

**SANITARY DISTRICT NO. 5 OF MARIN COUNTY**  
**2001 Paradise Drive**  
**Tiburon, California 94920**

**AGENDA**

**Capital Improvement Program Committee Meeting**  
**Tuesday August 17, 2021, 2:00 p.m.**

**CORONA VIRUS (COVID-19) ADVISORY NOTICE**

Consistent with Executive Orders No. N-25-20 and No. N-29-20 from the Executive Department of the State of California, the Meeting will not be physically open to the public and all Board Members and Staff will be teleconferencing into the meeting.

**How to Submit Public Comments:**

Comments submitted prior to the commencement of the meeting will be presented to the Committee and included in the public record for the meeting.

**Public Comments are to be submitted via email to [rdohrmann@sani5.org](mailto:rdohrmann@sani5.org).**

In addition, members of the public who are calling-in will have the opportunity to provide public comments by following the steps below:

**How to Participate in the Meeting:**

**Join Zoom Meeting by clicking on the following link:**

**<https://us02web.zoom.us/j/6230620778>**

**Meeting ID: 623 062 0778**

**or join by phone:**

**Call in number: (669) 900-9128**

**Participant Code: 623 062 0778**

**I. Roll Call**

**II. Public Comments**

“The Point Tiburon Bayside condominium complex, as a neighbor adjacent to the SD5 plant, remains interested in exploring with SD5 staff the possible use of recycled water for landscape irrigation in our complex.” – Mark Freiberg, Pt. Tiburon Bayside

**III. New Business**

- 1. Recycled water project feasibility- sampling results evaluation and discussion**
- 2. FY2021-2022 Tiburon & Belvedere Pipe Rehabilitation Project discussion re parameters of project and timeline**
- 3. Discussion re Cove Road emergency generator replacement and roof replacement project**
- 4. Evaluation of HDR proposal for assistance with Influent Dry Weather splitter box repairs evaluation**
- 5. Verbal update on recently completed CIP projects and status of in-house projects currently underway**

**IV. Adjournment**

*This Committee may be attended by Board Members who do not serve on this committee. In the event that a quorum of the entire Board is present, this Committee shall act as a Committee of the Whole. In either case, any item acted upon by the Committee or the Committee of the Whole will require consideration and action by the full Board of Directors as a prerequisite to its legal enactment.*  
**Accessible public meetings:** Any member of the public who needs accommodations should email the Office Manager, at [rdohrmann@sani5.org](mailto:rdohrmann@sani5.org), who will use her best efforts to provide as much accessibility as possible while also maintaining public safety.

# SALT TRACKER

DATE	OPERATOR	SAMPLE POINT	CONDUCTIVITY Ms	SALT ppt	SAMPLE TYPE
7/6/2021	CB	INF	8.63	4.6	GRAB
		EFF	7.82	4.15	GRAB
7/7/2021	CB	INF	8.47	4.58	COMP
		EFF	6.41	3.42	COMP
7/14/2021	CB	INF	8.22	4.41	COMP
		EFF	9.25	4.87	COMP
		COVE	8.70	4.65	GRAB
7/14/21	CB	<del>INF</del> EFF <del>COVE</del>	6.55	3.3	COMP
7/15/21	CB	<del>INF</del> EFF <del>COVE</del>	7.59	3.86	COMP
7/16/21	K	<del>INF</del> EFF <del>COVE</del>	6.78	3.71	COMP
7/17/21	CB	<del>INF</del> EFF <del>COVE</del>	6.48	3.18	COMP
7/19/21	K → CB →	INF	7.29	3.96	COMP
		EFF	6.81	3.52	COMP
		COVE	9.32	5.03	GRAB
7/20/21	K → CB →	INF	8.54	4.73	COMP
		EFF	8.01	4.24	COMP
		COVE	4.73	2.50	GRAB @ 10/2
7/21/21	CB	<del>INF</del> EFF COVE	9.05	4.83	COMP

TDS  
10/2/22.6°C/3.34/7.72  
F

# SALT TRACKER

DATE/TIME	OPERATOR	SAMPLE POINT	CONDUCTIVITY Ms	SALT ppt	SAMPLE TYPE
0900		Grub INF	16.44	5.77	
7/23/21	SD	Grub EFF	10.17	5.85	Grub
		INF			
		EFF			
7/26/21	KZ	INF	11.20	6.21	COMP
0713		EFF	11.80	6.32	COMP
		COVE	5.65	3.01	GRAB
7/27/21	KZ	INF	8.57	4.87	COMP
		EFF	8.25	4.28	COMP
		COVE	10.40	5.70	GRAB 0810
7/28/21	CB L3 G3	INF	10.10	5.80	GRAB
		EFF	7.94	4.30	GRAB
		COVE	11.50	6.42	GRAB
8/2/21	SD	INF	<del>8.99</del> 9.98	5.04	COMP
		EFF			
		COVE			
8/3/21	SD	INF	9.71	4.99	COMP
		EFF			
		COVE			
8/5/21	SD	INF	9.09	4.88	COMP
		EFF			
		COVE			
8/6/21	SD	INF	8.99	4.69	COMP.
		EFF			
		COVE			
		INF			
		EFF			
		COVE			
		INF			
		EFF			
		COVE			

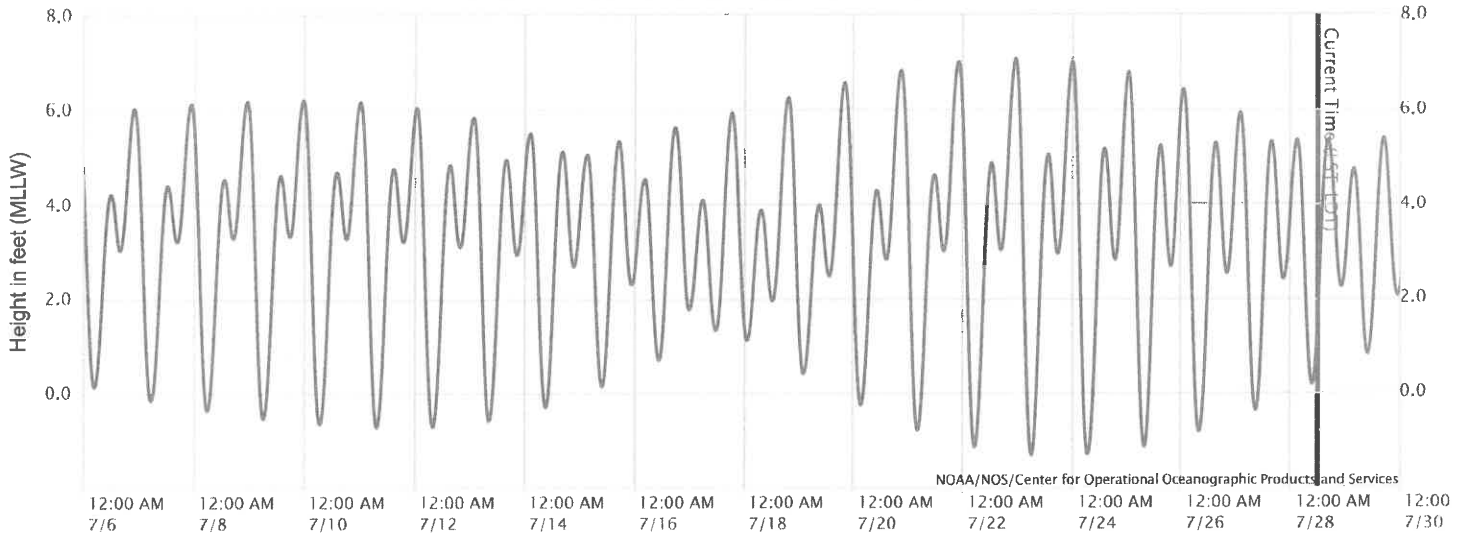
616  
at  
7/27/21

LOW TIDE



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**NOAA/NOS/CO-OPS**  
**Tide Predictions at 9414290, San Francisco CA**  
**From 2021/07/06 12:00 AM LST/LDT to 2021/07/29 11:59 PM LST/LDT**



Note: The interval is High/Low, the solid blue line depicts a curve fit between the high and low values and approximates the segments between.  
 Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

**High/Low Tide Prediction Data Listing**

Station Name: San Francisco, CA  
 Action: Daily  
 Product: Tide Predictions  
 Start Date & Time: 2021/7/6 12:00 AM  
 End Date & Time: 2021/7/29 11:59 PM

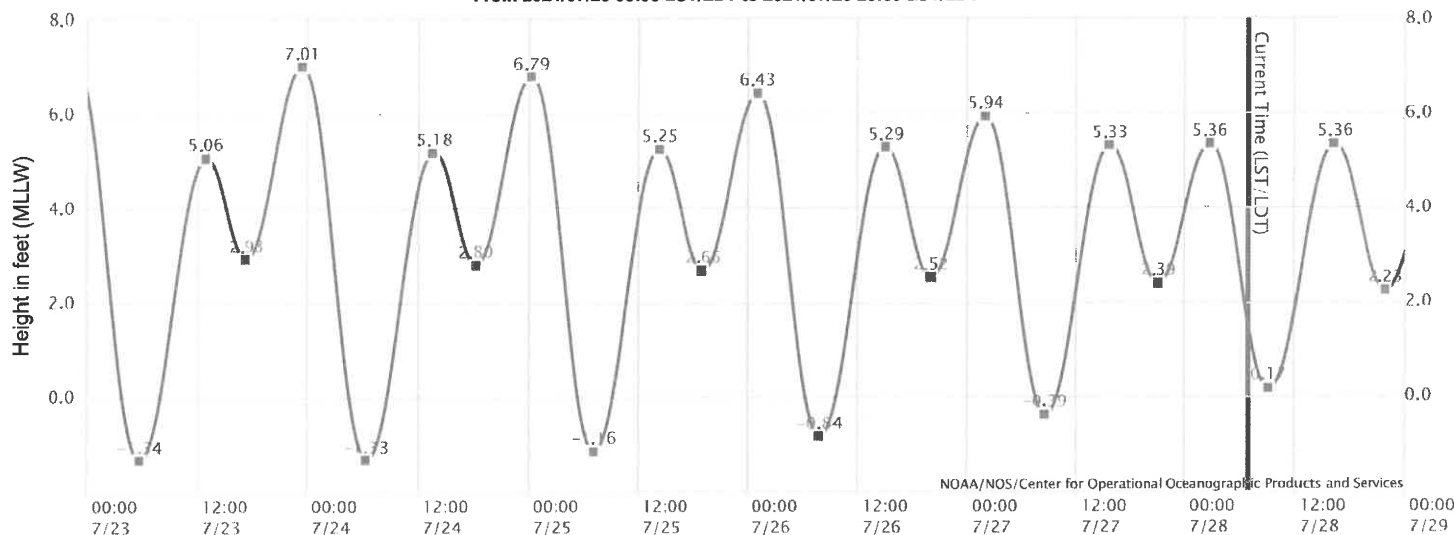
Source: NOAA/NOS/CO-OPS  
 Prediction Type: Harmonic  
 Datum: MLLW  
 Height Units: Feet  
 Time Zone: LST/LDT

Date	Day	Time	Hgt	Time	Hgt	Time	Hgt	Time	Hgt
2021/07/06	Tue	04:20 AM	0.11 L	11:29 AM	4.21 H	3:36 PM	3.02 L	9:44 PM	6.04 H
2021/07/07	Wed	04:56 AM	-0.17 L	12:14 PM	4.40 H	4:19 PM	3.19 L	10:20 PM	6.13 H
2021/07/08	Thu	05:31 AM	-0.39 L	12:54 PM	4.53 H	5:00 PM	3.28 L	10:57 PM	6.18 H
2021/07/09	Fri	06:05 AM	-0.55 L	1:31 PM	4.62 H	5:39 PM	3.30 L	11:36 PM	6.20 H
2021/07/10	Sat	06:39 AM	-0.68 L	2:05 PM	4.68 H	6:18 PM	3.27 L		
2021/07/11	Sun	12:14 AM	6.16 H	07:13 AM	-0.75 L	2:40 PM	4.75 H	6:58 PM	3.19 L
2021/07/12	Mon	12:54 AM	6.05 H	07:48 AM	-0.74 L	3:14 PM	4.83 H	7:43 PM	3.08 L
2021/07/13	Tue	01:36 AM	5.83 H	08:25 AM	-0.61 L	3:49 PM	4.95 H	8:34 PM	2.91 L
2021/07/14	Wed	02:22 AM	5.50 H	09:04 AM	-0.33 L	4:25 PM	5.12 H	9:33 PM	2.66 L
2021/07/15	Thu	03:15 AM	5.05 H	09:46 AM	0.11 L	5:03 PM	5.34 H	10:41 PM	2.29 L
2021/07/16	Fri	04:21 AM	4.54 H	10:31 AM	0.68 L	5:43 PM	5.62 H	11:53 PM	1.76 L
2021/07/17	Sat	05:43 AM	4.09 H	11:22 AM	1.32 L	6:26 PM	5.94 H		
2021/07/18	Sun	01:03 AM	1.10 L	07:20 AM	3.88 H	12:19 PM	1.95 L	7:12 PM	6.27 H
2021/07/19	Mon	02:07 AM	0.39 L	08:55 AM	3.99 H	1:20 PM	2.47 L	8:01 PM	6.58 H
2021/07/20	Tue	03:05 AM	-0.27 L	10:13 AM	4.29 H	2:23 PM	2.82 L	8:53 PM	6.84 H
2021/07/21	Wed	03:59 AM	-0.81 L	11:15 AM	4.62 H	3:24 PM	2.99 L	9:45 PM	7.01 H
2021/07/22	Thu	04:49 AM	-1.17 L	12:08 PM	4.88 H	4:22 PM	3.01 L	10:37 PM	7.08 H
2021/07/23	Fri	05:38 AM	-1.34 L	12:55 PM	5.06 H	5:17 PM	2.93 L	11:28 PM	7.01 H
2021/07/24	Sat	06:24 AM	-1.33 L	1:38 PM	5.18 H	6:11 PM	2.80 L		
2021/07/25	Sun	12:18 AM	6.79 H	07:08 AM	-1.16 L	2:20 PM	5.25 H	7:05 PM	2.66 L



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**NOAA/NOS/CO-OPS**  
**Tide Predictions at 9414290, San Francisco CA**  
**From 2021/07/23 00:00 LST/LDT to 2021/07/28 23:59 LST/LDT**



Note: The interval is High/Low, the solid blue line depicts a curve fit between the high and low values and approximates the segments between.  
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Station Name: San Francisco, CA  
 Action: Daily  
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 Start Date & Time: 2021/7/23 00:00  
 End Date & Time: 2021/7/28 23:59

Source: NOAA/NOS/CO-OPS  
 Prediction Type: Harmonic  
 Datum: MLLW  
 Height Units: Feet  
 Time Zone: LST/LDT

Date	Day	Time	Hgt	Time	Hgt	Time	Hgt	Time	Hgt
2021/07/23	Fri	05:38	-1.34 L	12:55	5.06 H	17:17	2.93 L	23:28	7.01 H
2021/07/24	Sat	06:24	-1.33 L	13:38	5.18 H	18:11	2.80 L		
2021/07/25	Sun	00:18	6.79 H	07:08	-1.16 L	14:20	5.25 H	19:05	2.66 L
2021/07/26	Mon	01:07	6.43 H	07:50	-0.84 L	14:59	5.29 H	19:59	2.52 L
2021/07/27	Tue	01:55	5.94 H	08:31	-0.39 L	15:38	5.33 H	20:56	2.39 L
2021/07/28	Wed	02:46	5.36 H	09:12	0.17 L	16:16	5.36 H	21:56	2.23 L

parts per thousand

50+ ppt

30 ppt

.5 ppt

0 ppt

Red Sea - 40 ppt

Mediterranean Sea - 38 ppt

Average seawater - 34.7 ppt

Black Sea - 18 ppt

Baltic Sea - 8 ppt

Limit on agriculture Irrigation - 2 ppt

Drinking water - .1 ppt

\*traditional ways to express salinity is in "parts per thousand" or ppt

## briny water

brine pools

50+ ppt

## saline water

seawater, salt lakes

30-50 ppt

## brackish water

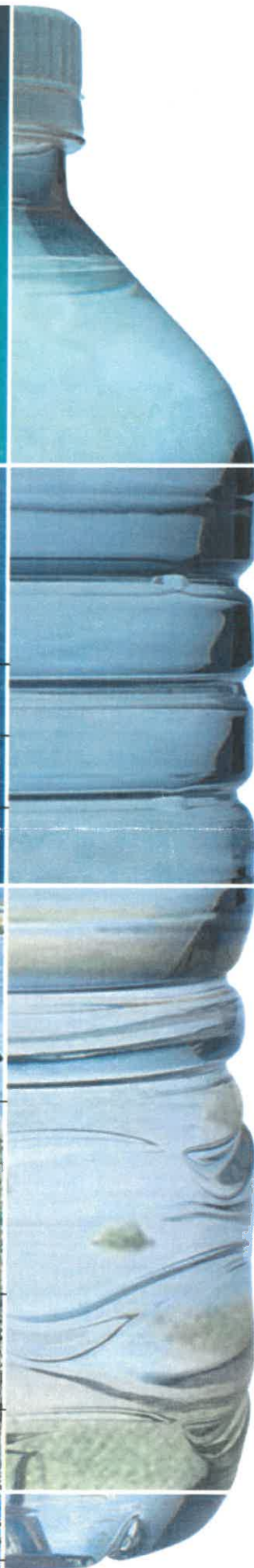
estuaries, mangrove swamps, brackish seas and lake, brackish swamps

.5-30 ppt

## fresh water

ponds, lakes, rivers, streams, aquifers

0-.5 ppt







April 14, 2021

Mr. Tony Rubio, District Manager  
Sanitary District No. 5 of Marin County  
2001 Paradise Drive,  
Tiburon, CA 94920

Submitted via email: [trubio@sani5.org](mailto:trubio@sani5.org)

**RE: Proposal for Engineering Services for Structural Repairs**

Dear Mr. Rubio:

In response to your request, HDR Engineering, Inc. (HDR) has prepared this proposal to evaluate structural repair needs at the Sanitary District No. 5 of Marin County (SD5) wastewater treatment plant. This proposal includes the scope of work and fee estimate to perform structural engineering evaluation and design services at the treatment plant's splitter box as listed below.

- Inspect and evaluate the cracking at the splitter box
- Prepare a Technical Memorandum (TM) presenting findings, including specifications and repair details appropriate for a contractor-performed crack repair

## Scope of Work

The scope of work will be comprised of the following tasks.

### Task 1 — Project Management

HDR's Project Manager (PM) will be responsible for employing project controls to deliver work on-time and within budget. The PM will implement quality control measures for all project deliverables consistent with HDR's Quality Management System guidelines. The PM will include a progress report (via email) with each monthly invoice outlining work performed during the invoice period.

### Task 2 — Preliminary Site Walk

HDR will perform a preliminary site walk with SD5 to review structural needs at the site. This includes visual assessment of the splitter box with known leakage through a crack in the concrete. Additionally, HDR will visually assess the feasibility of installing a metal storefront above the headworks building and covering the southeast cell opening in the top slab with concrete per SD5's request. The scope of work associated with the storefront and cover installation will be included in a separate proposal and is not included in this scope of work.

### Task 3 — Prepare Draft Technical Memorandum

HDR will prepare a written Draft TM summarizing the findings and repair recommendations at the splitter box. Field observations and photos will be provided in the Draft TM to support the findings. HDR will review record drawings as provided by SD5 as part of their evaluation of findings.

Repair details and specifications (100 percent design level) will be provided for implementation by a contractor or manufacturer.

### Task 4 — Present to SD5's Committee and Board

HDR will prepare a PowerPoint presentation of findings and recommendations and present the work to SD5's Committee and Board.

### Task 5 — Finalize Technical Memorandum

HDR will prepare the Final TM and incorporate any comments made by the Committee, Board, and/or SD5 staff.

## Our Proposed Team

Mary Martis, PE, will serve as the Project Manager. Crystal Starr, SE, will serve as the Project Engineer, performing the structural work. And Phoenix Nguyen, PE, will provide technical oversight and quality control review. Brief bios for each of the team members are attached as Exhibit A.

## Estimated Fee

HDR proposes to perform the scope of work on a time and materials basis, for an estimated *nine thousand eight hundred dollars* (\$9,800). A breakdown of estimated cost by task is provided below.

Task	Est. Labor Hours	Est. Cost
Task 1: Project Management	8	\$1,500
Task 2: Preliminary Site Walk	4	\$1,000
Task 3: Prepare Draft TM	20	\$4,700
Task 4: Present to the Committee and Board	4	\$1,100
Task 5: Finalize TM	6	\$1,500
<b>Grand Total</b>	<b>42</b>	<b>\$9,800</b>



Mr. Tony Rubio  
April 14, 2021  
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We appreciate the opportunity to provide this proposal to SD5. Should you have any questions, please call Mary directly at 415.741.7025.

Sincerely,  
HDR ENGINEERING, INC.

A handwritten signature in blue ink, appearing to read "Holly L.L. Kennedy".

Holly L.L. Kennedy, PE (CA)  
Senior Vice President

A handwritten signature in blue ink, appearing to read "Mary C. Martis".

Mary Martis, PE (CA)  
Project Manager

**DECISION/ACTION ITEM LOG**  
**CIP Committee: August 17, 2021**  
Sanitary District No. 5 of Marin County  
**ACTIVE ITEMS SHEET**

No.	Item	Submission Date	Responsible Party	DECISION ONLY		ACTION REQUIRED		Comment/Reference Document
				Due	Completed	Due	Completed	
29	Cove Rd. Force Main Replacement Project	3.12.19	Nute/TR/CIP				<b>8.9.2021</b>	Nute Preparing Bid Docs, as of 3.12.19; Waiting for CalTrans response re horizontal drilling, as of 5.14.19; Still working w/ CalTrans, waiting for approval, as of 11.12.19; Design Review from Nute, 12.10.19, 1.14.19, 2.11.20; Received Caltrans Permit, 3.9.2020; Notice for Sealed Bid @ Marin IJ on 4.28.2020 w/ Bids due 5.19.2020; Posted RFP at SD5 Wesbite, ( <a href="http://www.sani5.org/about/contracts-proposals-bidding">http://www.sani5.org/about/contracts-proposals-bidding</a> ), 5.5.2020; Project granted to Maggiora & Ghilotti, Inc.; Work to begin on 7.27.2020; Job well underway and progressing smoothly, as of 10.13.2020; Job is 70% complete, as of 11.10.2020; Job is 95% complete, as of 2.9.2021; Project substantially completed as of 2.25.2021; Final/close-out billing to be approved at 5.20.21; Board Meeting; <b>Received final close-out documents from Marin County's Recorder/Assessor's Office, 8.9.2021</b>
31	FY2020-2021 Sewer Rehab Project		CIP/TR					Small project for Paradise Cove; Engineering to begin in Dec 2020, as of 7.14.2020; Jan 2021, as of 12.8.2020; <b>Will begin once SD5 Collection System Master Plan is in</b>
32	SD5 Collection System Master Plan		CIP/TR				<b>4.15.2021</b>	Posted RFP at SD5 Wesbite, ( <a href="http://www.sani5.org/about/contracts-proposals-bidding">http://www.sani5.org/about/contracts-proposals-bidding</a> ), 5.5.2020; Revised RFP from HDR, as of 7.14.2020; Underway, as of 11.10.2020; CIP asking final questions.tweaking reports, etc., as of 2.9.2021; Presenting Final Draft @ 4.15.2021 Regular Board Mtg;; Board -Approved on 4.15.2021 at <del>Regular Board Meeting</del>