

County of Santa Cruz

Water Advisory Commission
701 Ocean Street, Room 312 Santa Cruz, CA 95060
(831) 454-2022 Lhttps://www.scceh.org/

AGENDA SANTA CRUZ COUNTY WATER ADVISORY COMMISSION Wednesday June 7, 2023, 4pm

This meeting will be held in hybrid format. Commissioners are expected to attend in person.

In-Person: 701 Ocean Street; Third Floor Training Room (directly above the stairs)

Remote: Click here to join the meeting Meeting ID: 219 425 929 30 Passcode: nUJNtM

A. OPENING

- 1. Call to Order

 Commissioner Lego will be attending from 100 Glenview Place, Naples, FL 34108
- 2. Roll Call
- B. <u>APPROVAL OF MINUTES:</u> April 5, 2023

C. PUBLIC COMMUNICATIONS

Opportunity for the public to comment on items under the purview of the Water Advisory Commission but not on today's agenda.

- D. COMMISSIONERS' REPORTS
- E. STAFF REPORTS AND ANNOUNCEMENTS

F. NEW BUSINESS

- 1. <u>Proclamation for Chris Berry honoring 19 years of exemplary service on the Water</u> Advisory Commission
- 2. <u>City of Santa Cruz Water Department and San Lorenzo Valley Water District Sanitary Survey Results</u>

G. <u>UNFINISHED BUSINESS and UPDATES</u>

1. Drought Response Update

Tour of new webpages outlining services:

https://scceh.com/NewHome/Programs/WaterResources/droughtresponse.aspx

2. Well Ordinance Update Process

Oral report

3. Groundwater Sustainability Agencies Update

Oral reports outlining updates from the three GSAs in the County.

H. CORRESPONDENCE

None

I. BOARD OF SUPERVISORS ACTION ON ITEMS AFFECTING WATER:

None

J. ITEMS OF INTEREST

- DWR Aerial Electromagnetic Surveys Data website: https://data.cnra.ca.gov/dataset/aem
- 2. Santa Cruz Sentinel, May 16, 2023 Water agencies work collaboratively on community resources https://www.santacruzsentinel.com/2023/05/16/guest-commentary-bruce-mcpherson-fred-keeley-and-mark-smolley-water-agencies-work-collaboratively-on-community-resources/

K. AGENDA ITEMS FOR FUTURE MEETINGS

L. **ADJOURNMENT**

HONORING CHRIS BERRY FOR 19 YEARS OF SERVICE ON THE SANTA CRUZ COUNTY WATER ADVISORY COMMISSION

WHEREAS, Chris Berry's distinguished tenure on the Santa Cruz County Water Advisory Commission ended on April 1, 2023; and

WHEREAS, Chris was appointed to the Commission to represent the large water utilities in 2004, since which time his leadership helped set the direction of the Commission, particularly during the terms he spent as Chair and Vice Chair; and

WHEREAS, Chris has always provided the Commission with good information and engaged staff in dialogue that provided his colleagues with insight on issues of importance to the Commission, particularly with respect to the City of Santa Cruz, the San Lorenzo River, and fisheries; and

WHEREAS, Chris spearheaded the workplan for the Water Advisory Commission and guided efforts to focus on important, concrete issues which included studying and ultimately protecting karst features; and

WHEREAS, his inter-commission coordination activities helped to increase communications with the Fish and Wildlife Advisory Commission and the Commission on the Environment and led to several special inter-commission meetings, bringing alignment to the work of the bodies; and

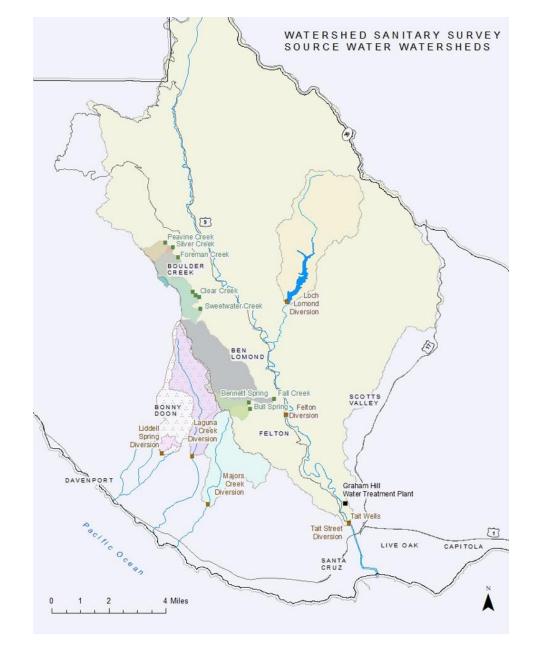
WHEREAS, Chris has served with integrity, patience, and generosity through two decades, working closely with a parade of different County staff members and Commissioners; and

WHEREAS, Chris is a considerate, motivated and dedicated colleague who champions the best interests of fish, wildlife, water resources, and the community, and his expertise will be greatly missed.

NOW, THEREFORE, I, Justin Cummings, District 3 Supervisor, join with the Water Advisory Commission in thanking Chris Berry for 19 years of exemplary service to the residents of Santa Cruz County and honor his significant contributions to the field of Water Resources Management.



A watershed sanitary survey is a detailed evaluation of surface water sources and an assessment of vulnerability of watershed lands and waterways to contamination that could affect source water quality



Background

CDM Camp Dresser & McKee Inc.

One Wallout Creek Center 100 Pringle Avenue, Suite 399 Walnut Creek, California 94596 Tel: 510 933-2900 Fax: 510 933-4174

July 10, 1996

Mr. Richard Lee Water Quality Project Manager Santa Cruz Water Department City of Santa Cruz 715 Graham Hill Road Santa Cruz, California 95060

Subject: San Lerenzo Valley and North Coast Watershells

Sanitary Surpey Final Report

Dear Mr. Lee:

Camp Dresser & McKee Inc. (CDM) is pleased to submit the final report for the San Lorenzo Valley and North Coast Watersheds Sanitary Survey. This report provides a comprehensive evaluation of existing conditions, management practices, and contaminant sources in the subject watersheds. The key recommendations are:

- · Augment current water quality monitoring programs including raw water coliform bacteria sampling and routine data analysis.
- · Increase watershed surveillance and inspections to stop unauthorized and other problematic activities which adversely influence water quality.
- · Complete a confined animal facility program to identify best management practices which will minimize contamination in runoff from these sites.
- · Coordinate efforts among participating agencies and water purveyors to implement watershed management and protection practices.

CDM sincerely appreciates the valuable contributions and assistance of the Santa Cruz Water Department staff and all participating utilities and agencies in conducting this

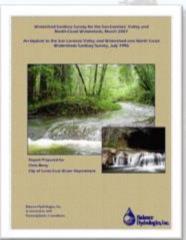
Very truly yours,

CAMP DRESSER & McKEE INC.

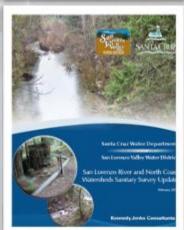
Project Manager

Steve Price, P.E. Project Engineer









2023 Update Partners







Kennedy Jenks





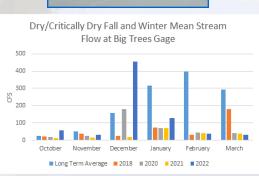
Key changes since 2017







currently:	552.05ft
m Last year:	570.00f
SEASONAL RAINFALL: (inc	ches)
• For the past week:	0.00
This week last year.	0.00
• For the season:	20.19
♦ This point last season:	28.96







Key changes since 2017

Serta Cruz County Local Agency Management Program.

Agencied by the Germal Clean Regional Water Guellry South Scotter (A. 2021, South of Separation, August 25, 2021

County of Santa Cruz Health Services Agency Environmental Health Division

Onsite Wastewater Treatment Systems

Local Agency Management Program



Approved by Central Coast Regional Water Quality Control Board,

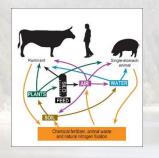
October 14, 2021

Approved by Santa Cruz County Board of Supervisors with Minor Updates, August 23, 2022



Contaminant Groups, significant sources, and contributing factors

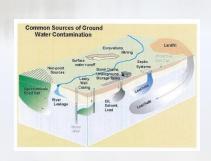
Turbidity (NTU) Water Samples: 250 100 50 25 10







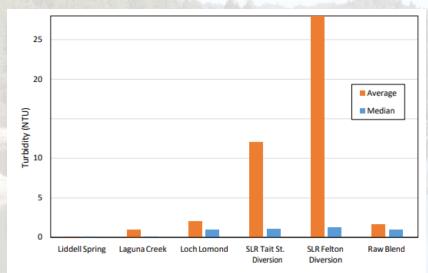








Sediment and Turbidity

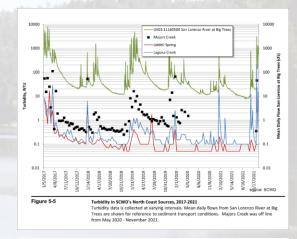


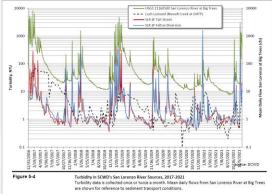
Average and median source water turbidity data for WY 2021

Table 5-2: Turbidity Results for SLVWD (Unit: NTU)

Year	Bennett Spring	Bull Spring #1	Bull Spring #2	Clear Creek	Fall Creek	Foreman Creek	Peavine Creek	Sweetwater Creek	Lompico Creek
2017	0.28	0.31	1.1	3.2	4.7	< 0.10	1.1	5	NR
2018	0.31	0.38	0.68	N/A	0.61	N/A	N/A	N/A	NR
2019	0.25	0.35	0.4	0.4	1.3	0.3	0.5	0.9	NR
2020	0.4	0.7	0.4	0.1	2.125	3.92	0.4	0.45	NR
2021	0.15	< 0.10	0.1	0.4	0.7	0.875	0.3	0.45	NR

Source¹; SLVWD Note: NR = Not Recorded; N/A = Data not available





Nutrients

Loch Lomond 1967-1990 Loch Lomond 2011-2016 SLR @ Tait Street 1967-1990

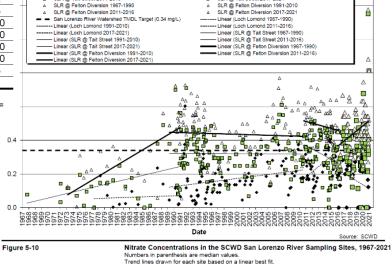
SLR @ Tait Street 2011-2016

		Nitrate (mg	յ/L as N)	No. of	Water Year			
Utility/Location	Average	Median	Low	High	No. of Samples	From	То	
Santa Cruz Water Department ¹								
Liddell Spring	0.3	0.2	0.2	0.3	32.0	2017	2021	
Laguna Creek	0.0	0.0	0.0	0.2	36.0	2017	2021	
Majors Creek	0.2	0.3	0.0	0.4	18.0	2017	2021	
Loch Lomond	0.2	0.2	0.0	0.4	31.0	2017	2021	
SLR @ Tait Street	0.3	0.3	0.0	1.2	78.0	2017	2021	
SLR @ Felton	0.5	0.5	0.0	1.2	77.0	2017	2021	
San Lorenzo Valley				YEAR	•			
Water District ²	2015	2016	2017	2018	2019	2020	2021	
Bennett Spring	< 0.10	0.13	< 0.10	N/A	0.13	< 0.10	< 0.10	
Bull Springs-1	0.11	< 0.10	< 0.10	N/A	0.15	< 0.10	0.12	
Bull Springs-2	NR	NR	< 0.10	N/A	0.12	< 0.10	0.25	
Clear Creek	< 0.10	< 0.10	< 0.10	N/A	< 0.10	< 0.10	< 0.10	
Fall Creek	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	N/A	< 0.10	
Foreman Creek	< 0.10	< 0.10	< 0.10	N/A	< 0.10	< 0.10	< 0.10	
Peavine Creek	< 0.10	< 0.10	< 0.10	N/A	< 0.10	< 0.10	< 0.10	
Sweetwater Creek	< 0.10	< 0.10	0.15	N/A	0.14	0.17	0.13	
Lompico Creek	ND	ND	NR	NR	NR	NR	NR	

¹Source: City

²Source: SLVWD, 2017 data is 6 months Note: NR = Not Recorded; N/A = Data not available; ND = Non-detectable

SLR = San Lorenzo River



Loch Lomond 2017-2021 SLR @ Talt Street 1991-2010

SLR @ Tait Street 2017-2021

Contaminants of Emerging Concern

Water Quality Parameter	Laguna Creek	Liddell Spring	SLR Felton Diversion	SLR Tait St. Diversion	SLR Highlands	Upper Laguna Creek	SLR Junction	Upper Majors
Volatile Organic Compounds	X		X	X	Х	X	X	X
Synthetic Organic Compounds	X		x	x	х	X	x	
Radiological	X		X	Х	X	X	X	
Inorganics	X		X	Х	X	X	X	X
Anions			X	X	X		X	
General Physical	X	X	X	X	X	X	X	X
Metals	X		X	X	X	X	X	X
MBAS	X		X	X	X	X	X	Х
TOC/DOC X X UV254/SUVA X X		X	X	X	X	X	X	X
		X	X	X	X	X	X	X
TSS	ss x x		X	X	X	X	X	X
Asbestos	X		X	X	X	X	X	X
Microbial Profile			X	X				
Total Coliform/ E. coli	x	X	X	x	х	X	X	X
Enterococci	X	X	X	X	X	X	X	X
PFAS/PFOS	X		X	X	Х	X	X	
CEC	X		X	X	X	X	X	
Bromide	X		X	X	X	X	X	X
Dioxin/Furan	X		X	Х	X	X	X	X



Water Year WY 2021 Storm Event Sampling Plan

		10/06/21		6/21	10/21/21 10/25		10/25/21	10/27/21		11/02/21		11/03/21		11/09/21	
Analytes	Acronym	California Notification Level (ppt)	SLR Tait St. Diversion	SLR Felton Diversion	SLR Tait St. Diversion	SLR Felton Diversion	Laguna Creek	SLR Tait St. Diversion	SLR Felton Diversion						
Perfluorobutanesulfonic acid	PFBS	500				2.2	2.5	3.0	2.6	2.1	2.2	2.1	2.0		2.1
Perfluorooctanesulfonic acid	PFOS	6.5	2.2	2.3	4.2	4.7				3.1	2.3	2.0	2.0	4.0	3.2
Perfluorooctanoic acid	PFOA	5.1			2.6	3.0		2.5	2.1	2.9	2.0		2.0	2.5	2.3

Summary of Per- and Polyfluoroalkyl Substances (PFAS) Measured in Source Waters and Finished Water between October 1, 2021 and November 31, 2021. All results are reported in parts per trillion (ppt)

Pathogens

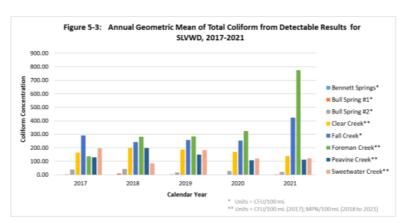
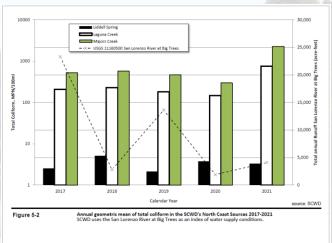
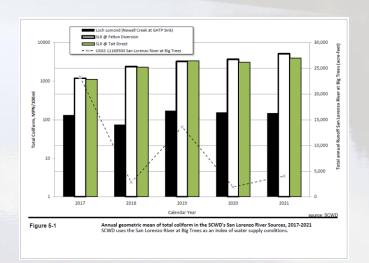
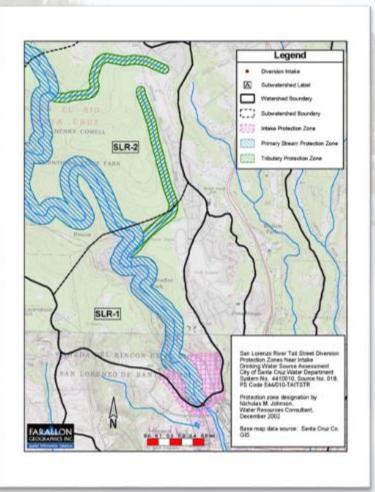


Figure 5-3: Annual Geometric Mean of Total Coliform from Detectable Results for SLVWD, 2017-2021





Source Water Protection Riparian Protection and Restoration



San Lorenzo River Riparian Conservation Program









May 2018

Developed by:

City of Santa Cruz Water Department Coastal Watershed Council County of Santa Cruz Water Resources Division Resource Conservation District of Santa Cruz County San Lorenzo Valley Water District

With assistance from:

Conservation Collaborative conservacoflab@gmail.com

Source Water Protection

Outreach and Education



Source Water Protection Stakeholder Engagement













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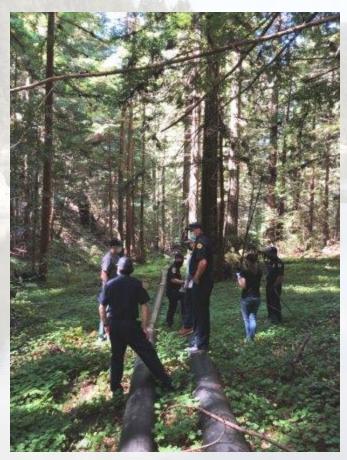
TO THE CITY OF SANTA CRUZ () Mr. Christinov. Waserbar Compliance Manager 112 Languis Broad Sente CAss, CA 95060

RE: APN INC-181-10 1187 Emptor Grade, Novio Cive, CA 90000

One Members of the Board of Reportation, County Administration and Staff, Control Communico, Administration and Staff, and City Watershot Management Staff.

We not writing as Stony Disco madesis and religiblests of the soliton 60 acre properly. We see setting about a sociony violation, a possessi plan violation, a partie stutument, a result state lighting nutualists, a potential few

Source Water Protection Regulator Engagement





Source Water Protection Policy Maker Engagement





WATER DEPARTMENT SU Locar Street, Sale A. Sonta-Creet, CA 95868 - 813-428-4280

Central Coast Water Board After John Imman 895 Aerovista Place, Suite 101 San Luis Obispo, CA 93401

October 7, 2021

Subject: Comments - 2021 Triennial Review of the Water Quality Control Plan for the Central Coastal Basin

Dear John Inman and Central Coast Water Board Staff,

The City of Santa Cruz Water Department appreciates the opportunity to comment on the 2021. Trisonnial Review of the Water Quality Control Plan for the Central Countil Basin. As a domestic dividing water provider to over 90,000 outstoners served primarily by surface water, the City of Santa Cruz Water Department is very interested in the current Sasin Plan review process. Please consider the following comments as you proceed:

Brief Issue Descriptions, Issue 36: Revise Storm Season Start Date to October 1

Regarding the revision of the storm season start date to October 1, while the City supports a policy that compile project sizes to be prepared for early season raises, an October 1st start date is inconsistent with several TMDLs and with other state agencies' standards. An October 15th or November 1st start date would allow for flexibility and would be better aligned with our changing climate, where significant raises prior to November are an increasingly rare occurrence. A later date would also spare many organizations from having to use exits resources on preparation and revision of writer operation plans which are generally unnecessary since projects are often completed in mid-October.

Create site-specific turbidity and pathogen objects extending 5-miles upstream of the City's San Lorenzo River surface water diversion at Talt Street

As the San Lorenzo River in the primary water source for the City of Santa Cruz, we would like increased focus on protecting the Manopal and Domestic Supply (MLR) beneficial uses than are currently incorporated into the bosin plan. To better protect the MLR beneficial uses are suggest lovering acceptable turbolly and pathogos levels for maches upstream of the main diversion near Crossing Street in the City of Santa Cruz.

<u>Other inpo giment and to Minted 2</u>) with site specific objectives. If or instance, using a value of 15 NTU, which is in between the secondary MCI, for furfally of 5 NTU and the 25 NTU regional value, for 5 miles upstream of the diversion would be useful to regulate decharges in addition to helping meet annual load targets of the sediment TMCI.

Writer water from the San Lorence is rapidly becoming more important to municipal use in terms of groundwater rechange projects. Having the pathogen and turbidity standards applied for this reach on a year-opunit basis will further protect MUN beneficial uses. It is our position

