teamsters Union, which includes employees and Union leadership, in order to work in concert with the employee representatives toward improving the safety culture at MSS.

Details of injuries and accidents are shown in *Table 25* below.

**Table 25: Injuries and Accidents in 2022**

<b>Title</b>	<b>Description</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Preventable Damage	Property or vehicle damage determined the fault of MSS driver.	56	50	56
Non-preventable Damage Event	Not due to driver negligence and not the fault of any other party. Trees/wires snagged that are lower than allowed or damage that driver could not have avoided, malfunctioning gates closing on trucks, gate blowing shut, etc.	14	10	20
Work Comp Injuries	Injuries on the job defined by OSHA as work related.	7	24	15
	<b>Totals</b>	<b>77</b>	<b>84</b>	<b>91</b>

## Public Outreach and Zero Waste Programs

### OUTREACH AND EDUCATION SERVICES

Table 26 lists the current contact information and community focus of outreach staff.

**Table 26 Outreach Department Staff Contacts by Specialty (Current as of April 1, 2022)**

<b>OUTREACH TEAM</b>			
Name	Title	Email	Community
Carlos Hernandez	Recycling Programs Coordinator	<a href="mailto:Carlos.Hernandez@marinsanitary.com">Carlos.Hernandez@marinsanitary.com</a>	East San Rafael
Peggy Clark	Recycling Programs Coordinator	<a href="mailto:Peggy.Clark@marinsanitary.com">Peggy.Clark@marinsanitary.com</a>	Terra Linda & Las Gallinas Valley Sanitary District
Rebecca Van Horn	Recycling Programs Coordinator	<a href="mailto:Rebecca.VanHorn@marinsanitary.com">Rebecca.VanHorn@marinsanitary.com</a>	Fairfax, Kentfield & Larkspur
Ruben Hernandez	Recycling Programs Coordinator & Governmental Affairs	<a href="mailto:Ruben.Hernandez@marinsanitary.com">Ruben.Hernandez@marinsanitary.com</a>	West/Downtown San Rafael
Kathy Wall*	HHW Program Manager	<a href="mailto:Kathy.Wall@marinsanitary.com">Kathy.Wall@marinsanitary.com</a>	All HHW Programs
Jennifer Grenier Selvig	Outreach Manager	<a href="mailto:Jennifer.Grenier@marinsanitary.com">Jennifer.Grenier@marinsanitary.com</a>	San Anselmo, Ross & County (Fairfax)
*Position funded through the JPA			

All activities are tracked through Recyclist, an industry tool designed for outreach and customer relations management. This tool allows the outreach team to monitor and track AB 341 and 1826 and SB 1383 compliance activities. Below are the outreach and communications activities of MSS outreach staff. Community meetings include, but are not limited to, chambers of commerce, climate action planning committees, school green teams, home owner and neighborhood association

meetings. Included are community tours given to our area and beyond, as well as kitchen compost pails given out and door hangers left for tenants of apartment buildings



Figure 5: Public Outreach by Type 2022 (not including Schools or Mandatory Commercial Recycling)





## Virtual Outreach

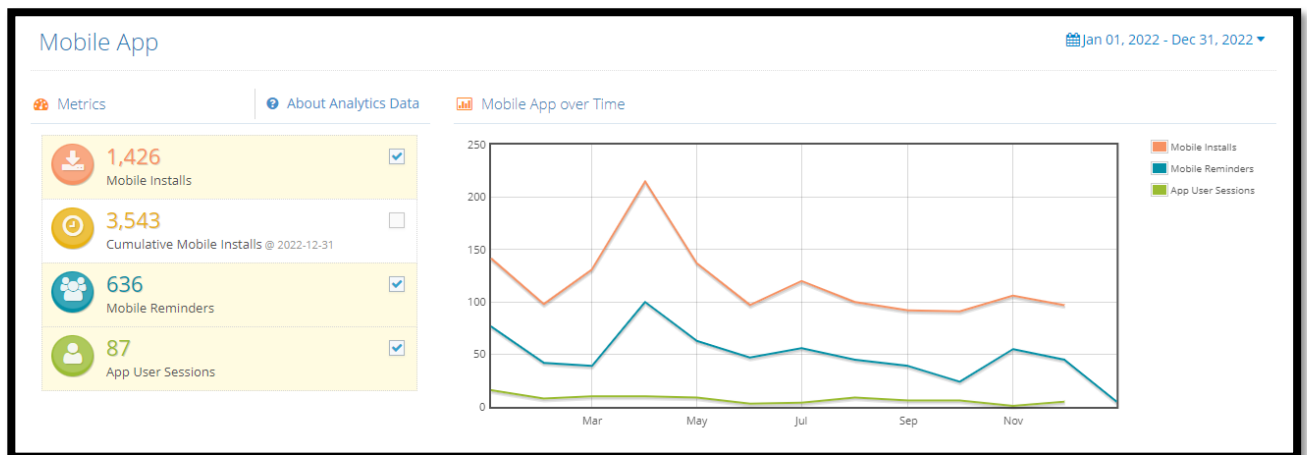
With social media, email communication and the website, MSS is now able to track who is reading company messaging and allows the company to engage more effectively with customers in many new ways.

MSS posts regularly on social media with messages influenced by questions and concerns relevant to current needs.

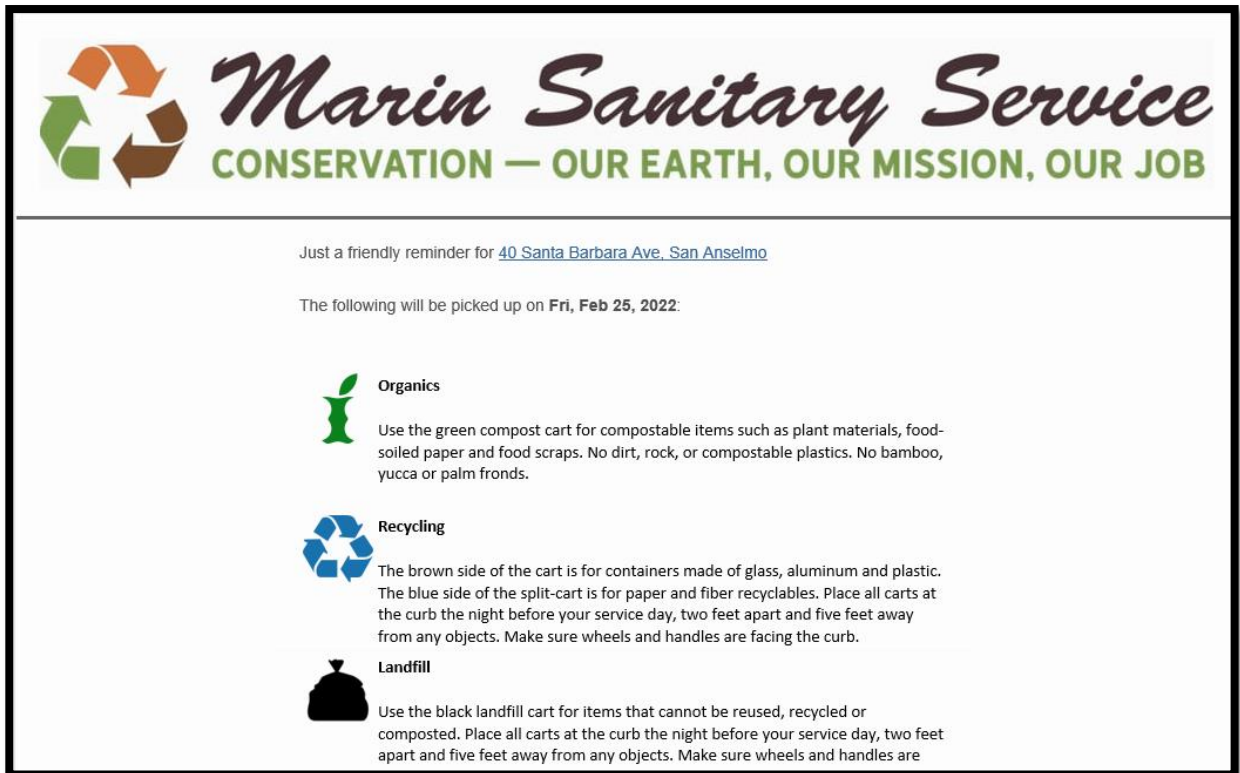
## MOBILE APP –Where Does it Go Joe Stats

The company’s online and mobile application continues to grow. 3,231 notifications were sent to customers in 2022. Reasons included streets blocked or areas the drivers were unable to receive service for other reasons. This allows for timely communication to the community. During the year, 1,426 new mobile apps were downloaded by customers throughout our entire service area (*Figure 7*)

Figure 6: Mobile App Stats



In 2021, the Company launched the calendaring feature with the website and mobile tool. It provides customers with a reminder of their weekly service. This tool also reminds the customer of their twice annual clean-up day. An additional 3,181 MSS customers signed up to receive weekly reminders in 2022 for a total of 16,406 customers receiving weekly reminders across the MSS service area.



### MOBILE APP –Where Does it Go Joe Stats

“Where Does It Go Joe?” mobile app is a search function to find out if an item belongs in the organics, recycling or landfill cart. In 2022 over 8,000 new visitors tried out Where Does it Go, Joe? In total there were 11,024 sessions with over 28,915 different materials viewed. This is down from last year but still shows a strong utilization of this customer education tool. Each viewing tells the customer where the material should go and provides a brief explanation as to why it goes there. This tool has been well received and continues to inform customers and inform MSS on the items that are searched the most. This informs future campaigns and messaging.

**Table 27: Top Materials Searched**

Material	Total
Plastic tubs & lids	2501
Plastic "clam shell" container	2325
Plastic take-out container	2027
Plastic soap bottle	1714
#5 Plastic	400
Clover renewable milk carton	372
Plastic bag	331
Styrofoam	317
Gable top carton	300
Paper take-out food container	299

## Website

There were approximately 76K visitors to the [www.marinsanitary.com](http://www.marinsanitary.com) website in 2022. After the homepage, visitor's number one page viewed was the Support/Pay My Bill page followed by the residential information page.



In addition to the MSS website, there are separate websites for our other facilities, Marin Recycling Center ([www.marinrecycling.com](http://www.marinrecycling.com)) and Marin Resource Recovery ([www.marinresourcerecoverycenter.com](http://www.marinresourcerecoverycenter.com)).

## Social Media Presence

The company maintains a strong social media presence primarily on Facebook and Instagram. There are currently 1,200 followers to the company's Instagram account.

- Facebook (<https://www.facebook.com/marinsanitary>)
- Twitter (@mssrecycles)
- Instagram (@mssrecycles)
- You Tube Channel (<https://www.youtube.com/user/MSSoutreach>)



# INSTAGRAM INSIGHTS

JAN 2022 – DEC 2022

## FOLLOWERS

1,200



76 Jan 2022

## POSTS

34

Top Post Topics

- Halloween
- International Women's Day
- SB 1383 Audits



# FACEBOOK INSIGHTS

JAN 2022 – DEC 2022

## FOLLOWERS

792



590 Jan 2021

Dec 2021

## POSTS

56

Top Post Topics

1. Customer Appreciation Day
2. International Women's Day

## PEOPLE REACHED

14K

The net number of people who saw our content at least once.

## PEOPLE REACHED

9.7K

The net number of people who saw our content at least once.

648

## ENGAGEMENT

The net number of times people engaged with our posts through likes, comments, and shares and saves.

561

## ENGAGEMENT

The net number of times people engaged with our posts through likes, comments, shares and post clicks.

### LIKES



596

### COMMENTS



26

### LIKES



405

### COMMENTS



36

The net number of comments on our posts.

### SHARES & SAVES

SHARE



21

### DIRECT MESSAGES



281

### SHARES

SHARE



44

The net number of times our posts were shared.

### LINK IN POST CLICKS



186

The net number of times someone clicked on a link in our posts.



Marin Sanitary Service  
CONSERVATION — OUR EARTH, OUR MISSION, OUR JOB



Marin Sanitary Service  
CONSERVATION — OUR EARTH, OUR MISSION, OUR JOB



## 4R PLANET SCHOOL PROGRAM AND TOURS

At MSS, the goal is to educate, equip and empower school districts, staff and students to develop comprehensive waste reduction and recycling plans. The 4R Planet school program is twofold. The first is an on-site program which includes tours of the MSS recycling preprocessing and landfill transfer station facilities and lessons on the 4 R's in the MSS Environmental Classroom. Second is an in-school program which includes hands-on training, waste diversion program assistance, and customized educational lessons. All activities are led by our commercial recycling program coordinators.

The following services are provided to schools at no cost:

- Onsite evaluation of recycling needs.
- Waste audits to help schools know what recyclables are still being thrown in the trash.
- Signage, stickers, and curbside containers to help with source separation.
- Educational lessons and assemblies on the 4R's.
- Source separation trainings.
- Green team guidance on waste reduction planning.
- Educational tours of MSS recycling facilities.
- Lending library of resources: books, DVDs, binders with lesson plans that meet California curriculum standards.
- Online resources: sample letters, lesson ideas, recycling procedures and more.



Emails &  
Phone Calls

75



Recycling Needs  
assessment

5



Waste audit

1



School Green  
Team Meeting

5



Special Events

2



School  
Assembly

5



MSS  
Facility  
Tour

22

MSS partners with Zero Waste Marin on The Zero Waste Schools Program designed to help Marin County schools implement composting and recycling programs in order to comply with new mandatory state laws. The program has enrolled 16 schools in the MSS Service area.



**Commercial and Multifamily Outreach, Education and Monitoring**

Outreach efforts extend beyond just compliance of state laws and include customer account management, facility tours, general education, recycling program implementation and involvement in community groups and organizations. The MSS team of outreach professionals are resource recovery experts and are often called upon to share this expertise in the community.

**Table 28: Commercial/Multifamily Outreach by Type January-December, 2022**

MSS Outreach Activities 2022								
Activity Type	City of San Rafael	Marin County	Las Gallinas Valley Sanitary District	Town of Ross	City of Larkspur	Town of San Anselmo	Town of Fairfax	Grand Total
Email	1,694	120	65	31	385	240	145	2,680
Letter	107	12	8		30	4	4	165
Training	127	12	8	1	43	4	10	205
Site Visit	440	17	12	11	67	41	14	602
Phone Call	354	8	3	7	35	25	10	442
Issue/verify SB 1383 Waiver	182	9	4	1	26	11	3	236
<b>Grand Total</b>	<b>2,904</b>	<b>178</b>	<b>100</b>	<b>52</b>	<b>586</b>	<b>325</b>	<b>186</b>	<b>4,330</b>

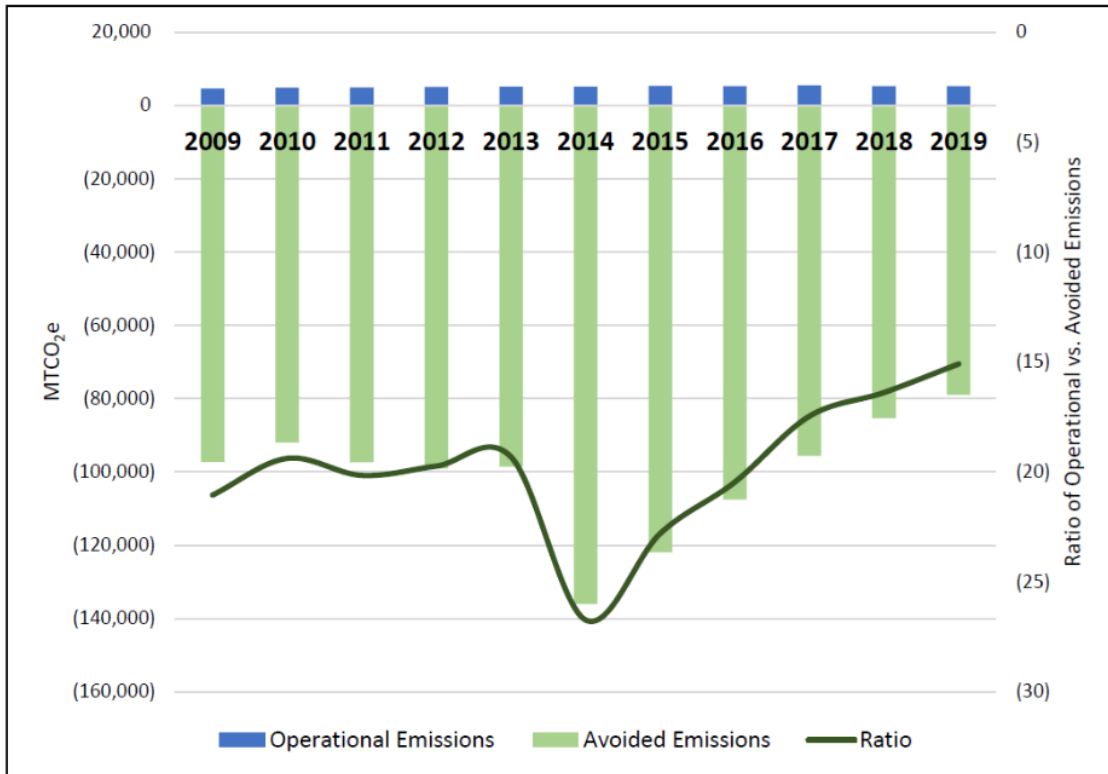


# Green House Gas Mitigation

## GREEN HOUSE GAS MITIGATION


MSS has been annually tracking operational emissions since 2006 and avoided emissions since 2009. This reporting has shown MSS has fully offset its direct emissions on average 18 times. This is well beyond Net-Zero. The majority of emissions continues to be from direct mobile combustions including on and off-road vehicles. MSS continues to monitor operational emissions, and is working on updated figures for 2020 through 2022.

**Figure 7: Emissions Reporting**



## ZERO EMISSION VEHICLES

The state continues to move toward zero emission vehicles through regulations instituted by the California Air Resources Board (CARB). MSS has been compliant with all current emissions requirements and is monitoring and preparing for the zero emission vehicle requirements. CARB is in the process of finalizing its Advanced Clean Fleets requirements that will require



large fleet operators to begin purchasing zero emission vehicles. This continues to be a challenge for the waste industry as electric trucks are not sufficient to do the work required of the waste industry. Currently, hydrogen vehicles are still in development phase.

MSS is currently working on the company's deployment plan for zero emission vehicles. It is anticipated that the company will begin purchasing electric support vehicles in 2024 or 2025. Currently, the company is working with PG&E on infrastructure needs to charge an electric fleet. The company is researching electric collection vehicles, but the costs are almost double that of current vehicle costs and based on other company's experiences in the region, the trucks are not a one-to-one replacement of current collection vehicles.

The company is working through these challenges as it prepares to meet the state's Advanced Clean Fleets requirements.

### **Organics collection program impacts on GHG**

At MSS it is understood that reducing Short-Lived Climate Super Pollutants like methane derived from organic waste in the landfill will have significant impact on the climate crisis. Continued partnerships with Waste Management's Redwood Landfill for composting MSS organic waste at their WM Earth Care composting facility and with Central Marin Sanitation Agency for MSS commercial food waste to generate renewable energy has allowed the company to remain at the forefront of organic waste diversion. MSS jurisdictions have remained ahead of the curve in implementing organics recycling requirements and programs. These efforts have also helped jurisdictions to prepare for and comply with the States organics recycling mandates in AB 1826 and most recently SB 1383.

## Goals accomplished for 2022 and set for 2023

### 2022 GOAL ACCOMPLISHMENTS

#### Operations

*Goal: Expand the commercial organics route to a full route allowing for full impact of new customers from SB 1383 compliance*

- The company continues to expand the route developed to capture new commercial organic customers from SB 1383 roll-out. Currently the route is three days and will be adding an additional three days in 2023. New customers are being added on a weekly basis, but they are not all utilizing the new services at full capacity which has led to a slower expansion than anticipated.

*Goal: Install camera systems on all trucks*

- Cameras were installed on all new trucks ordered in 2022. In addition to the new trucks, cameras were installed on all commercial front-loading trucks. Installation on the remaining trucks is expected to occur in 2023. Cameras installed have helped the company to have greater visibility into incidents on the road and to gain valuable coaching opportunities for drivers. The roll-out to all trucks has been slower than anticipated as glitches are worked out with the cameras. With a large investment as this, the company is working to ensure the best possible outcome from this new technology.

*Goal: Purchase depackaging equipment to enable expansion of the Food2Energy program*

- This equipment has been purchased and was installed in November of 2022.

*Goal: Purchase an optical sorter to expand the current recycling sorting process, ensuring cleaner materials*

- This equipment has been purchased and was installed in January of 2023.

#### Outreach

*Goal: Contact all non-compliant SB 1383 customers*

- All non-compliant customers were contacted in 2022. Many of these customers have implemented organics recovery programs and are now compliant.

*Goal: Hire one additional staff for SB 1383 implementation*

- Rebecca VanHorn was hired in 2022 to help with SB 1383 implementation. In 2022 Rebecca focused on SB 1383 waivers, working with customers who submitted waiver requests, or who MSS outreach staff deemed as possibly exempt. Rebecca reviewed and qualified all waivers and submitted recommendations to each jurisdiction helping to move all jurisdictions toward full compliance.

*Goal: Scrub website to ensure all communication is available in Spanish and to clean up references to AB 1826 and replace all with SB 1383*

- The MSS website has been updated to include Spanish translation. There are some image files imbedded on the website that require additional translation work. All newly developed image files contain both English and Spanish.

### **Contract Compliance**

*Goal: Update all customer-owned can policies to align with container requirements of SB 1383*

- Adjustment to customer-owned can policies were reviewed with each jurisdiction with a roll-out plan scheduled for 2023.

*Goal: Review rate sheets to update with SB 1383 requirements*

- All rate sheets have been updated to meet SB 1383 requirements

## **2023 GOALS**


### **Operations**

- Implement new onboarding and training program for new hires.
- Utilizing the new depackaging technology double the daily tonnage materials from the F2E program sent to CMSA.

### **Outreach**

- Reach full compliance of all jurisdictions by January 1, 2024.

### **Customer Service**



- Improve the customer experience through shorter hold times on the phone.  
Long-range Strategic Plan Development

- Further develop long-range plan including:
  - Improving the employee development program
  - Continuing research in renewable energy technologies from waste
  - Furthering work toward a Zero Emission Vehicle fleet



## Contact Information

JUSTIN WILCOCK  
DIRECTOR OF GENERAL  
OPERATIONS

JASON RALEIGH  
CHIEF FINANCIAL OFFICER

PATTY GARBARINO  
PRESIDENT

**Tel** 415-755-9528

[Justin.Wilcock@marinsanitary.com](mailto:Justin.Wilcock@marinsanitary.com)

**Tel** 415-456-2601

[Jason.Raleigh@marinsanitary.com](mailto:Jason.Raleigh@marinsanitary.com)

**Tel** 415-485-5648

[Patty.Garbarino@marinsanitary.com](mailto:Patty.Garbarino@marinsanitary.com)

**8/17/2023**

**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 5

GM Review CP

# Agenda Summary Report

**To:** Board of Directors  
**From:** Michael P. Cortez, PE, District Engineer  
 (415) 526-1518; [mcortez@lqvsd.org](mailto:mcortez@lqvsd.org)  
**Mtg. Date:** July 6, 2023  
**Re:** Battery Energy Storage System  
**Item Type:** Consent  Action  Information  Other   
**Standard Contract:** Yes  No  (See attached) Not Applicable

## STAFF RECOMMENDATION

Board to authorize the following:

1. District staff to proceed with the proposed Battery Energy Storage System (BESS) project.
2. Pay a non-refundable initial deposit of \$85,000 to PG&E for the Self Generation Incentive Program (SGIP) application.
3. Obtain firm pricing for BESS from ForeFront Power and report back to the Board with updated cost and cash flow analysis for Board consideration on implementation of BESS as a future project.

## BACKGROUND

District staff and Kenwood Energy have completed a preliminary analysis of the costs and benefits of installing BESS at the treatment plant. The analysis assumed a system consisting of batteries, inverter(s), and a controller installed on a concrete pad near the Electrical Building for integration into the existing power distribution system. A rough order of magnitude (ROM) cost estimate of \$6M was used in the economic evaluation based on current pricing of the components.

A large percentage of the costs could be offset by two funding programs:

1. The Inflation Reduction Act "Direct Payment," which can cover 25% to 40% of the cost. The government is still in the process of developing reimbursement procedures. Staff anticipates the process to be similar to previous ARRA, USBR WaterSmart, and California Energy Commission grant funding received by the District.
2. The SGIP can cover another 25% to 35% of the cost up to \$1.7M as indicated in the PG&E application (an SGIP incentive of \$1.7M represents 28% of an estimated total cost of \$6M.)

Combined with the funding programs, energy savings should pay for most of the remaining cost within the life of the BESS equipment. It is very unlikely that the remaining cost will be incorporated into the PPA with ForeFront or another company due to variable energy rates based on peak demands and timing of operating the BESS, which could affect the guaranteed utility cost reduction of the current PPA pricing with ForeFront.

The benefits of BESS include the following:

1. Reduced power outages at the treatment plant.
2. Less operator disruption and staff overtime.





3. Lower risk of NPDES permit violations.
4. Enable the Solar PV system and cogeneration to operate during outages.
5. Reduced operation of standby diesel generators.

On May 18, 2023, the District applied for PG&E's SGIP. The requested amount of incentive is \$1,710,165 for an Electrochemical Storage (Battery) with a rated capacity of 750 kW and energy storage capacity of 3,086 kWh.

PG&E notified the District on July 24, 2023 that it initiated processing the District application initially placed in the "overflow queue" a few months earlier. If approved, PG&E will issue a Reservation Notice Letter confirming eligibility, which would require a downpayment of 5% of the requested incentive amount of roughly \$85,000. The downpayment is non-refundable; however, it will be applied towards the cost of BESS equipment in the future, which is currently estimated at \$6,000,000.

Tim Holmes with Kenwood Energy will discuss the advantages and disadvantages of BESS, including cost estimates in a presentation at the Board Meeting.

#### **PREVIOUS BOARD ACTION**

On January 5, 2023, the Board adopted Resolution 2023-2295 for the Energy Services Agreement (Power Purchase Agreement) with FFP BTM SOLAR, LLC (D.B.A. ForeFront Power) for the upgrade of the existing 588kW solar photovoltaic system to ~1 megawatt.

#### **ENVIRONMENTAL REVIEW**

N/A

#### **FISCAL IMPACT**

Non-refundable initial deposit of \$85,000.

8/17/2023

## **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**

WEF/IWA Residuals and Biosolids Conference  
Charlotte, NC  
Craig K. Murray  
May 17-19, 2023

Opening General Session. WEF: June 18-21, 2024 OK City, OK. Session used Menti.com for audience to upload questions for panel. Angela Charles, Charlotte Water Director welcomed. Stated King George appointed Queen Consul to Charlotte and therefore called Queen City. Much revolutionary war and history here. Panel discussion and questions: Circular Water Economy – concept used to be pollution prevention. Local production and use, develop skills and jobs locally. Denmark 90s National effort for nutrient recovery. Methane reduction down to 1%. Discussion of importance of trust, confidence for education and community buy in. Denmark creates 18m of heat for 2 cu ft of WW.

2. Today's Alchemy Miracle: How Hydrothermal Liquefaction turns Sludge into Diesel and Jet Fuel. HTL Overview and Sludge: Hydrothermal Liquefaction. Takes Organic material into crude oil. Can produce from feedstocks. Even 25% feedstocks, great to produce with wet feedstocks. High carbon efficiency. Thermally stable biocrude. Pretreated waste is pressure-cooked at 350 degrees (steam in Recycled). Solids/Ash is removed. Finally send off to a refinery. If put 100g get 56g as biocrude. 20-25 percent r-Jet Fuel and 70-80 percent for Diesel. Metro Vancouver, genafuel, 10 wet-ton/day units in fabrication. Includes manures. Biosolids Land Application is sustainable but in under attack (Maines). Landfill closures driven up costs. Where do US biosolids and sludge end up: mostly Ag. NY landfills most sludge, 3 contracts in PA to one landfill (shut down). Then to Alabama. NYC look to beneficially use close to home. GA landfill slope failures exposed vulnerability. AL where landfill now. Then to MS, then LA as shut down. Dept of Env Class B rules 30 to \$80 per wet ton to landfill. Glen Fuller, Kern Energy: Gas and Diesel, renewable fuels for 14 years and 2<sup>nd</sup> refinery in US to get permitted. Sustainable Aviation Fuel grand challenge: 3B SAP by 2030; 35B by 2050. OCED Office of Clean Energy Demonstrations. 2B gpy with 10 operating renewable diesel plants producing. Tallow can't get anymore except in India. Use inedible Tallow as FOG. Energy Crops limited in hydrotreaters. Land use change no at alternative. Lose some capacity in plants. Need some alternatives therefore talk to WWTPs. Lot of sectors (offroad, rail, marine) just can't electrify. HTL: 20M TYP biosolids in US .150TPY globally. Biocrude 1M gallons per year in small refineries and 10x large refineries. Can use all in WWTP and still less than 10%. HTL is a simpler process. HTL refinery integration with Forestry such as Forestry, Ag Wastes, WWTP. Effective use of waste heat, improves biogenic carbon efficiency. Challenge.: DOE/USDA/State funding oppty. Upgrade a refinery. Feedstocks: Heater Flue Gas; plant or animal oils and fats; SRU feed and TGU gas.. 6.3B OCED Industrial Decarbonization. HTL : Dewatering optimization and balanced for carbon efficiency; alternatives to land application of Class B biosolids. GLWA received 1.5M DOE for HTL feasibility. Look at organic wastes outside of WWTP (food wastes, yard waster, waste paper and other organize wastes. Perform TEA and LCA for best use. Tours with Demonstration unit (Detroit MI). DOE grant on MicroBio Engineering on treatment of aqueous phase. Pacific NW Laboratories (PNL) Michael Thorston Ph.D. : Water and Energy recovery: Always need for hydrocarbons beyond electrification. Eg 9000 gal fuel day at \$4 gal \$34,000. Started to look at woody feedstocks, then algae, then wet wastes. HTL programs budget \$5M from DOE. How to make robust enough to be commercially deployed. Major focus: fouling. Plugging in preheater 215-250 degrees C; hard plug compositional changes; Reduced content of C. HTL: operationally robust. Rheology curves of two sludge examples. Free flowing viscosity with steam flashing process to get to 165 C and most challenging part of process. Eliminate Heat Exchangers and allow it to

be much more robust. Now generating steam. Need 2 stages of flashing to get to the point. Believe can apply same tech as oil sands removal process. Low pressure HTL (heat recovery), high pressure (in development). How to ride the current renewable energy wave with WW and petroleum refinery sectors? Think refiners should be doing this than full scale refinery at your plant. Bec. Refineries have waste heat and things not used to. Q/A HTL in Canada and wood in Europe, large facilities. 81% lower GHG and entire facility is energy exporter. About 60% more net energy than digestion. Footprint: AD (really big area required, simple). ?Wet waste v. dry waste. Reduce (is part of the reaction) v. gave 90% v. 20% dry waste. Ideal is about 25%. Refineries need to be close by or offset by trucking costs. Refiners need water and doesn't care what is pressure cooked. All materials can be mixed up with GALW sludgenhines@ 98% A: wood is best example. If shipped 98% dry material, treat like wood. Yes reconstitute in process. Could be high ash content. Get all sorts of credits RINs credits to pay off that trucking and doing credit generation together.

4. Biosolids Beneficial Use and Disposal Trends in South Carolina and Georgia, Nicolas Hines Material Matters In. 717-892-2330, [nhines@materialmatters.com](mailto:nhines@materialmatters.com). 30 landfills in GA & SC, only 25% account WW solids. Products: Class A/EQ Compost; Class A/EQ dried granules; Class A/EQ Char; Class B Cake. Tipping Fees: GA \$30-\$125, SC \$80-\$120. TPC: Third Party Contractors for low standard solids for offsite processing. 6 Markets: AG; Alt Fuel; blending; Golf courses; soil blending; turf production. Alt. Energy is Novel Market and not a lot of use of biosolids. Location and transportation problems such as not a lot of turf farms near WWTPs.

7. A Surveillance Study: Pharmaceutical and Personal Care Products (PPCPs) in Biosolids. Study of 12 WWTPs by Michigan State. [soza@brwncaid.com](mailto:soza@brwncaid.com). Hard to remove and still seeing cleaners such as Triclosan that EPA banned 7 years ago.

8. Addressing Biosolids Hydrogen Sulfide Odor Complaints While Meeting Effluent Metals Limits – a “Win-Win” for a Brewery. Lam Nguyen from UCR- Pri Tech registered trademark. Produce 112 Tons, 10-12% dewatered sludge. 2002-Sodium. Violate Manganese Discharge. Manganese into filtrate. Ferric Iron. H<sub>2</sub>S 95% exceed limit during dewatering. Belt Press. Pri Tech H<sub>2</sub>S vapor into scrubber, 88% reduction.

9. Pairing Table-top Analysis with Bench-Scale Testing to Assess Food Waste Co-digestion Feasibility. [jan.hauser@oxnard.com](mailto:jan.hauser@oxnard.com); [rgupta@carollo.com](mailto:rgupta@carollo.com); [cpolo@carollo.com](mailto:cpolo@carollo.com). Study determined that \$150k/yr revenue is not enough payback for capital costs. Sidestream N + P. Food waste hauling: from MRF to OWTP at \$40/WT. Polymer increase dewatering cost. Biogas yield similar with FW and sludge. Loading at 60%. Benefit is higher biogas. Negative is dewatering capability. Power generation with 10% increase as than with grid. Current engines are only 26% electrical efficient. Regional preprocessing give economies of scale. Food waste codigestion feasible OWTP but more costly than the status quo.

10. Phosphorus Release and Recovery from Digested Anaerobic Sludge in an Electrochemical System. ERNC: Electrochemical Nutrient Recovery Cell. Chemical use v. EPRC. Separation by Membrane or Precipitation. Phosphorus directly used as Fertilizer. Wet chemical process 2 steps 1. Relieve P solid and 2. Separation to Struvite. AEM: Anion Exchange Membrane. Biosolid have ~50% go to 78% in digestate can be harvested. Membrane material: titanium, iridium, urithium. Most P recovered as Solids. Macro Constituents: Ca, P, TC, Fe, Mg, Mn, Zn, Al. Micro constituents: 0.02% LEAD is the regulated level by EPA. Challenges: difficult to scale up, expensive materials. Maintenance with scraping or acid wash.

11. Assessing the CHG Emission Tradeoffs of Energy Recovery with Thermal Drying.

Cary NC Western Wake Regional WRF No Primary Treatment, Secondary Clarifiers and most effluent pumped to Cape Fear River. Pellitizer. WWRWRF Dryer Facility: 2 Veolia BioCon Dryers, Facility

expandable for 3<sup>rd</sup> dryer. Pelletizer produces high-value biosolid product. ERS: Energy Recovery System. (killed incinerator by Cary watchdogs by public perception and regulatory hurdles). Cary Env Advisory Board: 25 by 2025 and 100 % by 2040. GHG inventory: Stantec Institute Carbon Research: Policy Scope 3 Emissions landed on. Upgrading to web based tool. Town is growing. Emissions by source Beaver Creek PS. Purchased Electricity; Process Emissions: NG drying processes for Biosolids, stationary resources. Net total 2021 Emissions: 8,303 MTCDE. Dryer gas great place to focus on emissions. What to do: they purchased a solar field; max. resource recovery, decrease reliance on consumables, reduce stationary combustion source; apply GHG impact analysis. Ash v. Biosolids end product with Biocon + ERS Incinerator. Worked with Veolia on two dryers. 60-70% ERS gas provided v. 30% natural gas. GHG impacts: reduced natural gas combustion by the dryer; reduced hauling transportation emissions. Velolia vendor: O&M: electrical consumption assumed to be 43% of vendor value. GHG Impact Summary: Natural Gas 60% reduction; Electricity 6% increase; Hauling 80% reduction; ERS combustion 100% increase N2O; total: 36% increase. BioCON v. BioCON + ERS. Non cost considerations Flexibility diversification to address emerging contaminants. Takeaways: GHG impacts is one piece of triple bottom line -incorporate GHG analysis into master planning. Nikki Stephens.

[Nicole.stephens@stantec.com](mailto:Nicole.stephens@stantec.com), 303-291-2276.

#### 13. Digester Gas to Biomethane – Design, Construction and Commissioning Lessons Learned.

[Laura.locke@aecom.com](mailto:Laura.locke@aecom.com). Start up issues: low gas flow; condensate drain not draining properly; PRV damaged in freeze. LSG: Low Pressure Sludge Gas. Weighted piston for gas delivery. LULU Island plant in BC.LIWWTP. 200k population, City of Richmond, built in 1973, 19MGD, discharge to Fraser River. New project Construction June '19 to July '21. Other issues is that it takes 20-30 min. to start up and therefore flare. Methane: CO2. Oxygen content is one of the main reasons for rejection by the Gas utility and occurs about 10% of the time. Gas utility main injection received at 61-75 psi and received at 120 psi and utility reduced to distribute in pipeline. Gas/dry 112 cfm. Main problem was flaring 50% wanted to reduce.

#### 14. Master Planning When the Grounds Keeps Shifting: Portland (Maine) Water District's Biosolids Master Planning Experience in the Age of PFAS.

[NSierra@brwncald.org](mailto:NSierra@brwncald.org); [sfirmin@pwd.org](mailto:sfirmin@pwd.org). Restricted WWTP residuals. Mgt., composting, land application, land filling and incineration. In March, 80% of Maine's biosolids had to be trucked to Canada. Charges \$170 WT to \$130 WT (wet ton). PFAS issues started with Farm, then to a Paper Mill then to PFAS in milk and identified in additional farms. Preseque Island \$17.6M to fix the problem. Needed to develop a road map to long term residual mgt. with baseline, alts. And now developing an implementation plan. Portland Water District has 4 WWTPs. Sierra: "PWD is forward thinking utility in New England". Look at a Regional facility. AD, regional pyrolysis, thin film dryer, regional solar drying. Hauling at \$92 WT + tip fees Portland fees at the time.(operations). V. alts. With ops. And CIP. Not permitting land filling therefore need road map. In times of regulatory uncertainty. Has to move fwd.

#### 16. Pyrolysis, Gassification, and Incineration – How They Compare.

[lwinchell@brwncald.com](mailto:lwinchell@brwncald.com). Pyrolysis and gasification lower cost. Incineration based on Clean Air Act Sec. 179. Syn Gas. Surveyed 3 vendors. Want to incinerate don't need dryer to operate. No data yet on how much PFAS to destroy. Right now completely destroying or transforming PFAS. Incinerators have higher standards and can't build. Products: either Ash or Char. Question is how much Carbon do you want in it? Incinerator add 40% more air than required as with pyrolysis and gasification. High flow gas rate. Pinellas County Florida: 24 municipalities, most dense County in Florida, work to regional facility. Pinellas.gov/utilities. Clearwater, Florida. Up to 17 dry tons/year. County uses term treat to Class AA

(means it monitors metals in Biosolids). Florida low water table, concern with Red Tide. Currently biosolids are burned and ash is buried. UK: Stantec Andre Le Roux. [Andre.leroux@stantec.com](mailto:Andre.leroux@stantec.com). Water sector in UK in 1989 shifted from municipalities to privately owned water companies. Concern that they make too much money and series of public reports required. In 2005, look at customer cost. In 2020, regulations of biosolids management. Benefits only to upgrade to regional plant than the smaller plants. Northumbrian Water Group example with 66 large scale treatment plants and 72 small scale treatment plants and 3.6M population. 1-3% liquid sludge. RNG production requirement est. 6 years ago and now two large regional plants and one in Newcastle. Q/A: Regional Biosolids obstacles: In NE: 2 states Mass & RI; combined power of overall region to achieve. Florida: Educate, Individual approach to City Council and that it is not money as much as the environmental impact. UK: How to permit, regulate. Question if w/o regulations or budget limits: NE there would be more focus on Soil Health.

Friday Tour –

Invited to tour City of San Bernardino Water Dept. “back of fence” private partnership in electricity generation with excess biogas: Kevin T. Stewart, PE, Director of Water Reclamation, City of San Bernardino Municipal Water Dept., PO Box 710, San Bernardino, CA 92402, 399 Chandler Place, San Bernardino, CA 92408 cell: 909-454-5651; Te: 909-453-6213; fax: 909-453-6379; email: [Kevin.Stewart@sbmwd.org](mailto:Kevin.Stewart@sbmwd.org); [www.sbcitywater.org](http://www.sbcitywater.org)

Charlotte Water McAlpine and Irwin Creek Facility. RMF 20%, THP 30%, \$6B/yr. Biosolids. CIP \$500M Budget. 80M Gal Contact Basins. 2 plants. 6 Vulcan Bar Screens. Flaring and project with Duke Energy for pipeline injection. 657 kWhours. 1 MW CHP. Piedmont and Duke Energy unregulated therefore not have to go to a Utilities Commission. Near Pineville NC – President Polk Residence and Grounds Museum.

###

# WATER ENVIRONMENT FEDERATION



*Be It Known by This Certificate That*

**Craig Murray**

*Has Earned 5.25 Professional Development Hours (PDHs) for  
Participation in the workshop titled:*

**Residuals and Biosolids Conference 2023**

*May 16-19, 2023*

*Charlotte, North Carolina, USA*

Walter T. Marlowe, P.E. CAE  
Executive Director

Matthew Jones  
CE Program Manager

*Use Only If Applicable:* WEF Provider #: \_\_\_\_\_ Course Approval #: \_\_\_\_\_ Operator/P.E. License #: \_\_\_\_\_







## Air Quality, Climate Change, & Energy Workgroup

July 27, 2023

11:00 am – 1:00 pm

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

### 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 ( <a href="#">June 27</a> ), bond request

### PRIORITY ISSUES/ACTION ITEMS

	ITEM	LEAD	NOTES
1.	CARB Advanced Clean Vehicle Regulations	Sarah Greg Steve David	<a href="#">Proposed Regulations</a> were adopted April 28 – CASA draft summary updated; <a href="#">Board resolution</a> acknowledges need to collaborate w/ CASA on SB 1383 to maintain multiple uses for biomethane, pursuing follow-on meetings w/ of CARB EO/DEO, staff, and state agencies; BAC meeting with CARB Chair Jul 26; establishing small task force for targeted reviews/work sessions
2.	<a href="#">SB 1383: Organic Waste CH<sub>4</sub> Reductions</a>	Greg Sarah	Tracking County actions and status of Little Hoover Commission <a href="#">report</a> approval of delay in implementation, tracking and sharing Article 2 determinations
3.	EPA <a href="#">Renewable Fuel Standard RINs</a>	Greg	EPA released final set rule June 21 supporting apportioning RIN values for sludge-vs food waste-derived biogas
4.	<a href="#">CARB Low Carbon Fuel Standard</a>	Greg	Potential changes to LCFS being considered, including the <a href="#">Tier 1 Simplified Calculators and Lookup Table Values</a> , staff to formally propose regulation updates this summer prior to Board Hearing including the initial statement of reasons (public comment for 45 days), second Board Hearing in fall for adoption, regulatory updates to be effective early 2024
5.	<a href="#">NWL Climate Smart Strategy</a>	Greg Sarah	Meeting with staff July 27 to discuss role of biosolids in the strategy (to achieve c-sequestration, improve soil, and mitigate climate change) and the NWL modeling
6.	<a href="#">Criteria Pollutants &amp; Toxics Emissions Reporting &amp; Hot Spots Program</a>	Sarah David	Wastewater sector to report BAU through 2028 (CARB staff to inform air districts), met with San Diego APCD, scheduling follow-ups with CARB and air districts to discuss timeline and next steps, beginning to draft RFQ for Program Manager, Next Subgroup meeting Aug 9 ( <i>reschedule</i> , conflicts w/ CASA's Annual Conference)
7.	Adaptation Update	Sarah	OPC has a <a href="#">Sea Level Rise Action Plan</a> and <a href="#">Strategic Plan</a> – OPC to meet Aug 15, to meet w/ CCC to discuss removal of H++ scenario from the <a href="#">SLR Planning Guidance</a> , updates to Regional Water Board permit requirements to address climate change, <a href="#">SWRCB Climate Change website</a> tracks Water Board Actions, <a href="#">alliance of regional collaboratives for climate adaptation</a> , three <a href="#">ICARP grant</a> programs to fund local, regional, and tribal climate adaptation and resilience efforts across the state

### INFORMATIONAL ITEMS

	ITEM	LEAD	NOTES
1.	SB 1440 Biogas Procurement	Greg	PG&E and SoCalGas solicitations
2.	Methane Review/Monitoring at WRRFs	Sarah John	<a href="#">Princeton</a> 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 C-Sequestration Meta-Analysis	Sarah	Report expected 2023
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 <a href="#">Potential Amendments to Diesel Engine Off-Road Standards</a>	Sarah	Tier 5 rulemaking (including CO <sub>2</sub> standards), proposal 2024, implement to begin 2028 – last workshop: <a href="#">June 27</a>

### UPCOMING CONFERENCES/EVENTS

NAME	DATE/LOCATION
CASA Annual Conference	August 9-11, San Diego
CASA-CWEA Innovative Technology Seminars	November 29 (SFB-RWQCB office, Oakland) & 30 (Hyperion, LA)

**NEXT MEETING: Aug 24<sup>th</sup>, 8:30-10:30 am**

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

July 27, 2023 (11 am – 1 pm, Hybrid)

CASA Office (925 L Street, Sacramento – lunch provided)

Zoom Link (see Meeting Invite)



1

**State Legislation Update**  
(subgroup provides input to State Leg Committee)

**Governor's Budget**



2

## 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)~~ Vehicular air pollution: Clean Transportation Program: vehicle registration and identification plate service fees: smog abatement fee: extension.
- AB 530 Vehicles: electric bicycles
- 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~~-system
- AB 1216 (Muratsuchi D) WWTPs: monitoring of air pollutants
- AB 1465 (Wicks D) Nonvehicular air pollution: civil penalties (unless amended)
- 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)

3



## Senate Bills in Review

Watch  
Spot  
Support  
Oppose  
Disapprove

- SB 141 (Allen D) Climate change: applications using hydrogen: assessment
- 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

4



## Priority Issues/ Action Items

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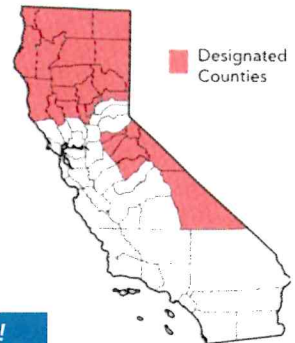


### 1. CARB's Advanced Clean Fleet Regulations/Resolution

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 to support applications to streamline the process!



**CASA is updating the draft summary of the regulation for member review!**



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# 1. CARB’s Advanced Clean Fleet Regulations/Resolution

## 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 into it by Jan 1<sup>st</sup>, 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 fleet trucks fueled by biomethane in support of SB 1383 beyond Jan 1<sup>st</sup>, 2024 (have offered to demonstrate biogas-to-hydrogen technologies, but need a market for biomethane in the meantime)

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



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# 1. CARB’s Advanced Clean Fleet Regulations/Resolution

- Actions following the approval of the ACF Regulation and Resolution
  - Invited by BAC/Julia Levin to meet with CARB Chair July 26<sup>th</sup>
  - Public meeting Aug 22<sup>nd</sup> to discuss Truck Regulation Advisory Committee (TRAC) – separate from the coordination of state agencies per the Resolution
  - Coordinating with CARB Staff on the approach to pull together state agencies
  - Updating the draft summary of the regulation for additional member feedback
  - Participating in discussions of early lessons learned
  - Willing to support extension and exemption requests to streamline the process
  
- CARB expected to be sued as regulation is submitted to Office of Administrative Law

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## 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 enforcement Jan 1, 2024, compliance by Jan 1, 2025
- CalRecycle outreach to overturn restrictive County ordinances as land application projects are pursued
- Article 2 applicants:
  - H Cycle, theoretically produces a low-carbon hydrogen using thermal conversion technology – to be approved
  - Lystek International – CARB determined technology already complied
- Little Hoover Commission (an independent state oversight agency)
  - Voted to recommend “temporary pause” in implementation with no timeline
  - Successfully achieving the goals will require changes in law and regulation, additional funding, and creating a more holistic approach to reducing landfill methane emissions



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## 3. EPA Renewable Fuel Standard: RINs

- Misinterpretation since 2017
- Final Set Rule released June 21<sup>st</sup> – reflects “Plan B” apportioning of RINs based on feedstock
  - Allows specifying operational parameters for sewage sludge digestion
  - Volume awarded a D3 RIN is subtracted from the total volume of biogas produced – difference assumed to be produced from added organic waste and awarded D5 RIN
  - eRINs – to be revisited in future



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## 4. CARB Low Carbon Fuel Standard (LCFS)

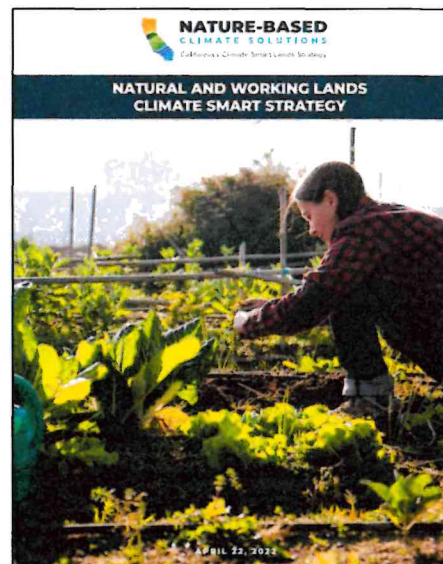
- Designed to reduce fossil fuel dependence
  - Decrease carbon intensity of transportation fuel pool
  - Provide increasing range of low-carbon and renewable alternatives
- Workshops discussed potential changes with recommendations to promote biogas-to-hydrogen pathways
- Feb 22<sup>nd</sup> workshop, comments submitted March 15<sup>th</sup>
- May 23<sup>rd</sup> workshop on auto-adjusting CI targets post-2030 via an auto-acceleration mechanism
- Staff to formally propose regulation updates this summer prior
- Board Hearing including the initial statement of reasons
- Public comment for 45 days
- Second Board Hearing in fall for adoption
- Regulatory updates to be effective early 2024

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## 5. NWL Climate Smart Strategy

- Implement Governor's Executive Order and expand climate action in this sector
- Considers 8 Landscapes, modeling of GHGs
  - Forests
  - Shrublands and Chaparral
  - Developed Lands
  - Wetlands
  - Seagrasses and Seaweeds
  - Croplands
  - Grasslands
  - Sparsely Vegetated Lands
- Met with CNRA March 1 – Very supportive of biosolids land application
- Met with CNRA today!



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## 6. 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)

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## 6. Statewide Two-Step Process – Next steps

- **Coordinating 2<sup>nd</sup> meeting with CARB only, then bringing in air districts – agenda to focus on:**
  - Schedule, including approach to Step 1 (desktop exercise or narrow scan to be performed at one WWTP in Bay Area, Central Valley, South Coast)
  - Confirm letter is approved stating two-step process is required for all POTWs whether as a group or alone
  - Confirm message sent to all air districts confirming all POTWs can delay reporting
  - Answer questions
- **Coordinate meetings w/ air districts**
  - Met with San Diego APCD where CARB agreed all POTWs can delay reporting
  - To meet with big 5 and CAPCOA, then convene meetings with CARB
  - Confirm Step 1, later confirm field test participants
- **Continue refining list of POTWs** – updated spreadsheet to include permitted flow AND an average of actual daily flow for years 2019, 2020, and 2021 to compare to thresholds in regulation
- **Administrative tasks**
  - To confirm governing structure (PEEP 1990 and a ppt summarizing PEEP 1990 to be uploaded to CASA Website)
  - Drafting RFQ
  - To refine estimated budget and contributions by flow

Preliminary actions led by Air Toxics Subgroup – next meeting August 16<sup>th</sup>

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## 7. Adaptation: OPC Meeting August 15

- We are tracking actions on the Strategic Plan ('20-'25), Sea Level Rise Action Plan (FY 22–25), and 30x30
- Aug 15<sup>th</sup> meeting will focus on:
  - Strategic Plan Objective 1.1 (Building Resilience to Sea-Level Rise, Coastal Storms, Erosion, and Flooding)
    - Target 1.1.1: Ensure California's coast is resilient to at least 3.5 feet of sea-level rise by 2050, consistent with the **State's Sea-Level Rise Guidance** Document as appropriate for a given location or project. This target will be modified periodically based on the best available science and updates to the State's Sea-Level Rise Guidance Document. And...Develop/adopt a **CA Sea-Level Rise Action Plan** by 2023 (actions on next slide)
    - Target 1.1.7: Work with partners to ensure an additional 10,000 acres of coastal wetlands will be protected, restored or created by 2025, and increase the acreage of coastal wetlands in CA, as defined by the coastal wetlands inventory, by 20% by 2030 (**now 30x30**) and 50% by 2040
- Upcoming OPC Meetings
  - December 12



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## 6. Adaptation: OPC Sea Level Rise Action Plan (FY 22–25) – actions we are tracking for your reference...

- Actions associated with Principles
  - 1.6: Disseminate and implement Coastal Commission's newly released "Critical Infrastructure at Risk: SLR Planning Guidance for California's Coastal Zone"
  - 1.8: Highlight or coalesce available mapping components/layers or visual aids to understand how SLR will impact critical infrastructure
  - 2.6: Discuss and identify how water quality threats from SLR affect the mission of other state agencies through regular forums by the Water Boards
  - 4.3: Complete inventory to evaluate the status, trends, processes, and outcomes of SLR adaptation planning by the 76 local government jurisdictions along California's outer coast (15 counties and 61 cities) and Bay Area (9 counties and 40+ cities) and create an online inventory of local adaptation planning
  - 4.7: Partner with tribal and local jurisdictions to prioritize adaptation actions, emphasizing a preference for those that protect and increase the resiliency of public assets, infrastructure, and larger projects with multi-benefits
  - 4.8: Utilize the California Sea-level rise State and Regional Support Collaborative to offer additional capacity in the form of technical assistance and support to tribal and local governments for SLR funding programs and grant applications, adaptation planning, emergency planning, and project development and implementation
  - 5.2: Ensure critical infrastructure facilities have resiliency plans that are implementable within their maintenance period, and longer-term projects are addressed with adaptive management, to the extent feasible
  - 5.8 Pursue statewide and regional strategies and actions to address SLR impacts, including those through planning, regulations, permitting, compliance, and/or funding, potentially through a statewide resolution
  - 5.9: **By 2023, develop site-specific infrastructure resiliency plan (considering minimum of 3.5 ft by 2050, 6 ft by 2100, and higher)**
  - 5.16: Inventory regulated permitted facilities vulnerable to SLR (e.g., POTWs, industrial stormwater facilities)
  - 6.4: Support multi-phased wastewater resiliency infrastructure projects that end with shovel-ready projects, including WWTPs and onsite treatment

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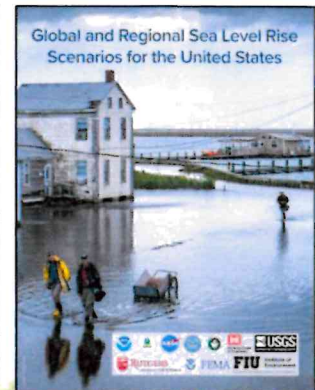
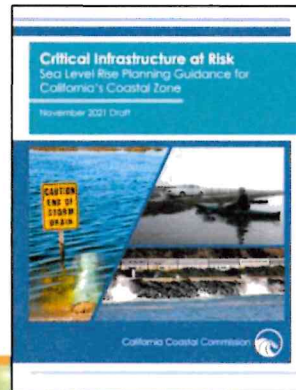
## 7. Adaptation: CA Coastal Commission Sea Level Rise

- 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” (H++) scenario from the 2017 report (2.5 m global mean SLR by 2100) is now viewed as less plausible and has been removed.*

- Note: [Sustainability Principles](#) document targets GHG reductions

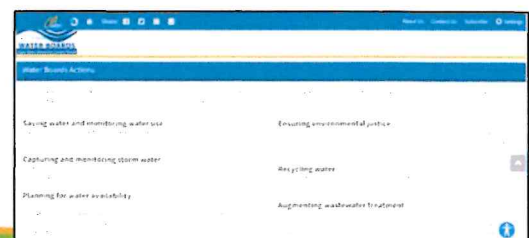
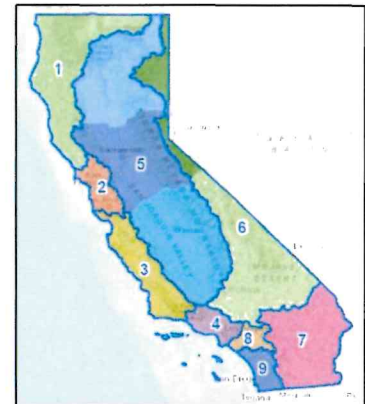
- 10 guiding principles and 7 actions supporting GHG reductions (through land use policy and permitting decisions)
- Final Draft recommended for adoption July 20<sup>th</sup>



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## 7. 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 developments
- State Water Board Climate Change Website – Tracking Water Board Actions
- Providing summary at CASA’s Conference August 9<sup>th</sup>



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## 7. 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)



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## 7. Adaptation: Integrated Climate Adaptation & Resiliency Program (ICARP) grant programs

Programs	Adaptation Planning Grant Program (APGP)	Regional Resilience Planning & Implementation Grant Program (RRCP)	Extreme Heat & Community Resilience Grant Program (EHCRCP)
<b>Description</b>	Program provides funding to fill local, regional, and tribal planning needs, provides communities resources to identify climate resilience priorities, and supports development of a pipeline of climate resilient infrastructure projects across CA.	Program funds regional climate resilience efforts, including identifying climate resilience priorities, building capacity, and implementing projects, that respond to a region's greatest climate risks. Must work with climate vulnerable communities.	Program funds and supports local, regional, and tribal efforts to reduce impacts of extreme heat. The EHCRCP Program coordinates CA's efforts to address extreme heat and the urban heat island effect.
<b>Eligibility</b>	Local public entities, California Native American Tribes, Community-Based Organizations, and non-profits.	California Native American tribes, Public entities, Community-Based Organizations (CBOs), Academic Institutions*	TBA
<b>Considerations</b>	To award two (or more) planning projects from California Native American Tribes, an eligible entity having co-ownership with a California Native American Tribe, or an eligible entity established by a California Native American Tribe to undertake climate adaptation planning projects.  To award three (or more) project applications for FEMA's Hazard Mitigation Assistance (HMA) funding programs from either Federally Recognized Tribes, economically disadvantaged rural communities (EDRC) as defined by FEMA, or communities that meet Justice40 Initiative.  If applications received do not meet eligibility requirements, OPR reserves the right to waive or adjust these funding targets.	Applicants should form regional partnerships that involve two or more jurisdictions working together to address their region's shared climate risks.  Applicants can self-identify their project's region as any area of California that is supported by multiple jurisdictions, has shared infrastructure or natural systems, and has shared highest priority climate risks.  10% of funds are allocated to Native American Tribes, 51% must be allocated to disadvantaged communities.	TBA
<b>Funding</b>	\$150k-650k per grant, \$8 million total (Round 1), \$6.6 million (Round 2), \$6 million (Round 3)	\$150k-650k for planning, \$650k-3000k for implementation, per grant. \$21.3 million total (Round 1) of which \$12.5 million must be for planning	TBA
<b>Time Limit</b>	3 months	12-30 months	TBA
<b>Application Launch</b>	6-Jan-23	13-Jun-23	Anticipated Jan-Mar 2024
<b>Round 1 Deadline</b>	31-Mar-23	29-Aug-23	TBA
<b>Round 2 Deadline</b>	TBA on Newsletter	TBA	TBA
<b>Workshops</b>	Posted Online ( <a href="https://opr.ca.gov/climate/icarp/grants/adaptation-planning-grant.html">https://opr.ca.gov/climate/icarp/grants/adaptation-planning-grant.html</a> )	Jun-Jul 2023	TBA
<b>Current Stage</b>	Posting of Rewards (May-June 2023)	Application Workshops & OH Available (Jun-Jul 2023)	Guideline Development (July-Sept 2023)
<b>Next Stage</b>	Round 1 Start (June 2023)	Applications Due date (August 29 2023)	Public Comment Period (July-Sept 2023)

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## Informational Items

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### 1. SB 1440 Biogas Procurement

- PG&E and SoCalGas solicitations

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## 2. Methane Review/Monitoring at WRRFs

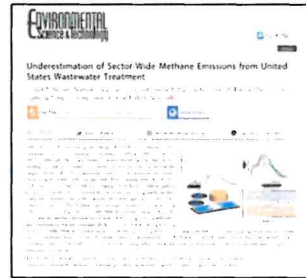
### 1. Methane Emissions from Municipal Wastewater Collection and Treatment Systems

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 3<sup>rd</sup>, 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 27<sup>th</sup>, 2023

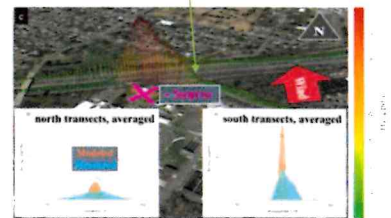


23

## 2. Methane Review/Monitoring at WWTPs

- Two Princeton methane studies led by Mark Zondlo and Z. Jason Ren
  - Two approaches → same conclusion
  - Overall Conclusion: CH<sub>4</sub> 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



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### 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

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### 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

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

- “Tier 5 Rulemaking”
  - Reduce NO<sub>x</sub> (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 CO<sub>2</sub> standards
- Proposal to Board expected by 2024
- Implementation to begin in 2028
- CARB has funded research projects to assess feasibility of lower NO<sub>x</sub>, PM, and CO<sub>2</sub> emission standards, as well as representative useful-life periods
- Last Workshop: June 27

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## Conferences/Events

- **WEF Circular Water Economy Summit (summary)**  
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)

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## Upcoming Meeting(s)

- August 24<sup>th</sup>

Thank you!





## CASA ACE Committee Bill Tracker 7/25/2023

[AB 43](#)

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

**Current Text:** Amended: 7/6/2023 [html](#) [pdf](#)

**Introduced:** 12/5/2022

**Last Amend:** 7/6/2023

**Status:** 7/6/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/5/2023-S. APPR.

**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. Existing 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 require 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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
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:** 7/3/2023-From committee: Do pass and re-refer to Com. on APPR. (Ayes 7. Noes 1.) (July 3). Re-referred to Com. on APPR.

**Location:** 7/3/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, 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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Refer to ACE Committee	Spencer	ACE

[AB 241](#)

**(Reyes D) Vehicular air pollution: Clean Transportation Program: vehicle registration and identification plate service fees: smog abatement fee: extension.**

**Current Text:** Amended: 6/26/2023 [html](#) [pdf](#)

**Introduced:** 1/13/2023

**Last Amend:** 6/26/2023

**Status:** 6/30/2023-Measure version as amended on June 26 corrected.

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

**Summary:** Current law, until January 1, 2024, increases the smog abatement fee on certain vehicles by a specified amount and requires the revenues generated by the increase to be deposited in the Air Quality Improvement Fund and the Alternative and Renewable Fuel and Vehicle Technology Fund. Current law, until January 1, 2024, increases vehicle registration fees and certain service fees for identification plates by specified amounts. Current law requires the revenue generated by the increase in those fees to be deposited in the Alternative and Renewable Fuel and Vehicle Technology Fund and either the Air Quality Improvement Fund or the Enhanced Fleet Modernization Subaccount, as

provided. This bill would extend the increases in those charges to July 1, 2035.

Position	Assigned	Group
Watch	Jessica	ACE

**AB 530** **(Boerner D) Vehicles: electric bicycles.**

**Current Text:** Amended: 7/13/2023 [html](#) [pdf](#)

**Introduced:** 2/8/2023

**Last Amend:** 7/13/2023

**Status:** 7/13/2023-From committee chair, with author's amendments: Amend, and re-refer to Com. on RLS. Read second time and amended.

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

**Summary:** Would prohibit a person under 12 years of age from operating an electric bicycle of any class. The bill would state the intent of the Legislature to create an e-bike license program with an online written test and a state-issued photo identification for those persons without a valid driver's license, prohibit persons under 12 years of age from riding e-bikes, and create a stakeholders working group composed of the Department of Motor Vehicles, the Department of the California Highway Patrol, the Transportation Agency, bicycle groups, policy and fiscal staff, and other relevant stakeholders to work on recommendations to establish an e-bike training program and license. Because the bill would prohibit certain persons from riding electric bicycles, the violation of which would be a crime, the bill would impose a state-mandated local program.

Position	Assigned	Group
Watch	Jessica	ACE, SLC

**AB 573** **(Garcia D) Organic waste: meeting recovered organic waste product procurement targets.**

**Current Text:** Amended: 7/13/2023 [html](#) [pdf](#)

**Introduced:** 2/8/2023

**Last Amend:** 7/13/2023

**Status:** 7/13/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/12/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, Chair

**Summary:** Current law requires 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, 2031, 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	Jessica	ACE

**AB 678** **(Alvarez D) Biomethane procurement targets or goals: core transport agents.**

**Current Text:** Amended: 7/13/2023 [html](#) [pdf](#)

**Introduced:** 2/13/2023

**Last Amend:** 7/13/2023

**Status:** 7/13/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/3/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, 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. If the commission adopts the biomethane procurement targets or goals, the bill would require the commission to authorize a core transport agent to have a gas corporation procure the core transport agent's proportionate share of biomethane in order to satisfy the biomethane procurement targets or goals, with all costs paid for by the core transport agent and any environmental attributes allocated by the commission in a fair and transparent manner.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
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:** 7/5/2023-From committee: Do pass and re-refer to Com. on APPR. (Ayes 5. Noes 2.) (July 5). Re-referred to Com. on APPR.

**Location:** 7/5/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, 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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Watch	Jessica	ACE

**AB 985**

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

**Current Text:** Amended: 7/6/2023 [html](#) [pdf](#)

**Introduced:** 2/15/2023

**Last Amend:** 7/6/2023

**Status:** 7/6/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/5/2023-S. APPR.

**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 Air Resources 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 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 state board, except as provided, to conduct an analysis of each credit identified in the San Joaquin Valley Unified Air Pollution Control District's ledger of available emission reduction credits to determine if any credits were issued in violation of state, local, or district laws, rules, regulations, or procedures in place at the time of original issuance, and to complete the analysis no later than January 1, 2027. The bill would require, upon completion of the analysis, the state board to submit a report to the Legislature that includes a summary of the results of the analysis.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Oppose, unless amended	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:** 6/26/2023-In committee: Hearing postponed by committee.

**Location:** 6/21/2023-S. APPR.

**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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Oppose	Jessica	ACE, Attorneys, SLC

**AB 1465 (Wicks D) Nonvehicular air pollution: civil penalties.**

**Current Text:** Amended: 7/13/2023 [html](#) [pdf](#)

**Introduced:** 2/17/2023

**Last Amend:** 7/13/2023

**Status:** 7/13/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/12/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, Chair

**Summary:** Current law prohibits a person from discharging from nonvehicular sources air contaminants or other materials that cause injury, detriment, nuisance, or annoyance to the public, or that endanger the comfort, repose, health, or safety of the public, or that cause, or have a natural tendency to cause, injury or damage to business or property, as specified. Current law establishes maximum civil penalties for a person who violates air pollution laws from nonvehicular sources. Current law provides that civil penalties for specified violations are to be assessed and recovered in a civil action brought by the Attorney General, by any district attorney, or by the attorney for any district in which the violation occurs. This bill would triple specified civil penalties if the violation results from a discharge from a stationary source required by federal law to be included in an operating permit program established pursuant to specified provisions of the federal Clean Air Act, and the discharge contains or includes one or more air contaminants, as specified. The bill would define "source" for this purpose. The bill would require, in assessing penalties, that health impacts, community disruptions, and other circumstances related to the violation be considered, as specified.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Oppose, unless amended	Jessica	ACE, 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:** 7/5/2023-From committee: Do pass and re-refer to Com. on APPR with recommendation: To Consent Calendar. (Ayes 7. Noes 0.) (July 5). Re-referred to Com. on APPR.

**Location:** 7/5/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, 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 bailing 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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Watch	Jessica	ACE

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

**Current Text:** Amended: 7/13/2023 [html](#) [pdf](#)

**Introduced:** 2/17/2023

**Last Amend:** 7/13/2023

**Status:** 7/13/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/12/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, Chair

**Summary:** Current law establishes the Air Quality Improvement Program that is administered by the State Air Resources Board for purposes of funding projects related to, among other things, the reduction of criteria air pollutants and improvement of air quality, and establishes the Medium- and Heavy-Duty Zero-Emission Vehicle Fleet Purchasing Assistance Program within the Air Quality Improvement Program to make financing tools and nonfinancial supports available to operators of medium- and heavy-duty vehicle fleets to enable those operators to transition their fleets to zero-emission vehicles. This bill would require any state regulation that seeks to require, or otherwise compel, the procurement of medium- and heavy-duty zero-emission vehicles to authorize public agency utilities to purchase replacements for traditional utility-specialized vehicles that are at the end of life when needed to maintain reliable service and respond to major foreseeable events, including severe weather, wildfires, natural disasters, and physical attacks, as specified. 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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Support	Jessica	ACE

**AB 1628 (McKinnor D) Microfiber filtration.**

**Current Text:** Amended: 7/13/2023 [html](#) [pdf](#)

**Introduced:** 2/17/2023

**Last Amend:** 7/13/2023

**Status:** 7/13/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/12/2023-S. APPR.

**Calendar:** 8/14/2023 10 a.m. - 1021 O Street, Room 2200 SENATE APPROPRIATIONS, PORTANTINO, ANTHONY, Chair

**Summary:** Would require, on and after January 1, 2029, that all new washing machines sold or 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, and bear a label with a specified consumer notice, as provided. The bill would require the washing machine manufacturer to provide a certificate of compliance with these provisions to persons that sell or distribute the washing machines in the state, as specified. The bill would prohibit a distributor or retailer that relies in good faith on that certificate from being held in violation of these requirements.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Support	Jessica	ACE, SLC

**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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
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:** 7/13/2023-From committee: Do pass and re-refer to Com. on APPR. with recommendation: To consent calendar. (Ayes 14. Noes 0.) (July 12). Re-referred to Com. on APPR.

**Location:** 7/12/2023-A. APPR.

**Summary:** Current law requires the State Energy Resources Conservation and Development Commission (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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
Watch	Spencer	ACE

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

**Current Text:** Amended: 7/12/2023 [html](#) [pdf](#)

**Introduced:** 2/16/2023

**Last Amend:** 7/12/2023

**Status:** 7/12/2023-Read second time and amended. Re-referred to Com. on APPR.

**Location:** 7/11/2023-A. APPR.

**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. Existing 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.

<b>Position</b>	<b>Assigned</b>	<b>Group</b>
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**SB 781**

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

**Current Text:** Amended: 6/28/2023 [html](#) [pdf](#)

**Introduced:** 2/17/2023

**Last Amend:** 6/28/2023

**Status:** 7/13/2023-From committee: Do pass and re-refer to Com. on APPR. (Ayes 10. Noes 0.) (July 12). Re-referred to Com. on APPR.

**Location:** 7/12/2023-A. APPR.

**Summary:** The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency responsible for monitoring and regulating sources of emissions of greenhouse gases that cause global warming in order to reduce emissions of greenhouse gases. The act 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 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.

**Position**

Watch

**Assigned**

Jessica

**Group**

ACE

**Total Measures: 17**

**Total Tracking Forms: 17**

July 18, 2023  
EESI – Clean Energy EXPO  
Craig K. Murray

Founded by Congress, now to give Congressional Staff Info. On tough answers to questions related on energy and events. [www.eesi.org](http://www.eesi.org) has resources that deal with issues and to help those staff do their jobs. Inclusive financing programs for rural communities today.

First Panel: Milwaukee Public School District Model: Plans long term out 20 years and can do more with less. DOE program to fit much smaller school districts. Byron King: Schools huge part of ESCA projects. State of NJ: 41k hired for Clean Energy.

Rural Communities. Jaime Jackson USDA. Pres. Lincoln signed into law in 1862 this Agency. PACE: \$1B program. July 10 open LOI. Up to 20% loan forgiveness, 40% Energy sector, 60% tribes and territories. Electric cooperatives: up to 25% of treasury loan. Stranded Asset up to 20%. REAP: \$2B. Loan Guarantee for communities 50k or less in population. Energy Efficiency for heating, cooling homes and ventilation. RESP: Bob Coates. DOE, EPA, Treasury and how to compare financing between agencies and by end of summer want to have a cross agency guide. NOFOs about 200 pages long and realize time for those to research and see what works for them.

Carrie Annand: BPA Biomass Power Association ERINs is crucial to us. Will do things like provide more capital for Carbon Capture of biogenic carbon and makes your source carbon negative v. other sources that may be carbon neutral.



From Fuels that can't be used for any other products. The Tree parts after lumber use such as top, trimmings and orchard use of trimmings. Biomass is getting something out of them to very end. Looking to PACE program for Biomass and 2008 Obama Stimulus to see growth of Sector. ERINs: Very Imp. To our industry. Electric RINs under the renewable fuel standard. 2007 Congress passed and electricity producer (like Ethanol producer now) producing vehicle fuel can get credit. RFS program imp. To generate credits and help industry be stable. EPA proposed program back in Dec. after many years of us pestering them. Grow Industry and Biomass Fuel needs dealing with and have access to fuel needed and USDA program. Biomass particularly prevalent in rural areas.

Keith Dennis BEL Beneficial Electrification League 2017 formed. Work with lot of electric coops in new ways to improve quality of life. Products wash clothes, AC now trucks, busses, space and water heating. Seeing now challenges and opportunities and wanting to see it successful with infrastructure and also



now investing in Roads and Bridges besides poles and wires. We get caught up with end thing such as Bus but lot of the support come from Rural America. Grid runners dealing with storms but not how to keep up with Federal programs. Grant program for busses deprioritized rural because needed certain number of busses. Working on USDA new era and Pace programs and rules come fast and need to explain to those in various states. New ERA and Pace program and if you can get then get power for 1 cent.

Aaliyah Nedd: NCBA CLUSA National Cooperative Business Association CLUSA International. Rep. Farmer and Food Cooperatives. Represent Cooperative priorities. Rural Savings Act by Congressman Welch such as Manufactured Housing isn't covered explicitly in program and making sure flexible and accessible to rural areas to leverage those resources.

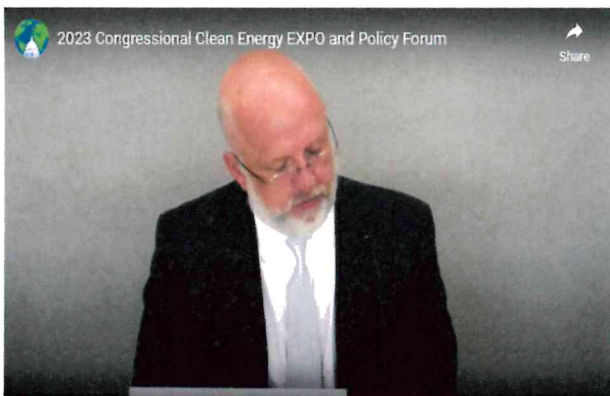


Rep. Jim Clyburn SC. Save My House program and how to save energy. Found out bills had a round up program (ie \$32.25 rounded up to \$33. And .75 into pot) and money go into a pot and members could draw to retrofit homes. Many instances trailer (manufactured) homes. Thought this was a go program and should be SC export. Came up with Rural Energy Savings Program and was trying to make it RESP ...ECT but only got the RESP and got it into law. Passed program without money for awhile and how things are done in Congress. Took 6 or 7 years. Roof sometimes needed insulation and some paying \$600-\$700 mo. In energy and put in insulation in roof and ground and found could repay loan from coop to its members. Calhoun County SC bill almost \$900./mo, borrowed and put in insulation and loan 2/3 of what paying before to \$600 including repayment of loan. Started out with just homes and now in businesses. Waiting for other innovative programs in this great country of ours. Need ways and means to make this country accessible and affordable to more people. Focus on young people in rural

communities. Guadalupe Island where really from but say Charleston but not wanting to say that and want to leave but these programs allow them to say where they are from and want to stay. Rep. Scott Peters San Diego (green tie) Look at Texas 85% renewables. We have a lot of work to do. Working on Transmission. Lose 80% of climate benefits w/o interregional transmission. Provides more reliability and not need to build more batteries. Worried about temps. In TX, AZ. Provides better prices. Critical minerals. Workforce issues to train up. Really committed in doing work on Transmission. Practiced env.law for 15 years. No is second best answer. Yes is best but no so don't jerk me around, bounce things back and forth. Looking at how to make these things faster. All said have 10 years to do and triple size of Grid in 30 years. New grid every 10 years. 18 years to permit transmission line from Wyoming to CA. National Env. Policy Act: can take 4 years to make sure gov. fully informed. Need one court review in CA and one in Minn. Need to rationalize. Geothermal and Offshore wind Nits need to look at. Get on plane each week from San Diego to DC. Energy: reliable, affordable so Keep dirty coal in ground.



Garrett Nilsen, DOE Deputy Director, Solar Energy Technologies Office. (yellow tie) 300k in Energy jobs now need 1.5 M workers in workforce to help meet 2035 goals.



Jason Walsh, Exec. Director, Blue Green Alliance: Union Jobs.2022 data shows gap in wages across fossil fuel \$96k v. \$65 Solar and \$64 Wind a year. Job retention and demand and supply of skilled workers. 1 in 4 workers are 55 years or older. And disproportionately white and male and look more like America and work force goals. Policy levers is DOE incentivizing with training partnerships, apprenticeship programs, wage floors (prevailing wages) and focus underrepresentative, form unions for better conditions and anemic labor act and Congress pass the PRO act. Worker centered and meets skilled needs of businesses. Lynn Abramson CEBN booth with colleagues and free resources and congressional staff to share. Funding database workforce and loan programs searchable by technology and workforce. Blogs and events to share resources. R& D expenditures for 60 years could expense upfront, now not and

encourage Congress to co-sponsor bill. Charles Bolden (pink tie)(lobbyist) SEIA Solar Energy Industries Assoc. : View of venue. Small roof top and large solar representative. 31% female 69% male 9% Asian, 9% black,73% white in solar industry. Reach our diversity goals. Unable to reach goals unless diverse.



Garrett: Need to repatriat jobs in manufacturing. Jobs 1 or 2% energy related but could be fire marshalls, building code. Eg battery fire in New York and Fire Officials response to shut down any placement in NYC. Diveristy of how and where deployed and how in each enviroment and number of jobs that cascade and millions of jobs such as building out the grid. Jason: Electrician Natural gas combined plant is same as wind turbine but downside of narrowly tailored skills. Electrician in Fossil Fuel ~ \$95k.year v. \$75k solar so lets get skill sets broadest as possible. Garrett: Jobs v. Career. Career is compilation of jobs. Understand how pathways work for a broader career.



Ron Wyden, OR (no tie) Wife owns Strand Bookstore in NYC and his documents in her store. Cap and Trade, Credits eliminated. Tax Code. Billions allocated foolish even by DC Standards: Tax extenders example with shelf life of carton of eggs. Take tax code and all 44 provisions and throw into trash can. 300B to 500B investment. Technicalogical neutrality. Reduce carbon emissions, more reduce bigger savings. Main thing didn't get was transmission capability. See young people in audience. Help us reach underserved communities. One of most impnt. Things done in public service. Went to school on Basketball scholarship and always sat in back to not get asked questions. Great to have the energy but what does it mean if can't get to anybody. Two issues: Transmission and permitting working on, fast track the IRA to clean energy. ? Are foreign countries eligibile for tax credits. A: High wage jobs in America. This is our path to innovation. Innidium Redux batteries better scale. Wyden: Seen Canadian proposal but can't get arms around how many jobs. Interested if can't get to spirit of what trying to do. In OR have townhall mtgs. In every county but keep saying what's next. Finance Committee can I get home loans. Big disconnect in America. Direct Pay features: local gov. don't pay taxes and want to get help to them so they can get direct pay from the Treasury. RTO Insider journalist. Bay of Pigs and picture of Peter Wyden (Dad) with Castro. This is about Clean Energy, Transportation and Efficiency. Daniel:

remember when it was clean energy efficiency act. Toward the Energy System of the Future Panel. Mandy Mahoney, Director Building Tech Office US DOE. How buildings drive inclusion goals of this administration. Building energy use still eclipses transportation in energy use. So many buildings we inhabit are sub standard. Safety and reliability of persons in it. Unhealthy buildings to be in. One solution working on is cold climate heat pumps. Bipartisan Infrastructure law: \$225M for building codes for higher quality buildings going to 27 entities States and tribes. Training so people know how to. Lisa Jacobson, BCSE Bus Council Sustainable Energy.: We did get landmark leg. Enacted. Malcom Woolf, National Hydropower Association (NHA), Hydropower does not use up water, runs through the facility. Provide 7% and 30M Americans 80GW of carbon free hydropower and already on grid. Care because climate and keep those facilities going, 24/7 reliability. Having energy storage for variable wind, solar or traditional plant trips offline. Care b/c essential grid services and needing other forms. Black start: how to start up after grid shut down. New gigawatts: we can get 50 new gigawatts only 3% dams are powered, lot of potential with existing infrastructures. ½ non federal fleet, 7.6 years to relicense. Facilities question to relicense or just surrender and we will go backwards. Sntr. Danes and Cantwell have new license reform bill and imp't to get addressed. Sntr Cantwell and Murkowski on dam safety, infrastructure. Tribal bill for dam removal and new dams.

Ralph Cleveland: AABE American Assoc. of Blacks in Energy. Engineering: Tend to focus on Technology. But how people behave in system and supply chain. Started in 1977 during Carter Administration and no people of color in conversations about Energy. In midst of this energy transition and want to provide as much insight to what infrastructure means to our communities and its impact. Diversity, Equity and Inclusion. How do you leverage Diversity (tensions and complexities) to get the highest performance. Bill Parsons American Clean Power and EESI Advisory Board. ACP trade assoc. wind (on and offshore), solar. At 15%. Intermittant is not same as unreliable. Some areas of county using 50% renewables. 60% wind almost entirely onshore, 3% storage. Solar will overtake wind as most popular technology in 10 years. Green hydrogen, storage and offshore wind massive opporutnities for growth. There was a time to tax polluting energy. Green hydrogen does not exist to scale. 99% from natural gas v. electrolizer to split off hydrogen (expensive) and account for utilization rate so not siting around idle. Question if this industry can launch. Additionality to supply new clean electrons to the grid. Differences in Node and your wholesale market that you live. Time matching and how quickly can move to hourly time matching. Go to EPA website on gas emissions: Steel, cement, long haul trucks. 15% of emissions today. If want to get to then need to stand up green application for those industries. Misti Groves CEBA Clean Energy Buyers Association. CEBA. Future Energy is Opportunity but we will talk about hinderances but it is opportunity. 68GW contracted by US Businesses that produce things before the trio of legislations in investing in America. CEBA: 430 members, mostly US and energy and service providers, NGOs and thought leaders. Many expenses energy is behind payroll makes good business sense. Many companies want to be in charge before being told how to. Trends: See increased electrification (prepare); decentralization; digitization (data access. Can't control what you can't measure). Energy customers need market access. Large swaths of US can't do it. Transmission: permitting principles. Parsons: Integration of Long Haul

Transmission lines, integration and permitting.



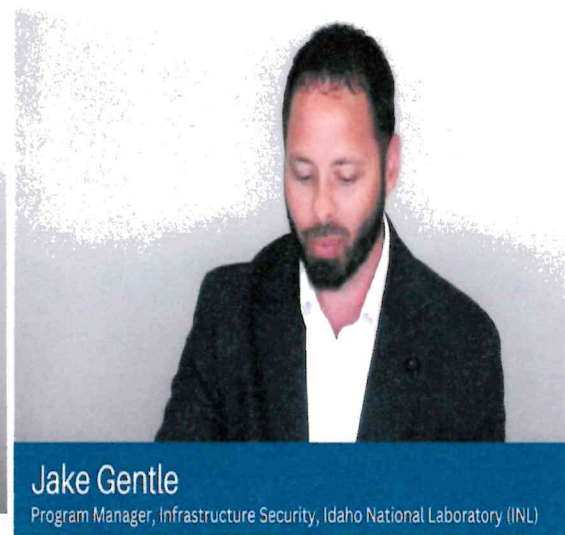
Malcolm Woolf: President CEO National Hydropower Association (NHA) Need permitting reform. Relicense hydro is longer than relicensing a nuclear facility. If have to first build then get counted and don't think discrimination of existing facilities of zero carbon now. We don't require additionality before an electric car is sold, don't delay with additionality. Cleveland: We will continue to see Polarization as we see today if we don't see Justice. Greater inclusion and that sort of thing need to put people in front of them that look like them because what you see is what you can be. About scholarships and how to enter the pathways. How to create an awareness and limited resources. Parsons: Lot like let a 1,000 flowers bloom. It is smart business. Not ever issue will be solved by the Govt. Started program for women to get loan, tax investment and four of the accelerated members got an investment. Apprenticeship program will be impt. Ladders for those looking for higher level job. We allowed our industrial base to be offshored. Manufacturing renaissance in clean energy space now. Was 18 and now 74 in less than a year. Go to [cleanpower.org](http://cleanpower.org) web site on investing in America.

Senator Mike Crapo Idaho, Co-Chair, Senate Renewable Energy and Energy Efficiency Caucus (Senator Reed Co chair and Armed Services Committee). Idaho: 80% fuel from: 60% hydropower, 20% renewables. Bipartisan infrastructure law, climate solutions act Ag users to sequester carbon. Reduce emissions, improve soil health and operations more affordable. Daniel: April 19 briefing on adv. Nuclear technologies. His staff is awesome.



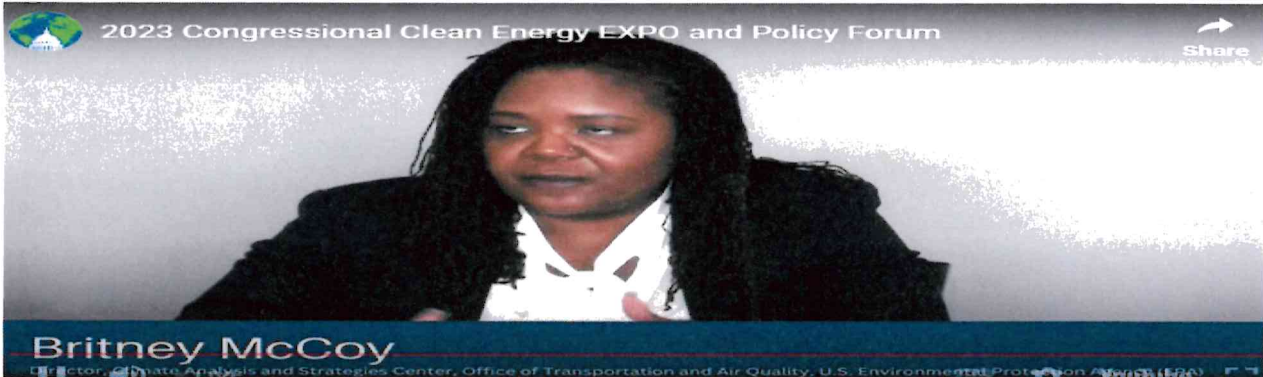
Clean Energy and National Security Paul Farnan, (purple tie) US DOD Deputy Asst Sec for Army Installations. Battelfield. Less fuels to be used, anti idle kits, army not going to electify tanks now. By

2050. On battlefield, need to run engine to run the electronics in tank. Turn engine off reduce noise and heat also how the enemy finds you. Remote areas powered by diesel. Half casualties to take with less moving of fuel. We never fought in contested homeland, expect first our grid to go down, if power comes outside the fence line we are vulnerable. Most generators conk out in day or two. Pipeline vulnerable, renewable generation is needed.



2022: Solar 2.4%, Nuclear 18%. Solar expected to triple by 2028. Ensure reliability. PPP and INL with secure renewables workshop. Jennifer Schafer- Soderman FPCC, Energy service companies to do work with federal government. Performance Contracting. How fed govt get something for nothing. Hunting license with federal government to get financing, installations, hire contractors, guarantee savings will occur. How to get more for less – performance contracting. Energy resiliency program. DOE affect grant program 40:1 dollar leverage and that program in IIJA. GSA has that program. Fed. Govt. does not have program like state and local and IESCO.

Jeremy Harrell, ClearPath. Accelerate Policies in DC to take on global energy and climate change. US reliant on critical minerals and China is the leader. Secure Energy needs for USA. Farnan: Forces need to operate from Fort Drum, locations here. War will start here. There is no difference between the community and the installation. If community is not working then the installation is not. Community and Installation needs to work to get the 82<sup>nd</sup> airborne to the Battlefield. Farnan: Army has At least dozen microgrids on facilities and another 20 planned. Energy Managers are (only) GS 12s and need installations funding w/moldy barracks. Cyber and AI, dumb chargers, smart charges, solar, microgrid. Aware of it but not sure how to address it. Harrell: Alton AFB in Alaska developing micro reactor. ID looking to forward deployment with RD&D programs. Accelerating Sustainable Transportation Panel



Britney: EPA. 12k busses incl. propane and cng busses for first \$1B. \$4B to be available. Fleet analysis and route planning. Achieving net zero by 2050. EPA and HUD signed a letter to make sure it is affordable and equitable for clean, safe, secure, accessible and equitable. How and why we move people in a Blueprint. EV through effective communication, EPA trends report and green vehicle guide launched in 2001. Comparison tool to compare EV to gasoline vehicle. Genevieve Cullen, EDTA Electric Drive Transportation Association. Cross industry trade association on anything electric to move the wheels incl. utilities, suppliers and builders. Have to build a whole ecosystem. Inflection Point. EV 10.5M to 27 M by 2026 in sales. 3.8M vehicles sold since 2010. US Sales in passenger sales expected 7.6% in 2022 to 20% by 2026.

Chris Bliley, Growth Energy, 10.5% of gasoline supply is made with Ethanol. We will need sustainable legacy for biofuels despite growth of EV cars. GHG and criteria pollutants sigf. Reduced. E15 is in 3200 locations. Pushed EPA to move Octane higher to achieve decarbonization goal. How to decarbonize harder sectors: Aviation, Marine. Over 1 Billion gallons of Aviation fuel. Capital investments can't be made until the policy decisions have been made. Fuel made here in US and can be used in vehicles today, tomorrow and Aviation and Marine. Art Guzzetti, APTA American Public Transportation Association. National Association of Transportation Systems. Reduce GHG by 50% by 2030. Transportation is heavy emitter. 800 people to gather in Anaheim in 2 weeks to review sustainable transportation. Land development patterns that have favored automobile transportation. Federal Transportation Trust Fund allows to invest in time frame. Electrified busses have range issue, therefore need more busses. Battery and fleet procurement and fleet maintenance are all issues.

Daniel: EESI just published heavy duty vehicle fact sheet; Sustainable Aviation Fuels (Jeff Overton).

###

## Marin County Special Districts Association

*An Organization to propose and advocate constructive means for the improvement and functioning of Special Districts within the County of Marin, State of California, and to assist such Special Districts and their governing bodies to provide a more effective and efficient government at the closest level to the citizens of Marin County that will result in benefit to the public.*

### MCSDA Executive Officers Meeting Minutes

**DATE/TIME:** February 9<sup>th</sup>, 2023, 2:30PM

**LOCATION:** Via Zoom Recording available [HERE](#) or at: <https://marinsda.specialdistrict.org/>

**PRESENT:** Officers: President Bill Hansell, District Manager, Alto Sanitary District  
Vice-President Lew Kious, Board Director, Almonte Sanitary District  
Treasurer Crystal Yezman, Las Gallinas Valley Sanitary District  
Secretary, Garrett Toy (absent)  
(Past President/Officer-At-Large seat not filled)

Speakers: Marin County Supervisor Mary Sackett, District 1  
Marin County Dept of Public Works Director Rosemarie Gaglione  
Rick Brandis and Nicki Tallman, Brandis Tallman  
Jason Fried, LAFCo Executive Officer  
Colleen Haley, CSDA Public Affairs Field Officer

Others: Marin County Special District Managers and Board Directors

#### 1. CALL TO ORDER/ROLL CALL (Video Time Stamp 00:00:09):

Hansell called the meeting to order at 2:30PM.

Kious/Hansell/Yezman present.

#### 2. ADOPTION OF CONSENT CALENDAR (Time Stamp 00:02:25):

Bill Hansell gave a brief overview of the 11/10/23 meeting mentioning that Supervisor Moulton-Peters was a guest speaker. Motion to approve the 11/10/23 meeting minutes.

**M/S:** Kious/Yezman, Ayes: 3 Nays: 0

#### 3. UPDATES/PRESENTATIONS (Time Stamp 00:04:32):

##### 3a. Marin County Supervisor Mary Sackett, District 1 –

Supervisor Sackett discussed her new role with the County and her desire to learn how to best collaborate and to efficiently communicate with the many special districts regarding projects and issues of mutual interest (e.g., street paving). Various District Managers spoke and indicated they appreciated the ability to contact her or her aides directly if they could not resolve issues with County staff or if County staff is non-responsive. Similarly, the Supervisor and District Managers agreed that the preferred approach is for the Supervisor to contact the District Managers directly regarding any issues that has been brought to the County's attention regarding a district. If district staff is non-responsive, then it would be ok for the County to contact Board members, but it most likely would not get to that point.



Supervisor Sackett also shared her priorities which are meeting state housing mandates, ensuring new developments are more environmentally conscious such as all-electric and use of recycled water (purple pipe), and addressing climate change/sea level rise. She indicated she would provide her as well as her aides contact info to Bill.

- 3b. Marin County Director of Public Works Rosemarie Gaglione** (Time Stamp 00:29:07)- County DPW Director Gaglione expressed a desire to have open lines of communication between County staff and the special districts which regard to projects that overlap such as sewer line replacement/repair and County road projects. District Managers said relationships with DPW staff has been better lately, but we need more certainty when it comes to road repair requirements and more flexibility with regard to sewer line repair and road moratoriums. Director Gaglione agreed that the County should not change the pavement requirements after discussions with the Districts, especially after projects have gone to bid. However, she did indicate that weather and unforeseen field conditions are mitigating factors that could necessitate changes to pavement requirements. That being said, she indicated that she would like to create a “utility coordination group” that would meet periodically to discuss overlapping projects to address these issues and enhance lines of communication between the districts and County staff. She also suggested that if there is a last-minute change to County paving requirements affecting a special district, it would be helpful to know the “who, when and why” so she can better understand and address the issue. This is not intended to “throw anyone under the bus.” The district managers thought the “utility coordination group” was a good idea.
- 3c. Rick Brandis & Nicki Tallman w/Brandis Tallman, a Div. of Oppenheimer & Co** (Time Stamp 00:52:16)- They provide financing services to CSDA members as an affiliate to CSDA and run the California public finance division of Oppenheimer. They are one of the financial consultants to the CSDA Finance Corporation. They are also the bond underwriter and placement agent for the CSDA Finance Corporation. They provide full-service financing services for equipment, vehicles, facilities, and/or infrastructure needs for special districts. If we are interested, they are willing to host a luncheon to discuss their services in more detail.

#### 4. INFORMATIONAL ITEMS:

- 4a. LAFCo Update by Jason Fried** (Time Stamp 01:09:28): Jason indicated that nominations are being accepted for the special district seat on LAFCo. Jason indicated that your respective Board must nominate you for LAFCo. L. Kious indicated he wanted to continue as the regular Special District representative on LAFCo. Jason also indicated that comments were due on the Golden Gate Municipal Service Review (MSR) by the end of the month.
- 4b. CSDA Update on Legislation Opportunities by Colleen Haley** (Time Stamp n/a): Colleen Haley provided a brief update under 3c. She discussed SB557 which was the one-bill CSDA was sponsoring this year. SB 557 would extend the ability of Special Districts to continue with remote meetings by declaring state of emergencies every 45 days. She also requested that Districts consider sending in letters/resolutions opposing the proposed Business Roundtable Initiative which would limit the amount of taxes/fees

Special Districts could collect for its services.

- 4c. Chapter Officer Selection** (Time Stamp 01:14:37):  
L. Kious and B. Hansell indicated they were willing to continue in their roles as Vice-President and President, respectively. No one in attendance expressed a desire to serve in those roles, so they will continue in those roles for the next fiscal year. The other Board positions will be discussed at the next meeting.
- 4d. Member Round Robin/Networking** (Time Stamp n/a):  
Due to the shortness of time, we did not do the roundtable.
- 5. Board Requests – Future Meeting Dates** (Time Stamp 01:17:24):  
There was a discussion regarding the purpose of Executive Officer meetings and general meetings. Both meetings are open to all district managers and their Board members. However, it can be confusing who should attend, but the overall goal is to expand membership and attendance. We will discuss it more at a future meeting. Colleen stated that some Chapters have Executive Committee meetings between general meetings for the discussion of the topics for the general meetings. Colleen and Bill clarified these Chapter meetings are not subject to the Brown Act. Also, so we can continue to meet remotely.
- 6. ADJOURNMENT** (Time Stamp 01:21:00):

These minutes were prepared by Garrett Toy and approved at the MCSDA Meeting of July 24<sup>th</sup>, 2023.

Attest:

\_\_\_\_\_  
Secretary of the Board



## 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.

**8/17/2023**

**BOARD AGENDA ITEM REQUESTS**

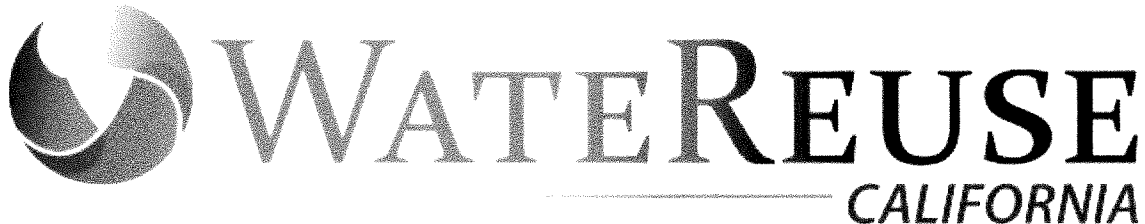
**Agenda Item 7B**

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

**Teresa Lerch**

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**From:** WaterReuse California <info@watereuse.org>  
**Sent:** Friday, July 14, 2023 8:18 AM  
**To:** Teresa Lerch  
**Subject:** California Alert: Water Board Releases Draft Direct Potable Reuse Regulations



### **Water Board Releases Draft Direct Potable Reuse Regulations**

This week the California State Water Resources Control Board (Water Board) released an advanced copy of the highly anticipated Direct Potable Reuse (DPR) regulations. The 45-day comment period and Administrative Procedures Act will formally begin on July 21. The Water Board is planning to conduct a workshop on the regulations on Thursday, September 7, with final approval planned for the second week in December.

The WaterReuse California (WRCA) Direct Potable Reuse Working Group has been guiding the development of these regulations for the past two years and has made significant progress. WRCA is currently analyzing the regulations and comparing them to the June 2022 version and will hold an informational briefing for members soon. Below are some preliminary observations:

- The draft regulations provide new flexibility in specific sections. Of note, they now define pathogen control credits for DPR projects using reservoirs, groundwater aquifers, and blending. WRCA requested these modifications to help differentiate the public health benefits provided by raw water augmentation and treated water augmentation projects that use these features.
- WRCA requested a broadening of the "alternatives clause" to cover more than the chemical control criteria. The Water Board did not include a broad-reaching clause.
- Regulations continue to require each DPR project to conduct a quantitative risk assessment on chemical contaminants despite WRCA's request to assign a single entity responsible for uniform guidance on chemical monitoring for DPR.
- The draft regulations allow greater flexibility in Biological Activated Carbon design. Projects can either use a default 15-minute empty bed contact time, or propose an alternative based on the results of pilot testing.
- Modifications to the monitoring requirements include a reduction in the frequency of Total Organic Carbon measurements from once every 5 minutes to once every 15 minutes.
- The initial review suggests that sewershed surveillance within the collection system may now not be a requirement. It appears that DPR projects can monitor for chemical peaks at the treatment facilities instead. This is still under review.

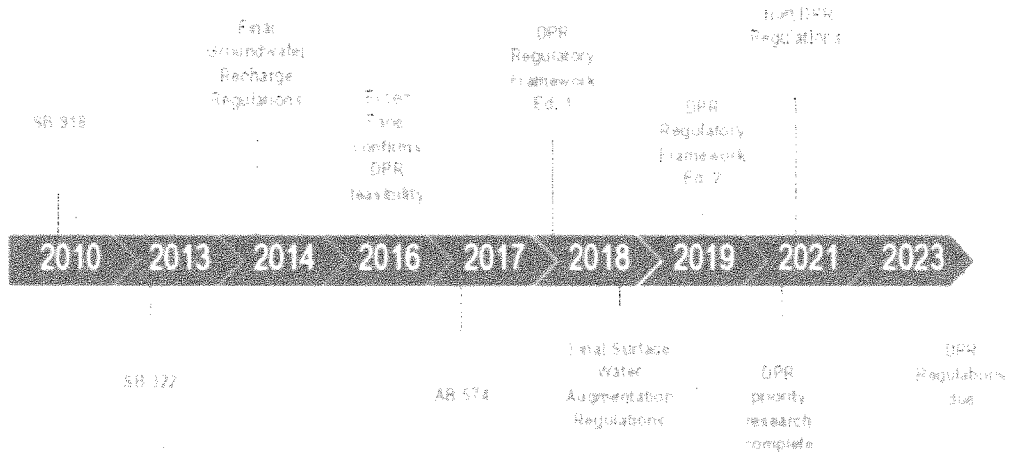
For more information, please contact Jennifer West at [jwest@watereuse.org](mailto:jwest@watereuse.org).

## A Brief History of the Journey to Direct Potable Reuse

WaterReuse California and our member agencies have been working on the development of direct potable reuse regulations for 13 years, and we're looking forward to continuing to advance direct potable reuse going forward. The image below outlines some of the key legislative and regulatory steps that we have supported since 2010.



### The Path to Direct Potable Reuse



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WaterReuse  
 610 Madison Street, Suite 101  
 Box 621  
 Alexandria, VA 22314  
 United States

## Scaled-back subdivision has survived long process

County planning panel gives plan first approvals

BY RICHARD HALSTEAD

[RHALSTEAD@MARINIJ.COM](mailto:RHALSTEAD@MARINIJ.COM)

A major San Rafael housing development plan that has been in the pipeline for decades is finally coming to fruition in a scaled-back form.

The Marin County Planning Commission approved precise development plans Monday for seven new homes at a site northeast of Lucas Valley Road and east of Las Gallinas Avenue. The site is accessible by Erin Drive.

Haven Development plans to build residences ranging from 2,378 square feet to 2,477 square feet. Each will include an attached accessory dwelling unit, or ADU, of 738 square feet to 794 square feet. The developer has already begun work on subdivision improvements and building pads for the project, known as Oakview.

Haven has secured all but the precise development approvals for 21 more homes on the 15-acre site and plans to return to the Planning Commission in August to secure those. The county required that six of those homes be priced as affordable to low-income families.

"This is the largest residential subdivision the county has had in 20 years," longtime planning commissioner Don Dickenson said at the hearing Tuesday.

Nevertheless, the project is just a shadow of what was once envisioned by Virginia Daphne and Edward Bacciocco, who owned the 106-acre property that included the parcel.

"They proposed 108 single-family homes entirely on the ridgeline," Dickenson said.

An earlier version of the project also proposed two office buildings of a combined 94,440 square feet. That part of the plan has also changed, replaced by a 126-residence senior living complex and five affordable residences.

Although approved by county supervisors in 2018, the seniors' project is just now seeking building permits.

"They are beginning construction soon," Marin County Planning Manager Jeremy Tejirian said Tuesday.

Dickenson said, "This project has been around longer than any other project in the history of the county."

When Daphne and Bacciocco first proposed developing the property in 1983, it was within the sphere of influence of the city of San Rafael and would have had to be annexed by the city. In 1989, however, San Rafael waived annexation after reaching an agreement with the county that called for a mitigation fee to pay for improvements to the Lucas Valley Road/Los Gamos Drive/Highway 101 freeway interchange.

In 1995, the property owners applied to the county for a master plan and proposed subdividing the site into two parcels for homes and office buildings.

"I started working for the county in 1999," Tejirian said, "and at that point the Oakview master plan was known as the county's longest running application."

While an environmental impact report was being prepared for the plan, the property owners twice revised their application. When the master plan was approved by county supervisors in 2005, it called for subdividing the property into two parcels.

One parcel reserved about 15 acres for a maximum of 28 single-family residential lots and 34 acres for open space. The other parcel designated 11 acres for a maximum 94,400-square-foot assisted living center, about 35 acres for open space and nearly 9 acres for freeway interchange improvements.

When county supervisors approved the final plans for the senior living facility in 2018, they authorized two amendments to the master plan. One amendment increased the maximum floor area of the residential care building from 94,400 square feet to 101,794 square feet; the other reduced the maximum number of seniors' residences from 150 to 126.

Dickenson said the lengthy deliberative process resulted in a number of public benefits.

implemented to compensate for impacts to native grasses and heritage oaks on the property as well as wetlands restoration. Also, the county mandated 11 affordable homes between the two projects plus at least five ADUs.

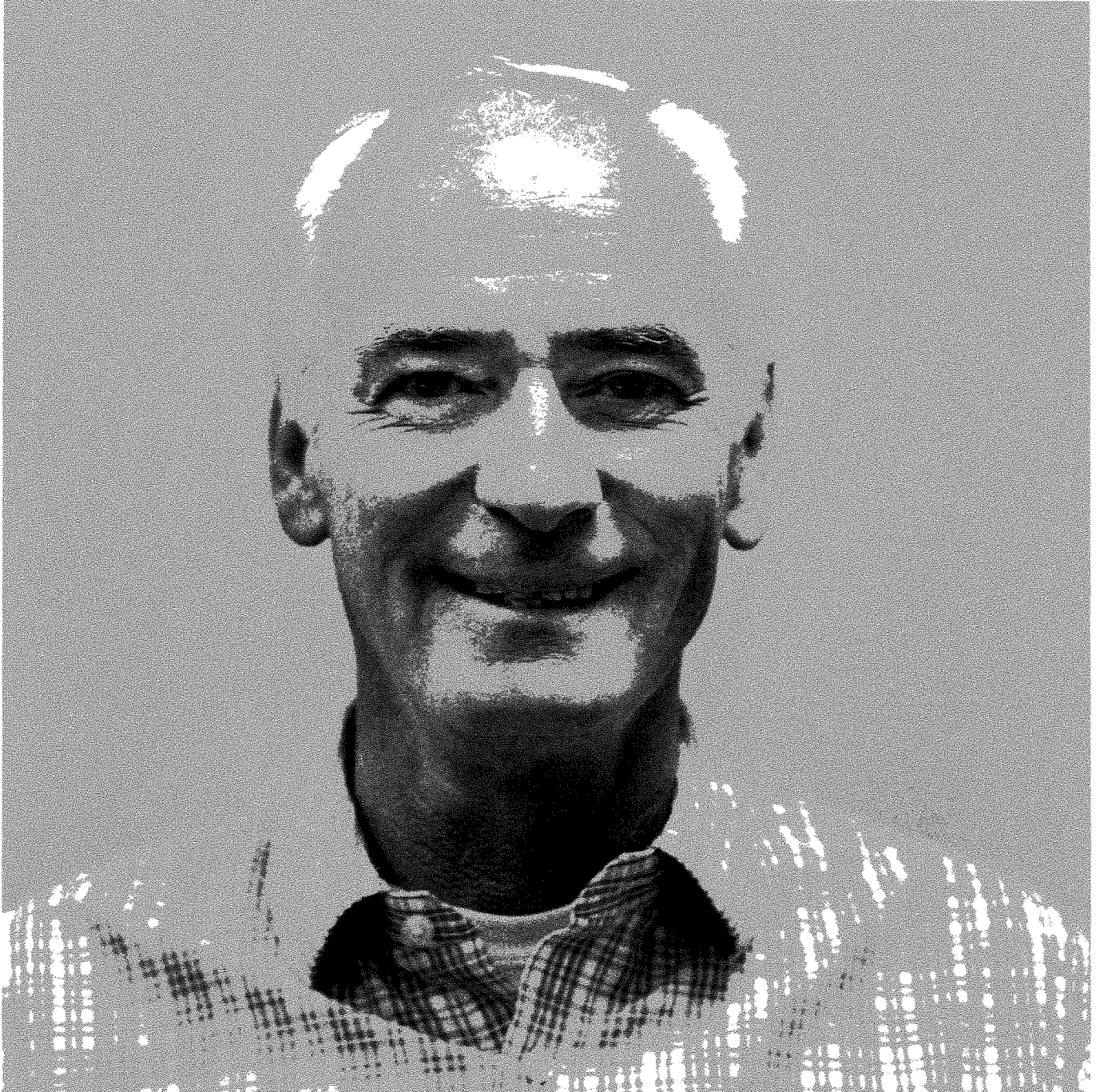
By choosing to provide ADUs with each of its first seven single-family homes, Haven has already exceeded that requirement. Planning commissioners noted that younger couples could rent the ADUs out for extra income, use them as an extra bedroom as their families grow and, when they are older, live in them while renting out the main house.

"It's an interesting design approach to accommodate changing circumstances," Dickenson said.



NOVATO

## Council appoints interim manager for public works



BY WILL HOUSTON

[WHOUSTON@MARINIJ.COM](mailto:WHOUSTON@MARINIJ.COM)

Novato has appointed an interim public works director — a familiar face around the city — as it prepares to search for a longer-term replacement.

The City Council voted unanimously this month to confirm the appointment of Chris DeGabriele, a former North Marin Water District general manager, as interim director for at least the next six months.

DeGabriele will replace Chris Blunk, who stepped down in June after being hired to head the engineering division at the Marin County Department of Public Works. Blunk is set to begin the job in August, according to public works spokesman Julian Kaelon.

DeGabriele headed the North Marin Water District for 22 years before retiring in 2017. He has also worked two stints as interim general manager for the Las Gallinas Valley Sanitary District in San Rafael. Novato plans to pay him \$97.46 an hour, with costs not to exceed \$101,358, according to a city staff report.

City Manager Adam McGill said it is premature to state whether the city will search for a longer-term replacement internally or as part of a nationwide recruitment.

"I don't expect us to formally launch until late August at the earliest as summer time is difficult to recruit in," McGill wrote in an email on Friday. "We should have someone on board by the end of the year."

Blunk was public works director for four years. He previously worked as a deputy public works director for Novato for two years and as a Caltrans engineer for 10 years.

During his tenure, Blunk oversaw several large projects, including upgrades to Rowland Boulevard near the Vintage Oaks Shopping Center, the completion of the Hill Recreation Area upgrades and the construction of a city-sanctioned camp for homeless residents in Lee Gerner Park, among other projects.

At his last City Council meeting in June, council members praised Blunk for his abilities in public outreach, maneuvering amid budget constraints and clearly explaining complex projects.

"There's not a person in the community who couldn't say that he is top drawer and done an amazing job," Mayor Susan Wernick told Blunk during the meeting.

"Chris has been the best public works director the city has had since I've been on the City Council, even before the City Council when I was on the Planning Commission," Councilmember Pat Eklund said.

SAN RAFAEL

## City sets next hearing on mall redevelopment plan

BY ADRIAN RODRIGUEZ

[ARODRIGUEZ@MARINIJ.COM](mailto:ARODRIGUEZ@MARINIJ.COM)

A major proposal to redevelop the Northgate mall in San Rafael is returning to the court of public opinion.

The San Rafael Design Review Board will host its second in a series of public hearings at 6 p.m. Tuesday to dissect the proposal, which calls for more than 1,300 new residences and a mix of shops and restaurants at the 45-acre site in Terra Linda.

The session will focus on the site plan, pedestrian and bicycle circulation, landscaping and the architecture of the commercial buildings. The board will hear public comments and offer its own.

Deliberation on the residential aspect of the project is set to be discussed at a separate meeting, city planner Jeff Ballantine said in an email.

“San Rafael understands that the scope and scale of this project is very important to the community,” he said. “For that reason, city staff anticipate that the DRB will need at least three meetings” to consider the plans.

Merlone Geier Partners, which bought the property in 2017, calls the proposed development “Northgate Town Square.” The plan is slated to be completed in two phases because its such a large-scale project.

If all goes accordingly, developers plan to construct a majority of the housing beginning in 2025. The second phase is set to begin in 2040. Overall, the project aims to mix transit-oriented housing with community space, retail and restaurants.

The project first came to the Design Review Board in May 2022. The Planning Commission weighed in on the project at a hearing in November.

The project received mixed reviews from the community. Housing and sustainability advocates cheered the plan. Critics, mostly neighbors of the site, said some buildings would be too tall for the residential neighborhood and worried about traffic and noise.

The project has undergone several iterations, each influenced by comments from community members and public officials. In the latest revision, the project team has enhanced its bicycle and pedestrian paths throughout the project, said Ross Guehring, a spokesperson for the developer.

The new features would separate people on foot and bikes from motorists. Paths would be raised onto sidewalks connecting to a 50,000-square-foot outdoor space that would feature a park, a dog park, an outdoor movie screen and an area for concerts and special events.

The project now involves 100 townhomes, up from 85, to increase ownership opportunities. Guehring said they include 10 smaller “affordable-by-design” homes. The offerings are designed to meet the needs of entry-level buyers or people seeking smaller quarters, Guehring said.

“Over the past two years, we have continued to make enhancements to the project based on feedback from residents and community groups,” Guehring said.

“Our outreach has effectively shaped the redevelopment plan, including our latest revisions that will make Northgate Town Square into the most bicycle and pedestrian friendly development in Marin,” he said. “We are eager to move forward with this substantial investment to revitalize Northgate into a mix of new housing, retail and community amenities.”

The board meeting will be held at San Rafael City Hall at 1400 Fifth Ave. The session will also be livestreamed. More information is online at [shorturl.at/egrAW](https://shorturl.at/egrAW).

Meanwhile, an environmental review of the project is underway. The draft environmental impact report is expected to be released this fall.

LAS GALLINAS VALLEY

## Sewer district hikes rates for capital improvements

BY ADRIAN RODRIGUEZ

[ARODRIGUEZ@MARINIJ.COM](mailto:ARODRIGUEZ@MARINIJ.COM)

Las Gallinas Valley Sanitary District customers saw sewer rates go up 11% this month, marking the first jump in an approved four-year rate hike plan.

The new annual rate, which started July 1, rose from \$1,122 to \$1,233 per single-family home. The \$9.25-a-month increase affects some 30,000 customers in northern San Rafael and at the Marin Valley Mobile Country Club in Novato.

The plan was approved at a special meeting on June 30 to enable the district to continue funding long-term capital improvements, including a multimillion-dollar renovation of its headquarters at 300 Smith Ranch Road. The approval allows the district board to seek a maximum increase of 10% each year through the 2026-27 fiscal year.

Multifamily residential customer rates are adjusted to 90% of a single-family customer. Non-residential customers' sewer service charges are calculated based on variable water use and estimated sewer strength.

For the first year, the new rate is expected to increase revenue from \$17.1 million to \$18.9 million.

"This is what we believe we need in order to generate the revenue to continue serving our community," said Curtis Paxton, general manager of the district.

The district operates a system comprising about 105 miles of gravity sewer lines, 6.7 miles of force mains and 28 pump stations. It is one of two full-service sanitary districts in Marin. The State Water Resources Control Board has ordered the district to complete a sewer system management plan, which summarizes the inventory and condition of the district's network. Some of the proposed capital projects were born out of that assessment.

Paxton said that over the past four years the district has focused on the \$68 million upgrade of its treatment plant, which was completed last month. The project increased the plant's secondary treatment capacity from 8 million gallons to 18 million gallons per day, improving reliability during extreme weather events.

"Now we're going to focus on improvements on our sewer collection system," he said. "We also have an aging admin building that was constructed in the 1950s and is due for a rehab, remodel, replacement."

The headquarters remodel will be done in segments and financed through debt services expected to be between 20 and 30 years. The project site is between the bay and McInnis Park. Plans call for the 15,000-square-foot operations center to be tucked into the hillside that separates the property from the park.

The center would house the control room for the wastewater treatment plant, a laboratory, administrative offices, conference rooms and a classroom on the top floor that would be made available for public use. A new corporation yard and a one-story carport maintenance building are also part of the project.

The district expects to spend about \$7.5 million on a new laboratory, \$12.5 million on the administration building and about \$5 million on the corporation yard.

Another major project is the \$15.2 million the John Duckett pump station and sewer rehabilitation project near Gallinas Creek and Highway 101.

On average, the district plans to spend about \$18 million a year on capital improvements through fiscal year 2030-31.

At the June 30 meeting, board member Crystal Yezman thanked staff for their work to bring forward an agreeable plan for the board to consider.

“When they first came to us with rate proposals, it was close to 20%,” Yezman said. “We as a board said no, that’s not going to fly, and you need to go back to the table.”

“They worked really hard to adjust the capital program so that the spending was stretched out in order to pay for it,” she said.

More information on the new rates is at [bit.ly/3XYr84U](https://bit.ly/3XYr84U).

## Board: Northgate proposal short on community space

BY ADRIAN RODRIGUEZ

[ARODRIGUEZ@MARINIJ.COM](mailto:ARODRIGUEZ@MARINIJ.COM)

The San Rafael Design Review Board said a proposed overhaul of Northgate mall needs more park space, landscaping and community areas, and less parking.

After a hearing lasting more than three hours last week, the board voted 4-0 to continue the meeting on the proposal for the 45-acre site in Terra Linda to Aug. 22.

The project calls for up to 1,422 residences combined with a mix of restaurants, shops and gathering space.

The board's meeting Wednesday focused specifically on the site plan, pedestrian and bicycle circulation, landscaping and the architecture of the commercial buildings. Deliberation on the residential aspect of the project will take place at the next meeting.

Overall, the board said it was impressed with the developer's dedication to public communication, conducting more than 40 meetings with community stakeholders. The board also thought the applicant offered a slick proposal. There were a few concerns, the board said.

"I think the project is just overdeveloped," said Don Blayney, a board member. The pressures to build housing have likely contributed to that, Blayney said.

Blayney said he would like to see the proposed 50,000-square-foot "town square" doubled. One way to do it is to eliminate a planned dog park and planned parking stalls.

"It's unfortunate there's not more open space in this project," he said. "You have the one clustered Town Center. It would be nice to have little satellite areas of open space also, so smaller groups could get together and meet there, maybe a building dedicated to the community."

Merlone Geier Partners, which bought the property in 2017, calls the proposed development "Northgate Town Square." The plan is slated to be completed in two phases because it's such a large-scale project.

If all goes according to plan, developers intend to construct a majority of the housing beginning in 2025. The second phase is set to begin in 2040. Overall, the project aims to mix transit-oriented housing with community space, retail and restaurants. The project has received mixed reviews from the community. Housing and sustainability advocates cheered the plan. Critics, mostly neighbors of the site, said some buildings would be too tall for the residential neighborhood and worried about traffic and noise.

The project has undergone several iterations, each influenced by comments from community members and public officials. In the latest revision, the project team has enhanced its bicycle and pedestrian paths throughout the project.

The new features would separate people on foot and bikes from motorists. Paths would be raised onto sidewalks connecting to a town square area that would feature a park, a dog park, an outdoor movie screen and an area for concerts and special events.

Some critics complained that with the advent of electric bikes, it would be best to separate bicyclists and pedestrians, too.

Regarding the commercial aspect, residents said they are opposed to inviting new chain stores into town, and they objected to the two planned drive-thru restaurants that would occupy space on the Las Gallinas Avenue.

“they're very successful, so I think I'm not in support of the drive-thrus.”

He and residents were concerned about environmental impacts of idling cars, as well as queuing and traffic problems.

Summers also suggested the developers consider adding a music venue, like Hopmonk Tavern, which operates a restaurant and concert space at the Vintage Oaks Shopping Center in Novato.

Panelist Michael Alexin said he would like to make sure there are as few artificial landscaping elements as possible.

“I think with climate change and looking at the city, the only thing that saves San Rafael are our trees,” he said, asking the developer to add flowers and natural landscape elements.

An environmental review of the project is underway. The draft environmental impact report is expected to be released this fall.



BIKES, PEDESTRIANS

## **SMART board approves San Rafael path project**

BY WILL HOUSTON

[WHOUSTON@MARINIJ.COM](mailto:WHOUSTON@MARINIJ.COM)

SMART is set to begin construction this summer on a \$4.5 million project to close a gap in its bicycle and pedestrian path in northern San Rafael.

The Sonoma-Marín Area Rail Transit district plans to build the 1-mile path along its train tracks from McInnis Parkway just north of the Marin County Civic Center to Smith Ranch Road near McInnis Park. The path will include a new pedestrian bridge over Las Gallinas Creek.

Marin County Supervisor Mary Sackett, a SMART board member whose district includes San Rafael, said the project will connect neighborhoods to the parks and the Civic Center train station.

"I think this is a wonderful opportunity and one that the community will really see as SMART connecting and doing what we had promised to the community, so I think it's a great step," Sackett said before the board voted to approve the project on July 19.

The SMART board voted unanimously to award the construction contract to Ghilotti Bros. Inc. Construction is set to begin Sept. 1 and be completed in the spring, barring weather delays, according to Bill Gamlen, SMART's chief engineer.

The path will begin with a crossing of the existing route on McInnis Parkway over South Fork Gallinas Creek to the train tracks. The path will then run north along the right side of the tracks until it reaches Gallinas Creek, where cyclists will be diverted to the frontage road near the San Rafael Airport and Smith Ranch Road.

The project will be primarily funded by state and federal grants totaling about \$3.7 million. SMART is funding the remaining \$790,000 using its Measure Q sales tax revenues collected in Marin and Sonoma counties. SMART, which operates passenger rail service from Larkspur to Santa Rosa Airport, has long planned to build a bicycle and pedestrian path along its planned route from Larkspur to Cloverdale. SMART has allocated funds to complete the initial design and permitting work for all remaining sections of the path in Marin County.

The most recent section was an upgraded, separated bike lane on Rowland Boulevard that Novato completed last year. San Rafael and SMART also completed path segments

between Rice Drive and Second Street in 2019 and 2020.

Warren Wells, policy and planning director for the Marin County Bicycle Coalition, said the project will help provide an alternative, safer route for cyclists of all ages and abilities.

“This does open a lot of new parts of San Rafael and connects them together as well as removes the need for people to travel on Civic Center and Redwood, which can be heavy traffic and high-speed roads,” Wells told the board before the vote.

Marin County resident Mike Pechner raised concerns about potential flooding of the path from the creek. He suggested SMART consider raising the path a foot or two higher.

Gamlen said the agency is aware of the path’s vulnerability to flooding but said designing the project was a balancing act because of its proximity to sensitive habitat along the creek.

“It’s just a challenging spot to build it,” Gamlen said during the meeting.

## Teresa Lerch

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**From:** Mark Millan <millan@datainstincts.com>  
**Sent:** Tuesday, August 1, 2023 9:06 AM  
**To:** Undisclosed Recipients  
**Subject:** Don't call it 'toilet to tap' - California plans to turn sewage into drinking water - Cal Matters 8/1/23

### **Don't call it 'toilet to tap' — California plans to turn sewage into drinking water**

Rachel Becker, Cal Matters 8/1/23

Link: <https://calmatters.org/environment/2023/08/california-toilet-to-tap-water/>

#### **In summary**

Waste would undergo extensive treatment and testing before it's piped directly to taps, providing a new, costly but renewable water supply. The state's new draft rules are more than a decade in the making.

Californians could drink highly purified sewage water that is piped directly into drinking water supplies for the first time under proposed rules unveiled by state water officials.

The drought-prone state has turned to recycled water for more than 60 years to bolster its scarce supplies, but the current regulations require it to first make a pit stop in a reservoir or an aquifer before it can flow to taps.

The new rules, mandated by state law, would require extensive treatment and monitoring before wastewater can be piped to taps or mingled with raw water upstream of a drinking water treatment plant.

"Toilet-to-tap" this is not.

Between flush and faucet, a slew of steps are designed to remove chemicals and pathogens that remain in sewage after it has already undergone traditional primary, secondary and sometimes tertiary treatment.

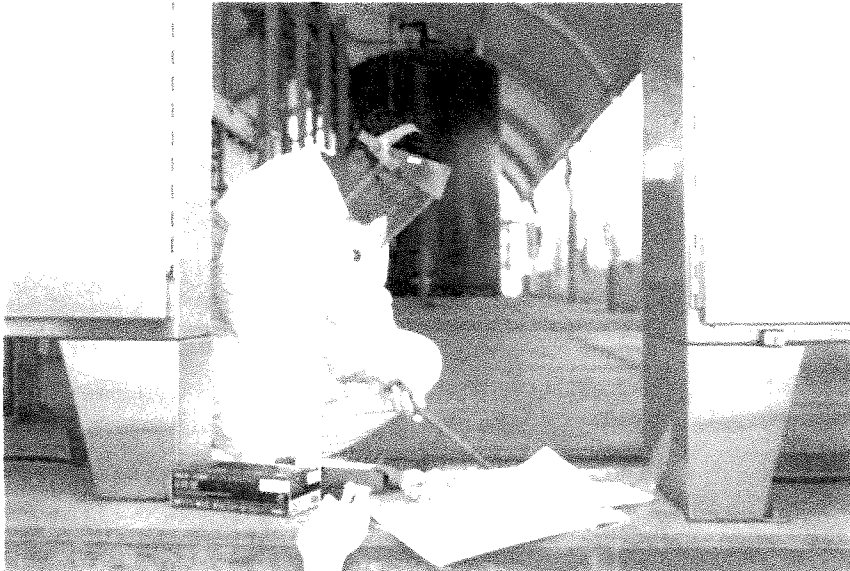
It is bubbled with ozone, chewed by bacteria, filtered through activated carbon, pushed at high pressures through reverse osmosis membranes multiple times, cleansed with an oxidizer like hydrogen peroxide and beamed with high-intensity UV light. Valuable minerals, such as calcium, that were filtered out are restored. And then, finally, the wastewater is subjected to the regular treatment that all drinking water currently undergoes.

"Quite honestly, it'll be the cleanest drinking water around," said Darrin Polhemus, deputy director of the state's Division of Drinking Water.

The 62 pages of proposed rules, more than a decade in the making, are not triggering much, if any, debate among health or water experts. A panel of engineering and water quality scientists deemed an earlier version of the regulations protective of public health, although they raised concerns that the treatment process would be energy-intensive.

"I would have no hesitation drinking this water my whole life," said Daniel McCurry, an assistant professor of civil and environmental engineering at the University of Southern California.

This water is expected to be more expensive than imported water, but also provide a more renewable and reliable supply for California as climate change continues. Most treated sewage — about 400 million gallons a day in Los Angeles County alone — is released into rivers, streams and the deep ocean.



*Luis Canela, a water quality technician, injects chemicals to chlorinate water at the Pure Water Southern California Demonstration Plant in Carson. Photo by Lauren Justice for CalMatters*

The draft rules, [released on July 21st](#), still face a gauntlet of public comment, a hearing and peer review by another panel of experts before being finalized. The State Water Resources Control Board is required by law to vote on them by the end of December, though they can extend the deadline if necessary. They would likely go into effect next April and it will take many years to reach people's taps.

Heather Collins, water treatment manager for the Metropolitan Water District of Southern California, said the regulations will give the district more certainty about how to design a massive, multi-billion dollar water recycling project with the Los Angeles County Sanitation Districts. The district imports water that is provided to 19 million Southern Californians.

The joint effort, called [Pure Water Southern California](#), [has already received \\$80 million](#) from the state. The first phase of the project, which could be completed by 2032, is expected to produce about 115 million gallons of recycled water a day, enough for 385,000 Southern California households.

Most is planned to go towards recharging local water agencies' groundwater stores, but about 20% could be added to drinking water supplies upstream of Metropolitan's existing treatment plant for imported water.

"We're excited," Collins said. "It helps better inform us on what our project needs to include, so that we can have a climate-resistant supply for our agencies in Southern California."

The new rules come as endless cycles of drought leave California's water [suppliers scabbling for new sources of water](#), like purified sewage. In 2021, Californians used about [732,000 acre feet of recycled water](#), equivalent to the amount used by roughly 2.6 million households, though much of it goes to non-drinking purposes, like irrigating landscapes, golf courses and crops.

Last year, Gov. Gavin Newsom called for increasing recycled water use in California [roughly 9% by 2030](#) and more than doubling it by 2040.

"Water recycling is about finding new water, not just accepting the scarcity mindset — being more resourceful in terms of our approach," Newsom said last [May in front of Metropolitan's Pure Water Southern California demonstration plant](#).

Some recycled water is already used to refill underground stores that provide drinking water, a process called indirect potable reuse, employed beginning in [the 1960s in Los Angeles](#) and Orange counties. But a water agency must have a

clean and convenient place to store the expensive, highly-purified water. “You don’t want to inject this recycled wastewater that you’ve spent all this effort cleaning into a dirty, polluted aquifer just to ruin it again,” McCurry said.

To expand these uses, state lawmakers in 2010 tasked the water board with investigating the possibility of adding recycled water either directly into a public water system or just upstream of a water treatment plant. In 2017, they set a deadline to develop the regulations by the end of 2023.

California won’t be the first; Colorado already has regulations and the nation’s first direct potable reuse plant was built in Texas in 2013. Florida and Arizona have rules in the works.

California’s statewide rules, however, are expected to be the most stringent, said Andrew Salveson, water reuse chief technologist at Carollo Engineers, an environmental engineering consulting firm that specializes in water treatment.

“They are more conservative than anywhere else,” he said. “And I’m not being critical. In the state of California, because we’re in the early days of (direct potable reuse) implementation, they’re taking measured and conservative steps.”

## Removing viruses and chemicals

The water that flushes down toilets, whirls down sinks, runs from industrial facilities and flows off agricultural fields is teeming with viruses, parasites and other pathogens that can make people sick. Chemicals also contaminate this sewage, everything from industrial perfluorinated “forever chemicals” to drugs excreted in urine. Bypassing groundwater stores or reservoirs to funnel purified sewage directly into pipes means that there’s less room for error.

The new regulations would ramp up restrictions on pathogens, calling for scrubbing away more than 99.9999% of diarrhea-causing viruses and certain parasites. Also a series of treatments are designed to break down chemical contaminants like anti-seizure drugs, pain relievers, antidepressants and other pharmaceuticals. Medications can bypass traditional sewage treatment so they are found in low concentrations in recycled sewage and groundwater.



*Water makes its way to the first step of the water purification process, membrane bioreactors, at the demonstration plant in Carson. Photo by Lauren Justice for CalMatters*

The added technologies are good at washing away pharmaceuticals, McCurry said, so having them “back-to-back introduces a ton of redundancy,” he said. “Any pharmaceutical you could think of, if you tried to measure it in the product water of one of these plants, is going to be below the detection limit.”

The new rules call for extensive monitoring to ensure the treatment is working. Some harmful chemicals, such as lead and nitrates, which are dangerous to babies and young children, will be tested for weekly; others, monthly. And water

providers must also monitor the sewage itself before it even reaches treatment for any chemical spikes that could indicate illegal dumping or spills.

“We think we’ve got the chemical classes covered in the treatment processes, so that we’re removing materials that we don’t even know are there,” the water board’s Polhemus said.

Jennifer West, managing director of WateReuse California, a trade association for water recycling, said she was happy to finally see California’s regulations, though she hopes the state will build in more flexibility for water providers to alter the suite of treatments as technologies change.

Richard Gersberg, San Diego State University professor emeritus of environmental health, said he supports using highly treated waste for drinking water. But he suggests that the state fund long-term studies comparing health effects in people who drink it to those whose drinking water comes from another source, such as rivers, “which might end up being worse. Probably is,” he said.

Given the vast and changing cocktail of chemicals constantly in use, “we don’t know what we don’t know,” Gersberg said. “If this becomes huge in California, and it will, I believe ... we should at least spend a little money.”

## **Who will be first?**

All this treatment and monitoring is likely to be pricey, which is why Polhemus expects to see it largely limited to large urban areas that produce a lot of wastewater, such as Los Angeles County. The Metropolitan Water District’s \$3.4 billion estimate for building the project dates back to 2018, and has likely increased since then, according to spokesperson Rebecca Kimitich.

For small and medium communities, Polhemus said, “it doesn’t pencil in a small scale type of arrangement.”

The Orange County Water District, which has long been a leader in purifying recycled water, has concluded that piping it directly to customers doesn’t pencil out for them, either, because they’ve already invested so heavily in refilling their carefully tended aquifer.

It would “require adding more treatment processes and increasing operating expenses,” board president Cathy Green said in a statement. “Local water agencies are currently well-equipped to continue to supply drinking water to customers in our service area at a low cost using the Orange County Groundwater Basin.”

For other regions like Silicon Valley, though, the costs may be worth it as climate change continues to shrink state supplies.

“At this point, it’s more expensive than water we might import during a drought. But who knows what will happen in the future,” said Kirsten Struve, assistant officer in the water supply division at the Santa Clara Valley Water District, which serves approximately 2 million people.

“That’s why we need to get prepared.”



*The Pure Water Southern California Demonstration Plant showcases technology that may provide drinking water to Southern Californians by 2032. Photo by Lauren Justice for CalMatters*

The Santa Clara water agency, known as Valley Water, is planning a \$1.2 billion project in Palo Alto to produce about 10 million gallons a day of water for groundwater recharge, but Struve said she hopes the plant also will be used for direct potable reuse in the future.

The timing of the regulations has butted up against the realities of planning for Monterey One Water on the Monterey Peninsula as well. The utility has been injecting purified wastewater into the seaside aquifer for three years, producing about a third of the local supply, said General Manager Paul Sciuto. It is working on expanding the project by 2025, Sciuto said.

"I get that question of, 'This water is so pure, why do you put it in the ground? Why can't you just serve it?' " he said. "And I always fall back on, well, there's no regulations that allow us to do that at this point."

Now that the state is closer to finalizing them, he said, "there's a point on the horizon to shoot for."

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## News Update



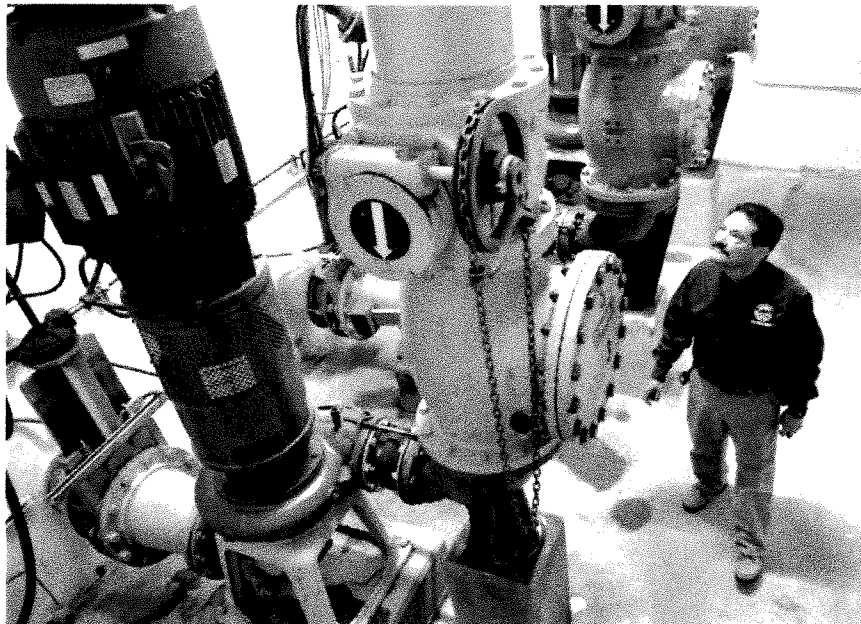
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LOCAL NEWS

## Ross Valley Sanitary District completes \$100M system overhaul



Noel Sandoval, operations supervisor and pump stations manager for the Ross Valley Sanitary District, looks over equipment at the recently completed pump station in Larkspur on July 21, 2023. (Sherry LaVars/Marin Independent Journal)



By ADRIAN RODRIGUEZ | arodriguez@marinij.com | Marin Independent Journal



PUBLISHED: August 4, 2023 at 5:03 p.m. | UPDATED: August 4, 2023 at 5:26 p.m.

Ten years ago, following major sewage spills, the state slapped the Ross Valley Sanitary District with a cease-and-desist order. The state's San Francisco Bay Regional Water Quality Control Board told the agency that it had to clean up its act.

Last month, the district said it marked the end of its aggressive \$100 million capital improvements campaign designed to do just that.

"What we're seeing is a lot less spills, a lot less overflows," said Doug Kelly, a district board member. "What we're doing is working."

The rehabilitation of Pump Station 14 in Larkspur, completed in July, could be the district's final project needed to get back in the state's good graces. Steve Moore, general manager of the district, said the pump station projects are designed with the latest technology to reduce noise, emissions and odor while improving energy efficiency and prolonging the life of the sewage system.

From 2012 to 2022, the district averaged 25 overflows per year, Moore said. For the 2021-22 fiscal year, there were 19 overflows, resulting in 155,385 gallons of spillage. From July 2022 through June, the district only had nine overflows, spilling 4,298 gallons.

"This past year we had the lowest recorded number of sewer spills to date," Moore said. "It's really gratifying work."

"Just to put these volumes in perspective," said Felicia Newhouse,

In other words, for this past year, the spill volume is less than one-tenth of 1% of wastewater that the district conveys to the Central Marin Sanitation Agency treatment plant each day, Newhouse said.

The district has come a long way, said Bill Johnson, a state water board official.

The state water board is reviewing a progress report submitted by the sewer district earlier this year, Johnson said. After review, the water control board staff plans to inspect the Ross Valley facilities.

“If everything looks OK, we’ll put together a draft proposal to remove the cease-and-desist order,” Johnson said. “Things have changed a lot. Things have improved a lot.”

During heavy rains in December 2005, the Ross Valley utility spilled 472,000 gallons of untreated waste and was later hit with a \$78,000 fine by the regional water board.

The district had to pay the state \$1.5 million as part of a settlement after releasing more than 3 million gallons of sewage, most of it in two large spills in December 2010.

In 2012, Brett Richards, the district’s general manager at the time, estimated that 165 to 170 miles of the district’s 200 miles of sewer pipes were 50 years old or older and in need of urgent replacement.

The state water board imposed a cease-and-desist order on the district in 2013, requiring the district perform a major overhaul of its aging system. Under the watchful eye of the water board, the district has been pouring millions of dollars into upgrading its 200 miles of pipe and 19 pump stations.

Some of the larger investments were put into gravity sewer rehabilitation, including a \$15 million project in the area of the Miracle Mile started in 2016.

To continue the push, the district devised a two-pronged financing plan approved in 2019 that included issuing millions of dollars in revenue

The rates increased to \$961 for a detached home in 2019 and have gone up this year to \$1,212.

The financing plan helped the district complete its \$10 million cleanup of its former wastewater treatment plant at Larkspur Landing and a slew of other projects.

After exhibiting a successful turnaround, the district received a “wastewater collection system of the year” award from the California Water Environment Association. The district was selected from hundreds of agencies with less than 250 miles pipe for the 2022 year.

“It’s the highest honor for us to be recognized as a model organization by our peers in the CWEA,” Moore said. “We will continue to look for innovative and cost-effective ways to provide excellent customer service to our local community, while renewing and maintaining the infrastructure that protects our health and water environment.”

Meanwhile, the district has completed an interior remodel of its new headquarters at 1111 Andersen Drive in San Rafael. Work on the landscaping and parking plan was approved last month. Moore said the staff plans to move into the site this year.

The district plans to commission a rate study within the year to consider updating its fee schedule starting in fiscal year ending 2025.