



Dedicated to Providing High-Quality Water Service in a Cost-Effective and Environmentally Sensitive Manner

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Director, Division 1

**David W. Pedersen, P. E.**

General Manager

**W. Keith Lemieux**

Counsel

**HEADQUARTERS**

4232 Las Virgenes Road

Calabasas, CA 91302

(818) 251-2100

Fax (818) 251-2109

**WESTLAKE**

FILTRATION PLANT

(818) 251-2370

Fax (818) 251-2379

**TAPIA WATER**

RECLAMATION FACILITY

(818) 251-2300

Fax (818) 251-2309

**RANCHO LAS VIRGENES**

COMPOSTING FACILITY

(818) 251-2340

Fax (818) 251-2349

[www.LVMWD.com](http://www.LVMWD.com)

MEMBER AGENCY OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

**Glen D. Peterson**

MWD Representative

**THIS MEETING WILL BE CONDUCTED PURSUANT TO AB 361, WHICH SUSPENDS CERTAIN REQUIREMENTS OF THE RALPH M. BROWN ACT TO SUPPORT SOCIAL DISTANCING GUIDELINES ASSOCIATED WITH RESPONSE TO THE CORONAVIRUS (COVID-19) OUTBREAK. BOARD MEMBERS AND STAFF MAY PARTICIPATE IN THE MEETING BY TELECONFERENCE. THE PUBLIC IS STRONGLY ENCOURAGED TO PARTICIPATE ELECTRONICALLY AT [www.LVMWD.com/LiveStream](http://www.LVMWD.com/LiveStream).**

**TO JOIN THE WEBINAR VIA COMPUTER, PLEASE USE THE FOLLOWING ZOOM WEBINAR ID:**

<https://us06web.zoom.us/j/84443786280>

**TO JOIN BY TELEPHONE, PLEASE DIAL (669) 900-6833 OR (346) 248-7799 AND ENTER WEBINAR ID: 844 4378 6280**

Call and Notice of Special Meeting of the Board of Directors of Las Virgenes Municipal Water District

A Special Meeting of the Board of Directors of Las Virgenes Municipal Water District is hereby called and notice of said Special Meeting is hereby given for **9:00 a.m. on Thursday, October 6, 2022**, at Las Virgenes Municipal Water District, 4232 Las Virgenes Road, Calabasas, California 91302 to consider the following:

1. Call to Order and Roll Call
2. Special Meeting of October 6, 2022 (Agenda attached)
3. Adjourn

By Order of the Board of Directors  
**JAY LEWITT**, President

David W. Pedersen, P.E.  
Deputy Secretary of the Board

c: Each Director  
Dated: September 28, 2022

**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**4232 Las Virgenes Road**  
**Calabasas, CA 91302**

**AGENDA**  
**LVMWD BOARD OF DIRECTORS - SPECIAL MEETING**  
**THURSDAY, OCTOBER 6, 2022 – 9:00 AM**

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Public Participation for Meetings of Las Virgenes Municipal Water District Board of Directors in Response to COVID-19

Pursuant to AB-361 (Government Code Section 54953(e)), the Las Virgenes Municipal Water District Board of Directors finds health concerns dictate offer the public and directors the opportunity to attend board meetings via teleconferencing.

**PUBLIC PARTICIPATION:** Pursuant to AB-361 and given the current health concerns, this meeting is being conducted via Zoom Webinar and all attendees are muted by default. To join via computer, please use the following Webinar ID:

Webinar ID: <https://us06web.zoom.us/j/84443786280>

To join by telephone, please dial (669) 900-6833 or (346) 248-7799 and enter Webinar ID: **84443786280**

For members of the public wishing to address the Board during Public Comment or during a specific agenda item, please press "Raise Hand" if you are joining via computer, or press \*9 if you are joining via phone.

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

**ACCESSIBILITY:** If requested, the agenda and backup materials will be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in the implementation thereof. Any person who requires a disability-related modification, accommodation, aid, or service by contacting the Executive Assistant/Clerk of the Board by telephone at (818) 251-2123 or via email to [jguzman@lvmwd.com](mailto:jguzman@lvmwd.com) no later than 9:00 AM on the day before the scheduled meeting.

**Members of the public wishing to address the Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols, complete a speakers'**

card, and hand it to the Clerk of the Board. Speakers will be recognized in the order the cards are received. A live webcast of the meeting will be available at LVMWD.com. Also, a web-based version of the speaker card is available for those who would like to submit written comments electronically or request to make public comment by telephone during the meeting.

## **PLEDGE OF ALLEGIANCE**

1. **CALL TO ORDER AND ROLL CALL**
2. **APPROVAL OF AGENDA AND APPROVAL OF FINDINGS OF RESOLUTION NO. 2609 (AB361)**
3. **PUBLIC COMMENTS**

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

4. **CONSENT CALENDAR**

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

- 4.A **List of Demands: October 06, 2022 (Pg. 6)**  
Receive and file.
- 4.B **Minutes: Regular Meeting of September 20, 2022 (Pg. 45)**  
Approve.
- 4.C **Continuation of Local State of Emergency Due to Water Shortage from Statewide Drought (Pg. 53)**  
Approve the continuation of a local emergency declaration due to water shortage from the statewide drought.
- 4.D **Monthly Cash and Investment Report: August 2022 (Pg. 55)**  
Receive and file the Monthly Cash and Investment Report for August 2022.
- 4.E **Statement of Revenues, Expenses and Changes in Net Position: July 2022 (Pg. 72)**  
Receive and file the Statement of Revenues, Expenses and Changes in Net Position for the period ending on July 31, 2022.
- 4.F **Proposed Insurance Provider Plan Changes and Renewals (Pg. 75)**  
Accept the proposals from Beam Dental, in the annual amount of \$129,465, for employee dental insurance with a three-year rate guarantee, BBP Admin, in the annual amount of \$2,425, for employee flexible spending accounts, and Anthem Blue Cross, in the annual amount of \$79,195, for employee life and accidental

death/dismemberment insurance, and short- and long-term disability coverage.

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

5.A **Proclamation in Recognition of Water Professionals Week**

5.B **Legislative and Regulatory Updates**

5.C **Drought and Water Supply Conditions (Pg. 83)**

5.D **Briefing on Strategic Drought Messaging and Outreach (Pg. 85)**

6. **TREASURER**

7. **FACILITIES AND OPERATIONS**

7.A **Tapia Carbon Tower Media Replacement: Authorization (Pg. 103)**

Authorize the General Manager to issue a purchase order to Carbon Activated Corporation, in the amount of \$55,597.16, for carbon tower media replacement at the Tapia Water Reclamation Facility and Lift Station Nos. 1 and 2.

7.B **Tapia Tertiary Filter Media Replacement: Authorization (Pg. 105)**

Authorize the General Manager to execute a service agreement with Karbonous, Inc., in the amount of \$115,526, for the replacement of media in Tertiary Filter Nos. 9 and 10 at the Tapia Water Reclamation Facility.

8. **FINANCE AND ADMINISTRATION**

8.A **Financial Review for Fiscal Year 2021-22 (Pg. 107)**

Receive and file the financial review for Fiscal Year 2021-22, and adopt the updated Capital Improvement Program Budget for Fiscal Year 2022-23.

9. **ENGINEERING AND EXTERNAL AFFAIRS**

9.A **2022 Las Virgenes Reservoir (Westlake) Dam Settlement Report (Pg. 129)**

Receive and file the 2022 Las Virgenes Reservoir (Westlake) Dam Settlement Report.

9.B **LVUSD 4th and 5th Grade Science Team Water-Related Curriculum: Two-Year Grant Agreement (Pg. 181)**

Authorize the General Manager to execute a two-year grant agreement with Las Virgenes Unified School District, in the total amount of \$214,000, and appropriate an additional \$107,000 in the Fiscal Year 2022-23 Budget for the 4th and 5th Grade Science Team water-related curriculum.

10. **NON-ACTION ITEMS**

A. *Organization Reports*

B. *Director's Reports on Outside Meetings*

C. *General Manager's Reports*

(a) *General Business*

(b) *Follow-up Items*

*D. Director's Comments*

11. **FUTURE AGENDA ITEMS**

12. **PUBLIC COMMENTS**

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

13. **ADJOURNMENT**

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

LAS VIRGENES MUNICIPAL WATER DISTRICT

To: LYNDA LO-HILL, TREASURER

Payments for Board Meeting of : October 6, 2022

Deputy Treasurer has verified that all checks and wire transfers were issued in conformance with LVMWD Administrative Code Section 2-6.203.

Wells Fargo Bank A/C No. 4806-994448

Checks Nos. 104828 through 104948 were issued in the total amount of \$ 638,873.19

**Payments through direct disbursements as follows:**

Las Virgenes Municipal Water District payment number 23043 through 23053 \$ 3,046.62

**Total Payments** \$ 641,919.81

(Reference is hereby to these demands on file in the District's Check Register and by this reference the same is incorporated herein and made a part hereof.)

**CHECK LISTING FOR BOARD MEETING  
10/6/2022**

Company Name	Company No.	Check No. 104828-104888 09/06/22 Amount	Check No. 104889-104948 09/13/22 Amount	Total
Potable Water Operations	101	72,420.52	18,246.43	90,666.95
Recycled Water Operations	102	8,334.00		8,334.00
Sanitation Operations	130		15,530.38	15,530.38
Potable Water Construction	201			-
Water Conservation Construction	203			-
Sanitation Construction	230			-
Potable Water Replacement	301	80,193.13	2,062.50	82,255.63
Reclaimed Water Replace	302			-
Sanitation Replacement	330			-
Internal Service	701	65,176.94	55,425.77	120,602.71
JPA Operations	751	250,655.68	68,442.49	319,098.17
JPA Construction	752			-
JPA Replacement	754	2,385.35		2,385.35
	<b>Total Printed</b>	<b>479,165.62</b>	<b>159,707.57</b>	<b>638,873.19</b>
<b>Voided Checks/payment stopped:</b>				
				-
				-
				-
				-
	<b>Total Voids</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Net Total</b>	<b>479,165.62</b>	<b>159,707.57</b>	<b>638,873.19</b>

**DIRECT DISBURSEMENTS LISTING FOR BOARD MEETING  
10/6/2022**

		Direct Disb. No. 23043-23053 09/06/22	
Company Name	Company No.	Amount	Total
Potable Water Operations	101	-	-
Recycled Water Operations	102	-	-
Sanitation Operations	130	129.98	129.98
Potable Water Construction	201	-	-
Water Conservation Construction	203	-	-
Sanitation Construction	230	-	-
Potable Water Replacement	301	-	-
Reclaimed Water Replace	302	-	-
Sanitation Replacement	330	-	-
Internal Service	701	1,672.46	1,672.46
JPA Operations	751	1,244.18	1,244.18
JPA Construction	752	-	-
JPA Replacement	754	-	-
<b>Total Printed</b>		<b>3,046.62</b>	<b>3,046.62</b>
<b>Voided Direct Disbursements:</b>		-	-
<b>Total Voids</b>		<b>-</b>	<b>-</b>
<b>Totals</b>		<b>3,046.62</b>	<b>3,046.62</b>



## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104828	09/06/2022	PRTD	2317 ACORN NEWSPAPER	188712	08/13/2022		090622	830.40
Invoice: 188712								
				830.40 701230	660400			
							INVOICE DTL DESC	
							2X10 DISPLAY AD	
							Public Education Programs	
							CHECK 104828 TOTAL:	830.40
104829	09/06/2022	PRTD	17077 AECOM USA, INC.	2000656583	08/12/2022		090622	130.50
Invoice: 2000656583								
				130.50 754440	900000			
							P/E 7/29/22 DSGN SRV - TAPIA EFFLNT	
							Capital Asset Expenses	
							CHECK 104829 TOTAL:	130.50
104830	09/06/2022	PRTD	30339 ALESHIRE & WYNDER, LLP	LVMWD/JUL'22	08/10/2022		090622	17,717.70
Invoice: LVMWD/JUL'22								
				8,044.00 701121	650000			
							LEGAL SERVICES - JUL'22	
							Legal Services	
							Outside Services	
							Outside Services	
							Outside Services	
							Outside Services	
							Outside Services	
							Outside Services	
							Outside Services	
							Outside Services	
							CHECK 104830 TOTAL:	17,717.70
104831	09/06/2022	PRTD	30119 ATS COMMUNICATIONS	7-2022	08/12/2022		090622	3,285.00
Invoice: 7-2022								
				3,285.00 701310	552500			
							JUL'22 CELL SITE MGMT	
							Consulting Services	
							CHECK 104831 TOTAL:	3,285.00
104832	09/06/2022	PRTD	7770 AUTOMATIONDIRECT.COM	13956972	08/10/2022		090622	204.77
Invoice: 13956972								
				204.77 701002	551000			
							TRANSFORMER & FUSE KIT	
							Supplies/Material	
							CHECK 104832 TOTAL:	204.77
104833	09/06/2022	PRTD	5625 ASSOC. OF WATER AGENCIES OF VENTU	06-14274	08/15/2022		090622	1,000.00
Invoice: 06-14274								
				1,000.00 701122	710500			
							'22 AWAVC ELECTED OFFICIALS RECEPTION SPONSOR 9/15	
							Dues, Subsc & Memberships	
							CHECK 104833 TOTAL:	1,000.00
104834	09/06/2022	PRTD	2487 CALABASAS CHAMBER OF COMMERCE	4042130	08/09/2022		090622	500.00
Invoice: 4042130								
				500.00 701230	660400			
							LUNCH SPONSORSHIP 9/14	
							Public Education Programs	

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
							CHECK 104834 TOTAL:	500.00
104835	09/06/2022	PRTD	30050 CANON FINANCIAL SERVICES, INC.	29026388	08/12/2022		090622	677.81
			Invoice: 29026388	677.81 701420 620500	AUG'22 CANON COPIER LEASE Equip Rental			
							CHECK 104835 TOTAL:	677.81
104836	09/06/2022	PRTD	5256 CMTA	300003119	08/19/2022		090622	95.00
			Invoice: 300003119	95.00 701440 710500	CMTA MEMBERSHIP DUES Dues, Subsc & Memberships			
							CHECK 104836 TOTAL:	95.00
104837	09/06/2022	PRTD	16364 D&H WATER SYSTEMS INC.	12022-1091	08/16/2022		090622	333.70
			Invoice: 12022-1091	333.70 101600 541000	PATASSIUM IODIDE REAGENT FOR CHLORINE ANALYZERS Supplies/Material			
			Invoice: 12022-1078	1,739.92 101600 541000	08/12/2022		090622	1,739.92
			D&H WATER SYSTEMS INC.	12022-1078	SPARE PARTS FOR SODIUM HYPOCHLORITE SYSTEM Supplies/Material			
							CHECK 104837 TOTAL:	2,073.62
104838	09/06/2022	PRTD	11330 DIAL SECURITY	433346	08/11/2022		090622	3,510.00
			Invoice: 433346	3,510.00 701221 622000	WATER CONSERV PATROL 8/1-8/5/22 Outside Services			
							CHECK 104838 TOTAL:	3,510.00
104839	09/06/2022	PRTD	20685 DOCUMENT SYSTEMS INC	IN2866118	08/11/2022		090622	236.85
			Invoice: IN2866118	236.85 701420 621500	CANON MAINT AUG & OVRG JULY System Support and Maintenance			
							CHECK 104839 TOTAL:	236.85
104840	09/06/2022	PRTD	7217 ENGINEERING NEWS-RECORD	4038/MBR/22-23	08/29/2022		090622	108.00
			Invoice: 4038/MBR/22-23	108.00 701310 710500	ENR DIGITAL SUBSCRIPTION 10/2022 - 10/2023 Dues, Subsc & Memberships			
							CHECK 104840 TOTAL:	108.00

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
104841	09/06/2022	PRTD	2658 FEDERAL EXPRESS CORP	7-849-55845	08/12/2022		090622	57.40
			Invoice: 7-849-55845					
				57.40 701440 551500			MAIL SRVCS SMALL CLAIMS POS Outside Services	
							CHECK 104841 TOTAL:	57.40
104842	09/06/2022	PRTD	2655 FERGUSON ENTERPRISES	10660/PMT#20	08/08/2022		090622	80,130.13
			Invoice: 10660/PMT#20					
				80,130.13 301440 900000			PMT #20 AMR/AMI PRJ P/E 7/22/22 Capital Asset Expenses	
							CHECK 104842 TOTAL:	80,130.13
104843	09/06/2022	PRTD	2660 FISHER SCIENTIFIC	5520032	08/15/2022		090622	186.56
			Invoice: 5520032					
				186.56 701341 551000			SPORE STRIPS Supplies/Material	
							CHECK 104843 TOTAL:	186.56
104844	09/06/2022	PRTD	2701 GRAINGER	9416879725	08/19/2022		090622	24.12
			Invoice: 9416879725					
				24.12 101600 541000			VACUUM ACCESSORY Supplies/Material	
							CHECK 104844 TOTAL:	24.12
104845	09/06/2022	PRTD	2705 HACH COMPANY	13180945	08/04/2022		090622	355.14
			Invoice: 13180945					
				355.14 701341 551000			COD DIGESTION Supplies/Material	
							CHECK 104845 TOTAL:	355.14
104846	09/06/2022	PRTD	7421 HAMNER, JEWELL AND ASSOCIATES	201891	08/10/2022		090622	63.00
			Invoice: 201891					
				63.00 301440 900000			P/E 7/31/22 EMGNCY GENERATOR Capital Asset Expenses	
							CHECK 104846 TOTAL:	63.00
104847	09/06/2022	PRTD	10102 INFOSEND INC.	216793	07/10/2022		090622	479.30
			Invoice: 216793					
				479.30 701221 622000			DATA PROCESSING/MAIL PREP Outside Services	
			INFOSEND INC.	218201	07/29/2022		090622	7,596.92
			Invoice: 218201					
				7,596.92 701221 622000			JULY '22 BILL PYMT MAILING Outside Services	

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC								
							CHECK 104847 TOTAL:	8,076.22
104848	09/06/2022	PRTD	20823 INVOICE CLOUD INC.	964-2022_6	06/30/2022		090622	7,625.21
			Invoice: 964-2022_6	7,625.21 701221 622000	INVOICE CLOUD FEES-JUN'22 Outside Services			
			Invoice: 964-2022_7	5,906.30 701221 622000	INVOICE CLOUD FEES-JUL'22 Outside Services			
							CHECK 104848 TOTAL:	13,531.51
104849	09/06/2022	PRTD	30419 KIMBERLY FOLTZ	087227/082422	08/24/2022		090622	32.59
			Invoice: 087227/082422	32.59 101 230500	RFND FINAL CR BAL 0001050376-087227 Deposit Refd Clearing-Billing			
							CHECK 104849 TOTAL:	32.59
104850	09/06/2022	PRTD	30418 KMADN CAPITAL MGMT	089052/082422	08/24/2022		090622	54.58
			Invoice: 089052/082422	54.58 101 230500	RFND FINAL CR BAL 0000170680-089052 Deposit Refd Clearing-Billing			
							CHECK 104850 TOTAL:	54.58
104851	09/06/2022	PRTD	2611 LA DWP	8756980000/081722	08/17/2022		090622	14,367.12
			Invoice: 8756980000/081722	14,367.12 101106 540510	TWIN LAKES P/S 7/15-8/16/22 Energy		56,720KH	
			Invoice: 8512601000/082422	44.32 101700 540510	RECTIFIER 7/26-8/24/22 Energy			
							CHECK 104851 TOTAL:	14,411.44
104852	09/06/2022	PRTD	3038 LARRY WALKER & ASSOC	00532.03-5	08/17/2022		090622	5,868.00
			Invoice: 00532.03-5	5,868.00 751810 542500	P/E 7/31 - CHLORIDE SSO DEVEL Consulting Services			
			Invoice: 00532.04-5	8,334.00 102100 551500	P/E 7/31 - RWENG REPORT UPDT Outside Services			
							CHECK 104852 TOTAL:	14,202.00

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104853	09/06/2022	PRTD	21463 LOREN BRUGGER WELDING	07722	08/12/2022		090622	3,930.00
			Invoice: 07722	3,930.00 751810 551500	TAPERED BIN WELDING Outside Services			
			Invoice: 07720	6,715.00 751810 551500	LOREN BRUGGER WELDING ANGER BIN GRATING Outside Services		090622	6,715.00
							CHECK 104853 TOTAL:	10,645.00
104854	09/06/2022	PRTD	2814 MCMaster-CARR SUPPLY CO	82795956	08/09/2022		090622	591.07
			Invoice: 82795956	591.07 751820 551000	AIRLINE LUBRICATORS FOR RLV REACTOR RAMP GATES Supplies/Material			
			Invoice: 82783698	1,296.59 751820 551000	MCMaster-CARR SUPPLY CO AIRLINE LUBRICATORS FOR RLV REACTOR RAMP GATES Supplies/Material		090622	1,296.59
			Invoice: 83349934	430.02 751820 551000	MCMaster-CARR SUPPLY CO MATERIALS FOR AGITATOR Supplies/Material		090622	430.02
							CHECK 104854 TOTAL:	2,317.68
104855	09/06/2022	PRTD	14322 MILES CHEMICAL COMPANY, INC	663607	08/02/2022	2230006	090622	1,709.85
			Invoice: 663607	1,709.85 754440 900000	40% SULFURIC ACID 2368 LBS Capital Asset Expenses			
							CHECK 104855 TOTAL:	1,709.85
104856	09/06/2022	PRTD	2839 MOTION INDUSTRIES, INC.	CA22-00727643	08/15/2022		090622	798.42
			Invoice: CA22-00727643	798.42 751820 551000	HYDRAULIC FILTERS Supplies/Material			
			Invoice: CA22-00727725	149.50 751820 551000	MOTION INDUSTRIES, INC. SHEAVE PARTS Supplies/Material		090622	149.50
			Invoice: CA22-00727456	257.65 751820 551000	MOTION INDUSTRIES, INC. HYDRAULIC PARTS Supplies/Material		090622	257.65
							CHECK 104856 TOTAL:	1,205.57
104857	09/06/2022	PRTD	2846 NATIONAL PLANT SERVICES INC	18122	08/08/2022		090622	3,530.00
			Invoice: 18122	3,530.00 751820 551500	OPEN & CLEAN 6" DRAIN Outside Services			

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>				
	CHECK	104857	TOTAL:	3,530.00
104858 09/06/2022 PRTD 30417 NICHOLAS CAMADECA	033836/082422	08/24/2022	090622	68.19
Invoice: 033836/082422	68.19 101 230500	RFND FINAL CR BALANCE 0000521156-033836	Deposit Refd Clearing-Billing	
	CHECK	104858	TOTAL:	68.19
104859 09/06/2022 PRTD 16372 OLIN CORPORATION	3000145665	08/16/2022	090622	4,654.18
Invoice: 3000145665	4,654.18 751810 541014	4,824 GAL SODIUM HYPOCHLORITE	Sodium Hypochlorite	
Invoice: 3000141654	4,750.66 751810 541014	4,924 GAL SODIUM HYDROCHLORITE	Sodium Hypochlorite	
	CHECK	104859	TOTAL:	9,404.84
104860 09/06/2022 PRTD 21659 ONTARIO REFRIGERATION SERVICE, IN GW23525	GW23525	07/28/2022	090622	1,130.18
Invoice: GW23525	1,130.18 751820 551500	SERVICE CALL 7/22/22	Outside Services	
Invoice: GW23524	559.43 701002 551500	SERVICE CALL 7/22/22	Outside Services	
	CHECK	104860	TOTAL:	1,689.61
104861 09/06/2022 PRTD 17326 RINCON CONSULTANTS, INC.	41548	08/15/2022	090622	545.00
Invoice: 41548	545.00 754440 900000	P/E 7/31/22 TAPIA OUTFALL	Capital Asset Expenses	
	CHECK	104861	TOTAL:	545.00
104862 09/06/2022 PRTD 20124 RON'S PORTABLE WELDING	6871	08/15/2022	090622	360.00
Invoice: 6871	360.00 101700 551500	COUPLING REPAIR	Outside Services	
	CHECK	104862	TOTAL:	360.00
104863 09/06/2022 PRTD 17174 ROTH STAFFING COMPANIES, LP	14225524	08/12/2022	090622	2,332.94
Invoice: 14225524	2,332.94 701221 622000	8/1 - 8/5/22 TEMP SERVICES	Outside Services	

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC									
							CHECK	104863 TOTAL:	2,332.94
104864	09/06/2022	PRTD	4586 ROYAL INDUSTRIAL SOLUTIONS	9009-1024592	08/17/2022		090622	24.09	
			Invoice: 9009-1024592	24.09 751820 550000	ELECTRICAL SUPPLIES Labor				
			Invoice: 9009-1024704	470.30 751820 551000	ELECTRICAL SUPPLIES Supplies/Material			470.30	
			Invoice: 9009-1024729	149.17 751820 551000	ELECTRICAL SUPPLIES Supplies/Material			149.17	
							CHECK	104864 TOTAL:	643.56
104865	09/06/2022	PRTD	20583 RT LAWRENCE CORPORATION	47448	08/18/2022		090622	896.16	
			Invoice: 47448	896.16 701221 622000	LOCKBOX FEES - JUL'22 Outside Services				
							CHECK	104865 TOTAL:	896.16
104866	09/06/2022	PRTD	20779 SAND MATERIALS & AGGREGATE SALES, 82467		07/19/2022	2240001	090622	3,187.48	
			Invoice: 82467	3,187.48 751820 551000	REPLENISH GRAVEL USED IN REACTOR FLOOR BAYS Supplies/Material				
							CHECK	104866 TOTAL:	3,187.48
104867	09/06/2022	PRTD	6766 SAWYER PETROLEUM	181412	07/08/2022		090622	3,396.66	
			Invoice: 181412	1,765.44 751820 541000	RED EYE DIESEL Supplies/Material				
			Invoice: 181413	1,631.22 751830 541000	RED EYE DIESEL Supplies/Material				
			Invoice: 181413	1,389.07 701325 551000	RED EYE DIESEL Supplies/Material			1,389.07	
							CHECK	104867 TOTAL:	4,785.73
104868	09/06/2022	PRTD	30117 SOUTHERN CALIFORNIA NEWS GROUP	0011543170	07/31/2022		090622	700.00	
			Invoice: 0011543170	700.00 701230 660400	JUL '22 - DIGITAL AD Public Education Programs				
							CHECK	104868 TOTAL:	700.00

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INVOICE DTL	DESC	INV DATE	PO	CHECK RUN	NET
104869	09/06/2022	PRTD	2957 SOUTHERN CALIFORNIA EDISON (M-BIL 57161/082322	57161/082322	08/23/2022	090622				51,764.03
			Invoice: 57161/082322	51,764.03	751820	540510	RLV COMPOST PLNT 7/25-8/22/22			
							Energy			
			Invoice: 77683/082322	19.07	751750	540510	BLDG 1 EV-PWP 7/25-8/22/22		090622	19.07
							Energy			
			Invoice: 90504/082222	2,503.82	751810	678800	N.CYN P/S 6/30-7/31/22		090622	2,503.82
							District Sprayfield			
								CHECK	104869 TOTAL:	54,286.92
104870	09/06/2022	PRTD	2957 SOUTHERN CALIFORNIA EDISON ATT. E 45743/083022	45743/083022	08/30/2022	090622				100,124.87
			Invoice: 45743/083022	50,062.44	751127	540510	RW P/S 8/1-8/29 438,811 KH			
				50,062.43	751128	540510	Energy			
							Energy			
								CHECK	104870 TOTAL:	100,124.87
104871	09/06/2022	PRTD	2958 SOUTHERN CALIFORNIA GAS CO (M-Bil 84003/082422	84003/082422	08/24/2022	090622				38.30
			Invoice: 84003/082422	38.30	101101	540530	CONDUIT 7/22-8/22 11 THERMS			
							Gas			
								CHECK	104871 TOTAL:	38.30
104872	09/06/2022	PRTD	17375 SOUTHERN CALIFORNIA WATER COALITI 1639	1639	08/10/2022	090622				5,000.00
			Invoice: 1639	5,000.00	701122	710500	ANNUAL PATRON MEMBERSHIP 7/1-6/30/23			
							Dues, Subsc & Memberships			
								CHECK	104872 TOTAL:	5,000.00
104873	09/06/2022	PRTD	12149 THATCHER CO. OF CALIFORNIA	2022100120244	08/16/2022	090622				6,624.00
			Invoice: 2022100120244	6,624.00	751810	541011	45,000 LBS SODIUM BISULFITE			
							Sodium Bisulfite			
								CHECK	104873 TOTAL:	6,624.00
104874	09/06/2022	PRTD	7454 THE GRADALL RENTAL CO.	8222	08/10/2022	090622				29,120.00
			Invoice: 8222	29,120.00	751820	541700	REMOVE AND REPLACE BIOFILTER M			
							Odor Control			
								CHECK	104874 TOTAL:	29,120.00



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104875	09/06/2022	PRTD	20971 THOUSAND OAKS PLUMBING INC.	132532943	08/15/2022		090622	160.00
			Invoice: 132532943	160.00 701001 551500	CLEAR BLOCKAGE IN KITCHEN Outside Services			
					CHECK	104875	TOTAL:	160.00
104876	09/06/2022	PRTD	18095 TOTAL BARRICADE SERVICE, INC.	56363	08/09/2022		090622	795.00
			Invoice: 56363	795.00 101100 541500	TRAFFIC SET UP FOR LANE CLOSURE Outside Services			
			Invoice: 56395	740.00 101100 541500	TRAFFIC CONTROL Outside Services			
			Invoice: 56382	850.00 101100 541500	TRAFFIC CONTROL Outside Services			
					CHECK	104876	TOTAL:	2,385.00
104877	09/06/2022	PRTD	19135 TRANSUNION RISK AND ALTERNATIVE D	974571/JUN'22	07/01/2022		090622	160.00
			Invoice: 974571/JUN'22	160.00 701221 620000	JUN'22 BAD DEBT SRV Forms, Supplies And Postage			
			Invoice: 974571/JUL'22	160.00 701221 620000	JUL'22 BAD DEBT SRV Forms, Supplies And Postage			
					CHECK	104877	TOTAL:	320.00
104878	09/06/2022	PRTD	2325 UNITED RENTALS, INC	208002184-002	08/12/2022		090622	2,305.67
			Invoice: 208002184-002	2,305.67 751820 551500	SKID STEER RENTAL 4 WK 7/25-8/11/22 Outside Services			
					CHECK	104878	TOTAL:	2,305.67
104879	09/06/2022	PRTD	8147 UNIVAR USA INC.	50438773	07/29/2022		090622	3,974.85
			Invoice: 50438773	3,974.85 751820 541000	2,200 LBS CITRIC ACID Supplies/Material			
					CHECK	104879	TOTAL:	3,974.85
104880	09/06/2022	PRTD	2780 VALLEY NEWS GROUP	8-4	08/04/2022		090622	250.00
			Invoice: 8-4	250.00 701230 660400	DISPLAY AD FOR GELATO EVENT Public Education Programs			

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
							CHECK 104880 TOTAL:	250.00
104881	09/06/2022	PRTD	21643 VALLEY SOIL, INC.	26929	08/08/2022		090622	23,976.50
			Invoice: 26929		JULY'22 METER INSTALLS			
			23,976.50	101800 670900	Res. ET Irrigation Controller			
							CHECK 104881 TOTAL:	23,976.50
104882	09/06/2022	PRTD	18604 VENTURA PEST CONTROL	827656	08/02/2022		090622	590.00
			Invoice: 827656		PEST CONTROL JULY '22			
			165.00	101600 551500	Outside Services			
			40.00	701002 551500	Outside Services			
			105.00	751820 551500	Outside Services			
			78.00	701001 551500	Outside Services			
			34.00	751200 551500	Outside Services			
			46.00	751810 551500	Outside Services			
			43.00	101200 551500	Outside Services			
			39.00	751100 551500	Outside Services			
			40.00	751830 551500	Outside Services			
							CHECK 104882 TOTAL:	590.00
104883	09/06/2022	PRTD	3035 VWR SCIENTIFIC	8810345505	08/05/2022		090622	60.39
			Invoice: 8810345505		HARDNESS BUFFER			
			60.39	701341 551000	Supplies/Material			
			Invoice: 8810334570		08/04/2022		090622	774.61
					BRUSHES, FILTER SYRINGES			
			774.61	701341 551000	Supplies/Material			
			Invoice: 8810419604		08/12/2022		090622	32.03
					PARAFILM			
			32.03	701341 551000	Supplies/Material			
							CHECK 104883 TOTAL:	867.03
104884	09/06/2022	PRTD	19685 W. LITTEN INC.	22033	08/15/2022		090622	8,206.30
			Invoice: 22033		SPRAY FIELD 8/8-8/14/22			
			8,206.30	751810 678800	District Sprayfield			
							CHECK 104884 TOTAL:	8,206.30
104885	09/06/2022	PRTD	3025 WATER & SANITATION SRV./VENTURA C	2440142	08/24/2022		090622	21,538.18
			Invoice: 2440142		PCH WATER 7/19-8/16/22			
			21,538.18	101001 510500	Purch Water-Ventura County			

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
							CHECK 104885 TOTAL:	21,538.18
104886	09/06/2022	PRTD	30206 WATER SYSTEMS CONSULTING, INC	6979	07/31/2022		090622	5,381.25
	Invoice: 6979				P/E 7/31 PWP EVENT PLANNING			
				5,381.25 701230 660400	Public Education Programs			
							CHECK 104886 TOTAL:	5,381.25
104887	09/06/2022	PRTD	30388 WATERWISE CONSULTING, INC	7259	07/31/2022		090622	7,250.00
	Invoice: 7259				CUSTOMER EVALS - JULY 22			
				7,250.00 101800 541500	Outside Services			
							CHECK 104887 TOTAL:	7,250.00
104888	09/06/2022	PRTD	18914 WECK LABORATORIES, INC.	W2H2010	08/19/2022		090622	683.70
	Invoice: W2H2010				PW WEEKLY SAMPLING			
				683.70 751750 571520	Other Laboratory Serv			
	Invoice: W2C2412-LV		WECK LABORATORIES, INC.	W2C2412-LV	03/31/2022		090622	567.10
					LABORATORY TESTING OF WATER			
				567.10 751750 571520	Other Laboratory Serv			
							CHECK 104888 TOTAL:	1,250.80
							NUMBER OF CHECKS 61	*** CASH ACCOUNT TOTAL *** 479,165.62
							TOTAL PRINTED CHECKS	COUNT 61 AMOUNT 479,165.62
							*** GRAND TOTAL ***	479,165.62

**A/P CASH DISBURSEMENTS JOURNAL**

JOURNAL ENTRIES TO BE CREATED

CLERK: 3296tchau

YEAR	PER	JNL	SRC	ACCOUNT	JNL	DESC	REF 1	REF 2	REF 3	ACCOUNT	DESC	T	OB	DEBIT	CREDIT
			EFF	DATE						LINE	DESC				
2023	3	24													
APP	701-200000		09/06/2022	090622	090622	Accounts Payable								65,176.94	
						AP CASH DISBURSEMENTS JOURNAL									
APP	999-100100		09/06/2022	090622	090622	Cash-General									479,165.62
						AP CASH DISBURSEMENTS JOURNAL									
APP	754-200000		09/06/2022	090622	090622	Accounts Payable								2,385.35	
						AP CASH DISBURSEMENTS JOURNAL									
APP	751-200000		09/06/2022	090622	090622	Accounts Payable								250,655.68	
						AP CASH DISBURSEMENTS JOURNAL									
APP	101-200000		09/06/2022	090622	090622	Accounts Payable								72,420.52	
						AP CASH DISBURSEMENTS JOURNAL									
APP	301-200000		09/06/2022	090622	090622	Accounts Payable								80,193.13	
						AP CASH DISBURSEMENTS JOURNAL									
APP	102-200000		09/06/2022	090622	090622	Accounts Payable								8,334.00	
						AP CASH DISBURSEMENTS JOURNAL									
						GENERAL LEDGER TOTAL								479,165.62	479,165.62
APP	999-207010		09/06/2022	090622	090622	Due to/Due FromInternal Svcs								65,176.94	
						Cash-General									65,176.94
APP	701-100100		09/06/2022	090622	090622	Due to/Due FromJPA Replacement								2,385.35	
						Cash-General									2,385.35
APP	999-207540		09/06/2022	090622	090622	Due to/Due FromJPA Operations								250,655.68	
						Cash-General									250,655.68
APP	754-100100		09/06/2022	090622	090622	Due to/Due Frm Potable Wtr Ops								72,420.52	
						Cash-General									72,420.52
APP	999-207510		09/06/2022	090622	090622	Due to/Due FrmPotable Wtr Repl								80,193.13	
						Cash-General									80,193.13
APP	751-100100		09/06/2022	090622	090622	Due to/Due Frm Recl Wtr Ops								8,334.00	
						Cash-General									8,334.00
APP	999-201010		09/06/2022	090622	090622	SYSTEM GENERATED ENTRIES TOTAL								479,165.62	479,165.62
						JOURNAL 2023/03/24 TOTAL								958,331.24	958,331.24

**A/P CASH DISBURSEMENTS JOURNAL**  
**JOURNAL ENTRIES TO BE CREATED**

FUND ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION	DEBIT	CREDIT
101 Potable Water Operations 101-100100 101-200000	2023 3	24	09/06/2022	Cash-General Accounts Payable	72,420.52	72,420.52
FUND TOTAL					72,420.52	72,420.52
102 Reclaimed Water Operations 102-100100 102-200000	2023 3	24	09/06/2022	Cash-General Accounts Payable	8,334.00	8,334.00
FUND TOTAL					8,334.00	8,334.00
301 Potable Wtr Replacement Fund 301-100100 301-200000	2023 3	24	09/06/2022	Cash-General Accounts Payable	80,193.13	80,193.13
FUND TOTAL					80,193.13	80,193.13
701 Internal Service Fund 701-100100 701-200000	2023 3	24	09/06/2022	Cash-General Accounts Payable	65,176.94	65,176.94
FUND TOTAL					65,176.94	65,176.94
751 JPA Operations 751-100100 751-200000	2023 3	24	09/06/2022	Cash-General Accounts Payable	250,655.68	250,655.68
FUND TOTAL					250,655.68	250,655.68
754 JPA Replacement 754-100100 754-200000	2023 3	24	09/06/2022	Cash-General Accounts Payable	2,385.35	2,385.35
FUND TOTAL					2,385.35	2,385.35
999 Pooled Cash 999-100100 999-201010 999-201020 999-203010 999-207010 999-207510 999-207540	2023 3	24	09/06/2022	Cash-General Due to/Due Frm Potable Wtr Ops Due to/Due Frm Recl Wtr Ops Due to/Due Frm Potable wtr Repl Due to/Due From Internal Svs Due to/Due From JPA Operations Due to/Due From JPA Replacement	72,420.52 8,334.00 80,193.13 65,176.94 250,655.68 2,385.35	479,165.62
FUND TOTAL					479,165.62	479,165.62

**A/P CASH DISBURSEMENTS JOURNAL**  
 JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
101	Potable Water Operations		72,420.52
102	Reclaimed Water Operations		8,334.00
301	Potable Wtr Replacement Fund		80,193.13
701	Internal Service Fund		65,176.94
751	JPA Operations		250,655.68
754	JPA Replacement		2,385.35
999	Pooled Cash		
		479,165.62	
TOTAL		479,165.62	479,165.62

\*\* END OF REPORT - Generated by Thieu Chau \*\*

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
23043	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474916	08/17/2022			355.18
			Invoice: 4474916					
				355.18 751820 540540	08/17/2022			
					TAPIA 7/11-8/10/22			
					Water			
						CHECK	23043 TOTAL:	355.18
23044	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474950	08/17/2022			7.50
			Invoice: 4474950					
				7.50 701001 540540	08/17/2022			
					FIRE PROTECTION #8 7/11-8/10			
					Water			
						CHECK	23044 TOTAL:	7.50
23045	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474951	08/17/2022			353.30
			Invoice: 4474951					
				353.30 701001 540540	08/17/2022			
					HQ BLDG 7/11-8/10			
					Water			
						CHECK	23045 TOTAL:	353.30
23046	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474936	08/17/2022			427.65
			Invoice: 4474936					
				427.65 751820 540540	08/17/2022			
					RLV 7/11-8/10			
					Water			
						CHECK	23046 TOTAL:	427.65
23047	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474949	08/17/2022			349.36
			Invoice: 4474949					
				349.36 751750 540540	08/17/2022			
					HQ PWP/DEMO 7/11-8/10			
					Water			
						CHECK	23047 TOTAL:	349.36
23048	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474952	08/17/2022			7.50
			Invoice: 4474952					
				7.50 701002 540540	08/17/2022			
					FIRE PROTECTION #7 7/11-8/10			
					Water			
						CHECK	23048 TOTAL:	7.50
23049	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474953	08/17/2022			906.87
			Invoice: 4474953					
				906.87 701002 540540	08/17/2022			
					BLDG #7 7/11-8/10			
					Water			
						CHECK	23049 TOTAL:	906.87
23050	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474954	08/17/2022			397.29
			Invoice: 4474954					
				397.29 701002 540540	08/17/2022			
					BLDG #2 7/11-8/10			
					Water			

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
							CHECK 23050 TOTAL:	397.29
23051	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4475241	08/17/2022			64.99
			Invoice: 4475241		L/S #2 7/13-8/11			
				64.99 130100 540540	Water			
							CHECK 23051 TOTAL:	64.99
23052	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4475307	08/17/2022			64.99
			Invoice: 4475307		L/S #1 7/13-8/11			
				64.99 130100 540540	Water			
							CHECK 23052 TOTAL:	64.99
23053	09/06/2022	MANL	3352 LAS VIRGENES MUNICIPAL WATER DIST	4474937	08/17/2022			111.99
			Invoice: 4474937		SOLAR LANDSCP 7/11-8/10			
				111.99 751820 540540	Water			
							CHECK 23053 TOTAL:	111.99
							NUMBER OF CHECKS 11	*** CASH ACCOUNT TOTAL *** 3,046.62
							TOTAL MANUAL CHECKS	COUNT 11 AMOUNT 3,046.62
							*** GRAND TOTAL ***	3,046.62



**A/P CASH DISBURSEMENTS JOURNAL**

JOURNAL ENTRIES TO BE CREATED

CLERK: 3296jcortez

YEAR	PER	JNL	SRC	ACCOUNT	EFF DATE	JNL	DESC	REF 1	REF 2	REF 3	ACCOUNT	DESC	T	OB	DEBIT	CREDIT
2023	3	29	APP	751-200000	09/06/2022	CASH	DISB	090622			Accounts Payable				1,244.18	
											AP CASH DISBURSEMENTS JOURNAL					
											Cash-General					3,046.62
											AP CASH DISBURSEMENTS JOURNAL					
APP	999-100100	09/06/2022	CASH	DISB	090622						Accounts Payable				1,672.46	
											AP CASH DISBURSEMENTS JOURNAL					
APP	701-200000	09/06/2022	CASH	DISB	090622						Accounts Payable				129.98	
											AP CASH DISBURSEMENTS JOURNAL					
APP	130-200000	09/06/2022	CASH	DISB	090622						GENERAL LEDGER TOTAL				3,046.62	3,046.62
APP	999-207510	09/06/2022	CASH	DISB	090622						Due to/Due FromJPA Operations				1,244.18	
											Cash-General					1,244.18
APP	751-100100	09/06/2022	CASH	DISB	090622						Due to/Due FromInternal Svs				1,672.46	
											Cash-General					1,672.46
APP	999-207010	09/06/2022	CASH	DISB	090622						Due to/Due FrmSanitation Ops				129.98	
											Cash-General					129.98
APP	701-100100	09/06/2022	CASH	DISB	090622						SYSTEM GENERATED ENTRIES TOTAL				3,046.62	3,046.62
APP	999-201300	09/06/2022	CASH	DISB	090622						JOURNAL 2023/03/29				6,093.24	6,093.24
											TOTAL					
APP	130-100100	09/06/2022	CASH	DISB	090622											

**A/P CASH DISBURSEMENTS JOURNAL**  
**JOURNAL ENTRIES TO BE CREATED**

FUND ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION	DEBIT	CREDIT
130 Sanitation Operations 130-100100 130-200000	2023 3	29	09/06/2022	Cash-General		129.98
				Accounts Payable	129.98	
				FUND TOTAL	129.98	129.98
701 Internal Service Fund 701-100100 701-200000	2023 3	29	09/06/2022	Cash-General		1,672.46
				Accounts Payable	1,672.46	
				FUND TOTAL	1,672.46	1,672.46
751 JPA Operations 751-100100 751-200000	2023 3	29	09/06/2022	Cash-General		1,244.18
				Accounts Payable	1,244.18	
				FUND TOTAL	1,244.18	1,244.18
999 Pooled Cash 999-100100 999-201300 999-207010 999-207510	2023 3	29	09/06/2022	Cash-General		3,046.62
				Due to/Due FrmSanitation Ops	129.98	
				Due to/Due FromInternal Sys	1,672.46	
				Due to/Due FromJPA Operations	1,244.18	
				FUND TOTAL	3,046.62	3,046.62

**A/P CASH DISBURSEMENTS JOURNAL**  
JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
130	Sanitation Operations		129.98
701	Internal Service Fund		1,672.46
751	JPA Operations		1,244.18
999	Pooled Cash		
	TOTAL	3,046.62	3,046.62

\*\* END OF REPORT - Generated by Jessica Cortez \*\*

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE    VENDOR NAME

				INVOICE	INV DATE	PO	CHECK RUN	NET
104889	09/13/2022	PRTD	8680 ADS, LLC	22085.22-0822	08/20/2022		091322	3,060.00
			Invoice: 22085.22-0822		SEWER FLOW MONITORING - AUG'22			
				765.00 130100 551500	Outside Services			
				2,295.00 751800 551500	Outside Services			
					CHECK	104889	TOTAL:	3,060.00
104890	09/13/2022	PRTD	30083 AQUATIC GARDENS LLC	12149	08/23/2022		091322	192.85
			Invoice: 12149		SERVICE LVMWD SUSTAINABILITY GARDEN POND			
				192.85 701001 551500	Outside Services			
					CHECK	104890	TOTAL:	192.85
104891	09/13/2022	PRTD	16224 ASBURY ENVIRONMENTAL SERVICES	I500-00852786	08/22/2022		091322	95.00
			Invoice: I500-00852786		WASTE OIL PICKUP - HQ			
				95.00 701325 551500	Outside Services			
					CHECK	104891	TOTAL:	95.00
104892	09/13/2022	PRTD	2869 AT&T	6905/082022	08/20/2022		091322	55.30
			Invoice: 6905/082022		SVCS 8/20-9/19/22			
				55.30 101106 540520	Telephone			
			AT&T	74267952/082322	08/23/2022		091322	65.40
			Invoice: 74267952/082322		SVCS 8/23-9/22			
				65.40 101103 540520	Telephone			
			AT&T	24306744/082322	08/23/2022		091322	67.11
			Invoice: 24306744/082322		SVCS 8/23-9/22			
				67.11 101114 540520	Telephone			
					CHECK	104892	TOTAL:	187.81
104893	09/13/2022	PRTD	7770 AUTOMATIONDIRECT.COM	14031630	08/26/2022		091322	502.61
			Invoice: 14031630		ELECTRICAL SUPPLIES			
				502.61 751820 551000	Supplies/Material			
			AUTOMATIONDIRECT.COM	14005634	08/22/2022		091322	308.79
			Invoice: 14005634		DIGITAL PANEL METER AND MOUNT			
				308.79 101100 551000	Supplies/Material			
					CHECK	104893	TOTAL:	811.40
104894	09/13/2022	PRTD	5625 ASSOC. OF WATER AGENCIES OF VENTU	06-14283	09/01/2022		091322	1,200.00
			Invoice: 06-14283		2022 ANNUAL MEMBER DUES			
				1,200.00 701112 601000	Directors' Conference Exp			

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
Invoice: 083022			ASSOC. OF WATER AGENCIES OF VENTU	083022	08/30/2022		091322	150.00
				150.00 701121 710500	CCWUC ANNUAL MEMBERSHIP FY 22-23 Dues, Subsc & Memberships			
							CHECK 104894 TOTAL:	1,350.00
104895	09/13/2022	PRTD	30237 STEVEN BAIRD	083122	08/31/2022		091322	200.00
			Invoice: 083122	200.00 701230 683000	CAPIO CONFERENCE 08/30/2022 Training & Professional Devel			
							CHECK 104895 TOTAL:	200.00
104896	09/13/2022	PRTD	30423 ROBERT & SOPHIE BASSERI	CLAIM/090522	09/05/2022		091322	5,452.81
			Invoice: CLAIM/090522	5,452.81 101900 714500	CLAIM FILED-FIRE HYDRANT DESTROY LANDSCAPE Claims Paid			
							CHECK 104896 TOTAL:	5,452.81
104897	09/13/2022	PRTD	17273 CALI USA ACOUSTICS, INC.	13140	08/17/2022	2230020	091322	4,200.00
			Invoice: 13140	4,200.00 751820 551500	REACTOR BLDG FRAMEWORK AND CELING TILE REPAIR Outside Services			
							CHECK 104897 TOTAL:	4,200.00
104898	09/13/2022	PRTD	2964 CA ST TREAS. BOE	97-817885/083122	08/31/2022		091322	816.00
			Invoice: 97-817885/083122	816.13 751 206000	USE TAX AUG'22 Use Tax Liability			
				-.13 701999 862500	Other Non-Operating Expense			
							CHECK 104898 TOTAL:	816.00
104899	09/13/2022	PRTD	2554 COASTLINE EQUIPMENT	938011	08/19/2022		091322	518.99
			Invoice: 938011	518.99 701325 551500	FIELD INSPECTION JOHN DEERE 3105G OVERHEAT Outside Services			
							CHECK 104899 TOTAL:	518.99
104900	09/13/2022	PRTD	19270 COMMUNICATIONS RELAY, LLC	59813	09/01/2022		091322	1,096.46
			Invoice: 59813	1,096.46 701420 540520	CASTRO PEAK RENT-SEP'22 Telephone			
							CHECK 104900 TOTAL:	1,096.46

**A/P CASH DISBURSEMENTS JOURNAL**

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE    VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104901	09/13/2022	PRTD	11330 DIAL SECURITY	434189	09/01/2022		091322	355.00
			Invoice: 434189	355.00 701001 551500	SEP'22 SEC SRV-HQ Outside Services			
			Invoice: 434190	271.00 751810 551800	09/01/2022 SEP'22 SEC SRV - TAPIA Building Maintenance		091322	271.00
			Invoice: 434193	125.00 101600 551800	09/01/2022 SEP'22 SEC SRV-WLK Building Maintenance		091322	125.00
			Invoice: 434195	147.00 701001 551500	09/01/2022 SEP'22 SEC SRV - IT ROOM Outside Services		091322	147.00
			Invoice: 434197	114.00 701002 551500	09/01/2022 SEP'22 SEC SRV-OPS Outside Services		091322	114.00
			Invoice: 434192	35.00 751830 551500	09/01/2022 SEP'22 SEC SRV - RLV FARM Outside Services		091322	35.00
			Invoice: 434194	35.00 101600 551800	09/01/2022 SEP'22 SEC SRV - WLK P/S Building Maintenance		091322	35.00
			Invoice: 434198	55.00 751750 551500	09/01/2022 SEP'22 FIRE MONITORING - BLDG 1 Outside Services		091322	55.00
			Invoice: 434196	15.00 751820 551800	09/01/2022 SEP'22 CELL PLAN - RLV Building Maintenance		091322	15.00
			Invoice: 434191	35.00 751820 551800	09/01/2022 SEP'22 SEC SRV - RLV Building Maintenance		091322	35.00
			Invoice: 433520	3,600.00 701221 622000	08/22/2022 WATER CONSRV PATROL 8/8-8/12/22 Outside Services		091322	3,600.00
						CHECK	104901 TOTAL:	4,787.00
104902	09/13/2022	PRTD	18441 EMPLOYEE RELATIONS NETWORK	93448	08/31/2022		091322	171.41
			Invoice: 93448	171.41 701430 681000	EE BACKGROUND CHECKS Recruitment Expense			

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
							CHECK 104902 TOTAL:	171.41
104903	09/13/2022	PRTD	2655 FERGUSON ENTERPRISES	0798785	08/02/2022	22200170	091322	9,607.53
			Invoice: 0798785				HIGH PRESSURE HYDRANTS Storeroom & Truck Inventory	
			9,607.53 701	132000			CHECK 104903 TOTAL:	9,607.53
104904	09/13/2022	PRTD	19397 FIRST CHOICE SERVICES (DAIOHS USA 444811		08/23/2022		091322	69.97
			Invoice: 444811				AUG'22 COFFEE SRV - HQ Forms, Supplies And Postage	
			69.97 701410	620000				
			Invoice: 444812				08/23/2022	92.70
			FIRST CHOICE SERVICES (DAIOHS USA 444812				AUG'22 COFFEE SRV - OPS Forms, Supplies And Postage	
			92.70 701410	620000				
			Invoice: 444813				08/23/2022	71.40
			FIRST CHOICE SERVICES (DAIOHS USA 444813				AUG'22 COFFEE SRV - RLV Forms, Supplies And Postage	
			71.40 701410	620000				
			Invoice: 444814				08/23/2022	98.17
			FIRST CHOICE SERVICES (DAIOHS USA 444814				AUG'22 COFFEE SRV - TAPIA Forms, Supplies And Postage	
			98.17 701410	620000			CHECK 104904 TOTAL:	332.24
104905	09/13/2022	PRTD	2660 FISHER SCIENTIFIC	5723937	08/22/2022		091322	270.76
			Invoice: 5723937				FILTERS Supplies/Material	
			270.76 701341	551000				
			Invoice: 5684011				08/19/2022	1,850.59
			FISHER SCIENTIFIC	5684011			Has TUBES Supplies/Material	
			1,850.59 751820	551000				
			Invoice: 5194758				08/03/2022	258.43
			FISHER SCIENTIFIC	5194758			CHEMICAL REAGENT SUPPLIES FOR WLK PROCESS ANALYZER Supplies/Material	
			258.43 101600	541000				
			Invoice: 5645326				08/18/2022	279.24
			FISHER SCIENTIFIC	5645326			CHEMICAL REAGENT SUPPLIES FOR WLK PROCESS ANALYZER Supplies/Material	
			279.24 101600	541000				
			Invoice: 5723936				08/22/2022	753.21
			FISHER SCIENTIFIC	5723936			CHEMICAL REAGENT SUPPLIES FOR WLK PROCESS ANALYZER Supplies/Material	
			753.21 101600	541000			CHECK 104905 TOTAL:	3,412.23

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC								
104906	09/13/2022	PRTD	2661 FLO-SYSTEMS INC	F18767-22V139	08/17/2022	22200212	091322	13,836.42
			Invoice: F18767-22V139					
				13,836.42	130100	551000	DISC PACKS FOR LIFT STATION SEWAGE PUMP Supplies/Material	
							CHECK 104906 TOTAL:	13,836.42
104907	09/13/2022	PRTD	6770 G.I. INDUSTRIES	2536125-0283-6	08/16/2022		091322	720.95
			Invoice: 2536125-0283-6					
				720.95	751810	541500	8/1-8/15/22 DISP TAPIA RAGS Outside Services	
							CHECK 104907 TOTAL:	720.95
104908	09/13/2022	PRTD	2701 GRAINGER	9403808265	08/08/2022		091322	76.74
			Invoice: 9403808265					
				76.74	751820	551000	TOOL BAG FOR RANCHO Supplies/Material	
			Invoice: 9405173874					
				120.96	701342	623000	SAFETY SUPPLIES RAIN BOOTS Safety Equip	120.96
			Invoice: 9405239063					
				256.60	751820	551000	AUXILARY CONTACT Supplies/Material	256.60
			Invoice: 9405173866					
				263.35	101100	551000	SOLENOID VALVE Supplies/Material	263.35
			Invoice: 9405239055					
				322.28	701342	623000	SAFETY SUPPLIES NITRILE GLOVES Safety Equip	322.28
			Invoice: 9404312580					
				394.72	751750	541000	SUPPLIES Supplies	394.72
			Invoice: 9403878383					
				590.51	751820	551000	LEVER LOCKET SET FOR RANCHO Supplies/Material	590.51
							CHECK 104908 TOTAL:	2,025.16
104909	09/13/2022	PRTD	4409 HARRIS & ASSOCIATES, INC.	53935	08/16/2022		091322	2,062.50
			Invoice: 53935					
				2,062.50	301001	713100	STAND BY CHRGS - 7/3-7/30/22 Standby Chg-outside Svc	



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC								
							CHECK 104909 TOTAL:	2,062.50
104910	09/13/2022	PRTD	10102 INFOSEND INC.	219466	08/31/2022		091322	1,344.47
			Invoice: 219466				FLOW RESTRICTOR LETTER - 2ND REV	
				1,344.47	701221	622000	Outside Services	
							CHECK 104910 TOTAL:	1,344.47
104911	09/13/2022	PRTD	20856 INTERNATIONAL PRINTING & TYPESETT	22876	08/22/2022		091322	1,631.55
			Invoice: 22876				LETTERHEADS & ENVELOPES	
				1,631.55	701410	620000	Forms, Supplies And Postage	
							CHECK 104911 TOTAL:	1,631.55
104912	09/13/2022	PRTD	20823 INVOICE CLOUD INC.	964-2022_8	08/31/2022		091322	8,743.28
			Invoice: 964-2022_8				INVOICE CLOUD FEES - AUG'22	
				8,743.28	701221	622000	Outside Services	
							CHECK 104912 TOTAL:	8,743.28
104913	09/13/2022	PRTD	30422 JAMES GREEN	081922	08/19/2022		091322	113.44
			Invoice: 081922				MWDSC MEETING JUL & AUG '22	
				113.44	701122	711000	Travel / Misc Staff Exp	
							CHECK 104913 TOTAL:	113.44
104914	09/13/2022	PRTD	17447 KONECRANES INC.	154700362	07/07/2022		091322	3,207.17
			Invoice: 154700362				QTRLY CRANE/HOIST INSPCT JUL'22	
				737.65	701325	551500	Outside Services	
				962.15	751820	551500	Outside Services	
				1,026.30	751810	551500	Outside Services	
				64.14	101600	551500	Outside Services	
				64.14	130100	551500	Outside Services	
				352.79	101100	551500	Outside Services	
							CHECK 104914 TOTAL:	3,207.17
104915	09/13/2022	PRTD	30156 JAY LEWITT	082222	08/22/2022		091322	1,618.45
			Invoice: 082222				CASA ANNUAL CONFERENCE 08/10-8/12/22	
				1,618.45	701112	601000	Directors' Conference Exp	
							CHECK 104915 TOTAL:	1,618.45

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104916	09/13/2022	PRTD	8484 LINDE GAS AND EQUIPMENT, INC	30782308	08/23/2022		091322	149.19
			Invoice: 30782308	149.19 101300 551000				
			Invoice: 30853279	30853279	08/23/2022		091322	687.33
			LINDE GAS AND EQUIPMENT, INC	30853279	08/23/2022		091322	687.33
				687.33 101300 551000				
							CHECK 104916 TOTAL:	836.52
104917	09/13/2022	PRTD	30261 LYNDA LO-HILL	083022	08/30/2022		091322	877.75
			Invoice: 083022	877.75 701112 601000				
							CHECK 104917 TOTAL:	877.75
104918	09/13/2022	PRTD	14322 MILES CHEMICAL COMPANY, INC	666094	08/31/2022		091322	356.26
			Invoice: 666094	356.26 751750 541000				
							CHECK 104918 TOTAL:	356.26
104919	09/13/2022	PRTD	2839 MOTION INDUSTRIES, INC.	CA22-00728396	08/30/2022		091322	41.79
			Invoice: CA22-00728396	41.79 751820 551000				
							CHECK 104919 TOTAL:	41.79
104920	09/13/2022	PRTD	2852 NEW PIG CORP	23740449-00	08/24/2022		091322	1,755.23
			Invoice: 23740449-00	1,755.23 751810 572500				
							CHECK 104920 TOTAL:	1,755.23
104921	09/13/2022	PRTD	16372 OLIN CORPORATION	3000152878	09/01/2022		091322	4,671.54
			Invoice: 3000152878	4,671.54 751810 541014				
							CHECK 104921 TOTAL:	4,671.54
104922	09/13/2022	PRTD	21659 ONTARIO REFRIGERATION SERVICE, IN	GW24248M	09/01/2022		091322	361.00
			Invoice: GW24248M	361.00 101100 551500				
							CHECK 104922 TOTAL:	361.00
			ONTARIO REFRIGERATION SERVICE, IN	GW24240M	09/01/2022		091322	471.00

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
				INVOICE DTL DESC				
Invoice: GW24240M				471.00 130100 551500	MAINT 9/1 - 11/30/22		LIFT STATION #1	
					Outside Services			
Invoice: GW23902			ONTARIO REFRIGERATION SERVICE, IN GW23902	1,057.28 751820 551500	08/26/2022		091322	1,057.28
					TROUBLESHOOT CONTROL		BUILDING HVAC	
					Outside Services			
					CHECK		104922 TOTAL:	1,889.28
104923	09/13/2022	PRTD	20581 PERFECT FIT ERGONOMICS LLC	2737	08/30/2022		091322	497.70
			Invoice: 2737	497.70 701430 543000	OFFICE CHAIR		Capital outlay	
					CHECK		104923 TOTAL:	497.70
104924	09/13/2022	PRTD	18983 POWERFLO PRODUCTS, INC.	59929-22	08/17/2022		091322	1,233.17
			Invoice: 59929-22	1,233.17 751810 551000	PAINT FOR WALL PUMPS		TAPIA	
					Supplies/Material			
					CHECK		104924 TOTAL:	1,233.17
104925	09/13/2022	PRTD	2585 PURETEC	2000695	07/31/2022		091322	100.60
			Invoice: 2000695	100.60 701341 551500	8" DI RENTAL 8/1-10/31/22		Outside Services	
Invoice: 2000506			PURETEC	2000506	07/31/2022		091322	273.74
				273.74 701341 551500	14' DI RENTAL 8/1-10/31/22		Outside Services	
Invoice: 2005396			PURETEC	2005396	08/12/2022		091322	318.02
				318.02 701341 551500	TANK EXCHANGE 8/10		Outside Services	
Invoice: 2002605			PURETEC	2002605	07/31/2022		091322	4.67
				4.67 701341 551500	LATE CHARGE #1980978		Outside Services	
Invoice: 1999025			PURETEC	1999025	07/29/2022		091322	88.44
				88.44 101600 541000	WATER CONDITIONING FILTERS		Supplies/Material	
					CHECK		104925 TOTAL:	785.47
104926	09/13/2022	PRTD	17334 QAIR CALIFORNIA	63384	08/04/2022		091322	923.44
			Invoice: 63384	923.44 101600 551500	LAKE COMPRESSOR SERVICES		Outside Services	

## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
					INVOICE DTL DESC			
					CHECK	104926	TOTAL:	923.44
104927	09/13/2022	PRTD	21594 RECYCLED WOOD PRODUCTS	230001	08/30/2022		091322	1,924.00
			Invoice: 230001		130 YDS WOODCHIPS Amendment			
				1,924.00 751820 541080				
			Invoice: 230161	230161	09/02/2022		091322	1,924.00
					130 YDS WOODCHIPS Amendment			
				1,924.00 751820 541080				
			Invoice: 230162	230162	09/02/2022		091322	1,924.00
					130 YDS WOODCHIPS Amendment			
				1,924.00 751820 541080				
			Invoice: 229903	229903	08/29/2022		091322	1,924.00
					130 YDS WOODCHIPS Amendment			
				1,924.00 751820 541080				
					CHECK	104927	TOTAL:	7,696.00
104928	09/13/2022	PRTD	9259 ROCK N ROLL-OFF, INC	452720	08/10/2022		091322	1,282.97
			Invoice: 452720		AMI METER PRJCT LID AND REFUSE DISPOSAL-RANCHO Outside Services			
				1,282.97 701224 551500				
			Invoice: 452900	452900	08/10/2022		091322	1,320.00
					AMI METER PRJCT LID AND REFUSE DISPOSAL-RANCHO Outside Services			
				1,320.00 701224 551500				
			Invoice: 452805	452805	08/10/2022		091322	1,181.06
					AMI METER PRJCT LID AND REFUSE DISPOSAL-RANCHO Outside Services			
				1,181.06 701224 551500				
					CHECK	104928	TOTAL:	3,784.03
104929	09/13/2022	PRTD	17174 ROTH STAFFING COMPANIES, LP	14228773	08/19/2022		091322	2,318.26
			Invoice: 14228773		08/08-08/12/22 TEMP SRVS Outside Services			
				2,318.26 701221 622000				
			Invoice: 14232022	14232022	08/26/2022		091322	3,491.86
					08/15-08/19/22 TEMP SRVCS Outside Services			
				3,491.86 701221 622000				
			Invoice: 14235354	14235354	09/02/2022		091322	3,067.34
					08/22-08/26/22 TEMP SRVCS Outside Services			
				3,067.34 701221 622000				
					CHECK	104929	TOTAL:	8,877.46

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104930	09/13/2022	PRTD	30426 SOLANO GUADALUPE	090722	09/07/2022		091322	599.99
			Invoice: 090722					
				599.99 701430 681500			FRUIT VENDOR APPRECIATION EVENT 9/7/22 Empl Recognition Functions	
							CHECK 104930 TOTAL:	599.99
104931	09/13/2022	PRTD	2956 SOUTH COAST AIR QUALITY MGMT DIST	090722	09/07/2022		091322	161.25
			Invoice: 090722					
				161.25 701001 552000			HQ CHILLER REG 2022 Permits and Fees	
							CHECK 104931 TOTAL:	161.25
104932	09/13/2022	PRTD	30020 SOUTHERN CA EDISON	31354/080122	08/01/2022		091322	2,230.72
			Invoice: 31354/080122					
				2,230.72 751810 678800			N.CYN IRR #2 6/30-7/31/22 District Sprayfield	
							CHECK 104932 TOTAL:	2,230.72
104933	09/13/2022	PRTD	14479 STEPHEN'S VIDEO PRODUCTIONS	08-31-22	08/31/2022		091322	600.00
			Invoice: 08-31-22					
				600.00 701112 651600			VIDEO SRV-LV MTGS AUG'22 Other Professional Serv	
							CHECK 104933 TOTAL:	600.00
104934	09/13/2022	PRTD	3789 T & T TRUCK & CRANE SERVICE	0158602-IN	08/23/2022		091322	1,757.00
			Invoice: 0158602-IN					
				1,757.00 751700 551500			INSTALL MOTOR ON RWPS WEST PUMP #2 Outside Services	
							CHECK 104934 TOTAL:	1,757.00
104935	09/13/2022	PRTD	16034 TASC (TOTAL ADMINISTRATIVE SERVIC	IN2478299	08/17/2022		091322	988.20
			Invoice: IN2478299					
				988.20 701430 622000			FSA CARD/ADMIN FEES 10/1-12/31/22 Outside Services	
							CHECK 104935 TOTAL:	988.20
104936	09/13/2022	PRTD	20971 THOUSAND OAKS PLUMBING INC.	134484286	09/06/2022		091322	2,183.00
			Invoice: 134484286					
				2,183.00 751810 551500			REBUILD SHOWER PLUMBING, MENS LOCKER ROOM Outside Services	
							CHECK 104936 TOTAL:	2,183.00

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
104937	09/13/2022	PRTD	18095 TOTAL BARRICADE SERVICE, INC.	56472	08/25/2022		091322	910.00
			Invoice: 56472				TRAFFIC CONTROL LANE CLOSURE 08/15/22	
				910.00 101100 541500			Outside Services	
						CHECK	104937 TOTAL:	910.00
104938	09/13/2022	PRTD	18651 TOYOTA-LIFT OF LOS ANGELES	PSI-0316423	08/29/2022		091322	153.96
			Invoice: PSI-0316423				CART/FORKLIFT SRVCS #305	
				153.96 701325 551500			Outside Services	
			Invoice: PSI-0315859					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0315859	08/25/2022		091322	225.32
							CART/FORKLIFT SRVCS #134	
				225.32 701325 551500			Outside Services	
			Invoice: PSI-0315884					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0315884	08/25/2022		091322	153.96
							CART/FORKLIFT SRVCS #723	
				153.96 701325 551500			Outside Services	
			Invoice: PSI-0315885					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0315885	08/25/2022		091322	153.96
							CART/FORKLIFT SRVCS #134	
				153.96 701325 551500			Outside Services	
			Invoice: PSI-0315896					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0315896	08/25/2022		091322	143.50
							CART/FORKLIFT SRVCS #202	
				143.50 701325 551500			Outside Services	
			Invoice: PSI-0315897					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0315897	08/25/2022		091322	93.50
							CART/FORKLIFT SRVCS #708	
				93.50 701325 551500			Outside Services	
			Invoice: PSI-0316374					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0316374	08/29/2022		091322	734.51
							CART/FORKLIFT SRVCS #202	
				734.51 701325 551500			Outside Services	
			Invoice: PSI-0316420					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0316420	08/29/2022		091322	103.96
							CART/FORKLIFT SRVCS #304	
				103.96 701325 551500			Outside Services	
			Invoice: PSI-0316421					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0316421	08/29/2022		091322	98.52
							CART/FORKLIFT SRVCS #306	
				98.52 701325 551500			Outside Services	
			Invoice: PSI-0316422					
			TOYOTA-LIFT OF LOS ANGELES	PSI-0316422	08/29/2022		091322	93.50
							CART/FORKLIFT SRVCS #712	
				93.50 701325 551500			Outside Services	
						CHECK	104938 TOTAL:	1,954.69

A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
104939	09/13/2022	PRTD	19135 TRANSUNION RISK AND ALTERNATIVE D	974571/AUG'22	09/01/2022		091322	160.00
			Invoice: 974571/AUG'22	160.00 701221 620000	AUG'22 BAD DEBT SRV			
					Forms, Supplies And Postage			
					CHECK		104939 TOTAL:	160.00
104940	09/13/2022	PRTD	3782 VENTURA HYDRAULIC & MACHINE WORKS	2022246	08/17/2022		091322	1,447.97
			Invoice: 2022246	1,447.97 751810 551500	REFURBISH AGITATOR CONVEYOR HYDRAULIC MOTOR			
					Outside Services			
					CHECK		104940 TOTAL:	1,447.97
104941	09/13/2022	PRTD	3035 VWR SCIENTIFIC	8810505220	08/22/2022		091322	532.84
			Invoice: 8810505220	532.84 701341 551000	CONDUCTIVITY STANDARD, GLOVES			
					Supplies/Material			
					CHECK		104941 TOTAL:	532.84
104942	09/13/2022	PRTD	19685 W. LITTEN INC.	22034	08/22/2022		091322	8,420.00
			Invoice: 22034	8,420.00 751810 678800	SPRAY FIELD 8/14-8/20/22			
					District Sprayfield			
					CHECK		104942 TOTAL:	8,420.00
104943	09/13/2022	PRTD	18521 WALTON MOTORS & CONTROLS, INC.	43568	08/08/2022		091322	7,598.11
			Invoice: 43568	7,598.11 751810 551000	REPAIR USEM PUMP MOTOR			
					Supplies/Material			
					CHECK		104943 TOTAL:	7,598.11
104944	09/13/2022	PRTD	18914 WECK LABORATORIES, INC.	W2H2006	08/19/2022		091322	752.60
			Invoice: W2H2006	752.60 751750 571520	BI-MONTHLY PW SAMPLING			
					Other Laboratory Serv			
			Invoice: W2H2023	26.50 701341 551500	DIONIZED WATER			
					Outside Services			
			Invoice: W2H2091	1,664.82 751810 571520	TAPIA EFFLUENT-NON NPDES SEMIANNUAL COMPOSITE			
					Other Laboratory Serv			
			Invoice: W2G1576	1,985.38 751750 571520	MONTHLY PW SAMPLING			
					Other Laboratory Serv			

# Las Virgenes Municipal Water District



## A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General  
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
Invoice: W2G1441			WECK LABORATORIES, INC.	W2G1441	07/21/2022		091322	683.70
			683.70 751750 571520		WEEKLY PW SAMPLING Other Laboratory Serv			
Invoice: W2H1081			WECK LABORATORIES, INC.	W2H1081	08/09/2022		091322	752.60
			752.60 751750 571520		BI-MONTHLY PW SAMPLING Other Laboratory Serv			
Invoice: W2H1459			WECK LABORATORIES, INC.	W2H1459	08/12/2022		091322	5,698.00
			5,698.00 751750 571520		PW SAMPLING Other Laboratory Serv			
Invoice: W2H1431			WECK LABORATORIES, INC.	W2H1431	08/12/2022		091322	683.70
			683.70 751750 571520		WEEKLY PW SAMPLING Other Laboratory Serv			
Invoice: W2H1460			WECK LABORATORIES, INC.	W2H1460	08/12/2022		091322	567.10
			567.10 751750 571520		WEEKLY PW SAMPLING Other Laboratory Serv			
Invoice: W2G2049			WECK LABORATORIES, INC.	W2G2049	07/29/2022		091322	43.46
			43.46 101600 571520		WESTLAKE MONTHLY Other Laboratory Serv			
Invoice: W2G2032			WECK LABORATORIES, INC.	W2G2032	07/28/2022		091322	160.00
			160.00 101600 571520		MONTHLY WESTLAKE TTHM Other Laboratory Serv			
Invoice: W2H1203			WECK LABORATORIES, INC.	W2H1203	08/11/2022		091322	8.48
			8.48 751810 571520		MONTHLY TAPIA GROUNDWATER Other Laboratory Serv			
Invoice: W2H1204			WECK LABORATORIES, INC.	W2H1204	08/11/2022		091322	26.50
			26.50 701341 551500		DIONIZED WATER Outside Services			
Invoice: W2H1202			WECK LABORATORIES, INC.	W2H1202	08/11/2022		091322	306.34
			306.34 751810 571520		TAPIA EFFLUENT SEMI-ANNUAL Other Laboratory Serv			
							CHECK 104944 TOTAL:	13,359.18
104945 09/13/2022 PRTD			3047 WESCO DISTRIBUTION, INC.	975348	08/19/2022		091322	393.82
Invoice: 975348			393.82 130100 551000		WIRE Supplies/Material			
Invoice: 975350			WESCO DISTRIBUTION, INC.	975350	08/19/2022		091322	788.40
			788.40 751750 551000		SLAT PANELS Supplies/Material			



**A/P CASH DISBURSEMENTS JOURNAL**

CASH ACCOUNT: 999      100100      Cash-General  
 CHECK NO    CHK DATE    TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
<b>INVOICE DTL DESC</b>								
							CHECK 104945 TOTAL:	1,182.22
104946	09/13/2022	PRTD	30424 WILLIAM BROMILEY	CLAIM/090522	09/05/2022		091322	6,843.00
			Invoice: CLAIM/090522				CLAIM FILED FOR FAULTY REGULATOR	
			6,843.00	101900	714500		Claims Paid	
							CHECK 104946 TOTAL:	6,843.00
104947	09/13/2022	PRTD	30421 WILLIAM MCDERMOTT	082522	08/09/2022		091322	312.39
			Invoice: 082522				ACWA CONFERENCE 7/11-7/13/22	
			312.39	701210	711000		Travel / Misc Staff Exp	
							CHECK 104947 TOTAL:	312.39
104948	09/13/2022	PRTD	21474 ZONES, LLC	K19813190201	08/16/2022	2230023	091322	2,646.25
			Invoice: K19813190201				10 DELL MONITORS	
			2,646.25	701420	543000		Capital Outlay	
							CHECK 104948 TOTAL:	2,646.25
				NUMBER OF CHECKS	60	*** CASH ACCOUNT TOTAL ***		159,707.57
				TOTAL PRINTED CHECKS		COUNT	AMOUNT	
						60	159,707.57	
				*** GRAND TOTAL ***				159,707.57

**A/P CASH DISBURSEMENTS JOURNAL**

JOURNAL ENTRIES TO BE CREATED

CLERK: 3296tchau

YEAR	PER	JNL	SRC	ACCOUNT	JNL	DESC	REF 1	REF 2	REF 3	ACCOUNT	DESC	T	OB	DEBIT	CREDIT
			EFF	DATE						LINE	DESC				
2023	3	109													
APP	130-200000		09/13/2022	091322	091322					Accounts Payable				15,530.38	
										AP CASH DISBURSEMENTS JOURNAL					
APP	999-100100		09/13/2022	091322	091322					Cash-General					159,707.57
										AP CASH DISBURSEMENTS JOURNAL					
APP	751-200000		09/13/2022	091322	091322					Accounts Payable				68,442.49	
										AP CASH DISBURSEMENTS JOURNAL					
APP	701-200000		09/13/2022	091322	091322					Accounts Payable				55,425.77	
										AP CASH DISBURSEMENTS JOURNAL					
APP	101-200000		09/13/2022	091322	091322					Accounts Payable				18,246.43	
										AP CASH DISBURSEMENTS JOURNAL					
APP	301-200000		09/13/2022	091322	091322					Accounts Payable				2,062.50	
										AP CASH DISBURSEMENTS JOURNAL					
										GENERAL LEDGER TOTAL				159,707.57	159,707.57
APP	999-201300		09/13/2022	091322	091322					Due to/Due FrmSanitation Ops				15,530.38	
APP	130-100100		09/13/2022	091322	091322					Cash-General					15,530.38
APP	999-207510		09/13/2022	091322	091322					Due to/Due FromJPA Operations				68,442.49	
APP	751-100100		09/13/2022	091322	091322					Cash-General					68,442.49
APP	999-207010		09/13/2022	091322	091322					Due to/Due FromInternal Svcs				55,425.77	
APP	701-100100		09/13/2022	091322	091322					Cash-General					55,425.77
APP	999-201010		09/13/2022	091322	091322					Due to/Due Frm Potable Wtr Ops				18,246.43	
APP	101-100100		09/13/2022	091322	091322					Cash-General					18,246.43
APP	999-203010		09/13/2022	091322	091322					Due to/Due FrmPotable Wtr Repl				2,062.50	
APP	301-100100		09/13/2022	091322	091322					Cash-General					2,062.50
										SYSTEM GENERATED ENTRIES TOTAL				159,707.57	159,707.57
										JOURNAL 2023/03/109 TOTAL				319,415.14	319,415.14

**A/P CASH DISBURSEMENTS JOURNAL**  
 JOURNAL ENTRIES TO BE CREATED

FUND ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION	DEBIT	CREDIT
101 Potable Water Operations 101-100100 101-200000	2023 3	109	09/13/2022	Cash-General		18,246.43
				Accounts Payable	18,246.43	
				FUND TOTAL	18,246.43	18,246.43
130 Sanitation Operations 130-100100 130-200000	2023 3	109	09/13/2022	Cash-General		15,530.38
				Accounts Payable	15,530.38	
				FUND TOTAL	15,530.38	15,530.38
301 Potable wtr Replacement Fund 301-100100 301-200000	2023 3	109	09/13/2022	Cash-General		2,062.50
				Accounts Payable	2,062.50	
				FUND TOTAL	2,062.50	2,062.50
701 Internal Service Fund 701-100100 701-200000	2023 3	109	09/13/2022	Cash-General		55,425.77
				Accounts Payable	55,425.77	
				FUND TOTAL	55,425.77	55,425.77
751 JPA Operations 751-100100 751-200000	2023 3	109	09/13/2022	Cash-General		68,442.49
				Accounts Payable	68,442.49	
				FUND TOTAL	68,442.49	68,442.49
999 Pooled Cash 999-100100 999-201010 999-201300 999-203010 999-207010 999-207510	2023 3	109	09/13/2022	Cash-General		159,707.57
				Due to/Due Frm Potable Wtr Ops	18,246.43	
				Due to/Due Frm Sanitation Ops	15,530.38	
				Due to/Due Frm Potable wtr Repl	2,062.50	
				Due to/Due From Internal Svs	55,425.77	
				Due to/Due From JPA Operations	68,442.49	
				FUND TOTAL	159,707.57	159,707.57

**A/P CASH DISBURSEMENTS JOURNAL**  
 JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
101	Potable Water Operations		18,246.43
130	Sanitation Operations		15,530.38
301	Potable Wtr Replacement Fund		2,062.50
701	Internal Service Fund		55,425.77
751	JPA Operations		68,442.49
999	Pooled Cash		
		159,707.57	
	TOTAL	159,707.57	159,707.57

\*\* END OF REPORT - Generated by Thieu Chau \*\*



**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
4232 Las Virgenes Road, Calabasas CA 91302

**MINUTES**  
**REGULAR MEETING**

9:00 AM

September 20, 2022

**PLEDGE OF ALLEGIANCE**

The Pledge of Allegiance to the Flag was led by Jim Korkosz.

**1. CALL TO ORDER AND ROLL CALL**

The meeting was called to order at **9:00 a.m.** by Board President Lewitt in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. The meeting was conducted via teleconference pursuant to the provisions of Assembly Bill 361, which suspended certain requirements of the Ralph M. Brown Act to support social distancing guidelines associated with response to the coronavirus (COVID-19) outbreak. Susan Brown, Administrative Assistant, conducted the roll call.

Present: Directors Charles Caspary, Jay Lewitt, Lynda Lo-Hill (via teleconference), Len Polan (via teleconference), and Lee Renger

Absent: None

Staff Present: David Pedersen, General Manager  
Craig Jones, Acting Resource Conservation Manager  
Don Patterson, Director of Finance and Administration  
John Zhao, Director of Facilities and Operations  
Susan Brown, Administrative Assistant  
Keith Lemieux, District Counsel

**2. APPROVAL OF AGENDA**

Director Caspary moved to approve the agenda and findings of Resolution No. 2609 (AB

361). Motion seconded by Director Renger. Motion carried unanimously by roll call vote.

### **3. PUBLIC COMMENTS**

None.

### **4. CONSENT CALENDAR**

**A List of Demands: September 20, 2022: Receive and file**

**B Minutes Regular Meeting of September 6, 2022: Approve**

**C Directors' Per Diem – August 2022: Ratify**

**D Continuation of Local State of Emergency Due to Water Shortage from Statewide Drought**

**Approve the continuation of a local emergency declaration due to water shortage from the statewide drought.**

**E Colorado River Water Users Association Annual Conference: Board Member Attendance**

**Authorize Board Member attendance and per diem compensation for the Colorado River Water Users Association Annual Conference, which will be held December 14 through 16, 2022, in Las Vegas, Nevada.**

**F SCADA Software Annual Support and Maintenance Agreement: Renewal**

**Authorize the General Manager to execute a three-year agreement with AVEVA Select California (formally Wonderware California), in the amount of \$101,670 plus applicable taxes, for support and maintenance of the Supervisory Control and Data Acquisition (SCADA) system software.**

Director Renger moved to approve the Consent Calendar. Motion seconded by Director Caspary. Motion carried unanimously by roll call vote.

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

**A MWD Representative Report**

Glen Peterson, MWD Representative, reported that the pipe joint repairs on the Upper Feeder were completed. He also reported that the MWD Board adopted a resolution to continue remote teleconference Board meetings; authorized an increase to the existing contract with Carollo Engineers, Inc., for owner's advisor services for the Sepulveda Feeder Pump Stations; deferred action on the revision and restatement of Bay-Delta Policies until next month due to several concerns from the public and environmental

groups; authorized an increase of \$8.5 million to the agreement for final design and architectural support services for the housing and property improvements at MWD's desert facilities; and approved an increase to the agreement for ongoing assistance and advice regarding personnel compliance investigations. He noted that the Executive Committee would discuss nominations for the MWD Chair next week, and an election would take place in October. He also reported that he would be attending the Biennial Colorado River Symposium in Santa Fe, New Mexico later in the week. He noted that this year was the 100th anniversary of the Colorado River Compact, which divided the Colorado River into the Upper and Lower Basins for the seven states and established the allotment for each basin. He also reported that he would be attending the Colorado River Board's tour of the Colorado River next week. He responded to a question regarding the status of the Draft Environmental Impact Report (DEIR) for the Delta Conveyance Project by stating that the DEIR was released for public review and public comment.

Board President Lewitt noted that Jeff Kightlinger, former General Manager for MWD, provided a presentation regarding the Upper Basin states during the Association of California Water Agencies (ACWA) Region 8 Program. He also noted that Mr. Kightlinger mentioned that the Upper Basin states had not used all of their water allocation because they did not have the same amount of growth as the southern states; however, they were now experiencing growth and may want additional water, which would impact water resources from the Colorado River. Mr. Peterson responded that the Upper Basin is required to deliver 8.5 million acre-feet of water to the southern states; however, this amount of water was not available due to climate change, global warming, and other issues. He noted that the allocation was set during a wet period, and currently there was only between nine to 12 million acre-feet of water coming from the Colorado River. He expressed concern that the Upper Basin states were not conserving water at this time, and they would have projects that would take more water. He also noted that the U.S. Bureau of Reclamation does not control much in the Upper Basin compared to the Lower Basin.

## **B Legislative and Regulatory Updates**

General Manager David Pedersen noted that letters were sent to the Congressional delegation thanking them for writing letters of support for the JPA's application for the U.S. Bureau of Reclamation Title XVI-WIIN Program. He also noted that staff was in the process of preparing the Water Infrastructure Finance and Innovation Act (WIFIA) application for the Pure Water Project Las Virgenes-Triunfo, and staff would work with staff from Best Best & Krieger, the District's lobbyists, to seek letters of support. He reported that a letter was sent to Governor Gavin Newsom asking that he consider a signing message when he signs SB 1157, (Hertzberg), which would lower the existing indoor gallons per capita daily (GPCD) water use efficiency standard, to highlight the importance and the connection between indoor water usage and water recycling, and calling on the State Water Board to include a specific variance or adjustment to address this issue.

## **C Water Supply Conditions Update: Receive and file**

Ursula Bosson, Customer Service Manager, presented the Customer Service Drought Metrics Update.

General Manager David Pedersen noted that he and Joe McDermott, Director of Engineering and External Affairs, were working on an adjustment for the difference in evapotranspiration (ET) values due to hotter and drier weather conditions as the ET value was 27 percent higher. He stated that the ET value would adjust the 36 percent reduction number to approximately 45 percent.

Ms. Bosson responded to a question regarding the number of flow restrictors devices installed by stating that 76 were installed in total. She noted that 1,600 accounts had exceeded their water budget by four exceedances or more; however, not all accounts were subject to having a flow restrictor device installed. She stated that she would review the number of accounts that could have a flow restrictor device installed and report back to the Board. She also responded to a question regarding whether customers who had a flow restrictor device installed had improved their water usage by stating that the District was receiving positive results. She noted that CBS News had broadcast a report regarding significant water use reductions by certain celebrities. Board President Lewitt asked staff to forward the link to the CBS News report to the Board.

## 6. **TREASURER**

Director Lo-Hill stated that the Treasurer's report was in order.

## 7. **FINANCE AND ADMINISTRATION**

### **A Internal Audit Services: Award**

**Accept the proposal from Eide Bailly, LLP, and authorize the General Manager to execute a five-year professional services agreement, in the amount of \$50,000, for internal audit services.**

Don Patterson, Director of Finance and Administration, presented the report. He noted that the initial contract amount would cover the cost of the risk assessment, one audit, and development of the audit plan, and funds for future fiscal years audits would be included in future budgets. He introduced Roger Alfaro and Audrey Donovan from Eide Bailly, LLP.

Mr. Alfaro stated that he and his staff would work to prepare a formal risk assessment, develop an audit plan, and perform internal audits.

Director Renger moved to approve Item 7A. Motion seconded by Director Caspary.

Mr. Patterson responded to questions regarding presenting the completed District-wide risk assessment and audit plan to the Board in Closed Session.

Motion carried by the following roll call vote:



AYES: Caspary, Lewitt, Lo-Hill, Renger  
NOES: None  
ABSTAIN: None  
ABSENT: Polan (temporarily lost his teleconference connection)

## **8. ENGINEERING AND EXTERNAL AFFAIRS**

### **A Kimberly Pressure Reducing Station No. 45 Rehabilitation Project: Award**

**Award a construction contract to Hank Co Inc., in the amount of \$184,049, and reject all remaining bids upon receipt of the duly executed contract documents for the Kimberly Pressure Reducing Station No. 45 Rehabilitation Project.**

Alex Leu, Senior Engineer, presented the report.

Director Renger moved to approve Item 8A. Motion seconded by Director Caspary.

Mr. Leu responded to a question regarding whether increasing air circulation could reduce equipment deterioration by stating that circulation in the pressure reduction station would improve after it is moved above ground, which would also prevent equipment deterioration.

Darrell Johnson, Water Systems Manager, responded to a question regarding whether the grass surrounding the pump station could be replaced with drought tolerant landscaping by stating that the grass was maintained by the homeowners association, as well as the hedges and trees.

Motion carried by the following roll call vote:

AYES: Caspary, Lewitt, Lo-Hill, Renger  
NOES: None  
ABSTAIN: None  
ABSENT: Polan (temporarily lost his teleconference connection)

## **9. INFORMATION ITEMS**

### **A GFOA Distinguished Budget Presentation Award**

Director Lo-Hill acknowledged Finance staff on receiving the GFOA Distinguished Budget Presentation Award.

## **10. NON-ACTION ITEMS**

### **A Organization Reports**

Director Caspary reported that he attended the Santa Monica Bay Restoration Commission (SMBRC) Executive Committee Meeting on September 15th. He noted that

elections for the Executive Committee would take place in February at a Regular Governing Board Meeting, and the election for Chair would take place in December. He stated that he asked SMBRC staff to consider rescheduling the election of the Chair until after the new Executive Committee is seated. He also stated that the Executive Committee approved the agenda for the Governing Board Meeting scheduled in October, which would include a presentation from Watershed Coordinators from the North, Central, and South Santa Monica Bay Watershed Area Steering Committees – Safe Clean Water Program. He also reported that he attended meetings of the ACWA Steelhead Work Group. He noted that Southern Steelhead was listed by the U.S. Environmental Protection Agency (EPA) as an endangered species, and the California Department of Fish and Wildlife was proposing to list Southern Steelhead as an endangered species under the California Endangered Species Act. He noted that ACWA was working to ensure that the State would use science when deciding whether to list the Southern Steelhead as an endangered species. He also noted that United Water Conservation District receives much of its water supply from Lake Piru, and listing the Southern Steelhead as an endangered species would adversely impact this water supply due to a no-take provision where not one steelhead could be killed. He also reported that ACWA requested that scientists be asked to conduct a peer review of the state's report, and comments would be due to ACWA by the end of September.

## **B Director's Reports on Outside Meetings**

Board President Lewitt reported that he attended the ACWA Federal Affairs Committee Meeting on September 14th. He noted that ACWA requested the extension of the 60-day comment period related to the EPA's proposed rules designating per- and polyfluoroalkyl substances (PFAS) as hazardous substances. He stated that water agencies could face liability as responsible parties due to the proposed EPA rule, and that he believed liability should be the responsibility of the manufacturers. He also reported that the ACWA Federal Affairs Committee received updates regarding the funding from the Inflation Reduction Act to address drought impacts to the Colorado River and climate-smart forestry activities, WRDA Bill 2022, and Farm Bill 2022. He also reported that he attended the WaterReuse California Annual Conference in San Francisco. He noted that General Manager David Pedersen would serve as the next President of WaterReuse California. He noted that Dr. David Sedlak from the University of California Berkeley provided a presentation regarding challenges related to water reuse. He also reported that he attended the ACWA Region 8 Program on September 19th where Jeff Kightlinger provided a presentation regarding adaption to California water.

Director Caspary noted that the District was augmenting Malibu Creek flows as a condition of the National Pollutant Discharge Elimination System (NPDES) permit, with 2.5 cubic feet per second (CFS) as the minimum flow. He stated that Southern Steelhead had not been an issue due to Rindge Dam, which limits any steelhead that tries to come upstream to spawn. He also stated that the upper reaches of Malibu Creek would become potential spawning grounds once Rindge Dam is removed. He expressed concern that listing Southern Steelhead as an endangered species would cause serious impacts to the District. He also expressed concern with potential flooding issues at the Tapia Water Reclamation Facility (Tapia) due to the creek bed gaining elevation and minimization to the head space from floodwalls.

A discussion ensued regarding consideration of the removal of Rindge Dam as part of the upcoming flood study for Tapia.

## **C General Manager Reports**

### (1) General Business

General Manager David Pedersen reported that the District was experiencing water savings in both the potable and recycled water systems, and no potable water supplement was needed to the recycled water system as of September 18th. He also reported that the flow in Malibu Creek measured 12.6 cubic feet per second (CFS), and there was no need for potable water supplement. He also reported that Las Virgenes Reservoir is at 72 percent of capacity. He noted that there was algal bloom in the reservoir, and water was not being produced from the reservoir temporarily. He also noted that staff was planning on applying copper sulfate to mitigate the algal bloom, and operation of Westlake Filtration Plant might begin on September 22nd.

John Zhao, Director of Facilities and Operations, responded to a question regarding recent recycled water disposal in the sprayfield by stating that the sprayfield was used throughout the summer to keep the vegetation alive so that vegetation may absorb more water in the shorter months.

### (2) Follow-Up Items

None.

## **D Directors' Comments**

Director Lo-Hill stated that she was pleased to learn that the recycled water system was not being supplemented with potable water.

Director Polan reported that he also attended the WateReuse California Conference in San Francisco.

## **11. FUTURE AGENDA ITEMS**

None.

## **12. PUBLIC COMMENTS**

None.

## **13. ADJOURNMENT**

Seeing no further business to come before the Board, the meeting was duly adjourned at **10:06 a.m.**

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Jay Lewitt, President  
Board of Directors  
Las Virgenes Municipal Water District

ATTEST:

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Lee Renger, Secretary  
Board of Directors  
Las Virgenes Municipal Water District

(SEAL)



**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** General Manager

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**SUBJECT: Continuation of Local State of Emergency Due to Water Shortage from Statewide Drought**

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**SUMMARY:**

On November 2, 2021, the Board adopted Resolution No. 2599, declaring a local state of emergency due to water shortage from drought conditions in the State of California; activating the District's Water Shortage Contingency Plan at Stage 3 – Water Shortage Emergency; and authorizing the continued implementation of a Strategic Communication Plan for Drought Messaging. The action also expanded enforcement of water conservation measures and applied a drought factor of 0.75 to the outdoor component of residential water budgets, irrigation only accounts and recycled water accounts, beginning with the first billing period after November 30, 2021.

On November 16, 2021, the Board adopted Resolution No. 2601, revising the District's Code related to water conservation penalty and enforcement measures, encouraging customers to conserve and use water more efficiently during times of water shortage emergency. The action included authorization to use flow restriction devices on water service accounts with repeat and continued excessive usage.

On May 17, 2022, the Board adopted Resolution No. 2608, declaring a continued state of local emergency due to water shortage from drought conditions in the State of California, continuing the activation of the District's Water Shortage Contingency Plan at Stage 3 – Water Shortage Emergency and implementing new water use restrictions with associated enforcement measures.

Section 2-6.402 of the Las Virgenes Municipal Water District Code requires that once the Board has declared an emergency, it must determine by a four-fifths vote at each subsequent regular Board meeting whether to continue or terminate the authorization for emergency. Staff recommends that the emergency declaration be continued.

**RECOMMENDATION(S):**

Approve the continuation of a local emergency declaration due to water shortage from the statewide drought.

**GOALS:**

Provide Safe and Quality Water with Reliable Services

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



**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Finance and Administration

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**SUBJECT: Monthly Cash and Investment Report: August 2022**

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**SUMMARY:**

During the month of August 2022, the value of the District's total cash and investments increased from \$113,913,327, held on July 31st, to \$116,193,898. The total held in the District's investment portfolio increased from \$113,104,724 to \$114,743,805 at book value. Four investments matured, and ten investments were purchased. The book value of the District's investment portfolio increased from \$69,281,998 to \$73,950,786. The value of the District's Local Agency Investment Fund (LAIF) account decreased to \$24,130,924, and the District's CAMP account increased to \$16,661,160. The remaining funds were held in the District's checking and money market accounts.

**RECOMMENDATION(S):**

Receive and file the Monthly Cash and Investment Report for August 2022.

**DISCUSSION:**

As of August 31, 2022, the District held \$116,193,898 in its cash and investment accounts, up 2.0% month-over-month. The majority of the funds were held in the District's self-managed investment account, which had an August 31st book value of \$73,950,786. LAIF held the majority of the remaining funds, in the amount of \$24,130,942. CAMP held \$16,661,160, and the remaining portion was held in the District's checking and money market accounts. The annualized yield of the District's investment portfolio was 1.74% in August, up from 1.56% in July. The annualized yield on the District's LAIF funds was 1.28% in August, up 19 basis points from July. The annualized yield on the District's CAMP funds was 2.30%, up 66 basis points from July. The combined total yield on the District's accounts was 1.72% in August, up from 1.45% in July.

With LAIF lagging, the significant increase in short-term yields and greater certainty on the cashflow needs for the Pure Water Las Virgenes-Triunfo, staff began an effort to reduce its LAIF balance and increase its investment in CAMP and other short-term investments, while staying within the investment policy limits and resulting in a higher-than-average number of transactions. This strategy continued into September.

The following investments were purchased in August:

- 08/09/22 – FHLB agency bullet, in the amount of \$997,760, with a face value of \$1,000,000 and a maturity of 08/04/23; YTM 3.239%.
- 08/10/22 – FHLB callable agency, in the amount of \$1,000,000, and a maturity of 08/10/27; YTM 4.050%.
- 08/12/22 – Safra National Bank insured CD, in the amount of \$242,000, and a maturity of 07/31/23; YTM 3.000%.
- 08/15/22 – Customers Bank insured CD, in the amount of \$242,000, and a maturity of 08/15/23; YTM 3.000%.
- 08/19/22 – Synovus Bank insured CD, in the amount of \$246,000, and a maturity of 02/21/23; YTM 2.700%.
- 08/25/22 – FHLMC callable agency, in the amount of \$598,650, with a face value of \$600,000 and a maturity of 08/25/25; YTM 3.530%.
- 08/25/22 – FNMA agency bullet, in the amount of \$962,451, with a face value of \$1,000,000 and a maturity of 11/27/23; YTM 3.328%.
- 08/26/22 – FNMA agency bullet, in the amount of \$972,051, with a face value of \$1,000,000 and a maturity of 07/02/24; YTM 3.319%.
- 08/30/22 – Commonwealth of Massachusetts AAA rated GO Bond, in the amount of \$500,000, and a maturity of 07/15/27; YTM 3.679%.
- 08/30/22 – State of Ohio AA+ rated GO Bond, in the amount of \$986,900, with a face value of \$1,000,000, and a maturity of 11/01/23; YTM 3.451%.

The following investments matured during August.

- 08/08/22 – Texas Capital Bank insured CD, in the amount of \$245,000; YTM 0.250%.
- 08/26/22 – Bank Hapoalim New York insured CD, in the amount of \$245,000; YTM 0.25%.
- 08/29/22 – American Express insured CD, in the amount of \$245,000; YTM 2.400%.
- 08/30/22 – Capital One Bank VA insured CD, in the amount of \$245,000; YTM 2.400%.

The following transactions were posted in the District's LAIF account:

- 08/09/22 – Withdraw in the amount of \$1,300,000. 08/24/22 – Withdraw in the amount of \$1,560,000. 08/25/22 – Withdraw in the amount of \$2,000,000.
- 08/30/22 – Deposit in the amount of \$310,000.

The following transactions were posted in the District's CAMP account:

- 08/30/22 – Deposit in the amount of \$1,500,000. 07/29/22 – Interest in the amount of \$29,775.98.

The District's investments are in compliance with the adopted Investment Policy, and the District has sufficient funds to meet expenditures during the next six months from funds held in local agency investment pool liquid accounts.

#### Cash Analysis:

Another important aspect of the Monthly Cash and Investment Report is to monitor the



District's performance as compared to its adopted Financial Policies. Attachment B shows the District's total cash and investments as of August 31, 2022 and compares the balances to the adopted Financial Policies.

As shown for August, the Potable Water Enterprise had \$5.1 million available for capital projects, the Sanitation Enterprise had \$1.7 million available for capital, and the Recycled Water Enterprise had \$11.1 million available for capital. The Board has assigned \$15 million in Potable Water Enterprise funds, \$10 million in Recycled Water Enterprise funds, and \$10 million in Sanitation Enterprise funds for the Pure Water Project Las Virgenes-Triunfo.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

**ATTACHMENTS:**

[LVMWD Investment Portfolio 08.31.2022.pdf](#)

[Investment\\_Report\\_Definitions.pdf](#)

[Cash Report - Aug 2022.pdf](#)



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
MONTHLY CASH AND INVESTMENT REPORT  
August 31, 2022**

District investments are included in this report and all investments, except those relating to debt issues and deferred compensation programs funds, conform to District investment policy. All investment transactions within the period covered by this report, except for the exceptions noted above, conform to District Investment policy. Deferred compensation program funds are not included in this report; their investment is directed by individual employees participating in the deferred compensation program and not by the District. Debt issue funds are included in this report; their investment is controlled by specific provisions of the issuance documents and not by the District."

"The deposits and investments of the District safeguard the principal and maintain the liquidity needs of the District, providing the District with the ability to meet expenditure requirements for the next six months. The maturity dates are compatible with foreseeable cash flow requirements. The deposits and investments can be easily and rapidly converted into cash without substantial loss of value."

Fund Name	Face Amount/Shares	Market Value	Book Value	% of Portfolio	YTM @ Cost	Days To Maturity
1   Investments	74,113,000.00	70,422,255.71	73,950,785.82	63.64	1.74	903
2   LAIF	24,130,942.24	24,130,942.24	24,130,942.24	20.77	1.28	1
3   CAMP	16,661,160.34	16,661,160.34	16,661,160.34	14.34	2.30	1
4   US Bank Blackrock	917.36	917.36	917.36	0.00	2.12	1
5   Wells Fargo Operating	1,450,092.51	1,450,092.51	1,450,092.51	1.25	1.99	1
<b>Total / Average</b>	<b>116,356,112.45</b>	<b>112,665,368.16</b>	<b>116,193,898.27</b>	<b>100.00</b>	<b>1.72</b>	<b>575</b>

\_\_\_\_\_  
David W. Pedersen, General Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lynda Lo-Hill, Treasurer

\_\_\_\_\_  
Date



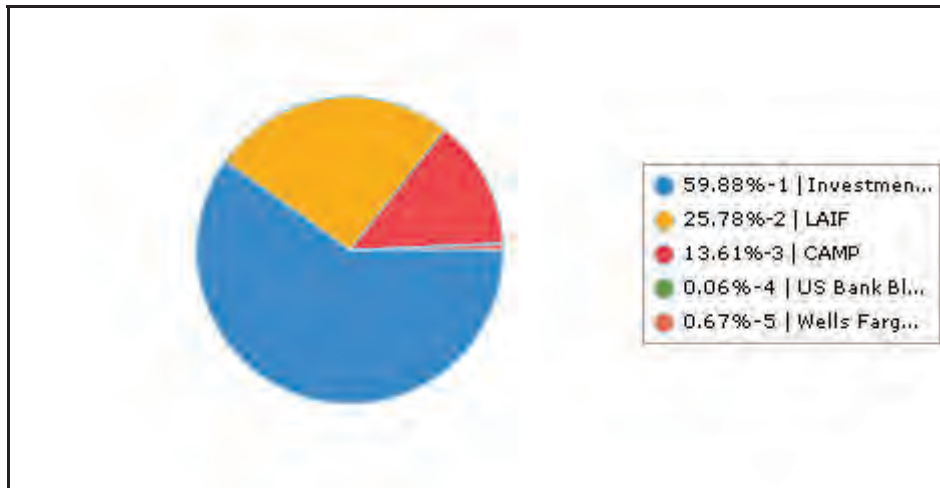
## Las Virgenes Municipal Water District CA Distribution by Main Fund - Market Value All Portfolios

Begin Date: 7/31/2022, End Date: 8/31/2022

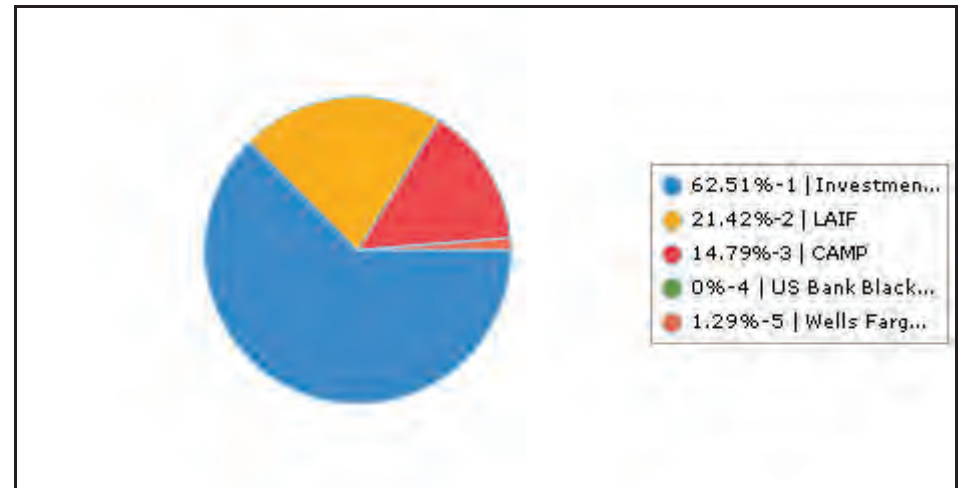
### Main Fund Allocation

Main Fund	Market Value 7/31/2022	% of Portfolio 7/31/2022	Market Value 8/31/2022	% of Portfolio 8/31/2022
1   Investments	66,607,676.75	59.88	70,422,255.71	62.51
2   LAIF	28,680,942.24	25.78	24,130,942.24	21.42
3   CAMP	15,141,784.20	13.61	16,661,160.34	14.79
4   US Bank Blackrock	61,789.54	0.06	917.36	0.00
5   Wells Fargo Operating	746,812.97	0.67	1,450,092.51	1.29
<b>Total / Average</b>	<b>111,239,005.70</b>	<b>100.00</b>	<b>112,665,368.16</b>	<b>100.00</b>

### Portfolio Holdings as of 7/31/2022



### Portfolio Holdings as of 8/31/2022





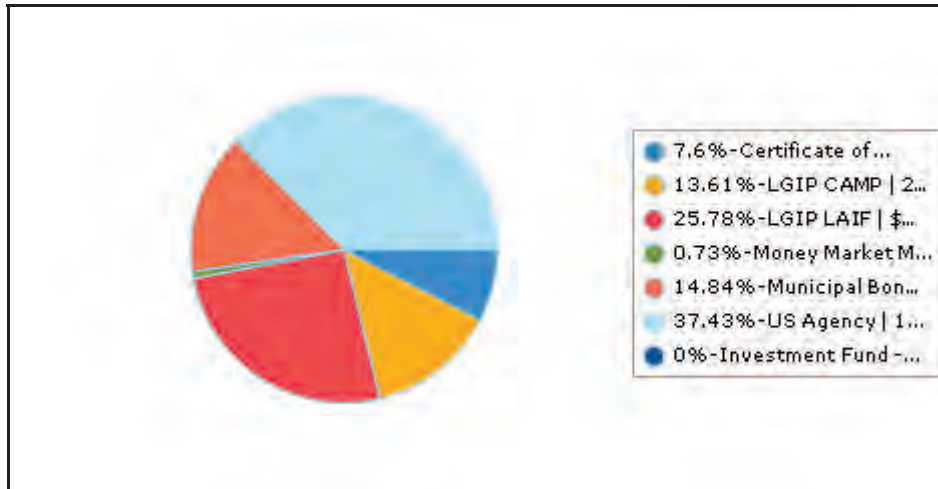
## Las Virgenes Municipal Water District CA Distribution by Asset Category - Market Value All Portfolios

Begin Date: 7/31/2022, End Date: 8/31/2022

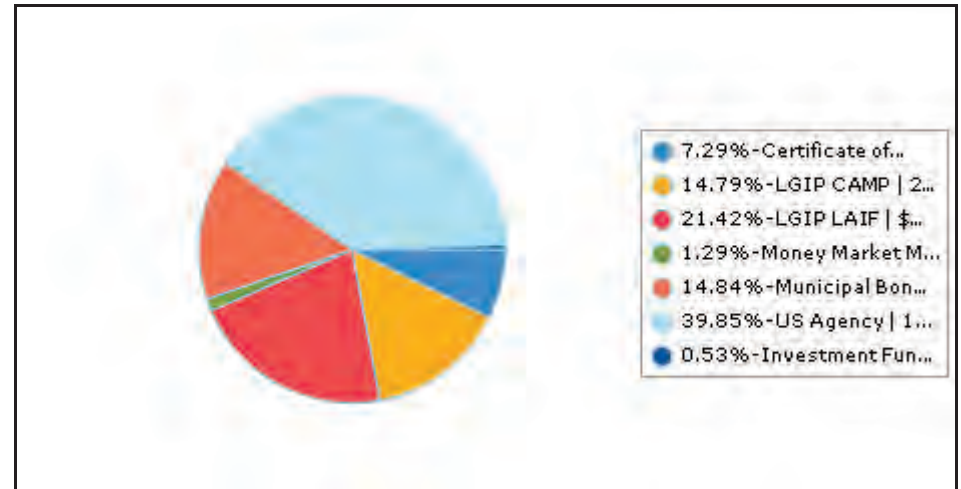
### Asset Category Allocation

Asset Category	Market Value 7/31/2022	% of Portfolio 7/31/2022	Market Value 8/31/2022	% of Portfolio 8/31/2022
Certificate of Deposit   25 %	8,455,186.60	7.60	8,217,384.21	7.29
LGIP CAMP   25 %	15,141,784.20	13.61	16,661,160.34	14.79
LGIP LAIF   \$ 65M	28,680,942.24	25.78	24,130,942.24	21.42
Money Market Mutual Funds   20 %	808,602.51	0.73	1,451,009.87	1.29
Municipal Bonds   100 %	16,511,358.90	14.84	16,714,695.50	14.84
US Agency   100 %	41,641,131.25	37.43	44,894,040.00	39.85
Investment Fund - County   100 %	0.00	0.00	596,136.00	0.53
<b>Total / Average</b>	<b>111,239,005.70</b>	<b>100.00</b>	<b>112,665,368.16</b>	<b>100.00</b>

**Portfolio Holdings as of 7/31/2022**



**Portfolio Holdings as of 8/31/2022**



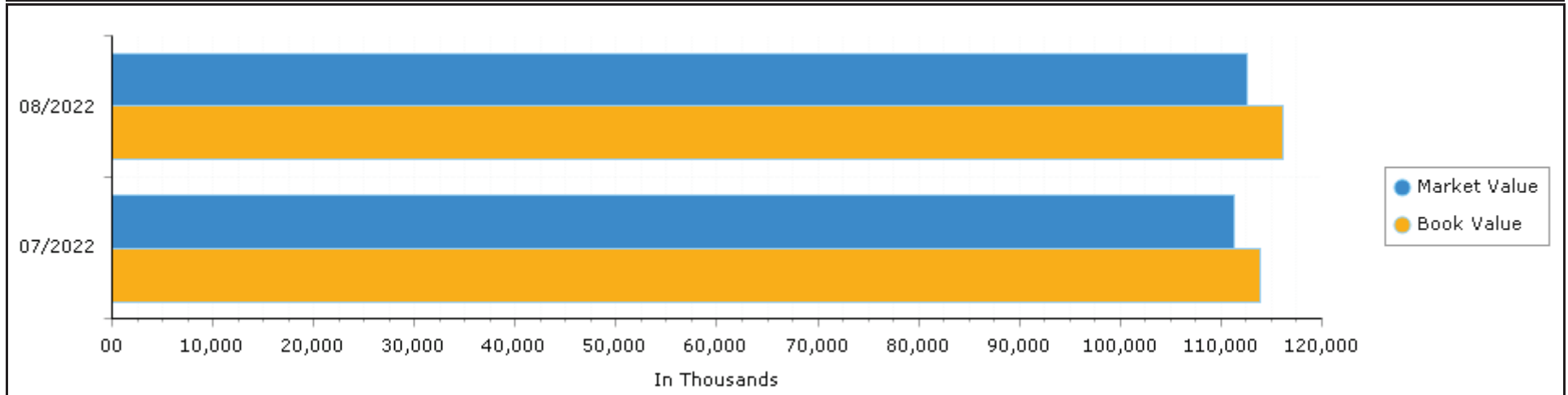


## Las Virgenes Municipal Water District CA Portfolio Summary by Month All Portfolios

Begin Date: 7/31/2022, End Date: 8/31/2022

Month	Market Value	Book Value	Unrealized Gain/Loss	YTM @ Cost	YTM @ Market	Duration	Days To Maturity
7/31/2022	111,239,005.70	113,913,327.01	-2,674,321.31	1.46	2.33	1.49	559
8/31/2022	112,665,368.16	116,193,898.27	-3,528,530.11	1.73	2.90	1.54	576
Total / Average	111,952,186.93	115,053,612.64	-3,101,425.71	1.59	2.62	1.52	568

### Market Value / Book Value Comparison





**Las Virgenes Municipal Water District CA**  
**Total Rate of Return - Book Value by Month**  
**All Portfolios**

Begin Date: 7/31/2022, End Date: 8/31/2022

Month	Beginning BV + Accrued Interest	Interest Earned During Period-BV	Realized Gain/Loss-BV	Investment Income-BV	Average Capital Base-BV	TRR-BV	Annualized TRR-BV	Treasury 3 Year
7/31/2022	113,481,529.59	166,397.61	0.00	166,397.61	113,916,011.51	0.14	1.74	3.03
8/31/2022	114,169,936.75	114,298.19	0.00	114,298.19	113,183,987.15	0.10	1.22	3.23
<b>Total/Average</b>	<b>113,481,529.59</b>	<b>280,695.80</b>	<b>0.00</b>	<b>280,695.80</b>	<b>113,512,830.41</b>	<b>0.25</b>	<b>1.49</b>	<b>3.13</b>



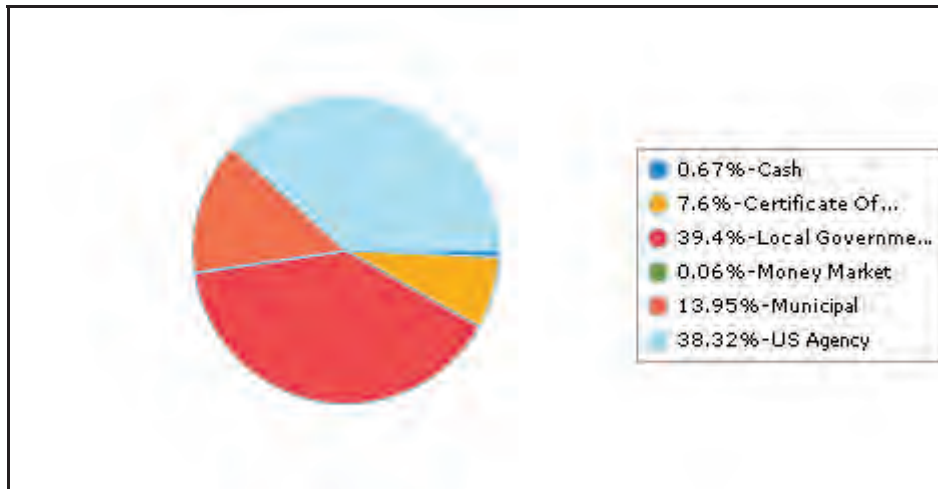
## Las Virgenes Municipal Water District CA Distribution by Security Sector - Market Value All Portfolios

Begin Date: 7/31/2022, End Date: 8/31/2022

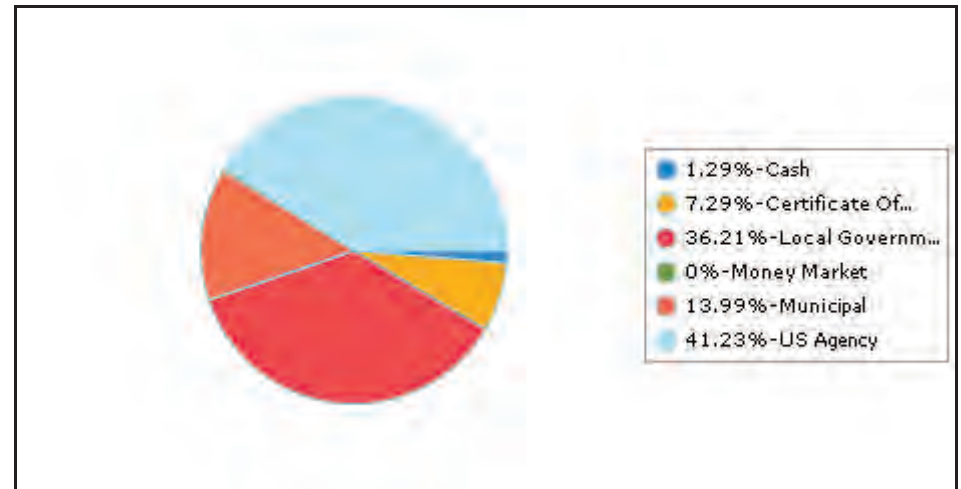
### Security Sector Allocation

Security Sector	Market Value 7/31/2022	% of Portfolio 7/31/2022	Market Value 8/31/2022	% of Portfolio 8/31/2022
Cash	746,812.97	0.67	1,450,092.51	1.29
Certificate Of Deposit	8,455,186.60	7.60	8,217,384.21	7.29
Local Government Investment Pool	43,822,726.44	39.40	40,792,102.58	36.21
Money Market	61,789.54	0.06	917.36	0.00
Municipal	15,522,698.90	13.95	15,758,415.50	13.99
US Agency	42,629,791.25	38.32	46,446,456.00	41.23
<b>Total / Average</b>	<b>111,239,005.70</b>	<b>100.00</b>	<b>112,665,368.16</b>	<b>100.00</b>

**Portfolio Holdings as of 7/31/2022**



**Portfolio Holdings as of 8/31/2022**





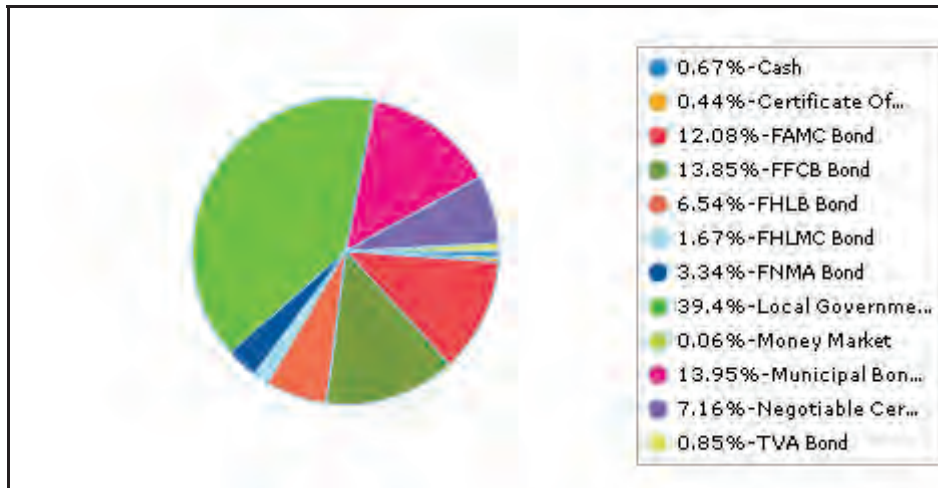
## Las Virgenes Municipal Water District CA Distribution by Security Type - Market Value All Portfolios

Begin Date: 7/31/2022, End Date: 8/31/2022

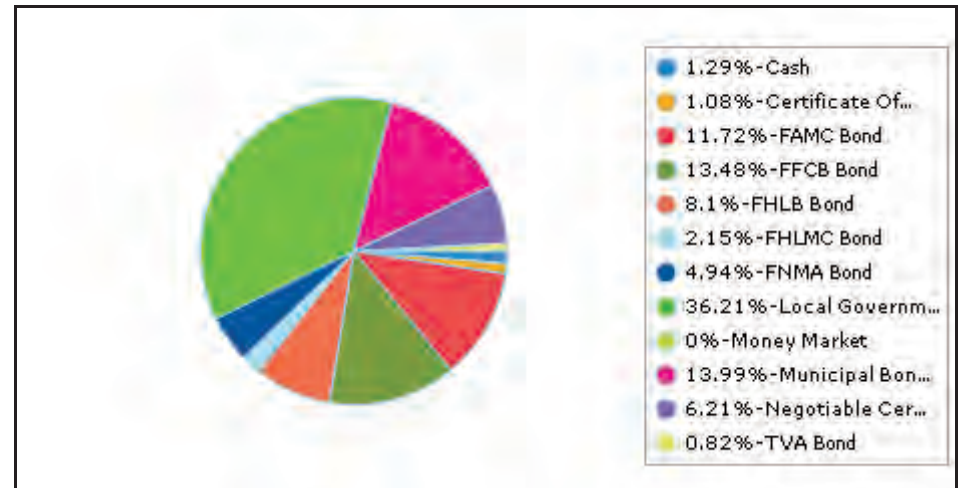
### Security Type Allocation

Security Type	Market Value 7/31/2022	% of Portfolio 7/31/2022	Market Value 8/31/2022	% of Portfolio 8/31/2022
Cash	746,812.97	0.67	1,450,092.51	1.29
Certificate Of Deposit	487,633.74	0.44	1,217,563.28	1.08
FAMC Bond	13,437,370.00	12.08	13,208,190.00	11.72
FFCB Bond	15,401,510.00	13.85	15,188,080.00	13.48
FHLB Bond	7,270,941.25	6.54	9,127,780.00	8.10
FHLMC Bond	1,857,100.00	1.67	2,426,586.00	2.15
FNMA Bond	3,720,510.00	3.34	5,569,500.00	4.94
Local Government Investment Pool	43,822,726.44	39.40	40,792,102.58	36.21
Money Market	61,789.54	0.06	917.36	0.00
Municipal Bond	15,522,698.90	13.95	15,758,415.50	13.99
Negotiable Certificate Of Deposit	7,967,552.86	7.16	6,999,820.93	6.21
TVA Bond	942,360.00	0.85	926,320.00	0.82
<b>Total / Average</b>	<b>111,239,005.70</b>	<b>100.00</b>	<b>112,665,368.16</b>	<b>100.00</b>

**Portfolio Holdings as of 7/31/2022**



**Portfolio Holdings as of 8/31/2022**







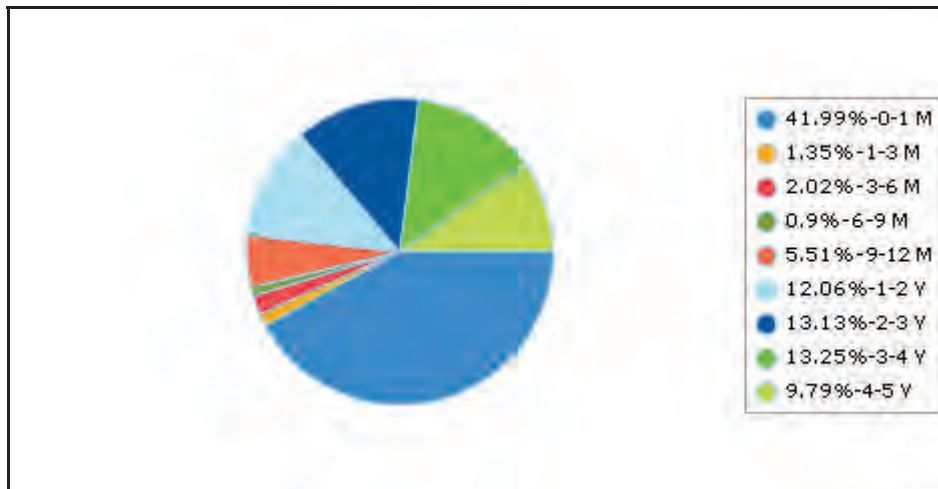
## Las Virgenes Municipal Water District CA Distribution by Maturity Range - Market Value All Portfolios

Begin Date: 7/31/2022, End Date: 8/31/2022

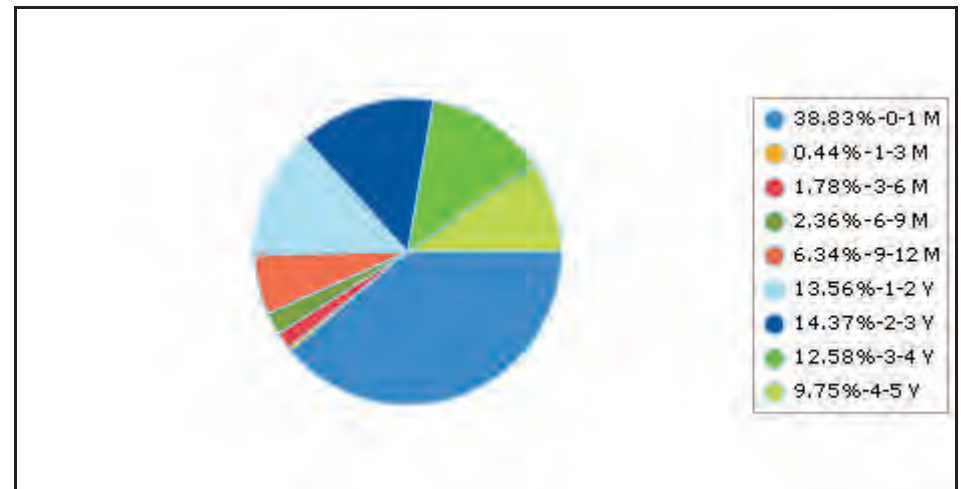
### Maturity Range Allocation

Maturity Range	Market Value 7/31/2022	% of Portfolio 7/31/2022	Market Value 8/31/2022	% of Portfolio 8/31/2022
0-1 Month	46,710,868.35	41.99	43,742,782.45	38.83
1-3 Months	1,499,055.00	1.35	497,670.00	0.44
3-6 Months	2,251,837.65	2.02	2,000,111.40	1.78
6-9 Months	998,150.00	0.90	2,656,984.05	2.36
9-12 Months	6,129,852.25	5.51	7,138,675.24	6.34
1-2 Years	13,415,805.74	12.06	15,277,058.01	13.56
2-3 Years	14,610,006.50	13.13	16,194,470.70	14.37
3-4 Years	14,735,779.35	13.25	14,174,976.35	12.58
4-5 Years	10,887,650.86	9.79	10,982,639.96	9.75
<b>Total / Average</b>	<b>111,239,005.70</b>	<b>100.00</b>	<b>112,665,368.16</b>	<b>100.00</b>

**Portfolio Holdings as of 7/31/2022**



**Portfolio Holdings as of 8/31/2022**



Las Virgenes Municipal Water District CA  
Portfolio Holdings  
Investment Portfolio | by Maturity Range - Monthly Report  
Report Format: By Transaction  
Group By: Maturity Range  
Average By: Cost Value  
Portfolio / Report Group: Report Group | Investment Portfolio  
As of 8/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
<b>0-1 Month</b>								
San Francisco California 2.5 9/1/2022-22	79772EAX7	2.605	Municipal	Callable	9/1/2022	499,998.66	500,000.00	0.67
FFCB 1.75 9/13/2022	3133EHYR8	1.766	US Agency	Bullet	9/13/2022	999,994.66	999,670.00	1.35
<b>Total / Average 0-1 Month</b>		<b>2.045</b>				<b>1,499,993.32</b>	<b>1,499,670.00</b>	<b>2.02</b>
<b>1-3 Months</b>								
California State 0.349 11/1/2022	13077DMH2	0.349	Municipal	Bullet	11/1/2022	500,000.00	497,670.00	0.68
<b>Total / Average 1-3 Months</b>		<b>0.349</b>				<b>500,000.00</b>	<b>497,670.00</b>	<b>0.68</b>
<b>3-6 Months</b>								
Martinez Financing Authority CA 0.405 12/1/2022	57339JAN0	0.405	Municipal	Bullet	12/1/2022	270,000.00	268,045.20	0.36
Wells Fargo Bank 2.5 12/8/2022	949763LR5	2.500	Certificate Of Deposit	Bullet	12/8/2022	245,000.00	244,975.50	0.33
Morgan Stanley Bank 2.65 1/11/2023	61747MF63	2.650	Certificate Of Deposit	Bullet	1/11/2023	245,000.00	244,970.60	0.33
FAMC 2.13 1/24/2023	31315PZS1	2.338	US Agency	Bullet	1/24/2023	999,219.63	996,280.00	1.34
Synovus Bank 2.7 2/21/2023	87164DTV2	2.700	Certificate Of Deposit	Bullet	2/21/2023	246,000.00	245,840.10	0.33
<b>Total / Average 3-6 Months</b>		<b>2.179</b>				<b>2,005,219.63</b>	<b>2,000,111.40</b>	<b>2.70</b>
<b>6-9 Months</b>								
FFCB 2.7 4/11/2023	3133EJKN8	2.700	US Agency	Bullet	4/11/2023	1,000,000.00	995,570.00	1.35
Redondo Beach CA 0.415 5/1/2023-23	757696AP4	0.415	Municipal	Callable	5/1/2023	500,000.00	488,190.00	0.68
Citibank National Association 3.15 5/11/2023	17312QL23	3.150	Certificate Of Deposit	Bullet	5/11/2023	245,000.00	245,325.85	0.33
University California 3.297 5/15/2023-23	91412HBK8	3.297	Municipal	Callable	5/15/2023	930,000.00	927,898.20	1.26
<b>Total / Average 6-9 Months</b>		<b>2.522</b>				<b>2,675,000.00</b>	<b>2,656,984.05</b>	<b>3.61</b>
<b>9-12 Months</b>								
Ontario California 2.216 6/1/2023	68304FAC0	1.420	Municipal	Bullet	6/1/2023	1,096,345.85	1,074,325.80	1.51
FHLB 3.25 6/9/2023	313383QR5	2.536	US Agency	Bullet	6/9/2023	1,005,191.32	997,830.00	1.39
FAMC 2.47 7/3/2023	31422XZQ8	2.470	US Agency	Bullet	7/3/2023	1,000,000.00	991,880.00	1.35
FAMC 2.9 7/24/2023	3132X03V1	2.981	US Agency	Bullet	7/24/2023	999,327.83	995,010.00	1.35
Safra National Bank 3 7/31/2023	78658RKA8	3.000	Certificate Of Deposit	Bullet	7/31/2023	242,000.00	241,784.62	0.33
Rowland ISD CA 0.541 8/1/2023	779631JW1	0.541	Municipal	Bullet	8/1/2023	400,000.00	388,140.00	0.54
FHLB 3.007 8/4/2023	3130ASV55	3.239	US Agency	Bullet	8/4/2023	997,896.89	995,610.00	1.35
First Missouri State Bank 2.85 8/14/2023	32100LBY0	2.850	Certificate Of Deposit	Bullet	8/14/2023	245,000.00	244,372.80	0.33

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
Customers Bank 3 8/15/2023	23204HKB3	3.000	Certificate Of Deposit	Bullet	8/15/2023	242,000.00	241,712.02	0.33
FFCB 0.3 9/1/2023-21	3133EL5J9	0.300	US Agency	Callable	9/1/2023	1,000,000.00	968,010.00	1.35
<b>Total / Average 9-12 Months</b>		<b>2.137</b>				<b>7,227,761.89</b>	<b>7,138,675.24</b>	<b>9.82</b>
<b>1-2 Years</b>								
FHLB 3.375 9/8/2023	313383YJ4	2.227	US Agency	Bullet	9/8/2023	1,011,093.59	997,050.00	1.42
Oklahoma Water Resources OK 0.432 10/1/2023-23	67920QWY0	0.432	Municipal	Callable	10/1/2023	100,000.00	96,677.00	0.14
California State 2.25 10/1/2023	13063DDG0	3.092	Municipal	Bullet	10/1/2023	991,588.31	986,060.00	1.30
FFCB 0.27 10/5/2023-21	3133EMBQ4	0.282	US Agency	Callable	10/5/2023	999,872.15	962,140.00	1.35
State of Ohio 2.3 11/1/2023	677522SQ8	3.451	Municipal	Bullet	11/1/2023	986,930.61	984,720.00	1.33
FNMA 0.25 11/27/2023	3135G06H1	3.328	US Agency	Bullet	11/27/2023	962,941.84	961,100.00	1.30
Medallion Bank UT 1.7 12/22/2023	58404DFX4	1.700	Certificate Of Deposit	Bullet	12/22/2023	245,000.00	240,207.80	0.33
Morgan Stanley Bank 3.35 1/10/2024	61760ATZ2	3.350	Certificate Of Deposit	Bullet	1/10/2024	245,000.00	245,355.25	0.33
FFCB 2.37 2/5/2024	3133EH5S8	2.524	US Agency	Bullet	2/5/2024	997,941.29	985,370.00	1.34
TIAA FSB FL 3 2/22/2024	87270LBU6	3.000	Certificate Of Deposit	Bullet	2/22/2024	245,000.00	244,059.20	0.33
FHLB 3.25 3/8/2024	3130A0XE5	2.625	US Agency	Bullet	3/8/2024	1,009,191.14	994,430.00	1.37
California State 3 4/1/2024	13063DLZ9	2.500	Municipal	Bullet	4/1/2024	1,007,404.24	990,780.00	1.38
FHLB 2.5 4/26/2024-23	3130ARLS8	2.500	US Agency	Callable	4/26/2024	475,000.00	464,930.00	0.64
Comenity Capital Bank UT 2.75 4/30/2024	20033AU95	2.750	Certificate Of Deposit	Bullet	4/30/2024	245,000.00	242,777.85	0.33
Pasadena Pension CA 1.8 5/1/2024	70227RBK5	1.800	Municipal	Bullet	5/1/2024	260,000.00	251,323.80	0.35
FAMC 2.65 5/2/2024	31422XYB2	2.690	US Agency	Bullet	5/2/2024	999,354.12	986,700.00	1.35
Bank New England NH 2.65 5/23/2024	06426KBE7	2.650	Certificate Of Deposit	Bullet	5/23/2024	245,000.00	242,221.70	0.33
University Northern CO 2.147 6/1/2024	914733DV9	2.147	Municipal	Bullet	6/1/2024	1,000,000.00	970,380.00	1.35
FFCB 2.16 6/3/2024	3133EKNX0	1.865	US Agency	Bullet	6/3/2024	1,004,923.66	979,220.00	1.37
FFCB 3.25 6/17/2024	3133ENYX2	3.300	US Agency	Bullet	6/17/2024	999,138.50	995,100.00	1.35
Lafayette Fed Credit Union 2.85 6/17/2024	50625LBK8	2.850	Certificate Of Deposit	Bullet	6/17/2024	249,000.00	246,868.56	0.34
FNMA 1.75 7/2/2024	3135G0V75	3.319	US Agency	Bullet	7/2/2024	972,257.72	970,190.00	1.31
Enerbank UT 2.15 8/7/2024	29278TKJ8	2.150	Certificate Of Deposit	Bullet	8/7/2024	245,000.00	239,396.85	0.33
<b>Total / Average 1-2 Years</b>		<b>2.538</b>				<b>15,496,637.17</b>	<b>15,277,058.01</b>	<b>20.98</b>
<b>2-3 Years</b>								
First Farmers Bank & Trust 1.75 9/4/2024	320165JK0	1.750	Certificate Of Deposit	Bullet	9/4/2024	245,000.00	237,196.75	0.33
FAMC 1.74 9/26/2024	31422BMD9	1.664	US Agency	Bullet	9/26/2024	1,001,503.20	965,960.00	1.36
South Gate Utility CA 2.224 10/1/2024-24	83789TBQ1	2.224	Municipal	Callable	10/1/2024	500,000.00	482,495.00	0.68
California State University 0.563 11/1/2024	13077DQC9	0.563	Municipal	Bullet	11/1/2024	400,000.00	373,000.00	0.54
FAMC 1.79 11/1/2024	31422BPG9	1.804	US Agency	Bullet	11/1/2024	999,711.32	965,230.00	1.35
California State 1.646 11/1/2024-24	13077DKC5	1.646	Municipal	Callable	11/1/2024	400,000.00	381,908.00	0.54
California State 0.56 12/1/2024-24	13067WRB0	0.560	Municipal	Callable	12/1/2024	250,000.00	233,250.00	0.34
FFCB 1.08 1/6/2025	31422XRD6	1.080	US Agency	Bullet	1/6/2025	1,000,000.00	946,250.00	1.35
KEMBA Financial Credit Union 1.8 1/8/2025	48836LAJ1	1.800	Certificate Of Deposit	Bullet	1/8/2025	245,000.00	236,082.00	0.33

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
FAMC 1.2 1/14/2025	31422XSU7	1.195	US Agency	Bullet	1/14/2025	1,000,118.66	948,420.00	1.35
Knoxville TVA TN 1.95 1/16/2025	499724AL6	1.950	Certificate Of Deposit	Bullet	1/16/2025	245,000.00	236,834.15	0.33
FFCB 1.67 2/14/2025-24	3133ENNX4	1.670	US Agency	Callable	2/14/2025	1,000,000.00	951,240.00	1.35
Somerset Trust Company 1 3/19/2025	835104BZ2	1.000	Certificate Of Deposit	Bullet	3/19/2025	245,000.00	230,518.05	0.33
Iberia Bank LA 1 3/20/2025	45083ANS7	1.000	Certificate Of Deposit	Bullet	3/20/2025	245,000.00	230,598.90	0.33
Pacific Western Bank CA 1.35 4/16/2025	69506YRG6	1.350	Certificate Of Deposit	Bullet	4/16/2025	245,000.00	232,321.25	0.33
Celtic Bank UT 1.5 4/17/2025	15118RUX3	1.500	Certificate Of Deposit	Bullet	4/17/2025	245,000.00	233,146.90	0.33
First National Bank TX 1.35 4/28/2025	32112UDR9	1.350	Certificate Of Deposit	Bullet	4/28/2025	245,000.00	232,071.35	0.33
Alexandria Utilities LA 1.498 5/1/2025-25	015086NJ6	1.498	Municipal	Callable	5/1/2025	400,000.00	375,524.00	0.54
TVA 0.75 5/15/2025	880591EW8	0.625	US Agency	Bullet	5/15/2025	1,003,326.27	926,320.00	1.36
Beverly Hills CA 0.719 6/1/2025	088013FG7	0.719	Municipal	Bullet	6/1/2025	500,000.00	461,055.00	0.68
State Bank India NY 1.05 6/10/2025	856285TR2	1.050	Certificate Of Deposit	Bullet	6/10/2025	245,000.00	229,631.15	0.33
San Francisco California 0.728 6/15/2025-25	79773KDC5	0.728	Municipal	Callable	6/15/2025	500,000.00	456,450.00	0.68
FAMC 0.48 6/19/2025	31422BD98	0.531	US Agency	Bullet	6/19/2025	998,605.00	920,070.00	1.35
FHLMC 0.65 6/30/2025-22	3134GVT99	0.650	US Agency	Callable	6/30/2025	1,000,000.00	924,560.00	1.35
Minnwest Bank South MN 0.5 7/15/2025	60425SHY8	0.500	Certificate Of Deposit	Bullet	7/15/2025	245,000.00	225,311.80	0.33
Preferred Bank CA 0.5 7/17/2025	740367MA2	0.500	Certificate Of Deposit	Bullet	7/17/2025	245,000.00	225,272.60	0.33
FNMA 0.625 7/21/2025-22	3136G4ZJ5	0.625	US Agency	Callable	7/21/2025	1,000,000.00	914,870.00	1.35
Bank Baroda NY 0.6 7/22/2025	06063HMR1	0.600	Certificate Of Deposit	Bullet	7/22/2025	245,000.00	225,943.90	0.33
Flagstar Bank MI 0.6 7/22/2025	33847E3W5	0.600	Certificate Of Deposit	Bullet	7/22/2025	245,000.00	225,943.90	0.33
FNMA 0.65 8/14/2025-22	3136G4C43	0.650	US Agency	Callable	8/14/2025	1,000,000.00	913,680.00	1.35
FHLMC 3.45 8/25/2025-23	3134GXR55	3.530	US Agency	Callable	8/25/2025	598,657.39	596,136.00	0.81
City of Santa Rosa 0.977 9/1/2025-25	802649TJ2	0.977	Municipal	Callable	9/1/2025	500,000.00	457,180.00	0.68
<b>Total / Average 2-3 Years</b>		<b>1.173</b>				<b>17,236,921.84</b>	<b>16,194,470.70</b>	<b>23.30</b>
<b>3-4 Years</b>								
FHLMC 0.5 9/30/2025-22	3134GWWQ5	0.500	US Agency	Callable	9/30/2025	1,000,000.00	905,890.00	1.35
FNMA 0.54 10/27/2025-22	3136G45C3	0.540	US Agency	Callable	10/27/2025	1,000,000.00	905,120.00	1.35
FFCB 0.46 11/3/2025	3133EMFS6	0.493	US Agency	Bullet	11/3/2025	998,963.95	909,950.00	1.35
FNMA 0.57 11/17/2025-22	3135GA3X7	0.570	US Agency	Callable	11/17/2025	1,000,000.00	904,540.00	1.35
California State 0.751 12/1/2025-25	13067WSV5	0.751	Municipal	Callable	12/1/2025	250,000.00	226,575.00	0.34
FFCB 0.47 12/22/2025-22	3133EMLC4	0.470	US Agency	Callable	12/22/2025	1,000,000.00	898,980.00	1.35
JPMorgan Chase 0.5 1/6/2026	48128UVT3	0.500	Certificate Of Deposit	Bullet	1/6/2026	245,000.00	222,342.40	0.33
FAMC 0.48 1/15/2026	31422B6K1	0.489	US Agency	Bullet	1/15/2026	999,667.31	904,360.00	1.35
FFCB 0.45 2/2/2026-23	3133EMPD8	0.450	US Agency	Callable	2/2/2026	1,000,000.00	895,300.00	1.35
FFCB 0.8 3/9/2026-23	3133EMSU7	0.800	US Agency	Callable	3/9/2026	1,000,000.00	904,130.00	1.35
FHLB 0.65 3/10/2026-22	3130ALDS0	0.650	US Agency	Callable	3/10/2026	1,000,000.00	906,880.00	1.35
FAMC 0.83 3/27/2026	31422XDX7	0.828	US Agency	Bullet	3/27/2026	1,000,072.32	910,360.00	1.35
Nelnet Bank UT 0.75 4/15/2026	64034KAF8	0.750	Certificate Of Deposit	Bullet	4/15/2026	245,000.00	222,729.50	0.33
Greenstate Credit Union 0.95 4/16/2026	39573LBC1	0.950	Certificate Of Deposit	Bullet	4/16/2026	245,000.00	224,236.25	0.33

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
Oceanside Water CA 1.103 5/1/2026	675413DL9	1.103	Municipal	Bullet	5/1/2026	210,000.00	190,858.50	0.28
FAMC 0.95 5/4/2026-23	31422XFP2	0.950	US Agency	Callable	5/4/2026	1,000,000.00	905,570.00	1.35
FAMC 0.925 6/10/2026-22	31422XHF2	0.925	US Agency	Callable	6/10/2026	1,000,000.00	902,630.00	1.35
Toyota Financial Savings NV 0.95 7/29/2026	89235MLE9	0.950	Certificate Of Deposit	Bullet	7/29/2026	245,000.00	222,856.90	0.33
Upper Santa Clara Valley Water District 1.175 8/1/	916544EV7	3.350	Municipal	Bullet	8/1/2026	921,207.58	897,730.00	1.24
FFCB 0.71 8/10/2026-23	3133EM2C5	0.710	US Agency	Callable	8/10/2026	1,000,000.00	891,370.00	1.35
UBS Bank UT 0.95 8/11/2026	90348JR93	0.950	Certificate Of Deposit	Bullet	8/11/2026	245,000.00	222,567.80	0.33
<b>Total / Average 3-4 Years</b>		<b>0.825</b>				<b>15,604,911.16</b>	<b>14,174,976.35</b>	<b>21.08</b>
<b>4-5 Years</b>								
FHLB 0.75 9/28/2026-21	3130ANY38	0.750	US Agency	Callable	9/28/2026	1,000,000.00	896,170.00	1.35
FAMC 0.9 10/2/2026-22	31422XNH1	0.900	US Agency	Callable	10/2/2026	1,000,000.00	894,900.00	1.35
Synchrony Bank 1 10/22/2026	87164YE34	1.000	Certificate Of Deposit	Bullet	10/22/2026	248,000.00	224,764.88	0.34
City of Palm Springs 1.402 11/1/2026	69666JHX9	1.402	Municipal	Bullet	11/1/2026	500,000.00	444,150.00	0.68
FFCB 1.34 11/30/2026	3133ENFV7	1.291	US Agency	Bullet	11/30/2026	1,002,007.26	913,940.00	1.35
California State 1.051 12/1/2026-26	13067WSW3	1.918	Municipal	Callable	12/1/2026	964,941.20	888,370.00	1.30
FHLB Step 12/22/2026-22	3130AQ2B8	1.869	US Agency	Callable	12/22/2026	1,000,000.00	924,720.00	1.35
FAMC 1.5 1/19/2027	31422XSV5	1.517	US Agency	Bullet	1/19/2027	999,280.59	920,820.00	1.35
Beal Bank (Texas) 1.55 2/3/2027	07371AWQ2	1.550	Certificate Of Deposit	Bullet	2/3/2027	245,000.00	225,787.10	0.33
FHLB 3 4/21/2027-22	3130ARGE5	3.000	US Agency	Callable	4/21/2027	1,000,000.00	956,280.00	1.35
San Jose California 3.594 5/1/2027	798153PY2	3.594	Municipal	Bullet	5/1/2027	1,000,000.00	970,500.00	1.35
Capital One Bank NA 3.05 5/4/2027	14042TFW2	3.050	Certificate Of Deposit	Bullet	5/4/2027	246,000.00	241,357.98	0.33
FFCB 3.24 6/28/2027	3133ENZK9	3.260	US Agency	Bullet	6/28/2027	999,111.76	991,840.00	1.35
Commonwealth of Massachusetts 3.679 7/15/2027	576004HD0	3.679	Municipal	Bullet	7/15/2027	500,000.00	495,160.00	0.68
FHLB 4.05 8/10/2027-22	3130ASUC1	4.050	US Agency	Callable	8/10/2027	1,000,000.00	993,880.00	1.35
<b>Total / Average 4-5 Years</b>		<b>2.221</b>				<b>11,704,340.81</b>	<b>10,982,639.96</b>	<b>15.81</b>
<b>Total / Average</b>		<b>1.734</b>				<b>73,950,785.82</b>	<b>70,422,255.71</b>	<b>100</b>

### Monthly Investment Report Definitions

- Disc./Cpn Rate – The yield paid by a fixed income security.
- Yield to Call (YTC) – The rate of return of a security held to call when interest payments, market value and par value are considered.
- Yield to Maturity (YTM) – The rate of return of a security held to maturity when interest payments, market value and par value are considered.
- Bullet – A fixed income security that cannot be redeemed by the issuer until the maturity date.
- Callable – A fixed income security that can be redeemed by the issuer before the maturity date.
- Book Value – The price paid for the security.
- Par Value – The face value of a security.
- Market Value – The current price of a security.
- Sinking Bond – In the case of the CASPWR Bond held by the District, a sinking bond pays a portion of principal on a defined schedule throughout the life of the bond.
- Custodian – The financial institution that holds securities for an investor.

### Investment Abbreviations

- FHLB – Federal Home Loan Bank
- FHLMC – Federal Home Loan Mortgage Corporation (Freddie Mac)
- FNMA – Federal National Mortgage Association (Fannie Mae)
- FFCB – Federal Farm Credit Bank
- FAMCA/AGM – Federal Agricultural Mortgage Corporation (Farmer Mac)
- TVA – Tennessee Valley Authority

**LVMWD CASH ANALYSIS - August 31, 2022**

	Restricted Cash	Cash Held by Policy	Policy Requirement	Funds Available for Capital
101 - Potable Water Operations		13,203,544	9,997,207	
201 - Potable Water Construction	3,746,805			
301 - Potable Water Replacement		9,369,164	11,177,935	
Potable Water Assigned Funds		15,000,000		
603 - Rate Stabilization Fund		8,000,000	8,000,000	
<b>Total Potable Water</b>	<b>3,746,805</b>	<b>45,572,707</b>	<b>29,175,142</b>	<b>5,144,370</b>
102 - Recycled Water Operations		1,845,814	1,100,143	
203 - Recycled Water Construction	598,331			
302 - Recycled Water Replacement		12,265,982	2,539,440	
Recycled Water Assigned Funds		10,000,000		
<b>Total Recycled Water</b>	<b>598,331</b>	<b>24,111,797</b>	<b>3,639,583</b>	<b>11,070,544</b>
130 - Sanitation Operations		5,168,099	3,291,214	
230 - Sanitation Construction	4,986,134			
330 - Sanitation Replacement		7,376,668	12,573,074	
Sanitation Assigned Funds		10,000,000		
<b>Total Sanitation</b>	<b>4,986,134</b>	<b>22,544,767</b>	<b>15,864,288</b>	<b>1,666,614</b>
701 - Vested Sick Leave Reserve	1,375,396			
720 - Insurance Reserve		8,035,219	7,871,864	<b>163,356</b>
JPA	8,226,794			
701 - Internal Services Fund	(3,004,052)			
<i>Subtotal</i>	<i>15,929,408</i>	<i>100,264,490</i>		
<b>TOTAL</b>	<b>116,193,898</b>			

**Financial Policy** - Cash required to comply with District's adopted Financial Policy.

**Assigned Fund** - Revenue restricted to a particular purpose.



**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Finance and Administration

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**SUBJECT: Statement of Revenues, Expenses and Changes in Net Position: July 2022**

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**SUMMARY:**

To ensure effective utilization of the public's assets and money, a monthly Statement of Revenues, Expenses and Changes in Net Position (Statement) is provided to the Board for review. The report is a high-level overview that summarizes the District's financial status through the end of the referenced month and can be used as a supplement to the additional detailed analysis provided in the quarterly financial reports. The data is formatted to mirror the presentation in the Annual Comprehensive Financial Report, which consists of an operating financial section, a non-operating financial section and year-to-date changes in net position. The report is unaudited and preliminary due to the timing of its preparation versus month-end closing for the reported month.

**RECOMMENDATION(S):**

Receive and file the Statement of Revenues, Expenses and Changes in Net Position for the period ending on July 31, 2022.

**FINANCIAL IMPACT:**

There is no financial impact associated with the report.

**DISCUSSION:**

Districtwide operating revenues in July 2022 were \$5.7 million, which were \$0.7 million (or 11.0%) below the prior year's revenues of \$6.4 million and trending in-line with budget expectations through the first month. The decrease in revenues as compared to the prior year was driven mainly by a decrease in Potable Water Enterprise operating revenues of \$0.9 million (or 22.3%), offset by an increase of \$0.2 million in "other income", which consisted mainly of potable water penalties. Revenues from potable water penalties were approximately \$190,000 in July 2022, as compared to \$59,000 in July 2021. Potable water deliveries in July 2022 were 1,347 acre-feet, which were down 39.1% versus deliveries of 2,210 acre-feet in July 2021. The decrease in deliveries is consistent with expectations as the District projected a reduction in revenues of 35% due to on-going drought messaging and continuing water



conservation efforts in Fiscal Year 2022-23.

Districtwide operating expenses in July 2022 were \$4.0 million, which were \$1.9 million (or 32.4%) below July 2021 expenses of \$5.9 million and encompassed 6.7% of the \$58.9 million annual budget, trending favorably versus expectations through the first month of the fiscal year. Operating expense savings in July 2022 were realized primarily from lower source of supply costs versus prior year due to the aforementioned reduction in potable water deliveries.

The District generated net operating income available for capital projects of \$1.8 million in July 2022, which was \$1.2 million above the prior year's net operating income of \$0.6 million and trending favorably when compared to the annual budgeted net operating income of \$5.0 million for the fiscal year.

Within the attached report, the "Current Budget" column pertains to the current fiscal year budget that was adopted and/or amended by the Board. The "Actual Year-to-Date" columns presents the cumulative year-to-date revenues and expenses for both the current fiscal year and prior fiscal year. Lastly, the "Variance with Prior Year" column calculates the net difference between the current fiscal year-to-date balance and the prior fiscal year-to-date balance.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Brian Richie, Finance Manager

**ATTACHMENTS:**

[Statement of Revenues, Expenses and Changes in Net Position: July 2022](#)

**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**Statement of Revenues, Expenses, and Changes in Net Position**  
**For the Month ended July 31, 2022 (Preliminary) and 2021**  
(dollars in thousands)



	<b>Current Budget</b>	<i>Through 8% of fiscal year</i>		<b>Variance with Prior Year Positive (Negative)</b>
		<b>Actual Year-to-Date</b>		<b>2022/23 to 2021/22</b>
		<b>2022/23</b>	<b>2021/22</b>	
<b>OPERATING REVENUES:</b>				
Potable water sales and service fees	\$ 33,321	\$ 3,117	\$ 4,014	\$ (897)
Recycled water sales and service fees	4,610	501	494	7
Sanitation service fees	22,126	1,757	1,751	6
Rental income	-	7	7	-
Other income	3,810	353	181	172
<b>Total operating revenues</b>	<b>63,867</b>	<b>5,735</b>	<b>6,447</b>	<b>(712)</b>
<b>OPERATING EXPENSES:</b>				
<b>Water expenses:</b>				
Source of supply	20,957	2,366	3,437	(1,071)
Pumping	2,903	69	259	(190)
Transmission and distribution	3,953	165	264	(99)
Meter	1,218	43	76	(33)
Water conservation	1,508	-	3	(3)
Rental	240	-	19	(19)
General and administrative	9,159	513	501	12
<b>Total water expenses</b>	<b>39,938</b>	<b>3,156</b>	<b>4,559</b>	<b>(1,403)</b>
<b>Sanitation expenses:</b>				
Share of Joint Powers Authority (expense)	15,903	672	1,164	(492)
Other sewage treatment	553	-	-	-
Lift stations	197	5	9	(4)
General and administrative	2,315	135	140	(5)
<b>Total sanitation expenses</b>	<b>18,968</b>	<b>812</b>	<b>1,313</b>	<b>(501)</b>
<b>Total operating expenses</b>	<b>58,906</b>	<b>3,968</b>	<b>5,872</b>	<b>(1,904)</b>
<b>NET OPERATING INCOME (LOSS)</b>	<b>4,961</b>	<b>1,767</b>	<b>575</b>	<b>1,192</b>
<b>NONOPERATING REVENUES (EXPENSES):</b>				
Taxes and penalties	978	-	-	-
Interest income (expense)	850	87	101	(14)
Facilities charge	841	-	50	(50)
Other revenues/(expenses)	175	24	15	9
<b>Nonoperating revenues (expenses)</b>	<b>2,844</b>	<b>111</b>	<b>166</b>	<b>(55)</b>
Capital contributions	808	-	258	(258)
<b>Change in Net Position</b>	<b>8,613</b>	<b>1,878</b>	<b>999</b>	<b>879</b>
<b>NET POSITION:</b>				
Beginning of fiscal year	286,860	286,860	269,224	17,636
<b>Ending Net Position</b>	<b>\$ 295,473</b>	<b>\$ 288,738</b>	<b>\$ 270,223</b>	<b>\$ 18,515</b>



**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Finance and Administration

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**SUBJECT: Proposed Insurance Provider Plan Changes and Renewals**

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**SUMMARY:**

The District contracts with plan carriers to provide employees with insurance coverage for dental, vision, flexible spending accounts, life and accidental death/dismemberment (AD&D) insurance, short- and long-term disability coverage, and an employee assistance program (EAP). These plans are due for renewal on January 1, 2023, with the exception of vision insurance that is due for renewal on January 1, 2024. Poms & Associates Insurance Brokers, LLC (Poms) serves as the District's broker for the various employee insurance benefits, excluding medical. In anticipation of the renewal process, Poms solicited the existing providers on their interest to renew with the District and solicited the market rates for dental and flexible spending account carriers.

MetLife Insurance Company (MetLife) is the District's current provider for dental insurance and provided the District with a renewal quote for a 10% increase over the current year's rate, resulting in an annual amount of \$198,944. In consideration of the significant increase in cost, the District requested that Poms go to market for dental providers to ensure that the District administers its benefits programs in a fiscally-responsible manner. Poms surveyed the market and presented proposals from two other dental providers: Beam Dental and Delta Dental. In consideration of cost, staff recommends changing dental insurance providers from MetLife to Beam Dental (Beam). Beam's final overall quote was \$129,465 annually with a three-year rate guarantee. Beam provides a comparable level of coverage to MetLife.

Total Administrative Services Corporation (TASC) is the District's current provider for flexible spending accounts. Due to continued dissatisfaction with the quality of customer support from TASC, the District requested that Poms go to market for flexible spending account providers. Poms presented proposals from three other flexible spending account providers. In consideration of quality and cost of service, staff recommends changing carriers from TASC to BBP Admin (BBP). BBP's final overall quote consists of a \$175 annual fee and monthly administration fee of \$3.75 per participating employee. For comparison purposes, TASC charges an annual fee of \$500 and a monthly administration fee of \$4.95 per participating employee.

Anthem Blue Cross is the District’s current provider for life and accidental death/dismemberment (AD&D) insurance, short- and long-term disability coverage, and an employee assistance program (EAP) at no additional cost. Anthem’s final overall quote for all three services includes a rate pass (no change) through January 1, 2024. The current rate is \$79,195 annually.

**RECOMMENDATION(S):**

Accept the proposals from Beam Dental, in the annual amount of \$129,465, for employee dental insurance with a three-year rate guarantee, BBP Admin, in the annual amount of \$2,425, for employee flexible spending accounts, and Anthem Blue Cross, in the annual amount of \$79,195, for employee life and accidental death/dismemberment insurance, and short- and long-term disability coverage.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

The total annual estimated cost of insurance coverage for dental would be \$129,465, resulting in an approximate 28% decrease or a cost-savings of approximately \$51,391. The total annual estimated cost of flexible spending account insurance coverage would be \$2,425, resulting in an approximate 30% decrease or cost-savings of approximately \$1,045. The total annual cost of life, AD&D and short- and long-term disability coverage would remain the same. The overall estimated decrease would be \$52,436.

**DISCUSSION:**

Renewal periods provide an opportunity for the District to change or continue with existing plan carriers with the same or similar level of benefits at the best possible rates.

**Dental Insurance:**

The District's renewal with MetLife in 2021 included a 5% rate cap on the January 1, 2022 renewal. The January 1, 2023 renewal came in at a 10% increase over the current rate. In light of the significant increase in cost, Poms requested proposals from 15 dental carriers and presented three proposals to the District, including MetLife. Following is the annual cost for each carrier:

January 1, 2023	MetLife (current carrier)	Beam Dental	Delta Dental Direct
Annual Total Cost	\$198,944	\$129,465	\$153,737

The 35% difference between MetLife and Beam is significant enough to warrant changing dental providers. Staff recognizes the value of remaining with the same provider for consistency purposes and requested that Poms negotiate a three-year rate guarantee with Beam.

Flexible Spending Accounts:

The District has utilized its current carrier for flexible spending accounts, TASC, since 2010. Due to continued dissatisfaction with the quality of customer support from TASC, the District requested that Poms go to market for flexible spending account carriers. Poms presented proposals from four carriers, including TASC. The costs associated with each are summarized below. The annual total cost reflects the fee for 50 employees, which corresponds to the number of employees currently enrolled in the flexible spending account program.

January 1, 2023	TASC (current)	BBP Admin	Sterling Administration	WEX Benefits
Annual Fee	\$500	\$175	\$0	\$0
Monthly Administration Fee	\$4.95 per participating employee	\$3.75 per participating employee	\$3.50 per participating employee	\$4.00 per participating employee
Annual Total Cost for 50 Employees	\$3,470	\$2,425	\$2,100	\$2,400

Further, BBP, Sterling Administration and WEX provide a dedicated account manager to assist staff with customer and administrative support needs, while TASC does not provide this service. Gaining this service will allow staff to better support participating employees with their flexible spending account needs. Per Poms’ recommendation, BBP provides the best quality of service and offers a comparable level of coverage to TASC. Given the minimal difference in cost among BBP, Sterling Administration and WEX, staff recommends BBP as the clear best choice for flexible spending accounts. By changing carriers from TASC to BBP, the District will save approximately 30%, or \$1,045 annually, and will gain a dedicated account manager and higher quality of service.

The detailed proposals submitted by the presented dental and flexible spending account carriers, as well as the detailed proposal submitted by Anthem Blue Cross, are included with this report.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Sophia Crocker, Human Resources Manager

**ATTACHMENTS:**

[2023 Dental Proposals](#)

[2023 FSA Proposals](#)

[2023 Life + AD&D + STD and LTD Proposals](#)



## DENTAL COST ANALYSIS

	[CURRENT / RENEWAL DENTAL]		[PROPOSED DENTAL]		[PROPOSED DENTAL]	
	METLIFE		BEAM		DELTA DENTAL DIRECT	
	PPO		PPO		PPO	
	In Network	Non-Network	In Network	Non-Network	In Network	Non-Network
<b>Non-Network Reimbursement</b>	90th of R&C		90th of R&C		90th of R&C	
<b>DEDUCTIBLE</b>						
Individual/Family	\$25/\$75		\$25/\$75		\$25/\$75	
Waived for preventive	Yes		Yes		Yes	
<b>ANNUAL MAXIMUM</b>						
Benefit Limit	\$1,500		\$1,500		\$1,500	
<b>PLAN PAYS</b>						
Preventive						
Cleanings, X-Rays, Periodontics	100%	100%	100%	100%	100%	100%
Basic						
Fillings	80%	80%	80%	80%	80%	80%
Major						
Oral Surgery, extractions, endo.	50%	50%	50%	50%	50%	50%
<b>ORTHODONTIA (Adult &amp; Children)</b>						
Coinsurance	50%	50%	50%	50%	50%	50%
Lifetime Maximum	\$2,000		\$2,000		\$2,000	
<b>COMMENTS</b>						
Employee	32	\$48.81	\$53.69	\$34.66	\$41.49	
Two-Party	35	\$96.73	\$106.40	\$68.54	\$82.22	
Family	58	\$174.55	\$192.01	\$125.53	\$148.38	
Monthly Total	125	\$15,071	\$16,579	\$10,789	\$12,811	
Annual Total		\$180,856	\$198,944	\$129,465	\$153,737	
(\$) Change			<b>\$18,087</b>	<b>(\$51,391)</b>	<b>(\$27,119)</b>	
(%) Change			<b>10.00%</b>	<b>-28.42%</b>	<b>-14.99%</b>	
Renewal Date	<b>1-Jan-24</b>		<b>1-Jan-25</b>		<b>1-Jan-25</b>	

Please note this is a summary of benefits and rates only. Final rates will be determined by the carrier based on actual enrollment.

### Proposal for FSA Services

January 1, 2023	CURRENT TASC	PROPOSED BBP	PROPOSED STERLING ADMINISTRATION	PROPOSED WEX
Initial Set-Up Fee	N/A	\$0	\$0	\$0
Annual Fee	\$500	\$175	\$0	\$0
Monthly Administration Fee	\$4.95 per participating employee	\$3.75 per participating employee	\$3.50 per participating employee	\$4.00 per participating employee
Debit Card	Included in \$4.95 admin. fee - up to 2 cards	Included in \$3.75 admin. fee - up to 2 cards	Included in \$3.50 admin. fee - up to 2 cards	Included in \$4.00 admin. fee - up to 2 cards
Processing Fee	\$0	\$0	\$0	\$0
Minimum Monthly Fee	\$50.00	\$25.00	\$25.00	\$70.00
FSA Claim Payment Schedule	Daily	Daily	Daily	Daily
Checks Mailed	Included	Included	Included	Included
Direct Deposit	Included	Included	Included	Included
Plan Document	Included	Included	Included	Included
Summary Plan Description	Included	Included	Included	Included
Nondiscrimination Review	Included	Included	Included	Included
On-line Enrollment	Included	Included	Included	Included
Dedicated Account Manager	Not included	Included	Included	Included
Employer Deduction Reports	Included, available online	Included, available online	Included, available online	Included, available online

Please note this is a summary of benefits and rates only. Please see actual plan brochure for complete details. Final rates will be determined by the carrier based on actual enrollment.



## LIFE & AD&D COST ANALYSIS

### [PROPOSED LIFE & AD&D]

Anthem Blue Cross  
Basic Life & AD&D

PLAN DESIGN HIGHLIGHTS	Class 1: Supervisors & Above	Class 2: All others	Class 3: Board Members
Employee Life/AD&D Amount	1 x BAE plus \$50,000	\$100,000 Flat	\$25,000 Flat
Minimum Benefit	N/A	N/A	N/A
Maximum Benefit	\$300,000	\$100,000	\$25,000
Guarantee Issue	\$300,000	\$100,000	\$25,000
<b>BENEFITS</b>			
Accelerated Benefit	Included	Included	Included
Conversion	Conversion - 31 days	Conversion - 31 days	Conversion - 31 days
Seat Belt Benefit	< \$25,000 or 25%	< \$25,000 or 25%	< \$25,000 or 25%
Age reduction schedule	35% at age 70; 50% at age 75	35% at age 70; 50% at age 75	35% at age 70; 50% at age 75
<b>COMMENTS</b>			
<b>PREMIUMS</b>	<b>VOLUME</b>	<b>[CURRENT/RENEWAL LIFE &amp; AD&amp;D]</b>	
Life Rate per \$1,000	\$14,017,417	\$0.154	\$0.154
AD&D Rate per \$1,000		\$0.030	\$0.030
Total rate per \$1,000		\$0.184	\$0.184
Monthly Premium		<b>\$2,579</b>	<b>\$2,579</b>
Annual Premium		<b>\$30,950</b>	<b>\$30,950</b>
(\$) Change			<b>\$0</b>
(%) Change			<b>0.00%</b>
Renewal Date			<b>January 1, 2024</b>

Please note this is a summary of benefits and rates only. Final rates will be determined by the carrier based on actual enrollment.





## SHORT TERM DISABILITY COST ANALYSIS

### [CURRENT/RENEWAL STD]

Anthem Blue Cross  
Short Term Disability

PLAN DESIGN HIGHLIGHTS	Class 1: General Mgr & Dept Heads	Class 2: Executive Professionals & Managers	Class 3: Supervisors, Professionals, Confidential	Class 4: General & Office
Benefit Percentage	66.67%	66.67%	66.67%	66.67%
Maximum Weekly Benefit	\$2,446	\$1,685	\$1,270	\$831
Elimination Period	30 days	30 days	30 days	30 days
Own Occupation Period	Included	Included	Included	Included
Benefit Duration	22 weeks	22 weeks	22 weeks	22 weeks
Contributions	Employer paid	Employer paid	Employer paid	Employer paid
<b>COMMENTS</b>				

PREMIUMS	VOLUME	[CURRENT/RENEWAL STD]	
Rate per \$10	\$112,125.00	\$0.214	\$0.214
Monthly Premium		<b>\$2,399</b>	<b>\$2,399</b>
Annual Premium		<b>\$28,794</b>	<b>\$28,794</b>
(\$ ) Change			<b>\$0</b>
(% ) Change			<b>0.00%</b>
Renewal Date			<b>January 1, 2024</b>

Please note this is a summary of benefits and rates only. Final rates will be determined by the carrier based on actual enrollment.



## LONG TERM DISABILITY COST ANALYSIS

### [CURRENT/RENEWAL LTD]

Anthem Blue Cross

Long Term Disability

PLAN DESIGN HIGHLIGHTS	Class 1: General Mgr & Dept Heads	Class 2: Executive Professionals & Managers	Class 3: Supervisors, Professionals, Confidential	Class 4: General & Office
Benefit Percentage	66.67%	66.67%	66.67%	66.67%
Maximum Monthly Benefit	\$10,600	\$7,300	\$5,500	\$3,600
Elimination Period	180 days	180 days	180 days	180 days
Own Occupation Period	24 months	24 months	24 months	24 months
Benefit Duration	SSNRA	SSNRA	SSNRA	SSNRA
Pre-Existing Condition Limitation	3/12	3/12	3/12	3/12
Contributions	Employer paid	Employer paid	Employer paid	Employer paid
<b>COMMENTS</b>				

PREMIUMS	VOLUME	[CURRENT/RENEWAL LTD]	
Rate per \$100	\$643,213.00	\$0.252	\$0.252
Monthly Premium		<b>\$1,621</b>	<b>\$1,621</b>
Annual Premium		<b>\$19,451</b>	<b>\$19,451</b>
(\$ ) Change			<b>\$0</b>
(% ) Change			<b>0.00%</b>
Renewal Date			<b>January 1, 2024</b>

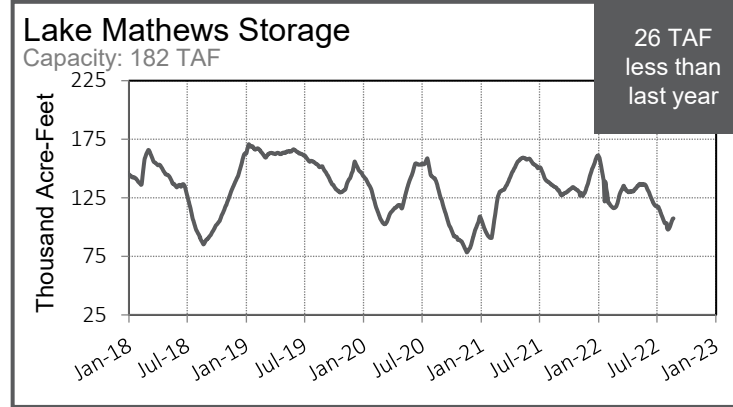
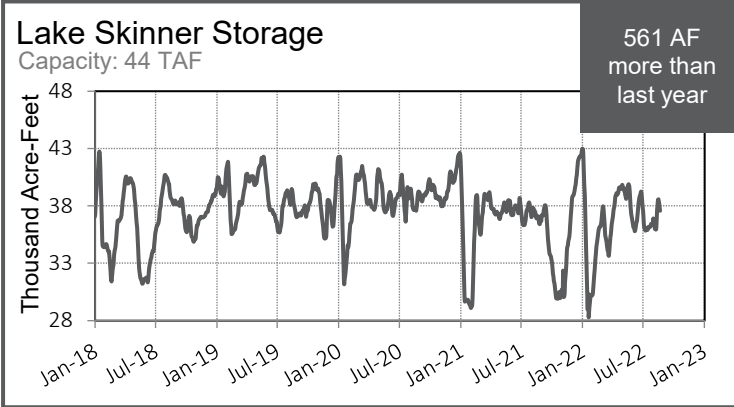
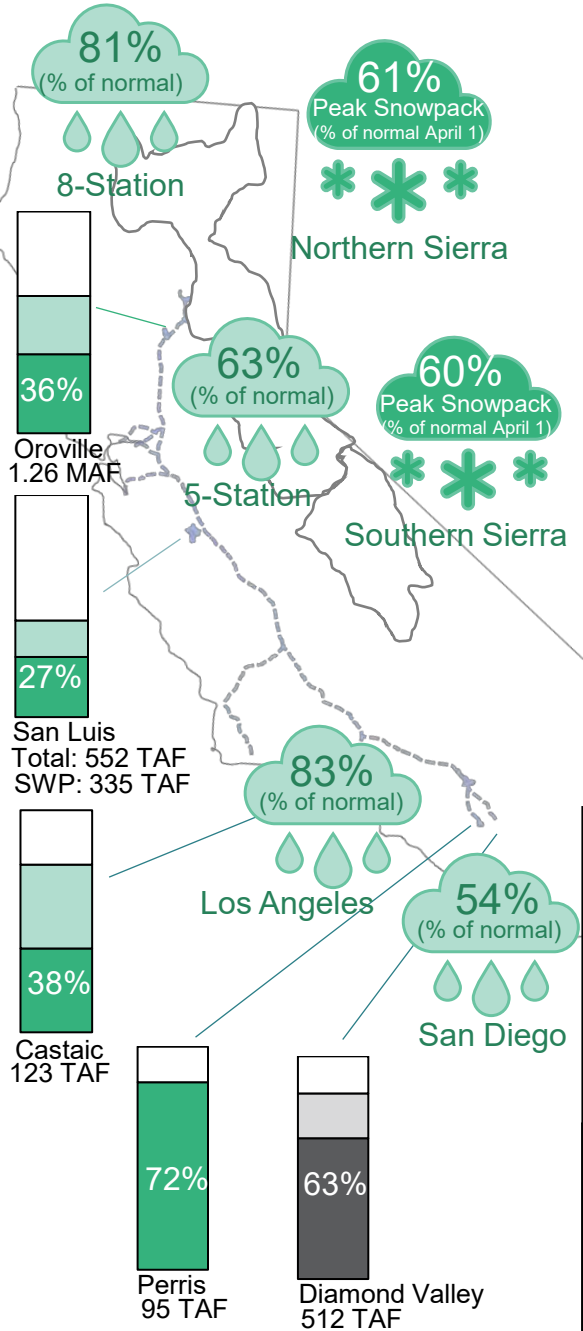
Please note this is a summary of benefits and rates only. Final rates will be determined by the carrier based on actual enrollment.



SWP Table A – 5% - 95,575 AF

Projected CRA Diversions – 1,117,000 AF

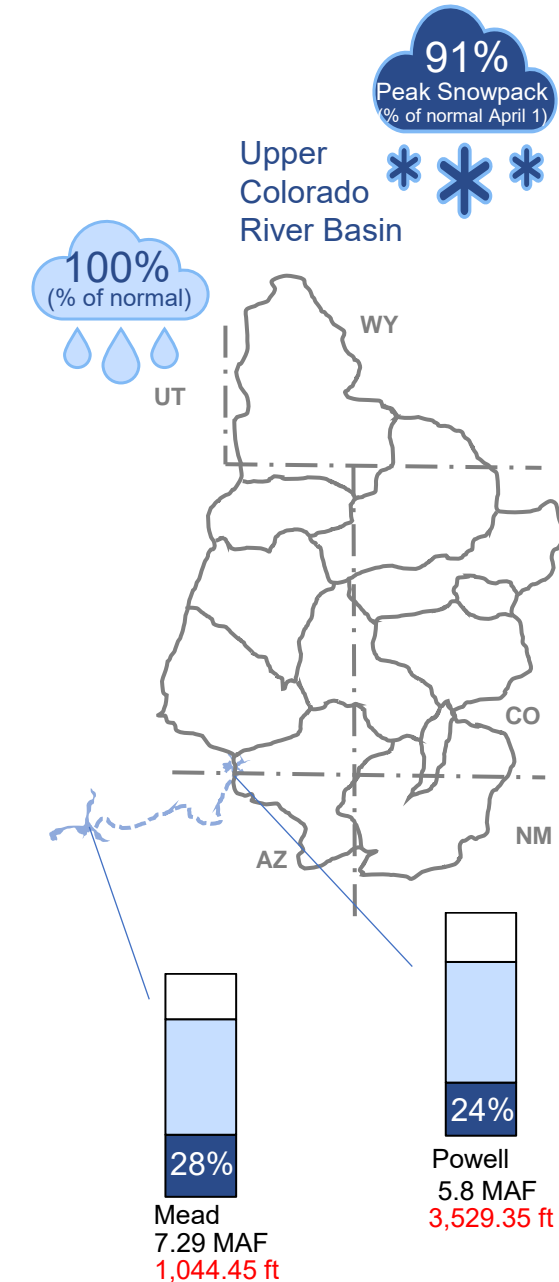
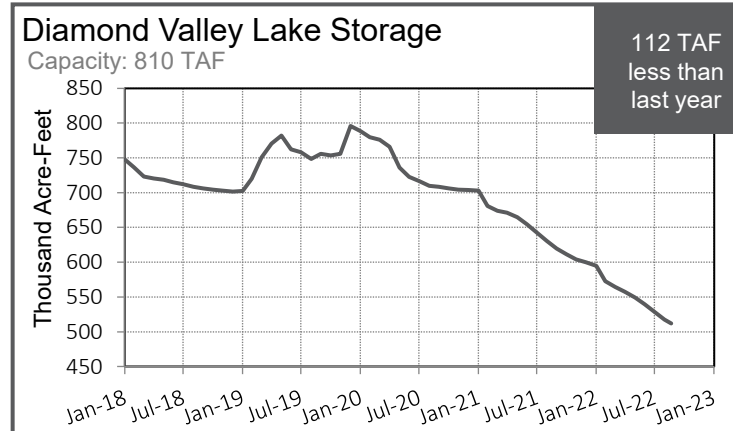
## Metropolitan Resources



### MWD WSDM Storage

Calendar Year 2022

	Take Capacity
Colorado River Aqueduct Delivery System	179 TAF
State Water Project System	188 TAF
In-Region Supplies and WSDM Actions	426 TAF
Other Programs	11 TAF
<b>Total WSDM Storage Take Capacity</b>	<b>804 TAF</b>



## Highlights

- For more information on the current drought, including the Emergency Conservation Program tracking:
  - <https://www.mwdh2o.com/how-we-plan/drought/>



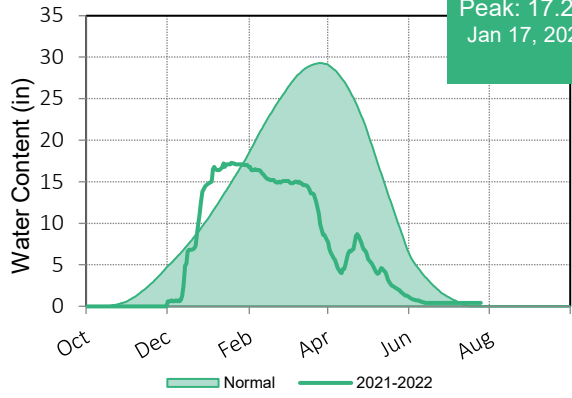
This report is produced by the Water Resource Management Group and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California cannot guarantee the accuracy or completeness of this information. Readers should refer to the relevant state, federal, and local agencies for additional or for the most up to date water supply information. Reservoirs, lakes, aqueducts, maps, watersheds, and all other visual representations on this report are not drawn to scale. Questions? Email [mferreira@mwdh2o.com](mailto:mferreira@mwdh2o.com)

# State Water Project Resources

As of: 09/20/2022

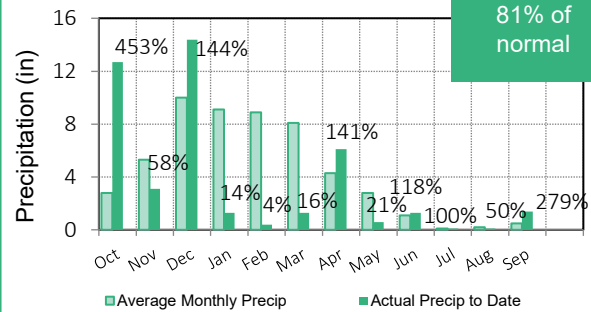
## Northern Sierra Snowpack

Peak: 17.2 in  
Jan 17, 2022



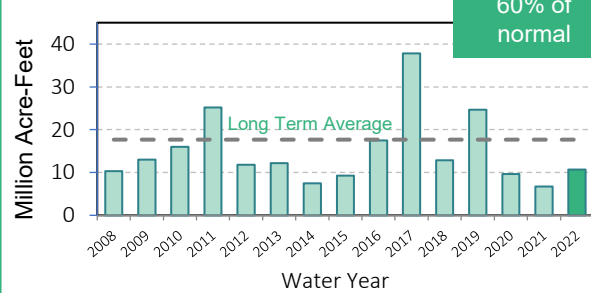
## 8 Station Index Precipitation

42.8 in  
81% of normal



## Sacramento River Runoff

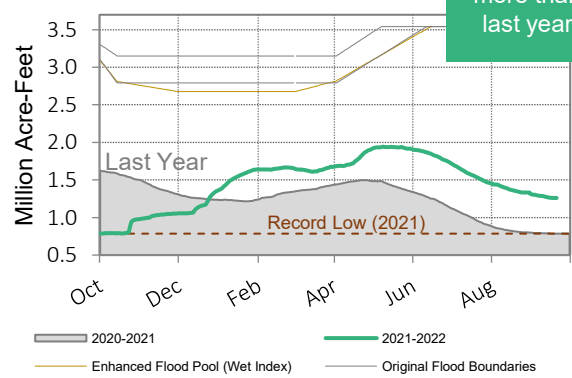
Forecast:  
60% of normal



## Oroville Reservoir Storage

Capacity: 3.54 MAF

472 TAF  
more than last year



## Other SWP Supplies

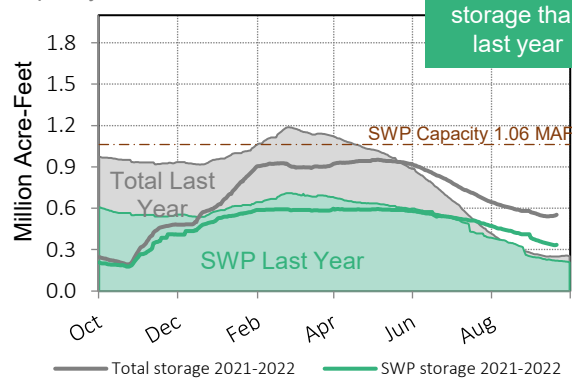
Calendar Year 2022

Carryover 38,000 AF (Est.)  
Human Health and Safety 133,000 AF

## San Luis Reservoir Storage

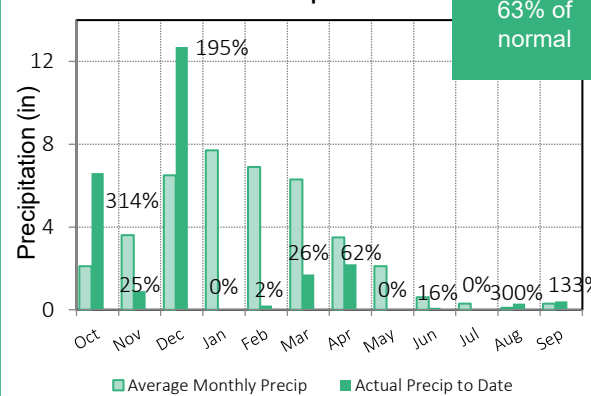
Capacity: 2.04 MAF

114 TAF  
more SWP  
storage than last year



## 5 Station Index Precipitation

25.1 in  
63% of normal

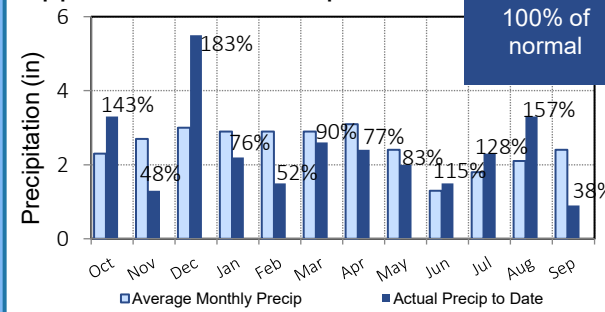


# Colorado River Resources

As of: 09/20/2022

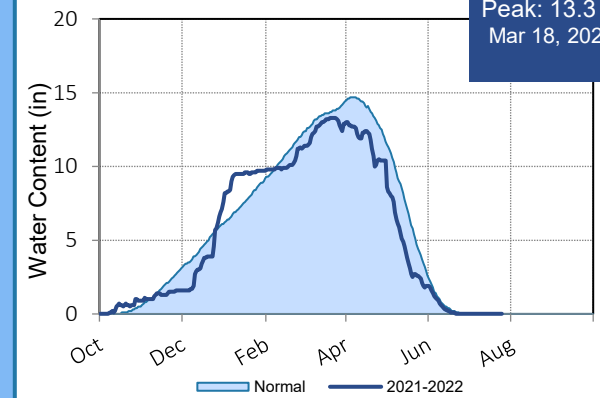
## Upper Colorado Precipitation

28.8 in  
100% of normal



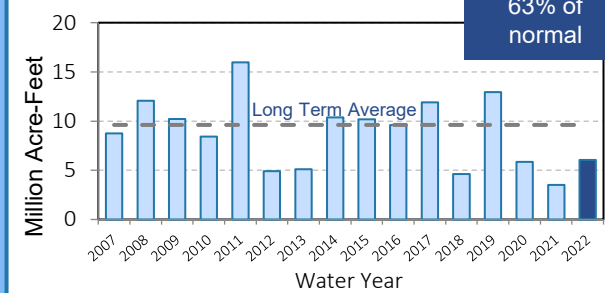
## Upper Colorado Snowpack

Peak: 13.3 in  
Mar 18, 2022



## Powell Unregulated Inflow

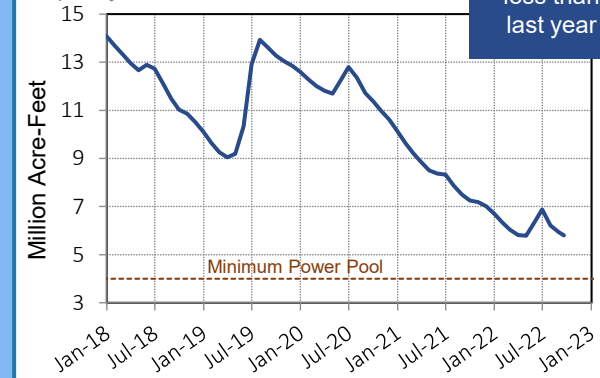
Forecast:  
63% of normal



## Lake Powell Storage

Capacity: 24.3 MAF

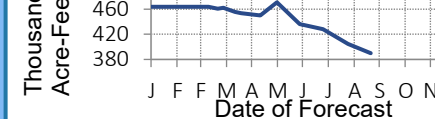
1.57 MAF  
less than last year



## PVID/Yuma Agricultural Use

Annual Forecasted for 2022

Current  
Annual  
Forecast:  
390 TAF



## Projected Lake Mead ICS

Calendar Year 2022

Put (+) / Take (-)  
-133,000 AF

## Lake Mead Surplus/Shortage Outlook

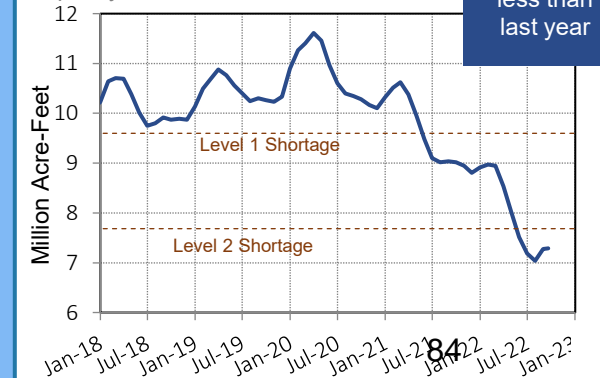
	2023	2024	2025	2026
Surplus	0%	0%	0%	0%
Shortage	100%	93%	100%	93%
Metropolitan DCP*	77%	71%	67%	67%
	282 TAF	302 TAF	293 TAF	

Likelihood based on results from the August 2022 CRMS in Ensemble Mode/CRSS model run. Includes DCP Contributions.  
\* Chance of required DCP contribution by Metropolitan. Volume is average contribution when needed.

## Lake Mead Storage

Capacity: 26.1 MAF

1.73 MAF  
less than last year





LVMWD PUBLIC  
AFFAIRS AND  
COMMUNICATIONS  
TEAM

# DROUGHT OUTREACH



# June 2021



- ▶ LVMWD began drought messaging using social media, press releases, and its website – according to the Strategic Communications Plan for Drought Messaging
- ▶ June 15, 2021: Activated Stage 1 – Water Shortage Alert and issued press release
- ▶ First agency in California to initiate its Water Shortage Contingency Plan (WSCP)
- ▶ Minimal but decent media coverage
- ▶ This time period was to reacclimate our customer base to severe drought conditions and to prepare them for what was to come
- ▶ Existing digital media content focus was altered from LVTap to drought information
- ▶ Contracted with AdTaxi to maximize “reach” using social media content

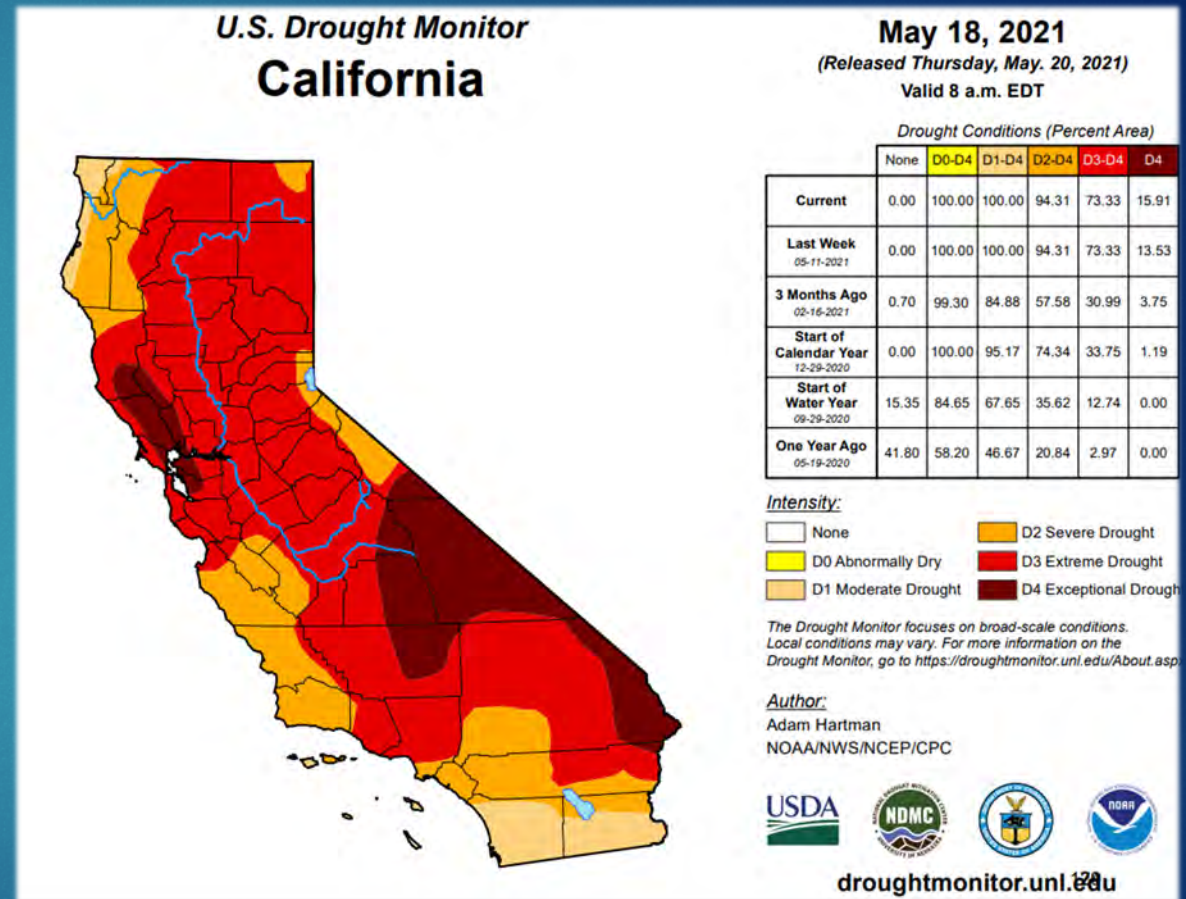
# A New Relationship

- ▶ LVMWD understood that compliance with calls to conserve would only work if customers became better educated
- ▶ Creating a new partnership with each customer is vital to success
  - ▶ Old = LVMWD provides water – Customer pays for water used
  - ▶ New = LVMWD is now an educator, resource for information, and provides tools to customers along with water – customer employs tools and education to make better informed decisions on water usage
- ▶ Shared responsibility between parties
- ▶ Major shift in mindset for everyone



# July 2021

- ▶ LVMWD activated Stage 2 – Water Shortage Warning of the WSCP
- ▶ Additional outreach efforts began to unfold using more intense messaging and narratives, including imagery
- ▶ All customer conservation efforts were voluntary – 15%
- ▶ Increase advertising of recycled water fill station and compost
- ▶ Began using U.S. Drought Monitor and 8-Station Index images to drive drought severity understanding



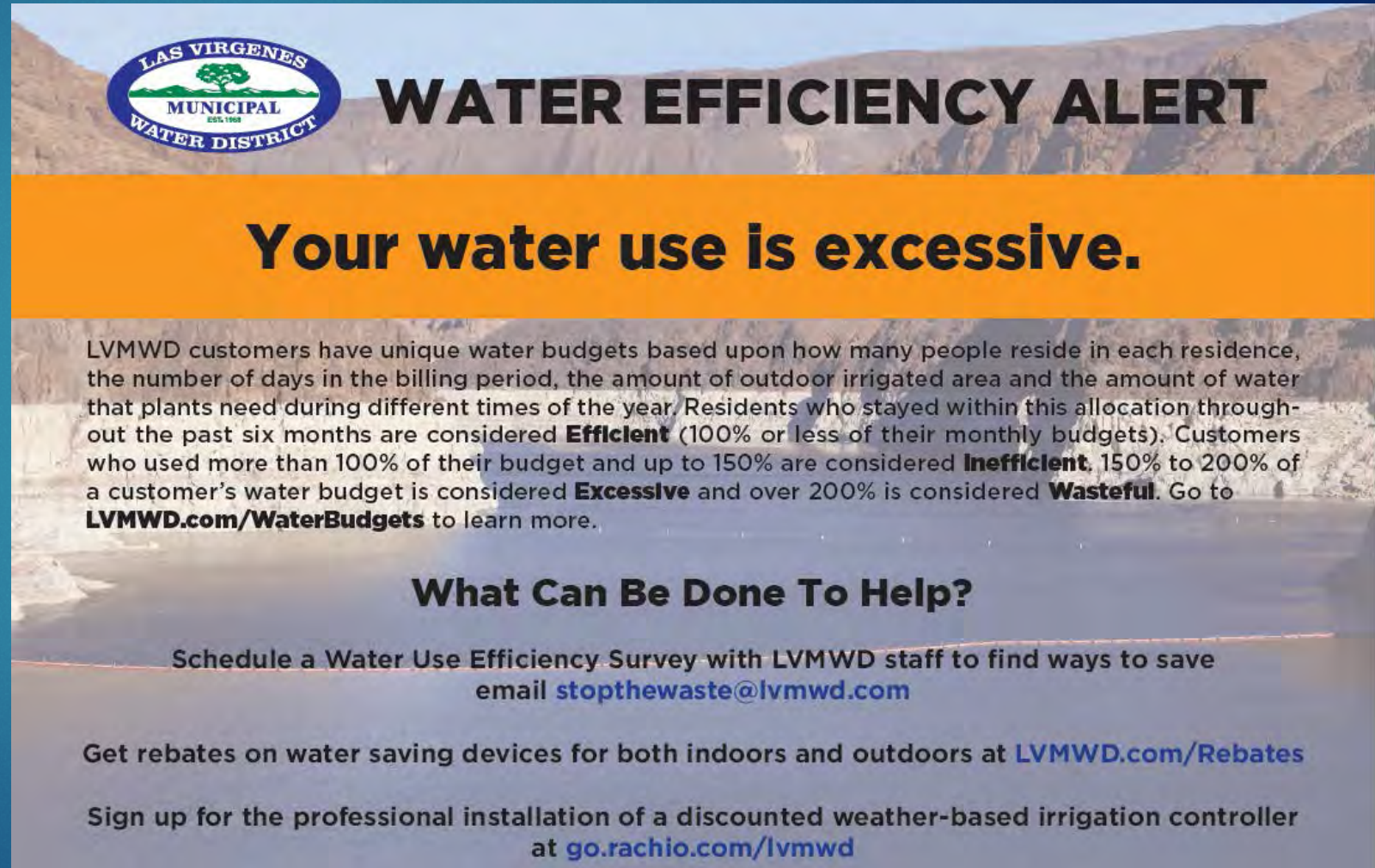


# Late Fall 2021

- ▶ 11/2/21 - LVMWD enacts Stage 3 – Water shortage Emergency of WSCP and issues Press Release
- ▶ 11/16/21 – New penalty structure adopted for excessive water use including use of flow restriction devices
- ▶ Outdoor water budgets reduced by 25%
- ▶ Increased enforcement of wasteful water practices
- ▶ Staff pivots work effort almost exclusively to drought response
- ▶ “Report Cards” sent to customers to inform them how they have been doing on water use efficiency
- ▶ Entered 3rd year of La Nina, and NOAA temperature and precipitation outlooks create dismal beginning to 2022 – albeit two significant precipitation events
- ▶ Community concern and attention begins to increase

# 2022 Actions (All Hands-on Deck)

- ▶ Collateral Material (fact sheets, newsletters, direct mail and more)
- ▶ Website and Social Media Videos
- ▶ Targeted messaging across Facebook, Twitter, Instagram, and the District's website
- ▶ Ads (print/digital)
- ▶ Leveraged expertise from AdTaxi



The graphic features the Las Virgenes Municipal Water District logo in the top left corner, which includes a tree and the text 'LAS VIRGENES MUNICIPAL WATER DISTRICT EST. 1988'. The background is a scenic view of a river valley with mountains. A prominent orange banner across the middle contains the text 'Your water use is excessive.' Below this, a text block explains water budgeting and categories: Efficient (100% or less), Inefficient (150% to 200%), and Excessive (over 200%). It directs users to [LVMWD.com/WaterBudgets](http://LVMWD.com/WaterBudgets) for more information. A section titled 'What Can Be Done To Help?' lists three actions: scheduling a survey (email [stopthewaste@lvmwd.com](mailto:stopthewaste@lvmwd.com)), getting rebates ([LVMWD.com/Rebates](http://LVMWD.com/Rebates)), and signing up for a weather-based irrigation controller ([go.rachio.com/lvmwd](http://go.rachio.com/lvmwd)).

**LAS VIRGENES MUNICIPAL WATER DISTRICT**

## WATER EFFICIENCY ALERT

### Your water use is excessive.

LVMWD customers have unique water budgets based upon how many people reside in each residence, the number of days in the billing period, the amount of outdoor irrigated area and the amount of water that plants need during different times of the year. Residents who stayed within this allocation throughout the past six months are considered **Efficient** (100% or less of their monthly budgets). Customers who used more than 100% of their budget and up to 150% are considered **Inefficient**. 150% to 200% of a customer's water budget is considered **Excessive** and over 200% is considered **Wasteful**. Go to [LVMWD.com/WaterBudgets](http://LVMWD.com/WaterBudgets) to learn more.

#### What Can Be Done To Help?

Schedule a Water Use Efficiency Survey with LVMWD staff to find ways to save email [stopthewaste@lvmwd.com](mailto:stopthewaste@lvmwd.com)

Get rebates on water saving devices for both indoors and outdoors at [LVMWD.com/Rebates](http://LVMWD.com/Rebates)

Sign up for the professional installation of a discounted weather-based irrigation controller at [go.rachio.com/lvmwd](http://go.rachio.com/lvmwd)

# 2022 Actions (All Hands-on Deck)

- ▶ Targeted water efficiency alerts utilizing Everbridge (mass messaging via robo-call/text)
- ▶ Enhanced efforts to increase registrations for WaterSmart
- ▶ March 2022 - First Notice of Exceedance Letters issued to customers
- ▶ May 2022 - LVMWD hosted a virtual town hall meeting - 1300 participants
- ▶ Enhanced media relations campaign working with local, national, and international news outlets.



# June 1, 2022

- ▶ 1 day per week water restriction goes into effect
- ▶ First flow restriction devices installed
- ▶ LVMWD holds media event demonstrating what a flow restrictor does in real-life (heavily attended by media)
- ▶ This was the event that truly began the significant interest in what the District is doing to combat the drought
- ▶ Following this event LVMWD has experienced unprecedented media coverage – earned media



# Media Outlets & LVMWD

## Local

- KTLA The Acorn
- NBC Valley News Group
- FOX LA KNX - radio
- CBS KCLU - radio
- KCal Spectrum
- ABC Malibu Times
- Telemundo VC Star

## State and National

- ▶ NBC San Fran Chronicle
- ▶ CNN Associated Press
- ▶ Fox Weather People Magazine
- ▶ New York Times Hollywood Reporter
- ▶ Washington Post Deseret News
- ▶ LA Times USA Today
- ▶ CalMatters Reuters
- ▶ Business Insider KQED
- ▶ NPR



# Media Outlets Continued...

## International

- ▶ BBC
- ▶ Univision
- ▶ France Television Network
- ▶ Axios
- ▶ CBC
- ▶ London Times
- ▶ The Guardian

## Still to Come

- ▶ CNBC – Highlighting Fernando Gonzalez
- ▶ ???



Fernando Gonzalez, field customer service representative with the Las Virgenes Water District, speaks with



# Earned Media

- ▶ “Earned media is **coverage or promotion of your brand through organic means**. It's a very effective form of content marketing and is also the toughest media type to get.” – Codedeign Definition
- ▶ Since June 2021 to present LVMWD has accumulated **\$125,740,900** worth of earned media
- ▶ Total viewership (eyeballs on content) – **11,345,441,064**
- ▶ World population is 8 billion people
- ▶ Total LVMWD outreach cost since June 2021 = \$390,495 + the last 2.5 months




# Earned Media Stats

(Source: Criticalmention.com)

June 2021 – July 14, 2022

	<b>Total National TV Audience</b> 253,163	<b>Total National TV Publicity</b> USD \$66,185	<b>Total Local TV Audience</b> 253,163	<b>Total Local TV Publicity</b> USD \$66,185
	<b>Total Online + Print Audience</b> 2,574,152,187	<b>Total Online + Print Publicity</b> USD \$20,044,021		
<b>Total Number of Clips</b> 1,998				<a href="#">Collapse All Clips</a>

July 1, 2022 - Present

	<b>Total National TV Audience</b> 727,530	<b>Total National TV Publicity</b> USD \$162,649	<b>Total Local TV Audience</b> 727,530	<b>Total Local TV Publicity</b> USD \$162,649
	<b>Total Online + Print Audience</b> 8,770,041,892	<b>Total Online + Print Publicity</b> USD \$105,463,252		
	<b>Total Podcast Audience</b> 266,292	<b>Total Podcast Publicity</b> USD \$4,793		
<b>Total Number of Clips</b> 1,252				



# Outreach Collateral Examples

**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**Drought Update**

Stage **2** of LVMWD's Water Shortage Contingency Plan has been activated due to extreme and exceptional drought conditions across the state

**Click Here For Water Saving Tips!**

**DRINK FROM THE SINK**  
TWENTY TWENTY-ONE YEAR OF THE TAP

**This is where our water comes from.**  
**Lake Oroville**

**The drought is real, save water now.**

**Click Here**

**Las Virgenes Municipal Water District**  
May 25

Effective June 1, 2022, once-a-week outdoor watering restrictions begin. Addresses ending in 0,2,4,6,8 can water on Tuesdays ONLY, addresses ending in 1,3,5,7,9 can water on Thursday ONLY – 8 minutes per station. More details on these new restrictions can be found at [LVMWD.com/DroughtResponse](http://LVMWD.com/DroughtResponse)  
City of Calabasas - Government iCity of Agoura Hills - Government City of Westlake Village

**ONCE-A-WEEK OUTDOOR WATERING RESTRICTIONS TAKE EFFECT JUNE 1**

**TUESDAY = EVEN** ADDRESSES ENDING IN **EVEN NUMBERS** (0,2,4,6,8) CAN WATER ON **TUESDAY**

ADDRESSES ENDING IN **ODD NUMBERS** (1,3,5,7,9) CAN WATER ON **THURSDAY** **THURSDAY = ODD**

8 minutes per station for standard irrigation systems.  
15 minutes max per station with high-efficiency nozzles/micro-sprayers.  
Watering can only occur from 5:00 pm - 10:00 am.  
Outdoor water budgets remain reduced by 50%.

**LVMWD.com/DroughtResponse**

# Outreach Collateral Examples

 **Las Virgenes Municipal Water District**  
Nov 4, 2021 · 🌐

LVMWD Board of Directors declared a Local Drought Emergency during its November 2nd meeting, escalating to Stage 3 of its Water Shortage Contingency Plan. The decision comes amid rapidly worsening drought conditions and potential supply shortages. Formal changes to the District's Administrative Code will be recommended at the November 16th LVMWD Board meeting. For more information visit [www.LVMWD.com/...](http://www.LVMWD.com/) See more

**Local Drought Emergency Declared.**

**LVMWD Moves to Stage 3 of the Water Shortage Contingency Plan.**

More information on the District's drought response can be found at [LVMWD.com/DroughtResponse](http://LVMWD.com/DroughtResponse)



 **Las Virgenes MWD**  
@LVMWD

Effective May 1, 2022 – LVMWD customers will have their outdoor water budgets reduced by 50% to try to save the limited water supply available and prepare for water supply shortages later this year. More information at [LVMWD.com/DroughtResponse](http://LVMWD.com/DroughtResponse).

#drought #climatechange #savewater

**Outdoor Water Budgets reduced by 50% effective May 1, 2022.**

Learn about current LVMWD drought measures at [LVMWD.com/DroughtResponse](http://LVMWD.com/DroughtResponse)



7:23 AM - 4/8/22 · Twitter Web App

1 Retweet 3 Likes

# Results to Date

- ▶ District-wide conservation
  - ▶ 37% in June
  - ▶ 32% in July
  - ▶ 36% in August
- ▶ 71% of customers have not had more than one exceedance since January
- ▶ ~78% of customers within budget in August
- ▶ Outdoor watering ban delayed



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)



# Las Virgenes Reservoir Bath Ring



# Customer Dried Lawn – Upper Oaks







**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Facilities and Operations

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**SUBJECT: Tapia Carbon Tower Media Replacement: Authorization**

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The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for this matter in the adopted JPA Budget. This recommendation is before the LVMWD Board of Directors for action, acting as Administering Agent, in accordance with the JPA Agreement.

**SUMMARY:**

One of the regular maintenance projects included in the budget is for replacement of granular activated carbon in the towers that are used for odor control at the Tapia Water Reclamation Facility and at Lift Station Nos. 1 and 2. There are four carbon towers at Tapia’s headworks facility, and three carbon towers at the primary sedimentation tanks. These carbon towers need to have the carbon replaced regularly. For this fiscal year, two primary carbon towers (6,000 lbs. each) and one headworks carbon tower (18,000 lbs.) are scheduled for replacement. Carbon life expectancy for the primary carbon towers is approximately one year, while the life expectancy for the headworks carbon towers is approximately two years. Additionally, there are 600 lb. carbon towers at each lift station that need carbon replacement annually. Carbon Activated Corporation was the low bidder for the work.

**RECOMMENDATION(S):**

Authorize the General Manager to issue a purchase order to Carbon Activated Corporation, in the amount of \$55,597.16, for carbon tower media replacement at the Tapia Water Reclamation Facility and Lift Station Nos. 1 and 2.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

Sufficient funding for this work is available in the adopted Fiscal Year 2022-23 Budget. Carbon replacement at Tapia is a JPA expense that is allocated 70.6% to LVMWD and 29.4% to Triunfo Water and Sanitation District. However, Lift Station Nos. 1 and 2 are LVMWD-only facilities, so expenses for that portion of the work are allocated 100% to LVMWD.

**DISCUSSION:**

A request for quotes was advertised on the District website, and the following four bids were received for the work:

Carbon Activated Corp.	\$ 55,597.16
Karbonous, Inc.	\$ 56,844.72
Carbon Supply, Inc.	\$ 85,581.00
PureAir Filtration	\$ 133,745.00

It is recommended that Carbon Activated Corporation be issued a purchase order for the work. The bid amount for similar work last year was \$41,953. Carbon Activated Corporation has performed this service satisfactorily in the past.

**GOALS:**

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

Prepared by: Brett Dingman, Water Reclamation Manager





**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Facilities and Operations

---

**SUBJECT: Tapia Tertiary Filter Media Replacement: Authorization**

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The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for this matter in the adopted JPA Budget. This recommendation is before the LVMWD Board for action, acting as Administering Agent of the JPA, in accordance with the JPA Agreement.

**SUMMARY:**

One of the scheduled maintenance projects in the adopted budget involves the replacement of the tertiary filter media at the Tapia Water Reclamation Facility. The tertiary filters remove particulate matter before final disinfection and distribution of the recycled water. There are 12 tertiary filters at Tapia that need to have their media replaced approximately every 12 to 15 years due to the loss of anthracite from backwashing and a decrease in performance due to use. For this fiscal year, Filter Nos. 9 and 10 are scheduled for media replacement. The last time the media was replaced in these filters was 2009. Each filter contains 4 feet of anthracite placed over a 1-foot layer of gravel that separates the anthracite from the underdrain to prevent it from escaping the filter. Karbonous, Inc. was the low bidder for the work.

**RECOMMENDATION(S):**

Authorize the General Manager to execute a service agreement with Karbonous, Inc., in the amount of \$115,526, for the replacement of media in Tertiary Filter Nos. 9 and 10 at the Tapia Water Reclamation Facility.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

Sufficient funds are available for this work in the adopted Fiscal Year 2022-23 JPA Budget.

The cost of the work is allocated 70.6% to LVMWD and 29.4% to Triunfo Water and Sanitation District.

**DISCUSSION:**

A request for bids was advertised on the District's website, and the following four bids were received for the work:

Karbonous, Inc.	\$115,526.00
Carbon Activated Corp.	\$187,031.98
ERS Industrial Services, Inc.	\$136,990.00
Carbon Supply, Inc.	\$173,800.00

The cost has increased since last year when media replacement was performed by Karbonous, Inc., for Tertiary Filter Nos. 7 and 8 at a cost of \$92,914. Staff recommends authorization for a service agreement with Karbonous, Inc., in the amount of \$115,526, for the work.

**GOALS:**

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

Prepared by: Brett Dingman, Water Reclamation Manager



**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Finance and Administration

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**SUBJECT: Financial Review for Fiscal Year 2021-22**

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**SUMMARY:**

This report provides a preliminary summary of unaudited Fiscal Year 2021-22 results. The preliminary results provide more timely information to the Board and public before the audited financials are available in December 2022. The report also provides an updated Capital Improvement Program Budget for Fiscal Year 2022-23 for adoption.

**RECOMMENDATION(S):**

Receive and file the financial review for Fiscal Year 2021-22, and adopt the updated Capital Improvement Program Budget for Fiscal Year 2022-23.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

The updated Fiscal Year 2022-23 Capital Improvement Program Budget is \$36.3 million.

**DISCUSSION:**

**Fiscal Year-End 2021-22 Financial Review:**

The year-end financial review summarizes the District’s financial information for the period of July 1, 2021 through June 30, 2022, as compared to budget estimates and prior year actuals. It is important to note that the report is preliminary and the results are unaudited. Total operating revenues in Fiscal Year 2021-22 were \$75.7 million, \$1.3 million (or 1.7%) above

the prior year's revenues of \$74.4 million and exceeded the \$ 70.7 million budget for the fiscal year. The increase in revenues as compared to the prior year was due to an increase in Sanitation Enterprise operating revenues of \$1.6 million (or 8.5%), an increase in Recycled Water Enterprise operating revenues of \$0.2 million (or 2.5%), partially offset by a decrease in Potable Water Enterprise operating revenues of \$0.5 million (or 1.0%).

Potable Water Enterprise operating revenues were \$48.3 million in Fiscal Year 2021-22 versus \$48.8 million prior year. Though potable water rates increased 5.0% versus the prior year, the impact of additional revenues from rates was offset by lower potable water deliveries to customers year-over-year. On-going drought conservation messaging resulted in lower customer demand for potable water supply in Fiscal Year 2021-22 versus the prior year. Potable water deliveries for the fiscal year of 18,105 acre-feet were down 18.1% versus prior year deliveries of 21,391 acre-feet.

Recycled Water Enterprise operating revenues of \$7.2 million in Fiscal Year 2021-22 were \$0.2 million higher than prior year totals and surpassed budgeted revenues by \$1.1 million. Revenues were favorable to budget, primarily due to \$0.8 million in penalties realized for the fiscal year.

Operating revenues of \$20.3 million for the Sanitation Enterprise in Fiscal Year 2021-22 were up \$1.6 million (or 8.5%), as compared to prior year revenues of \$18.7 million and also surpassed the \$19.6 million annual budget by \$0.7 million (or 3.4%).

Districtwide operating expenses in Fiscal Year 2021-22 of \$56.9 million were \$0.8 million (or 1.4%) below the prior year's operating expenses of \$57.7 million and also favorable as compared to the annual operating budget of \$57.8 million.

Potable Water Enterprise operating expenses were \$38.5 million in Fiscal Year 2021-22, favorable to annual budgeted expenses of \$40.1 million, but higher than the prior year's operating expenses of \$37.7 million. Driving the favorability versus budget was reduced source of supply costs of \$23.7 million, as compared to budgeted expenses of \$25.0 million.

Recycled Water operating expenses of \$3.8 million were \$0.2 million (or 5.9%) higher than the prior year's expenses of \$3.6 million, driven primarily from an increase in source of supply costs year-over-year. Supply purchases from the Potable Water Enterprise were necessitated due to an increase in summer demand for recycled water, exceeding the available supply.

Sanitation operating expenses were \$14.5 million in Fiscal Year 2021-22, favorable as compared to prior year expenses of \$16.4 million by \$1.9 million (or 11.5%) due to reduced purchased services costs from the Las Virgenes-Triunfo Joint Powers Authority (JPA). Lower overtime and cash-out/disbursement costs from staff retirements within the JPA resulted in a subsequent reduction of billed purchased services to the District during the fiscal year. Additionally, during the month of March 2022, the JPA received a one-time "indifference payment" from Southern California Edison of \$2.8 million. The one-time revenue received by the JPA reduced the net expenses invoiced to the District and Triunfo Water and Sanitation District for sanitation services, resulting in lower operating expenses year-over-year.

The District generated net operating income available for capital projects of \$18.8 million in Fiscal Year 2021-22, surpassing the prior year's net income of \$16.8 million and annual budgeted net operating income of \$12.9 million for the fiscal year. The District depends on the

net operating income to fund capital projects and meet policy-required reserves.

The District generated revenues from potable water penalties of \$1.9 million in Fiscal Year 2021- 22, which is below the prior year's penalties of \$2.1 million and attributed to improved water conservation efforts by District customers. Revenues from potable water penalties represent 2.5% of the District's total revenues.

#### Final Capital Improvement Program Budget:

The Fiscal Year 2022-23 Operating and Capital Improvement Program Budget was adopted on June 21, 2022. The Capital Improvement Program Budget included many projects that continue or carryover from Fiscal Year 2021-22. At the time of budget adoption, the carryforward amounts were estimated based on known project status information from early May 2022 and projections for completed work during the remainder of the fiscal year. As a result, the carryforward amount estimates are normally different than the actual amounts at fiscal year-end. Since all projects and expenses were previously approved by the Board, staff has historically made corrections to the carryforward amounts at fiscal year-end. However, since staff is now presenting preliminary fiscal year-end results to the Board to increase timeliness of important financial information, staff proposes to provide the Board an opportunity to adopt the final Fiscal Year 2022-23 Capital Improvement Program Budget that reflects the actual carryforward amounts. This action would allow for the budget book to be updated accordingly and provide a more transparent document with the final budget amounts for each project.

Following are examples of several significant changes to the final Capital Improvement Program Budget:

- CIP Project No. 10660 (AMR/AMI Project): The project now includes \$1.5 million in Fiscal Year 2022-23. At time of budget development, the project was anticipated to be completed by June 30, 2022, but was delayed due to various reasons presented to the Board on September 6th. The project also combines CIP Project Nos. 10660 and 10718 to create a single AMR/AMI Project that includes replacement of all small and large meters to align with loan and grant terms.
- Project No. 10685 (Deerlake Tank Construction): The project includes \$1.5 million in carryforward appropriations to Fiscal Year 2022-23 for the construction of a one-million gallon (MG) potable water storage tank to replace the existing 400,000-gallon Twin Lakes Tank. The District will participate in the form of a developer reimbursement for 600,000 gallons of the new storage.
- Project No. 10635 (Pure Water Project Las Virgenes-Triunfo): The final carryforward appropriation increased from \$5.1 million to \$7.2 million based on actual expenditures during Fiscal Year 2021-22.

Attachment A provides a table summarizing the Fiscal Year 2021-22 year-end financial results. All data provided is through June 30, 2022.

Attachment B provides the revised Fiscal Year 2022-23 Capital Improvement Project budget.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Brian Richie, Finance Manager

**ATTACHMENTS:**

[Attachment A](#)

[Attachment B](#)

**Las Virgenes Municipal Water District**  
**Financial Review: Statement of Net Operating Income**  
**For the Year ended June 30, 2022 (Preliminary) and 2021**

(dollars in thousands)

Through 100% of the fiscal year

	<b>Current Budget</b>	<b>Actual Year-to-Date</b>		<b>Variance with Prior Year Positive (Negative)</b>
	<u>2021/22</u>	<u>2021/22</u>	<u>2020/21</u>	<u>2021/22 to 2020/21</u>
<b>All Enterprises</b>				
<b>Total Operating Revenues</b>	<b>\$70,654</b>	<b>\$75,739</b>	<b>\$74,476</b>	<b>\$1,263</b>
Expenses:				
Source of Supply	28,499	26,684	28,036	(1,352)
Purchased Services	10,949	11,699	14,236	(2,537)
O&M Expenses	4,677	4,197	4,451	(254)
Administrative	12,500	13,263	10,209	3,054
Other	1,123	1,056	752	304
<b>Total Operating Expenses</b>	<b>57,748</b>	<b>56,899</b>	<b>57,684</b>	<b>(785)</b>
<b>Net Operating Income (Loss)</b>	<b>12,906</b>	<b>18,840</b>	<b>16,792</b>	<b>2,048</b>
<b>Potable Water Operations</b>				
<b>Total Operating Revenues</b>	<b>44,940</b>	<b>48,298</b>	<b>48,791</b>	<b>(493)</b>
Expenses:				
Source of Supply	24,998	23,716	25,271	(1,555)
O&M Expenses	4,260	3,933	4,091	(158)
Administrative	9,761	9,835	7,532	2,303
Other	1,123	1,056	752	304
<b>Total Operating Expenses</b>	<b>40,142</b>	<b>38,540</b>	<b>37,646</b>	<b>894</b>
<b>Net Operating Income (Loss)</b>	<b>4,798</b>	<b>9,758</b>	<b>11,145</b>	<b>(1,387)</b>
<b>Recycled Water Operations</b>				
<b>Total Operating Revenues</b>	<b>6,097</b>	<b>7,166</b>	<b>6,990</b>	<b>176</b>
Expenses:				
Source of Supply	3,501	2,968	2,765	203
O&M Expenses	161	35	91	(56)
Administrative	810	815	750	65
<b>Total Operating Expenses</b>	<b>4,472</b>	<b>3,818</b>	<b>3,606</b>	<b>212</b>
<b>Net Operating Income (Loss)</b>	<b>1,625</b>	<b>3,348</b>	<b>3,384</b>	<b>(36)</b>
<b>Sanitation Operations</b>				
<b>Total Operating Revenues</b>	<b>19,617</b>	<b>20,275</b>	<b>18,695</b>	<b>1,580</b>
Expenses:				
Purchased Services	10,949	11,699	14,236	(2,537)
O&M Expenses	256	229	269	(40)
Administrative	1,929	2,613	1,927	686
<b>Total Operating Expenses</b>	<b>13,134</b>	<b>14,541</b>	<b>16,432</b>	<b>(1,891)</b>
<b>Net Operating Income (Loss)</b>	<b>\$6,483</b>	<b>\$5,734</b>	<b>\$2,263</b>	<b>\$3,471</b>

# Attachment B

## Capital Improvement Project Detail Fiscal Years 2022-24

Potable Water						
<b>Twin Lakes Pump Station Pipeline Project-CIP10430</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Acevedo	2		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:				599,350	2,872,715	2,273,365
The new pipeline is part of the District's strategy to increase water reliability by providing additional water supply to the Twin Lakes service area. The Twin Lakes Pump Station is currently supplied via the District's LV-3 interconnection with Metropolitan Water District of Southern California (MWD) West Valley Feeder No.2. Once design and easements are complete, a new 16-inch pipeline will be installed to connect to an existing 30 inch water transmission main, which is supplied by MWD's West Valley Feeder No.2 via LV-1. The pipeline will be used to provide additional capacity to the pump station.						
	<b>Potable Water</b>	<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	PW Construction (37.0%)	166,414	1,007,559	246,420	-	
	PW Replacement (63.0%)	283,353	1,715,573	419,580	-	
	<b>Project Totals</b>	<b>449,767</b>	<b>2,723,132</b>	<b>666,000</b>	<b>-</b>	<b>3,988,482</b>
<b>SCADA System Communication Upgrades (LV Only)-CIP10521</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Nkwenji	2		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:				144,703	983,496	-
Migration of the existing communication system from a serial radio network to an Ethernet based radio network. Provides redundant data paths for uninterrupted communication. Eliminates need to rely on telephone company equipment.						
	<b>Potable Water</b>	<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	-	200,000	2,220,000	
	<b>Project Totals</b>	<b>-</b>	<b>-</b>	<b>200,000</b>	<b>2,220,000</b>	<b>2,564,703</b>
<b>Interconnection With CMWD-CIP10556</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Slosser	2		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:				6,335,152	7,003,817	668,665
This continues to be an imperative project that will enhance the reliability of both the District's and CMWD's water supplies. Once completed, this pipeline interconnection between the two agencies will provide a backup supply in the event either agency's main supply source is compromised. The interconnection facilities for the District include 5,000 feet of 24-inch pipe in Lindero Canyon Blvd from Thousand Oaks Blvd to the county line and a pressure reducing station.						
This project is being offset by reimbursements from City of Westlake Village and Prop 84 IRWM grant.						
	<b>Potable Water</b>	<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	PW Construction (20.0%)	577,085	710,818	-	-	
	PW Replacement (80.0%)	2,308,341	2,843,273	-	-	
	<b>Project Totals</b>	<b>2,885,426</b>	<b>3,554,091</b>	<b>-</b>	<b>-</b>	<b>9,889,243</b>
		<b>Project Offset</b>	<b>(1,975,518)</b>			<b>(3,005,097)</b>
					<b>Net Project</b>	<b>6,884,146</b>
<b>Cornell Pump Station Upgrades-CIP10655</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Hurtado	2		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:				416,564	848,726	432,162
Pump station improvements to provide additional reliability and redundancy at a critical facility in the District's backbone potable water system. The improvements will replace the existing natural gas engine, electric motor, two pumps and emergency generator. This project will address deteriorating equipment, install a bypass line, plus update electrical and HVAC components in the pump station. These upgrades collectively provide added security that the pump station will deliver water in both the west-east or east-west directions, during planned and unplanned water system outages.						
	<b>Potable Water</b>	<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	1,588,884	2,021,046	1,940,280	-	
	<b>Project Totals</b>	<b>1,588,884</b>	<b>2,021,046</b>	<b>1,940,280</b>	<b>-</b>	<b>4,377,890</b>



**Capital Improvement Project Detail Fiscal Years 2022-24**

**AMR Implementation-CIP10660**

	<b>Project Manager</b>	<b>Priority</b>	<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
	Jones	2	10,639,083	12,075,209	1,436,126

Project Description:

Install Automated Meter Reading/Advanced Metering Infrastructure (AMR/AMI) for 2-inch and smaller meters including reclaimed system meters. FY21.22 combines this with CIP10718 "Three Inch and Larger Meter Replacement. The scope of work is to replace all 3"-10" meters in preparation for automated meter reading infrastructure integration. There are approximately 40 three inch (3") meters; 26 four inch (4") meters; 22 six inch (6") meters; four (4) eight inch (8") meters; and two (2) ten inch (10") meters that will be replaced as part of this program.

	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
<b>Potable Water</b>					
<b>PW Replacement (100%)</b>	50,000	1,486,126	200,000	-	
<b>Project Totals</b>	50,000	1,486,126	200,000	-	12,325,208
		<b>Project Offset</b>	(200,000)	<b>Project Offset</b>	(785,591)
				<b>Net Project</b>	11,539,617

**Potable Water System PLC Upgrade Phase I-CIP10662**

	<b>Project Manager</b>	<b>Priority</b>	<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
	Nkwenji	3	-	-	-

Project Description:

Rehabilitation including interior and exterior coating, valve and appurtence upgrades and replacements, restoration of deterioriated asphalt, and work to ensure up-to-date compliance for safety and water quality equipment.

	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
<b>Potable Water</b>					
<b>PW Replacement (100%)</b>	188,760	188,760	-	-	
<b>Project Totals</b>	188,760	188,760	-	-	188,760

**Stationary Emergency Generator- PW Pump Station-CIP10672**

	<b>Project Manager</b>	<b>Priority</b>	<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
	Acevedo	2	795,725	3,695,995	2,900,270

Project Description:

The District plans to install four new stationary emergency generators at four critical water pump station facilities: Jed Smith, Cold Canyon, Seminole, and Twin Lakes. Due to the pump stations' remote locations, these potable water pump stations were deemed critical for the reliability of the District's potable water system. The project will enhance water system reliability during power outages caused by Public Safety Power Shutoffs (PSPS) events, wildfires, earthquakes, or other natural and manmade disaster to ensure continuity of service to our customers. The District received a 404 Hazard Mitigation Grant from FEMA/CalOES which is eligible to cover up to 75% of the project costs.

	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
<b>Potable Water</b>					
<b>PW Replacement (100%)</b>	134,200	3,034,470	-	-	
<b>Project Totals</b>	134,200	3,034,470	-	-	3,830,195
		<b>Project Offset</b>	(1,487,404)	<b>Project Offset</b>	(1,728,493)
				<b>Net Project</b>	2,101,702

**Pressure Reducing Station #32 (Old Chimney) Rehabilitation-CIP10675**

	<b>Project Manager</b>	<b>Priority</b>	<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
	Acevedo	2	21,487	525,337	503,850

Project Description:

Install new supply piping, pressure reducing valves (Cla-Val) and isolation valves with corrosion control coatings applied.

	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
<b>Potable Water</b>					
<b>PW Replacement (100%)</b>	50,414	554,264	-	-	
<b>Project Totals</b>	50,414	554,264	-	-	575,751

**Boardroom Audio/Visual Upgrade-CIP10683**

	<b>Project Manager</b>	<b>Priority</b>	<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
	Nkwenji	2	14,213	48,062	-

Project Description:

Upgrade the boardroom audio/visual system.

	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
<b>Potable Water</b>					
<b>PW Replacement (100%)</b>	-	-	75,000	-	
<b>Project Totals</b>	-	-	75,000	-	89,213

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Deerlake Tank Construction-CIP10685**

	<b>Project Manager</b> Acevedo	<b>Priority</b> 2		<b>Project to Date Expenditures</b> 24,977	<b>Project to Date Appropriations</b> 1,541,375	<b>Carryforward</b> 1,516,398
Project Description:						
Reimbursement to Developer for construction of a 600 gallon potable water storage tank.						
	<b>Potable Water</b>	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	1,516,398	-	-	
	<b>Project Totals</b>	-	1,516,398	-	-	1,541,375

**Twin Lakes Pump Station-CIP10686**

	<b>Project Manager</b> Acevedo	<b>Priority</b> 2		<b>Project to Date Expenditures</b> 203	<b>Project to Date Appropriations</b> 997,304	<b>Carryforward</b> 997,101
Project Description:						
Reimbursement to Developer for construction of a 900 gallon per minute (gpm) of additional pumping capacity at the Twin Lakes Pump Station						
	<b>Potable Water</b>	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	997,101	-	-	
	<b>Project Totals</b>	-	997,101	-	-	997,304

**Electronic Document Management System-CIP10701**

	<b>Project Manager</b> Nkwenji	<b>Priority</b> 2		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> 100,000	<b>Carryforward</b> -
Project Description:						
Implement Electronic Document Management System that manages the creation, capture, indexing, storage, retrieval, and disposition of records and information assets of the District.						
	<b>Potable Water</b>	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	-	100,000	100,000	
	<b>Project Totals</b>	-	-	100,000	100,000	200,000

**Pressure Regulating Station Rehabilitation #55-CIP10705**

	<b>Project Manager</b> Almaguer	<b>Priority</b> 2		<b>Project to Date Expenditures</b> 1,218.00	<b>Project to Date Appropriations</b> 132,000	<b>Carryforward</b> 130,782
Project Description:						
Install new piping and isolation valves with corrosion control coatings applied.						
	<b>Potable Water</b>	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	130,782	-	-	
	<b>Project Totals</b>	-	130,782	-	-	132,000

**IT Capital Purchases-10714**

	<b>Project Manager</b> Nkwenji	<b>Priority</b> 2		<b>Project to Date Expenditures</b> 40,854.00	<b>Project to Date Appropriations</b> 150,000	<b>Carryforward</b> 9,146
Project Description:						
Purchase of Information Technology related software and equipment.						
	<b>Potable Water</b>	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	9,146	-	-	
	<b>Project Totals</b>	-	9,146	-	-	50,000

**Meter Vault Upgrades-CIP10719**

	<b>Project Manager</b> Bosson	<b>Priority</b> 2		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> 178,200	<b>Carryforward</b> 178,200
Project Description:						
Meter vault upgrades. Raising meters above grade and upgrading area safety.						
	<b>Potable Water</b>	<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	PW Replacement (100%)	-	178,200	178,200	-	
	<b>Project Totals</b>	-	178,200	178,200	-	356,400

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Multi Site Security Assessment and Improvement- LV Only-CIP10723**

	<b>Project Manager</b> Nkwenji	<b>Priority</b> 2		<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>
Project Description:				-	376,500	376,500
Security assessment of various District sites and facilities. Includes access control and security camera installations and improvements.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	139,500	516,000	473,000	1,862,600	
	<b>Project Totals</b>	139,500	516,000	473,000	1,862,600	2,851,600

**Stunt Road Pump Station Improvements-CIP10727**

	<b>Project Manager</b> Almaguer	<b>Priority</b> 2		<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>
Project Description:				-	324,000	324,000
Rehabilitate/replace existing pump cans that have deteriorated due to corrosion.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	-	324,000	-	-	
	<b>Project Totals</b>	-	324,000	-	-	324,000

**Potable Water System Pipe Rehabilitation and Replacement Program-CIP10728**

	<b>Project Manager</b> Zhao	<b>Priority</b> 2		<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>
Project Description:				-	300,000	300,000
Condition assessment, study and master plan to identify replacement priorities.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	-	300,000	300,000	-	
	<b>Project Totals</b>	-	300,000	300,000	-	600,000

**CIS Mobile Capability-CIP10733**

	<b>Project Manager</b> Spear	<b>Priority</b> 2		<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>
Project Description:				-	33,000	33,000
Implement Mobile Solution for CIS service orders and streamline service order creation and completion by field and office staff.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	117,000	150,000	75,000	-	
	<b>Project Totals</b>	117,000	150,000	75,000	-	225,000

**Pressure Regulating Station Valve Replacement (Multiple Stations)-CIP10734**

	<b>Project Manager</b> Almaguer	<b>Priority</b> 2		<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>
Project Description:				-	39,600	39,600
Project to replace isolation valves that are no longer functioning properly.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	-	39,600	150,480	-	
	<b>Project Totals</b>	-	39,600	150,480	-	190,080

**Emergency Pipeline Construction Repair and Replacements-CIP10736**

	<b>Project Manager</b> Johnson/Korkosz	<b>Priority</b> 1		<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>
Project Description:				-	792,000	396,000
This project consists of responding to emergency repair and replacement of existing pipeline repair on ancillary paving and concrete caused by leaks and failures.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	-	396,000	396,000	-	
	<b>Project Totals</b>	-	396,000	396,000	-	792,000

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Water Tank Rehab- Jed Smith and Dardenne-CIP10757**

	<b>Project Manager</b> Hurtado	<b>Priority</b> 2		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> 250,000	<b>Carryforward</b> -
Project Description:						
Rehabilitation of Jed Smith and Dardenne Tanks.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	-	-	1,751,767	-	
	<b>Project Totals</b>	-	-	1,751,767	-	1,751,767

**Dump Truck Replacement CIP10761**

	<b>Project Manager</b> Triplett	<b>Priority</b> 2		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> 110,000	<b>Carryforward</b> 110,000
Project Description:						
Replace District's dump truck to meet new emission requirements. The dump truck is a 2001 model year with over 50,000 miles.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	-	110,000	-	-	
	<b>Project Totals</b>	-	110,000	-	-	110,000

**Building 1 Improvements-CIP10771**

	<b>Project Manager</b> Leu	<b>Priority</b> 2		<b>Project to Date Expenditures</b> 1,997.00	<b>Project to Date Appropriations</b> 673,000	<b>Carryforward</b> 671,000
Project Description:						
In an effort to maximize revenue derived from all District assets, staff will use existing architectural plans to perform due diligence and further investigate the potential to modify, upgrade, and modernize Building 1 for rental purposes.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	-	671,003	-	-	
	<b>Project Totals</b>	-	671,003	-	-	673,000

**Cla-Val Repair Truck-CIP10773**

	<b>Project Manager</b> Johnson	<b>Priority</b> 1		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> -	<b>Carryforward</b> -
Project Description:						
Specialized piece of equipment for repair of Cla-Val Valves.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	200,000	200,000	-	-	
	<b>Project Totals</b>	200,000	200,000	-	-	200,000

**Agoura Pump Station Onsite Generator-CIP10774**

	<b>Project Manager</b> Johnson	<b>Priority</b> 3		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> -	<b>Carryforward</b> -
Project Description:						
Improve water supply reliability during electric utility shutdowns.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	277,000	277,000	-	-	
	<b>Project Totals</b>	277,000	277,000	-	-	277,000

**Customer Service Security Improvements-CIP10775**

	<b>Project Manager</b> Bosson/Korkosz	<b>Priority</b> 1		<b>Project to Date Expenditures</b> -	<b>Project to Date Appropriations</b> -	<b>Carryforward</b> -
Project Description:						
Replace existing front counter security glass with security glass.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	200,040	200,040	-	-	
	<b>Project Totals</b>	200,040	200,040	-	-	200,040

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Backhoe Replacement-CIP10776**

	<b>Project Manager</b> Triplett	<b>Priority</b> 2	<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>	
Project Description:			-	-	-	
Replace backhoe as required by California Air Resources Control Board. The backhoe is a 1997 model year with approximately 2,430 hours.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	145,200	145,200	-	-	
	<b>Project Totals</b>	145,200	145,200	-	-	145,200

**Upgrade Wireless Communications Backhaul System-CIP10777**

	<b>Project Manager</b> Nkwenji	<b>Priority</b> 1	<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>	
Project Description:			-	-	-	
Upgrade District wireless communications network based on roadmap and priorities from submitted Master Plan.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	396,000	396,000	605,000	1,900,000	
	<b>Project Totals</b>	396,000	396,000	605,000	1,900,000	2,901,000

**Distribution Pumps Overhaul-CIP10778**

	<b>Project Manager</b> Johnson	<b>Priority</b> 1	<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>	
Project Description:			-	-	-	
Repair two SCE low efficient system pumps.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	92,400	92,400	-	-	
	<b>Project Totals</b>	92,400	92,400	-	-	92,400

**Westlake Reservoir Water Quality Equipment-CIP10779**

	<b>Project Manager</b> Johnson	<b>Priority</b> 1	<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>	
Project Description:			-	-	-	
Installation of reservoir water quality equipment.						
<b>Potable Water</b>		<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	-	-	355,000	-	
	<b>Project Totals</b>	-	-	355,000	-	355,000

**Seminole Pump Control Valves-CIP10780**

	<b>Project Manager</b> Almaguer	<b>Priority</b>	<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>	
Project Description:			-	-	-	
Two new pump control valves.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	66,000	66,000	-	-	
	<b>Project Totals</b>	66,000	66,000	-	-	66,000

**LV2 Drives-CIP10781**

	<b>Project Manager</b> Korkosz/Gil	<b>Priority</b> 1	<b>Project to Date</b> <b>Expenditures</b>	<b>Project to Date</b> <b>Appropriations</b>	<b>Carryforward</b>	
Project Description:			-	-	-	
Replacement of obsolete VFD drives.						
	<b>Potable Water</b>	<b>FY 22-23</b> <b>Appropriations</b>	<b>FY 22-23</b> <b>Budget</b>	<b>FY 23-24</b> <b>Appropriations</b>	<b>Future Year</b> <b>Appropriations</b>	<b>Project Total</b>
	<b>PW Replacement (100%)</b>	196,400	196,400	-	-	
	<b>Project Totals</b>	196,400	196,400	-	-	196,400

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Electric Vehicle Charging Station-CIP10740**

	<b>Project Manager</b> Korkosz	<b>Priority</b> 1		<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
Project Description:				-	-	-
Install ten (10) EV charging stations through the SCE Charge Ready program.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	98,000	98,000	-	-	
	<b>Project Totals</b>	98,000	98,000	-	-	98,000

**IT Capital Purchases-CIP10783**

	<b>Project Manager</b> Nkwenji	<b>Priority</b>		<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
Project Description:				-	-	-
Purchase of Information Technology related software and equipment.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	75,000	75,000	75,000	-	
	<b>Project Totals</b>	75,000	75,000	75,000	-	150,000

**PW System Small Valve Replacement (FY22-24)-CIP10784**

	<b>Project Manager</b> Johnson	<b>Priority</b> 2		<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
Project Description:				-	-	-
Replacement of potable water system feeder valves. Activity in fiscal years 2022-2032 are typically 16" and larger.						
		<b>FY 21-22 Appropriations</b>	<b>FY 21-22 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	150,480	150,480	150,480	-	
	<b>Project Totals</b>	150,480	150,480	150,480	-	300,960

**PW System Rehabilitation FY22-24-CIP10785**

	<b>Project Manager</b> Johnson	<b>Priority</b> 2		<b>Prior Year Expenditures</b>	<b>Prior Year Appropriations</b>	<b>Carryforward</b>
Project Description:				-	-	-
Programatic identification and replacement of portions of the potable water system. The goal is to repair and replace portions of the system to prevent system failures.						
		<b>FY 21-22 Appropriations</b>	<b>FY 21-22 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	264,000	264,000	264,000	-	
	<b>Project Totals</b>	264,000	264,000	264,000	-	528,000

**Pressure Vessel Maintenance Program FY22-24-CIP10786**

	<b>Project Manager</b> Almaguer	<b>Priority</b> 2		<b>Project to Date Expenditures</b>	<b>Project to Date Appropriations</b>	<b>Carryforward</b>
Project Description:				-	-	-
Assess, repair, and replace surge protection vessels.						
		<b>FY 22-23 Appropriations</b>	<b>FY 22-23 Budget</b>	<b>FY 23-24 Appropriations</b>	<b>Future Year Appropriations</b>	<b>Project Total</b>
	<b>Potable Water</b>					
	<b>PW Replacement (100%)</b>	99,000	99,000	99,000	-	
	<b>Project Totals</b>	99,000	99,000	99,000	-	198,000

### Capital Improvement Project Detail Fiscal Years 2022-24

#### Fire Hardening-LVMWD Facilities-CIP10787

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
	Korkosz	2	-	-	-

Project Description:

Identify and implement fire hardening strategies for facilities that are prone to wildfire related damage and/or service interruption. Fire hardening strategy for LVMWD facilities includes preventive measures and protection systems for both internal and external sources of fire. Potential facility improvements include 1) employing advanced detectors and utilizing a plant fire safety system; and 2) evaluation and, if feasible, installation of a premier fire defense system. Fire Hardening also includes creating larger defensible space around critical structures and providing wider access roads and preventative improvements to facilities.

Project cost offset by SCE Credit for Fire Hardening.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Potable Water</b>					
PW Replacement (100%)	-	-	204,600	-	
Project Totals	-	-	204,600	-	204,600
Project Offset	-		(204,600)		(204,600)
	-			Net Project	-

#### Potable System Coatings Program FY22-24-CIP10788

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
	Almaguer	2	-	-	-

Project Description:

Implement a proactive painting and coatings program for the protection of District potable water system assets.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Potable Water</b>					
PW Replacement (100%)	100,320	100,320	100,320	-	
Project Totals	100,320	100,320	100,320	-	200,640

#### Cathodic Protection Program FY22-24-CIP10789

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
	Almaguer	2	-	-	-

Project Description:

Assessment, repair, and replacement (if needed) of approximately 274 cathodic protection test points throughout the District's potable water transmission and storage system.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Potable Water</b>					
PW Replacement (100%)	99,000	99,000	99,000	-	
Project Totals	99,000	99,000	99,000	-	198,000

#### Woolsey Fire Landscape Restoration-CIP10790

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
	McDermott	2	-	-	-

Project Description:

Restoration of Woolsey Fire damaged landscaping on District property. Work will include planting of trees and repair/replace irrigation systems where needed. New landscape will incorporate fire resistant design, if applicable.

Project expenses will be offset from grant and reimbursements from Southern California Edison (SCE).

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Potable Water</b>					
PW Replacement (100%)	132,000	132,000	132,000	1,056,000	
Project Totals	132,000	132,000	132,000	1,056,000	1,320,000
Project Offset		(132,000)	(132,000)	(1,056,000)	(1,320,000)
				Net Project	-

#### Construction Vacuum Trailer-CIP10791

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
	Arenas	1	-	-	-

Project Description:

Replacement of 500 gallon vacuum trailer used by the construction crew. Existing piece of equipment has been in service since 2007 and is due for replacement.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Potable Water</b>					
PW Replacement (100%)	85,000	85,000	-	-	
Project Totals	85,000	85,000	-	-	85,000

#### Vehicle Replacement Program FY22-24-CIP10972

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
	Triplett	2	-	-	-

Project Description:

### Capital Improvement Project Detail Fiscal Years 2022-24

Annual fleet vehicle replacements. Increases in FY22-23 and FY23-24 reflect accelerated purchases of certain heavy vehicles in response to new electric fleet purchasing requirements.

Potable Water	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
PW Replacement (100%)	300,000	300,000	300,000	-	
<b>Project Totals</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>-</b>	<b>600,000</b>

#### Potable Water Summary

	Carryforward	FY 22-23 Appropriations	FY 23-24 Appropriations
PW Construction	508,750	743,499	246,420
PW Replacement	12,787,418	7,836,292	8,443,707
<b>Total Potable Water</b>	<b>13,296,168</b>	<b>8,579,791</b>	<b>8,690,127</b>
<b>Project Offsets</b>		<b>(4,201,602)</b>	<b>(336,600)</b>
<b>Net Appropriation</b>		<b>17,674,357</b>	<b>8,353,527</b>

#### Sanitation

##### SCADA System Communications Upgrade-CIP10520

	Project Manager Nkwenji	Priority 2	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:			32,447	93,100	24,750

Migration of the existing communication system from a serial radio network to an ethernet based radio network. Provide redundant data paths for uninterrupted communication. Eliminate need to rely on telephone company equipment.

Sanitation Replacement (100%)	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
LV Share Amount (70.6%)	-	17,474	454,664	1,773,472	
TWSD Share Amount (29.4%)	-	7,277	189,336	738,528	
<b>Project Totals</b>	<b>-</b>	<b>24,750</b>	<b>644,000</b>	<b>2,512,000</b>	<b>3,213,197</b>

##### Tapia Programmable Logic Controller Upgrades-10567

	Project Manager Nkwenji	Priority 2	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:			2,434,455	2,500,000	65,545

This project replaces programmable logic controllers (PLC's) with newer PLCs and provides necessary equipment upgrades (fiber optics, network switches and programming) to complete the installation. This is a program project which addresses Tapia in the first two years and contrate treatment in the third year. Design will occur in the first year for all facilities.

Sanitation Replacement (100%)	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
LV Share Amount (70.6%)	-	46,275	-	-	
TWSD Share Amount (29.4%)	-	19,270	-	-	
<b>Project Totals</b>	<b>-</b>	<b>65,545</b>	<b>-</b>	<b>-</b>	<b>2,500,000</b>

##### Summer Season TMDL Compliance-10619

	Project Manager Nkwenji	Priority 2	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:			2,753,214	4,597,941	1,844,727

In February 2017 the SWRCB adopted the implementation Plan for the 2013 TMDL. The plan provides for compliance with summer time limits within five years. The options for compliance include a "side stream" treatment plant, the use of potable water and nutrient trading in the watershed. This CIP funds the selection, preliminary studies, outreach, CEQA analysis, preliminary design, and final design for the summer time compliance. Project 10611 (Duct Bank Infrastructure Upgrade) was added to this program for the FY19-20 planning period. Construction of a 1 MGD "side stream" treatment facility at Tapia to treat potable water for stream flow augmentation.

Sanitation Replacement (100%)	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
LV Share Amount (70.6%)	-	1,302,377	-	-	
TWSD Share Amount (29.4%)	-	542,350	-	-	
<b>Project Totals</b>	<b>-</b>	<b>1,844,727</b>	<b>-</b>	<b>-</b>	<b>4,597,941</b>



**Capital Improvement Project Detail Fiscal Years 2022-24**

**Pure Water Project-CIP10635**

	Project Manager	Priority	Project to Date	Project to Date	Carryforward
	Slosser	2	Expenditures	Appropriations	
Project Description:			4,996,034	12,473,632	7,199,122

The Pure Water Project relies on indirect potable reuse, a water supply strategy now adopted by many cities and water agencies in California and across the United States to provide local, reliable water. The ultimate, full-scale project will minimize the discharging of usable recycled water into Malibu Creek and instead will convert this resource into a viable source for potable, locally-produced water. The full-scale project involves the construction of several pipelines and an advanced treatment plant that will convert recycled water into pure drinking water. The Pure Water Project creates an affordable and reliable local water supply that will be cost-competitive with imported water, help stabilize water rates, safeguard the local economy, and significantly reduce the uncertainty of supply associated with importing water due to climate change and long-term and reoccurring drought conditions. The project will require public participation and acceptance, regional leadership, and funding to move from concept to reality.

	FY 22-23	FY 22-23	FY 23-24	Future Year	Project Total
Sanitation Replacement (100%)	Appropriations	Budget	Appropriations	Appropriations	
LV Share Amount (70.6%)	-	3,620,070	9,355,234	162,910,072	
TWSD Share Amount (29.4%)	-	1,507,511	3,895,806	67,840,738	
<b>Project Totals</b>	-	<b>5,127,581</b>	<b>13,251,040</b>	<b>230,750,810</b>	<b>256,197,006</b>
<b>Project Offset</b>				Net Project	256,197,006

**Rancho Las Virgenes Storm Water Diversion-CIP10668**

	Project Manager	Priority	Project to Date	Project to Date	Carryforward
	Leu	2	Expenditures	Appropriations	
Project Description:			3,746	3,746	-

Replacement of two storm water diversion structures at the Rancho Las Virgenes Composting Facility. Structures have lifted and need to be addressed. The drainae from the V-ditch goes to a discharge point in Las Virgenes Creek. There is a concern that sludge and/or reclaimed water entering into the V-ditch could enter the creek via the drainage from the V-ditch. An open/close valve should be installed at the drainage area so that operators control the contents of the V-ditch. A sump pump system with discharge piping should also be included so that the contents can be pumped either to the field or offsite.

	FY 22-23	FY 22-23	FY 23-24	Future Year	Project Total
SanitationReplacement (100%)	Appropriations	Budget	Appropriations	Appropriations	
LV Share Amount (70.6%)	-	-	121,361	-	
TWSD Share Amount (29.4%)	-	-	50,539	-	
<b>Project Totals</b>	-	-	<b>171,900</b>	-	<b>175,646</b>

**Tapia Effluent Pump Station-CIP10702**

	Project Manager	Priority	Project to Date	Project to Date	Carryforward
	Gil/Leu	2	Expenditures	Appropriations	
Project Description:			11,839	496,000	484,161

Remove or abandon in place existing 4160 volt feeders currently suspended from the top slab of the Effluent Pump Station wet well, underneath the existing MCCs. Perform electrical design and replace the overhead 4160 volt feeders. Ensure coordination with 480 volt switch gear improvements.

	FY 22-23	FY 22-23	FY 23-24	Future Year	Project Total
Sanitation Replacement (100%)	Appropriations	Budget	Appropriations	Appropriations	
LV Share Amount (70.6%)	-	341,818	-	-	
TWSD Share Amount (29.4%)	-	142,343	-	-	
<b>Project Totals</b>	-	<b>484,161</b>	-	-	<b>496,000</b>

**Tapia Tertiary Filter Rehab-CIP10703**

	Project Manager	Priority	Project to Date	Project to Date	Carryforward
	Dingman/Hurtado	2	Expenditures	Appropriations	
Project Description:		Proposed	-	60,000	-

Tertiary Filters concrete rehabilitation. Approximately 25 locations that require a 1 square foot patching with rebar repair. Replace 45 metal plates (2' X 4') on the filter deck and fix concrete around the plates with proper joint sealer. Also include the repair of an electrical panel in the Filter gallery. Replace existing electric actuators at filter structure with new electric actuators. Program plant control system to function with both remote PLC control of actuators and local actuator control. Upgrade local controls to replace old filter annunciator panels which are currently located on the top deck of the filter structure.

	FY 22-23	FY 22-23	FY 23-24	Future Year	Project Total
Sanitation Replacement (100%)	Appropriations	Budget	Appropriations	Appropriations	
LV Share Amount (70.6%)	-	-	35,300	279,576	
TWSD Share Amount (29.4%)	-	-	14,700	116,424	
<b>Project Totals</b>	-	-	<b>50,000</b>	<b>396,000</b>	<b>446,000</b>

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Multi Site Security Assessment and Improvement JPA-CIP10724**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Nkwenji	2	-	90,420	90,420

Security Assessment of various District sites and facilities. This will include access controls and security camera installations and improvements.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	10,293	74,130	242,299	566,607	
TWSD Share Amount (29.4%)	4,287	30,870	100,901	235,953	
<b>Project Totals</b>	<b>14,580</b>	<b>105,000</b>	<b>343,200</b>	<b>802,560</b>	<b>1,250,760</b>

**Tapia Flow Equalization-CIP10737**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Leu/Slosser	1	-	350,000	350,000

This project consists of the development of a preliminary design report to evaluate the storage and conveyance of Tapia primary effluent to help store and equalize the diurnal peak flows that Tapia sees between dry and wet weather events. This maximizes effluent available for the AWT and also improves and provides consistent water quality for the feed water to the AWT.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	70,600	317,700	2,350,980	2,350,980	
TWSD Share Amount (29.4%)	29,400	132,300	979,020	979,020	
<b>Project Totals</b>	<b>100,000</b>	<b>450,000</b>	<b>3,330,000</b>	<b>3,330,000</b>	<b>7,110,000</b>

**Concrete Corrosion/Crack Repair-Tapia-CIP10741**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Triplet/Dingman Hurtado	1	-	132,000	50,000

Repair failing concrete at the Tapia Water Reclamation Facility.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	-	35,300	186,384	-	
TWSD Share Amount (29.4%)	-	14,700	77,616	-	
<b>Project Totals</b>	<b>-</b>	<b>50,000</b>	<b>264,000</b>	<b>-</b>	<b>314,000</b>

**Lift Station Improvements-CIP10742**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Korkosz/Acevedo	2	-	1,110,000	200,000

Repair and rehabilitate aging lift stations.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	-	141,200	658,274	-	
TWSD Share Amount (29.4%)	-	58,800	274,126	-	
<b>Project Totals</b>	<b>-</b>	<b>200,000</b>	<b>932,400</b>	<b>-</b>	<b>1,132,400</b>

**Fire Hardening- JPA Facilities FY2022-24-CIP10743**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Korkosz	2	-	528,000	264,000

Fire hardening strategy for JPA facilities includes preventive measures and protection systems for both internal and external sources of fire. Potential facility improvements include: 1) employing advanced detectors and utilizing a plant fire safety systems; and 2) evaluation and, if feasible, installation of a perimeter fire defense system. Fire Hardening also includes creating larger defensible space around critical structures and providing wider access roads and preventative improvements to facilities.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	-	186,384	186,384	-	
TWSD Share Amount (29.4%)	-	77,616	77,616	-	
<b>Project Totals</b>	<b>-</b>	<b>264,000</b>	<b>264,000</b>	<b>-</b>	<b>528,000</b>

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Discharge Point Rehab-CIP10745**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Hurtado	1	80,203	669,300	547,748

Evaluate and repair failed 003 Discharge point pipeline (into Malibu Creek). Contract for inspection, an engineering study and a design report to determine the most cost effective means to repair failed 24" potable water pipeline from the Tapia Water Reclamation Facility to Malibu Creek. The pipeline will be used to supply potable supplement to the Malibu Creek during low flow periods. Approximately one (1) mile of pipeline needs to be and preventative improvements to facilities.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	-	386,710	391,830	-	
TWSD Share Amount (29.4%)	-	161,038	163,170	-	
<b>Project Totals</b>	-	547,748	555,000	-	1,182,951

**Centrate Tank Inspection and Rehabilitation Assesment-CIP10748**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman	2	-	10,000	10,000

Tank inspections and recommendations for rehabilitation.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	86,132	93,192	-	-	
TWSD Share Amount (29.4%)	35,868	38,808	-	-	
<b>Project Totals</b>	122,000	132,000	-	-	132,000

**Lift Station No.1 Pump Replacement-CIP10750**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Triplett	2	-	396,000	-

Replacement of (3) pumps

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (100.0)	-	-	396,000	-	
TWSD Share Amount (0)	-	-	-	-	
<b>Project Totals</b>	-	-	396,000	-	396,000

**Tapia Sludge Wet Well Re-Circulation-CIP10752**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Triplett	2	-	62,800	-

The re-circulation (mixing) piping at the Tapia sludge wet wells is corroded and develops leaks. This project replaces this piping.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	-	-	35,300	93,192	
TWSD Share Amount (29.4%)	-	-	14,700	38,808	
<b>Project Totals</b>	-	-	50,000	132,000	182,000

**Tapia Air Line Repair-CIP10753**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Acevedo	1	-	50,000	50,000

The air line which conveys compressed air to the treatment process has leaks which not only allow air to escape, but also allow contaminants to enter into the pipeline and potentially the air diffusers. A large portion of this line was repaired, however a section of the pipeline was not addressed. This section needs to be addressed to stop leakage and protect the diffuser membranes.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
<b>Sanitation Replacement (100%)</b>					
LV Share Amount (70.6%)	197,680	232,980	-	-	
TWSD Share Amount (29.4%)	82,320	97,020	-	-	
<b>Project Totals</b>	280,000	330,000	-	-	330,000

### Capital Improvement Project Detail Fiscal Years 2022-24

#### Trunk Sewer System Improvements-CIP10756

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Korkosz/Slosser	3	-	1,110,000	501,600

Replace or rehabilitate trunk sewer system components based on CCTV, condition assessment & SSMP, end of useful life, or obsolescence. Specific projects are identified for each fiscal year.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	-	354,130	354,130	-	
TWSD Share Amount (29.4%)	-	147,470	147,470	-	
Project Totals	-	501,600	501,600	-	1,003,200

#### Tapia Secondary Clarifier Rehabilitation-CIP10794

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Leu	1	-	-	-

Repair the secondary clarifiers. The current launders are leaking and need to have the wall seal repaired. Replacement on the inlet diffusers and skimming tubes is also necessary as they are corroded and leaking. Recaulking the expansion joints and structural repairs to catwalks are needed as they are separating from the wall.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	597,982	597,982	-	-	
TWSD Share Amount (29.4%)	249,018	249,018	-	-	
Project Totals	847,000	847,000	-	-	847,000

#### Tapia Effluent Pump Station Rehabilitation-CIP10795

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Leu	3	-	-	-

Increase reliability and safety of electrical feed as well as upgrade motor starting capabilities and pumps.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	-	-	3,898,885	-	
TWSD Share Amount (29.4%)	-	-	1,623,615	-	
Project Totals	-	-	5,522,500	-	5,522,500

#### Tapia Control Building Improvements-CIP10796

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Korkosz	2	-	-	-

The control building at Tapia is aging and in need of significant repairs, remodeling, and other improvements.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	-	-	594,014	-	
TWSD Share Amount (29.4%)	-	-	247,366	-	
Project Totals	-	-	841,380	-	841,380

#### JPA Condition Assessment and Rehabilitation Planning-CIP10797

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Korkosz/Leu	1	-	-	-

Hire engineering firm to assess all electrical systems and make recommendations on necessary rehab or replacement of switch gear, VFD's transformers, switching, etc.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	70,600	70,600	-	-	
TWSD Share Amount (29.4%)	29,400	29,400	-	-	
Project Totals	100,000	100,000	-	-	100,000

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Centrifuge Controls Upgrade-CIP10798**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Korkosz	1	-	-	-

With the summertime compliance project being constructed next year, the 001 out fall meter will be removed. Additionally, the Tapia groundwater meter has aged out and the 003 meter needs to be replaced. These meters are regulatory required. This project replaces the 001, 003 and the Tapia groundwater effluent meters.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	111,830	111,830	-	-	
TWSD Share Amount (29.4%)	46,570	46,570	-	-	
Project Totals	158,400	158,400	-	-	158,400

**Rancho Reliability Improvements FY22-24-CIP10799**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Rabaja	2	-	-	-

Replace or rehabilitate facilities and equipment at the Rancho facility based on failure, beyond useful life, or obsolescence. Specific projects are identified for each fiscal year.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	93,192	93,192	93,192	-	
TWSD Share Amount (29.4%)	38,808	38,808	38,808	-	
Project Totals	132,000	132,000	132,000	-	264,000

**Tapia Water Reclamation Facility Improvements FY22-24-CIP10800**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Bril	2	-	-	-

Replace or rehabilitate facilities and equipment at the Rancho facility based on failure, beyond useful life, or obsolescence. Specific projects are identified for each fiscal year.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	93,192	93,192	93,192	-	
TWSD Share Amount (29.4%)	38,808	38,808	38,808	-	
Project Totals	132,000	132,000	132,000	-	264,000

**Tapia Aluminum Sulfate Tank Replacement-CIP10801**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Korkosz	1	-	-	-

Replace aging sodium bisulfite tank that is leaking. Project includes feed pump and delivery pipeline.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	576,096	576,096	279,576	-	
TWSD Share Amount (29.4%)	239,904	239,904	116,424	-	
Project Totals	816,000	816,000	396,000	-	1,212,000

**Rancho Control Building HVAC Replacement-CIP10802**

	Project Manager	Priority	Project to Date Expenditures	Project to Date Appropriations	Carryforward
Project Description:	Dingman/Korkosz	2	-	-	-

Replace HVAC at Rancho Control Building. HVAC has reached end of useful life and is not feasible to replace existing unit.

	FY 22-23 Appropriations	FY 22-23 Budget	FY 23-24 Appropriations	Future Year Appropriations	Project Total
Sanitation Replacement (100%)					
LV Share Amount (70.6%)	232,980	232,980	-	-	
TWSD Share Amount (29.4%)	97,020	97,020	-	-	
Project Totals	330,000	330,000	-	-	330,000

**Capital Improvement Project Detail Fiscal Years 2022-24**

<b>Malibou Lake Siphon Project-CIP10803</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Korkosz/Leu	1		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:						
Repair Malibou Lake Siphon to address inflow and infiltration at the site.						
		<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
<b>Sanitation Replacement (100%)</b>		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	LV Share Amount (70.6%)	943,922	943,922	-	-	
	TWSD Share Amount (29.4%)	393,078	393,078	-	-	
	<b>Project Totals</b>	<b>1,337,000</b>	<b>1,337,000</b>	<b>-</b>	<b>-</b>	<b>1,337,000</b>

<b>Rancho Las Virgenes - New Flare-CIP10804</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	DingmanZhao	1		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:						
Design and install a new larger flare that can handle all of the digester gas flow (over 100 scfm). The current flare, which has a limited capacity of 75 scfm will remain in place to provide redundancy. The current flare does not have the capacity to dispose of all of the digester gas.						
		<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
<b>Sanitation Replacement (100%)</b>		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	LV Share Amount (70.6%)	105,900	105,900	391,830	-	
	TWSD Share Amount (29.4%)	44,100	44,100	163,170	-	
	<b>Project Totals</b>	<b>150,000</b>	<b>150,000</b>	<b>555,000</b>	<b>-</b>	<b>705,000</b>

<b>Grit Chamber Mixing System Replacement-CIP10805</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Dingman/Leu	3		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:						
Replace grit chamber mixing system with a more efficient mixing system.						
		<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
<b>Sanitation Replacement (100%)</b>		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	LV Share Amount (70.6%)	-	-	139,788	-	
	TWSD Share Amount (29.4%)	-	-	58,212	-	
	<b>Project Totals</b>	<b>-</b>	<b>-</b>	<b>198,000</b>	<b>-</b>	<b>198,000</b>

<b>Rancho: Replace Agitators-CIP10806</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Dingman	3		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:						
Purchase new compost agitators to replace the existing ones.						
		<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
<b>Sanitation Replacement (100%)</b>		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	LV Share Amount (70.6%)	920,801	920,801	-	-	
	TWSD Share Amount (29.4%)	383,450	383,450	-	-	
	<b>Project Totals</b>	<b>1,304,250</b>	<b>1,304,250</b>	<b>-</b>	<b>-</b>	<b>1,304,250</b>

<b>Rancho Las Virgenes SCADA Improvements-CIP10807</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	
	Nkwenji	2		<b>Expenditures</b>	<b>Appropriations</b>	<b>Carryforward</b>
Project Description:						
Upgrade Process Control and Instrumentation System (PCIS) at Rancho. Rancho's PLC and HMI systems are inconsistent with current District Standards for Operational Technology.						
		<b>FY 22-23</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>Future Year</b>	
<b>Sanitation Replacement (100%)</b>		<b>Appropriations</b>	<b>Budget</b>	<b>Appropriations</b>	<b>Appropriations</b>	<b>Project Total</b>
	LV Share Amount (70.6%)	603,630	603,630	186,384	-	
	TWSD Share Amount (29.4%)	251,370	251,370	77,616	-	
	<b>Project Totals</b>	<b>855,000</b>	<b>855,000</b>	<b>264,000</b>	<b>-</b>	<b>1,119,000</b>

**Sanitation Summary**

	<b>Carryforward</b>	<b>FY 22-23</b>	<b>FY 23-24</b>	<b>FY 22-23</b>
		<b>Appropriations</b>	<b>Appropriations</b>	<b>Budget</b>
LV Share Amount (70.6%)	8,247,544	4,714,830	20,445,003	12,962,374
TWSD Share Amount (29.4%)	3,434,529	1,963,400	8,349,017	5,397,929
<b>Project Totals</b>	<b>11,682,073</b>	<b>6,678,230</b>	<b>28,794,020</b>	<b>18,360,303</b>

**Recycled Water**

<b>Calabasas Park Recycled Water Main Extension-CIP10666</b>						
	<b>Project Manager</b>	<b>Priority</b>		<b>Project to Date</b>	<b>Project to Date</b>	

**Capital Improvement Project Detail Fiscal Years 2022-24**

Leu	2	Expenditures	Appropriations	Carryforward
		-	-	-

Project Description:

Install approximately 1,200 linear feet of 6-8 inch pipeline to loop the existing recycled water system.

	FY 22-23	FY 22-23	FY 23-24	Future Year	
Recycled Water Replacement Fund	Appropriations	Budget	Appropriations	Appropriations	Project Total
LV Share Amount (100%)	463,000	463,000	577,200	-	
<b>Project Totals</b>	<b>463,000</b>	<b>463,000</b>	<b>577,200</b>	<b>-</b>	<b>1,040,200</b>

**Recycled Water Pump Station Battery Energy Storage System (BESS)-CIP10793**

Project Manager	Priority	Project to Date	Project to Date	Carryforward
Zhao	1	Expenditures	Appropriations	
		-	-	-

Project Description:

Rehabilitation of Cordillera Tank including interior and exterior coating, valve and appurtenance upgrades and replacements, restoration of deteriorated asphalt, and work to ensure up-to-date compliance for safety and water quality equipment.

	FY 22-23	FY 22-23	FY 23-24	Future Year	
Recycled Water Conservation Fund	Appropriations	Budget	Appropriations	Appropriations	Project Total
LV Share Amount (70.6%)	975,657	975,657	-	-	
TWSD Share Amount (29.4%)	406,293	406,293	-	-	
<b>Project Totals</b>	<b>1,381,950</b>	<b>1,381,950</b>	<b>-</b>	<b>-</b>	<b>1,381,950</b>
<b>Project Offset</b>		<b>(1,170,000)</b>			<b>(1,170,000)</b>
				Net Project	211,950

**Recycled Water Summary**

	Carryforward	FY 22-23	FY 23-24
		Appropriations	Appropriations
LV Share Amount (70.6%)	-	1,438,657	577,200
TWSD Share Amount (29.4%)	-	406,293	-
	-	1,844,950	577,200
<b>Project Offsets</b>		<b>(1,170,000)</b>	<b>-</b>
<b>Net Appropriation</b>		<b>674,950</b>	<b>577,200</b>

**Capital Improvement Project Detail Fiscal Years 2022-24**

**Potable Water Summary**

		<b>FY 22-23</b>	<b>FY 23-24</b>
	<b>Carryforward</b>	<b>Appropriations</b>	<b>Appropriations</b>
PW Construction	508,750	743,499	246,420
PW Replacement	12,787,418	7,836,292	8,443,707
<b>Total Potable Water</b>	<b>13,296,168</b>	<b>8,579,791</b>	<b>8,690,127</b>
		<b>(4,201,602)</b>	
		<b>17,674,357</b>	

**Recycled Water Summary**

		<b>FY 22-23</b>	<b>FY 23-24</b>
	<b>Carryforward</b>	<b>Appropriations</b>	<b>Appropriations</b>
LV Share Amount (70.6%)	-	1,438,657	577,200
TWSD Share Amount (29.4%)	-	406,293	-
	-	1,844,950	577,200
		<b>(1,170,000)</b>	
		<b>674,950</b>	

**Santitation Summary**

		<b>FY 22-23</b>	<b>FY 23-24</b>
	<b>Carryforward</b>	<b>Appropriations</b>	<b>Appropriations</b>
LV Share Amount (70.6%)	8,247,544	4,714,830	20,445,003
TWSD Share Amount (29.4%)	3,434,529	1,963,400	8,349,017
	11,682,073	6,678,230	28,794,020

**Grand Total**

		<b>FY 22-23</b>	<b>FY 23-24</b>
	<b>Carryforward</b>	<b>Appropriations</b>	<b>Appropriations</b>
LV Share Amount (70.6%)	21,543,712	14,733,278	29,712,330
TWSD Share Amount (29.4%)	16,221,947	10,205,985	8,349,017
	37,765,659	24,939,263	38,061,347
		<b>62,704,922</b>	
		36,276,990	
		26,427,932	





**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Engineering and External Affairs

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**SUBJECT: 2022 Las Virgenes Reservoir (Westlake) Dam Settlement Report**

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**SUMMARY:**

As part of the District's on-going surveillance monitoring program for Las Virgenes Reservoir (Westlake) Dam, the annual survey for the dam has been completed and a report summarizing the results is being submitted for the Board to receive and file. The report identifies no significant variances in measurements due to shifting or settlement as compared to the previous year's surveys. The report incorporates data from 2022 and has been reviewed by the California Department of Water Resources, Division of Safety of Dams (DSOD).

**RECOMMENDATION(S):**

Receive and file the 2022 Las Virgenes Reservoir (Westlake) Dam Settlement Report.

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

There is no financial impact associated with this action.

**DISCUSSION:**

The District has conducted settlement surveys at the Las Virgenes Reservoir (Westlake) Dam since its construction in 1972. On January 27, 2022, Benner and Carpenter Land Surveyors completed this year's survey to assess potential settlement of the dam and spillway. The attached 2022 Las Virgenes Reservoir (Westlake) Dam Settlement Report (see Attachment 1) was prepared to summarize and document the results of the survey.

Previous surveys were performed by Benner and Carpenter Land Surveyors, and Peak Surveys, Inc. with consistent results between both surveyors. This report addresses the movement of monuments located on the crest of the dam and along the spillway. Additionally,

seepage flow, rainfall amounts and reservoir level measurements were analyzed in the report using a format recommended by DSOD. The report takes into consideration seepage measurements from the District's automated monitoring facilities and manual reads taken by District staff.

DSOD has requested that seepage flow, reservoir level and horizontal (shifting) and vertical (settlement) movement of monuments located on the crest of Las Virgenes Reservoir (Westlake) Dam be monitored and reported. The California Water Code authorizes DSOD to issue rules and regulations to safeguard life and property regarding dams. In addition to reviewing the annual settlement report (see Attachment 2), DSOD provides periodic maintenance inspections (see Attachment 3).

In the event of an earthquake of magnitude 5.0 or greater in the vicinity of the dam, the District is required to perform additional surveys. DSOD has developed an automated alert system that will notify dam owners of the need for facility inspections following an earthquake or when other criteria related to the strength of the dam are met. There have been no earthquakes of magnitude 5.0 or greater within the vicinity of the dam since last year's survey was performed on February 1, 2021. Additionally, an automated seepage monitoring system connects to the District's supervisory control and data acquisition (SCADA) system and monitors seepage from the dam. In the event of larger than normal amounts of seepage, SCADA will send an alarm to District staff. Above normal seepage, which has not occurred, could be an early indicator of a problem with the dam.

#### Historical Information:

In 2019, staff inspected Las Virgenes Reservoir's spillway for signs of deterioration due to alkali-silica reaction (ASR). ASR is a swelling reaction that occurs over time in concrete between highly alkaline cement paste and the non-crystalline silica found in many common aggregates if sufficient moisture is present. The condition causes internal expansive pressure, leading to loss of strength, cracking and eventual concrete failure. No significant cracks within the spillway were found. Cracks were repaired and deemed to be common wear and tear. The repairs were also reported to the State Water Resources Control Board, Division of Drinking Water.

In 2021, a new survey monument was added near the spillway for future monitoring, so there are two data points for the C-2 location. Surveying was updated from traditional surveying techniques to more modern techniques. All future surveys will use modern surveying technology.

#### **GOALS:**

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

Prepared by: Veronica Hurtado, Assistant Engineer

#### **ATTACHMENTS:**

[Attachment 1](#)  
[Attachment 2](#)



## **2022 Las Virgenes Dam Settlement Report**

On January 27<sup>th</sup>, 2022 Las Virgenes Municipal Water District (District) had Benner and Carpenter Land Surveyors (Benner and Carpenter) perform a settlement survey of the earthen dams around the Las Virgenes Reservoir located in the City of Westlake Village, Los Angeles County, California. The previous annual settlement survey was performed on January 26<sup>th</sup> and February 1<sup>st</sup>, 2021 by Benner and Carpenter.

The Division of Safety of Dams (DSOD), a section of the California Department of Water Resources, requests that the horizontal and vertical movement of monuments located on the crest of the dam, seepage flows and reservoir levels be monitored. The California Water Code authorizes the DSOD to issue rules and regulations to safeguard life and property. In the case of an earthquake magnitude 5.0 or greater in the immediate vicinity of the dam, the District will perform additional surveys.

The District has been conducting settlement surveys since May of 1972. The annual survey is performed by measuring the vertical and horizontal movements of fifteen monuments on the crest of the dam (Attachment A-1). The results of these measurements are compared with results from previous surveys, particularly the previous year's results. Large deviations (1 inch or greater) in the horizontal or vertical position of the monuments since the last survey warrant further investigation. There were no movements of the monuments, 1 inch or greater, between the 2021 and 2022 surveys. A table summarizing the survey data and net movements of the monuments is presented as attachment A-2.

Historical survey monument measurements are presented in tabular and graphical format (Attachment A-3). These tables show the initial readings from 1972, but do not show the readings from 1973 to 1991 for conciseness. Survey results from 1992 to 2022 are presented in the tables. No survey of the monuments were conducted in 2018. Monument C-2 was added in 2021, which provides two data points at this time. The trending of the monument movements is shown graphically. The graphs do not show any significant vertical or horizontal movements that would require further investigation. In the case of an earthquake of magnitude 5.0 or greater in the vicinity of the dam, the District is required to perform additional surveys. There have been no earthquakes of magnitude 5.0 or greater within the vicinity of the dam since the last survey performed on February 1<sup>st</sup>, 2021.

In addition to the surveying of monuments, seepage from the four drains at the dam (Saddle, Perch, Main, and Easterly) is measured weekly. Significant variations in the rate of seepage that do not correspond to rainfall would require further investigation. Seepage flows can be measured manually using a container and timer to calculate the flow rate. Facilities were also constructed in 2009 to automatically measure seepage from the dam continuously. Based on recommendations from DSOD, seepage flows were measured using both the manual method and automatic system. Automated seepage measurements are connected to the SCADA system and a high seepage flow alarm will be triggered if the

flow exceeds the highest historical seepage flow rate on record for each of the four seepage drains.

Since the last survey there have been no unexpected increases in seepage flow and any elevated seepage rate is consistent with seepage rates observed in past years during similar rainfall events.

Additionally, as a part of this report, Benner and Carpenter measured distances from the inside face of the spillway to a previously established baseline. These measurements have been taken since 1991 and are presented in tabular format. The concrete in the spillway has been undergoing an alkali-silica reaction (ASR) causing minor deterioration. The ASR has resulted in “map” type cracking throughout the structure and caused minimal horizontal displacement. Tabular data analysis shows that there were no significant cumulative movements in the sections of the spillway between the 2021 and 2022 measurements.

Sixteen graphs are attached which compare reservoir levels and seepage with rainfall and monument displacement:

- The first fifteen graphs (Attachment A-5) show the rise of the reservoir elevation during the winter “fill” period and then its decline during the summer “use” period. The multi-colored lines underneath the reservoir elevation represent the seepage rates at the Easterly, Perch, Main, and Saddle drains. The line graph in the middle of the page shows the cumulative displacement of the survey monuments over time. The monument displacement readings are taken annually. The bar graph on the bottom represents rainfall (cumulatively recorded weekly). This graphical presentation shows the general correlation between rainfall and seepage rates. These graphs are approximately aligned on the X-axis, so some minor offset in data may exist.
- The last graph (Attachment A-6) shows the trends in seepage flow (in gallons per minute) of the Saddle, Perch, Main, and Easterly drains and precipitation for the same time period. Seepage patterns remain consistent throughout the years except in the case of a significant rain event. Effects of significant rain can be seen on the graph at various times where there are corresponding spikes of seepage. If there are spikes of seepage that do not correspond to rain events, further investigation would be necessary. The 2017-2020 rainfall and seepage is consistent with past years, and spikes in seepage correspond to rain events so no further investigation is necessary. These graphs are approximately aligned on the X-axis, so some minor offset in data may exist.

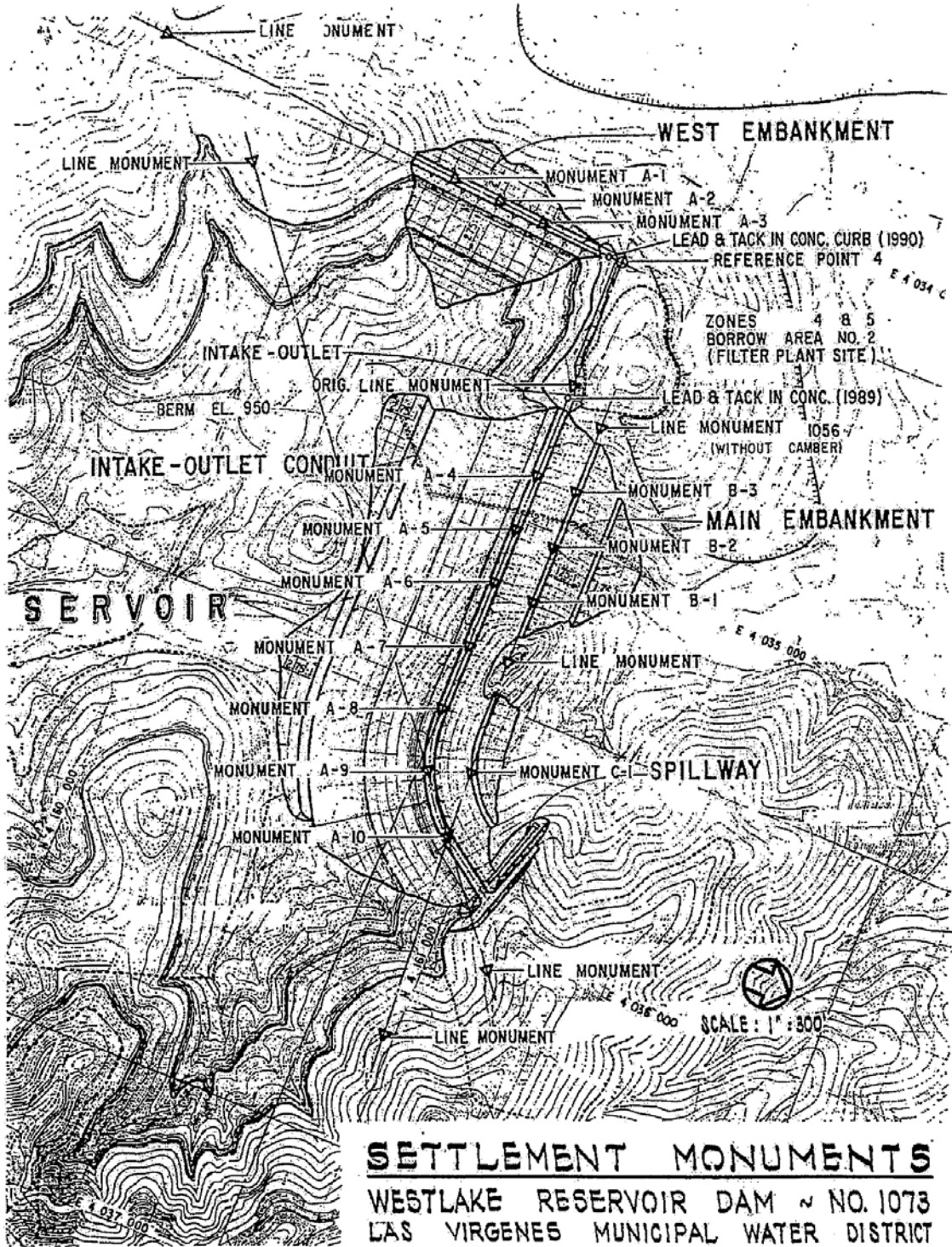
The next settlement survey should be conducted in January of 2023, unless a seismic event above magnitude 5.0 occurs in the vicinity of the dam which would require a survey as soon as possible.

This report will be forwarded to the City of Westlake Village and the Department of Water Resources, Division of Safety of Dams.

Attachments:

- A-1 Las Virgenes Dam Monument Plan
- A-2 Summary Table of Las Virgenes Dam Vertical and Horizontal Surveys
- A-3 Settlement and Horizontal Movement Data for Each Monument (15 pages of Tabular and Graphical Data)
- A-4 Summary Table of Las Virgenes Dam Spillway Measurements
- A-5 Graphs 1-15: Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement, and Rainfall
- A-6 Graph 16: Las Virgenes Reservoir: Easterly, Perch, Main, and Saddle Drains Seepage
- A-7 Benner and Carpenter, Civil Engineers and Land Surveyors: Survey data and notes
- A-8 Shake Maps California Earthquake Archive for 2021

# A-1—LAS VIRGENES DAM MONUMENT PLAN



**SETTLEMENT MONUMENTS**  
**WESTLAKE RESERVOIR DAM ~ NO. 1073**  
**LAS VIRGENES MUNICIPAL WATER DISTRICT**

## A-2 Summary Table of Las Virgenes Dam Vertical and Horizontal Surveys

### LAS VIRGENES DAM VERTICAL SURVEY

Monument	Measurement Dates		Net Movement	
	2/1/2021	1/27/2022	[feet]	[inches]
A-1	1056.23	1056.22	-0.01	-0.16
A-2	1056.52	1056.51	-0.01	-0.11
A-3	1056.50	1056.49	0.00	-0.05
A-4	1057.69	1057.69	0.00	0.00
A-5	1058.42	1058.41	-0.01	-0.16
A-6	1058.34	1058.32	-0.02	-0.28
A-7	1057.74	1057.71	-0.03	-0.34
A-8	1057.59	1057.57	-0.02	-0.25
A-9	1057.59	1057.57	-0.02	-0.19
A-10	1057.16	1057.15	-0.01	-0.11
B-1	1010.28	1010.26	-0.02	-0.25
B-2	1009.95	1009.93	-0.02	-0.22
B-3	1010.13	1010.11	-0.02	-0.19
C-1	1010.885	1010.872	-0.01	-0.16
C-2	1035.224	1035.222	0.00	-0.02

**Maximum Vertical Deflection :                    -0.34 inches**

### LAS VIRGENES DAM HORIZONTAL SURVEY

Monument	Measurement Dates		Net Movement	
	2/1/2021	1/27/2022	[feet]	[inches]
A-1	0.08	0.11	0.03	0.36
A-2	0.08	0.10	0.02	0.24
A-3	0.03	0.04	0.01	0.12
A-4	0.06	0.05	-0.01	-0.12
A-5	0.04	0.03	-0.01	-0.12
A-6	0.01	0.01	0.00	0.00
A-7	0.03	0.02	-0.01	-0.12
A-8	0.01	0.02	0.01	0.12
A-9	0.03	0.03	0.00	0.00
A-10	0.05	0.07	0.02	0.24
B-1	0.06	0.05	-0.01	-0.12
B-2	0.14	0.14	0.00	0.00
B-3	0.11	0.12	0.01	0.12
C-1	0.03	0.03	0.00	0.00
C-2	0.00	0.01	0.01	0.12

**Maximum Horizontal Deflection :                    0.36 inches**



# A-3 SETTLEMENT & HORIZONTAL MOVEMENT DATA

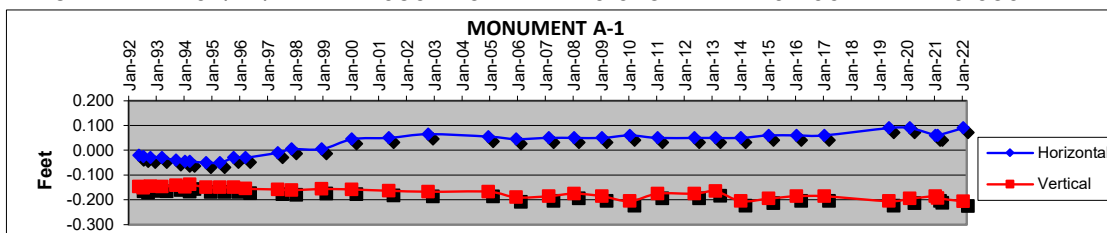
## LAS VIRGENES MUNICIPAL WATER DISTRICT

### LAS VIRGENES RESERVOIR

#### SETTLEMENT AND HORIZONTAL MOVEMENT RECORD

## MONUMENT A-1

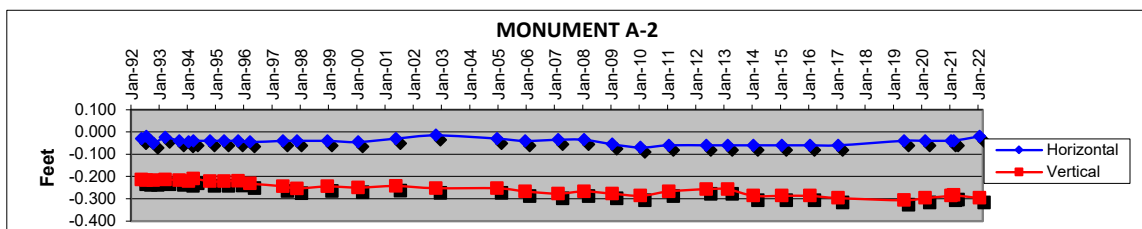
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1	05/01/72	1056.425	0.000	0.000	0.000	0.000
48	05/01/92	1056.278	0.005	-0.147	0.005	-0.020
49	07/01/92	1056.273	-0.005	-0.152	-0.005	-0.025
50	10/14/92	1056.279	0.006	-0.146	-0.005	-0.030
51	03/30/93	1056.278	-0.001	-0.147	0.000	-0.030
52	09/30/93	1056.283	0.005	-0.142	-0.010	-0.040
53	01/21/94	1056.277	-0.006	-0.148	-0.005	-0.045
54	03/24/94	1056.287	0.010	-0.138	0.000	-0.045
55	10/11/94	1056.276	-0.011	-0.149	-0.005	-0.050
56	04/06/95	1056.275	-0.001	-0.150	0.000	-0.050
57	10/19/95	1056.275	0.000	-0.150	0.020	-0.030
58	03/28/96	1056.270	-0.005	-0.155	0.000	-0.030
59	05/02/97	1056.267	-0.003	-0.158	0.020	-0.010
60	11/21/97	1056.264	-0.003	-0.161	0.015	0.005
61	12/17/98	1056.269	0.005	-0.156	0.000	0.005
62	01/06/00	1056.267	-0.002	-0.158	0.040	0.045
63	05/14/01	1056.262	-0.005	-0.163	0.005	0.050
64	10/30/02	1056.258	-0.004	-0.167	0.015	0.065
65	12/16/04	1056.258	0.000	-0.167	-0.010	0.055
66	12/09/05	1056.235	-0.023	-0.190	-0.010	0.045
67	02/21/07	1056.240	0.005	-0.185	0.005	0.050
68	01/24/08	1056.250	0.010	-0.175	0.000	0.050
69	01/29/09	1056.240	-0.010	-0.185	0.000	0.050
70	01/28/10	1056.220	-0.020	-0.205	0.010	0.060
71	01/18/11	1056.250	0.030	-0.175	-0.010	0.050
72	05/01/12	1056.250	0.000	-0.175	0.000	0.050
73	02/13/13	1056.260	0.010	-0.165	0.000	0.050
74	01/16/14	1056.220	-0.040	-0.205	0.000	0.050
75	01/07/15	1056.230	0.010	-0.195	0.010	0.060
76	01/08/16	1056.240	0.010	-0.185	0.000	0.060
77	01/09/17	1056.240	0.000	-0.185	0.000	0.060
78	05/21/19	1056.220	-0.020	-0.205	0.030	0.090
79	02/12/20	1056.230	0.010	-0.195	0.000	0.090
80	01/26/21	1056.240	0.010	-0.185	-0.030	0.060
81	02/01/21	1056.232	-0.008	-0.193	0.000	0.060
82	01/27/22	1056.219	-0.013	-0.206	0.030	0.090



**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**LAS VIRGENES RESERVOIR**  
**SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

## MONUMENT A-2

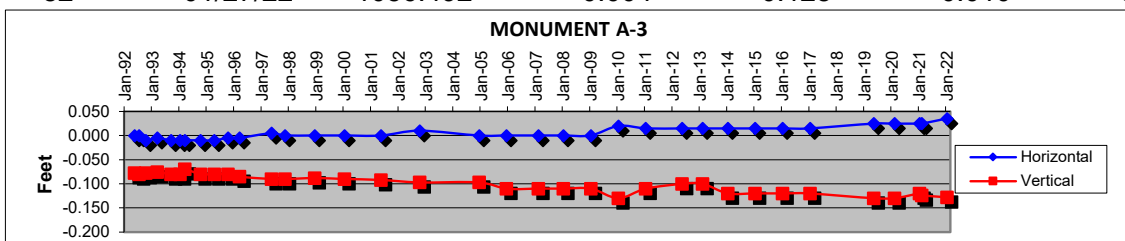
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48	05/01/92	1056.593	0.009	-0.214	0.010	-0.030
49	07/01/92	1056.589	-0.004	-0.218	0.010	-0.020
50	10/14/92	1056.589	0.000	-0.218	-0.030	-0.050
51	03/30/93	1056.593	0.004	-0.214	0.025	-0.025
52	09/30/93	1056.590	-0.003	-0.217	-0.015	-0.040
53	01/21/94	1056.585	-0.005	-0.222	-0.005	-0.045
54	03/24/94	1056.597	0.012	-0.210	0.005	-0.040
55	10/11/94	1056.585	-0.012	-0.222	0.000	-0.040
56	04/06/95	1056.585	0.000	-0.222	0.000	-0.040
57	10/19/95	1056.587	0.002	-0.220	0.000	-0.040
58	03/28/96	1056.575	-0.012	-0.232	-0.005	-0.045
59	05/02/97	1056.563	-0.012	-0.244	0.005	-0.040
60	11/21/97	1056.553	-0.010	-0.254	0.000	-0.040
61	12/17/98	1056.562	0.009	-0.245	0.000	-0.040
62	01/06/00	1056.557	-0.005	-0.250	-0.005	-0.045
63	05/14/01	1056.564	0.007	-0.243	0.015	-0.030
64	10/30/02	1056.554	-0.010	-0.253	0.015	-0.015
65	12/16/04	1056.554	0.000	-0.253	-0.015	-0.030
66	12/09/05	1056.540	-0.014	-0.267	-0.010	-0.040
67	02/21/07	1056.530	-0.010	-0.277	0.005	-0.035
68	01/24/08	1056.540	0.010	-0.267	0.000	-0.035
69	01/29/09	1056.530	-0.010	-0.277	-0.020	-0.055
70	01/28/10	1056.520	-0.010	-0.287	-0.015	-0.070
71	01/18/11	1056.540	0.020	-0.267	0.010	-0.060
72	05/01/12	1056.550	0.010	-0.257	0.000	-0.060
73	02/13/13	1056.550	0.000	-0.257	0.000	-0.060
74	01/16/14	1056.520	-0.030	-0.287	0.000	-0.060
75	01/07/15	1056.520	0.000	-0.287	0.000	-0.060
76	01/08/16	1056.520	0.000	-0.287	0.000	-0.060
77	01/09/17	1056.510	-0.010	-0.297	0.000	-0.060
78	05/21/19	1056.500	-0.010	-0.307	0.020	-0.040
79	02/12/20	1056.510	0.010	-0.297	0.000	-0.040
80	01/26/21	1056.520	0.010	-0.287	0.000	-0.040
81	02/01/21	1056.523	0.003	-0.284	0.000	-0.040
82	01/27/22	1056.510	-0.013	-0.297	0.020	-0.020



**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**LAS VIRGENES RESERVOIR**  
**SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-3**

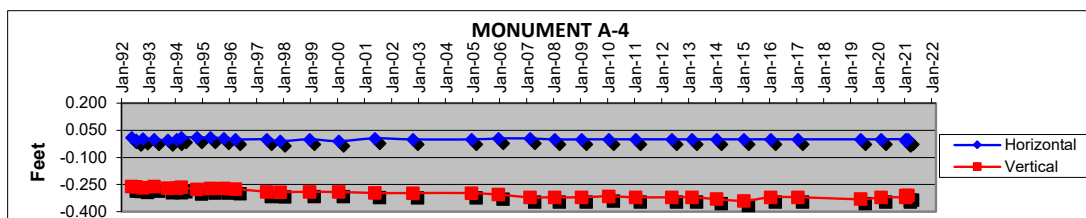
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48	05/01/92	1056.542	0.004	-0.078	0.000	0.000
49	07/01/92	1056.540	-0.002	-0.080	0.000	0.000
50	10/14/92	1056.542	0.002	-0.078	-0.010	-0.010
51	03/30/93	1056.544	0.002	-0.076	0.005	-0.005
52	09/30/93	1056.540	-0.004	-0.080	-0.005	-0.010
53	01/21/94	1056.540	0.000	-0.080	0.000	-0.010
54	03/24/94	1056.550	0.010	-0.070	0.000	-0.010
55	10/11/94	1056.540	-0.010	-0.080	0.000	-0.010
56	04/06/95	1056.540	0.000	-0.080	0.000	-0.010
57	10/19/95	1056.540	0.000	-0.080	0.005	-0.005
58	03/28/96	1056.535	-0.005	-0.085	0.000	-0.005
59	05/02/97	1056.530	-0.005	-0.090	0.010	0.005
60	11/21/97	1056.530	0.000	-0.090	-0.005	0.000
61	12/17/98	1056.532	0.002	-0.088	0.000	0.000
62	01/06/00	1056.530	-0.002	-0.090	0.000	0.000
63	05/14/01	1056.528	-0.002	-0.092	0.000	0.000
64	10/30/02	1056.523	-0.005	-0.097	0.010	0.010
65	12/16/04	1056.523	0.000	-0.097	-0.010	0.000
66	12/09/05	1056.510	-0.013	-0.110	0.000	0.000
67	02/21/07	1056.510	0.000	-0.110	0.000	0.000
68	01/24/08	1056.510	0.000	-0.110	0.000	0.000
69	01/29/09	1056.510	0.000	-0.110	0.000	0.000
70	01/28/10	1056.490	-0.020	-0.130	0.020	0.020
71	01/18/11	1056.510	0.020	-0.110	-0.005	0.015
72	05/01/12	1056.520	0.010	-0.100	0.000	0.015
73	02/13/13	1056.520	0.000	-0.100	0.000	0.015
74	01/16/14	1056.500	-0.020	-0.120	0.000	0.015
75	01/07/15	1056.500	0.000	-0.120	0.000	0.015
76	01/08/16	1056.500	0.000	-0.120	0.000	0.015
77	01/09/17	1056.500	0.000	-0.120	0.000	0.015
78	05/21/19	1056.490	-0.010	-0.130	0.010	0.025
79	02/12/20	1056.490	0.000	-0.130	0.000	0.025
80	01/26/21	1056.500	0.010	-0.120	0.000	0.025
81	02/01/21	1056.496	-0.004	-0.124	0.000	0.025
82	01/27/22	1056.492	-0.004	-0.128	0.010	0.035



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
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**MONUMENT A-4**

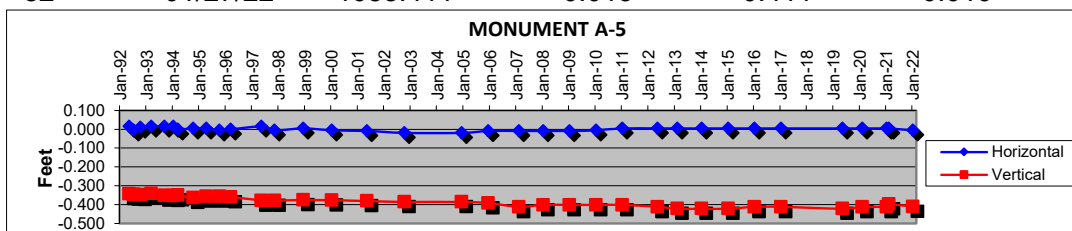
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		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1058.000	0.000	0.000	0.000	0.000
48	05/01/92	1057.739	0.002	-0.261	0.005	0.010
49	07/01/92	1057.738	-0.001	-0.262	-0.015	-0.005
50	10/14/92	1057.732	-0.006	-0.268	0.007	0.002
51	03/30/93	1057.740	0.008	-0.260	-0.002	0.000
52	09/30/93	1057.730	-0.010	-0.270	-0.005	-0.005
53	01/21/94	1057.731	0.001	-0.269	0.005	0.000
54	03/24/94	1057.736	0.005	-0.264	0.010	0.010
55	10/11/94	1057.723	-0.013	-0.277	0.000	0.010
56	04/06/95	1057.728	0.005	-0.272	0.000	0.010
57	10/19/95	1057.728	0.000	-0.272	-0.005	0.005
58	03/28/96	1057.726	-0.002	-0.274	-0.005	0.000
59	05/02/97	1057.710	-0.016	-0.290	0.000	0.000
60	11/21/97	1057.708	-0.002	-0.292	-0.010	-0.010
61	12/17/98	1057.710	0.002	-0.290	0.010	0.000
62	01/06/00	1057.709	-0.001	-0.291	-0.010	-0.010
63	05/14/01	1057.704	-0.005	-0.296	0.015	0.005
64	10/30/02	1057.703	-0.001	-0.297	-0.005	0.000
65	12/16/04	1057.703	0.000	-0.297	0.000	0.000
66	12/09/05	1057.695	-0.008	-0.305	0.005	0.005
67	02/21/07	1057.680	-0.015	-0.320	0.000	0.005
68	01/24/08	1057.680	0.000	-0.320	-0.005	0.000
69	01/29/09	1057.680	0.000	-0.320	0.000	0.000
70	01/28/10	1057.685	0.005	-0.315	0.000	0.000
71	01/18/11	1057.680	-0.005	-0.320	0.000	0.000
72	05/01/12	1057.680	0.000	-0.320	0.000	0.000
73	02/13/13	1057.680	0.000	-0.320	0.000	0.000
74	01/16/14	1057.670	-0.010	-0.330	0.000	0.000
75	01/07/15	1057.660	-0.010	-0.340	0.000	0.000
76	01/08/16	1057.680	0.020	-0.320	0.000	0.000
77	01/09/17	1057.680	0.000	-0.320	0.000	0.000
78	05/21/19	1057.670	-0.010	-0.330	0.000	0.000
79	02/12/20	1057.680	0.010	-0.320	0.000	0.000
80	01/26/21	1057.680	0.000	-0.320	0.000	0.000
81	02/01/21	1057.690	0.010	-0.310	0.000	0.000
82	01/27/21	1057.690	0.000	-0.310	-0.010	-0.010



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-5**

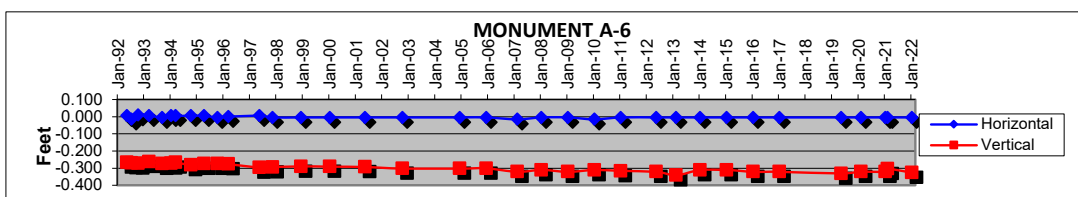
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		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1058.822	0.000	0.000	0.000	0.000
48	05/01/92	1058.479	0.004	-0.343	0.010	0.015
49	07/01/92	1058.476	-0.003	-0.346	-0.020	-0.005
50	10/14/92	1058.473	-0.003	-0.349	0.015	0.010
51	03/30/93	1058.481	0.008	-0.341	0.005	0.015
52	09/30/93	1058.470	-0.011	-0.352	0.000	0.015
53	01/21/94	1058.469	-0.001	-0.353	0.000	0.015
54	03/24/94	1058.472	0.003	-0.350	-0.015	0.000
55	10/11/94	1058.459	-0.013	-0.363	0.005	0.005
56	04/06/95	1058.465	0.006	-0.357	0.000	0.005
57	10/19/95	1058.465	0.000	-0.357	-0.010	-0.005
58	03/28/96	1058.462	-0.003	-0.360	0.005	0.000
59	05/02/97	1058.444	-0.018	-0.378	0.015	0.015
60	11/27/97	1058.443	-0.001	-0.379	-0.020	-0.005
61	12/17/98	1058.446	0.003	-0.376	0.010	0.005
62	01/06/00	1058.445	-0.001	-0.377	-0.010	-0.005
63	05/14/01	1058.441	-0.004	-0.381	-0.004	-0.009
64	10/30/02	1058.436	-0.005	-0.386	-0.010	-0.019
65	12/16/04	1058.436	0.000	-0.386	0.000	-0.019
66	12/09/05	1058.430	-0.006	-0.392	0.010	-0.009
67	02/21/07	1058.410	-0.020	-0.412	0.000	-0.009
68	01/24/08	1058.420	0.010	-0.402	0.000	-0.009
69	01/29/09	1058.420	0.000	-0.402	0.000	-0.009
70	01/28/10	1058.420	0.000	-0.402	0.004	-0.005
71	01/18/11	1058.420	0.000	-0.402	0.010	0.005
72	05/01/12	1058.410	-0.010	-0.412	0.000	0.005
73	02/13/13	1058.400	-0.010	-0.422	0.000	0.005
74	01/16/14	1058.400	0.000	-0.422	0.000	0.005
75	01/07/15	1058.400	0.000	-0.422	0.000	0.005
76	01/08/16	1058.410	0.010	-0.412	0.000	0.005
77	01/09/17	1058.410	0.000	-0.412	0.000	0.005
78	05/21/19	1058.400	-0.010	-0.422	0.000	0.005
79	02/21/20	1058.410	0.010	-0.412	0.000	0.005
80	01/26/21	1058.410	0.000	-0.412	0.000	0.005
81	02/01/21	1058.424	0.014	-0.398	0.000	0.005
82	01/27/22	1058.411	-0.013	-0.411	-0.010	-0.005



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-6**

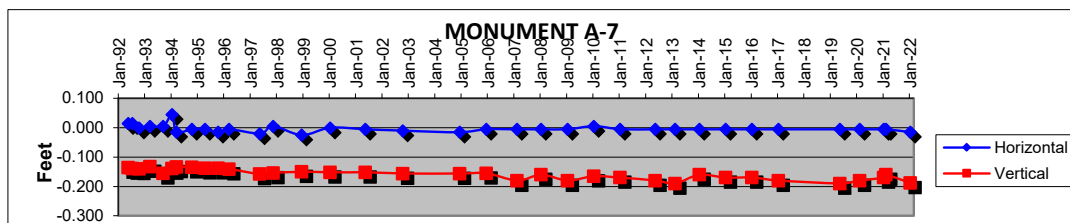
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1058.641	0.000	0.000	0.000	0.000
48	05/01/92	1058.375	0.003	-0.266	0.000	0.005
49	07/01/92	1058.371	-0.004	-0.270	-0.020	-0.015
50	10/14/92	1058.369	-0.002	-0.272	0.025	0.010
51	03/30/93	1058.378	0.009	-0.263	-0.005	0.005
52	09/30/93	1058.367	-0.011	-0.274	-0.010	-0.005
53	01/21/94	1058.369	0.002	-0.272	0.010	0.005
54	03/24/94	1058.374	0.005	-0.267	0.000	0.005
55	10/11/94	1058.360	-0.014	-0.281	0.000	0.005
56	04/06/95	1058.368	0.008	-0.273	0.000	0.005
57	10/19/95	1058.368	0.000	-0.273	-0.010	-0.005
58	03/28/96	1058.365	-0.003	-0.276	0.005	0.000
59	05/02/97	1058.344	-0.021	-0.297	0.005	0.005
60	11/27/97	1058.347	0.003	-0.294	-0.010	-0.005
61	12/17/98	1058.351	0.004	-0.290	0.000	-0.005
62	01/06/00	1058.350	-0.001	-0.291	0.000	-0.005
63	05/14/01	1058.348	-0.002	-0.293	0.000	-0.005
64	10/30/02	1058.339	-0.009	-0.302	0.000	-0.005
65	12/16/04	1058.339	0.000	-0.302	0.000	-0.005
66	12/09/05	1058.340	0.001	-0.301	0.000	-0.005
67	02/21/07	1058.320	-0.020	-0.321	-0.010	-0.015
68	01/24/08	1058.330	0.010	-0.311	0.010	-0.005
69	01/29/09	1058.320	-0.010	-0.321	0.000	-0.005
70	01/28/10	1058.330	0.010	-0.311	-0.010	-0.015
71	01/18/11	1058.325	-0.005	-0.316	0.010	-0.005
72	05/01/12	1058.320	-0.005	-0.321	0.000	-0.005
73	02/13/13	1058.300	-0.020	-0.341	0.000	-0.005
74	01/16/14	1058.330	0.030	-0.311	0.000	-0.005
75	01/07/15	1058.330	0.000	-0.311	0.000	-0.005
76	01/08/16	1058.320	-0.010	-0.321	0.000	-0.005
77	01/09/17	1058.320	0.000	-0.321	0.000	-0.005
78	05/21/19	1058.310	-0.010	-0.331	0.000	-0.005
79	02/12/20	1058.320	0.010	-0.321	0.000	-0.005
80	01/26/21	1058.320	0.000	-0.321	0.000	-0.005
81	02/01/21	1058.338	0.018	-0.303	0.000	-0.005
82	01/27/22	1058.315	-0.023	-0.326	0.000	-0.005



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-7**

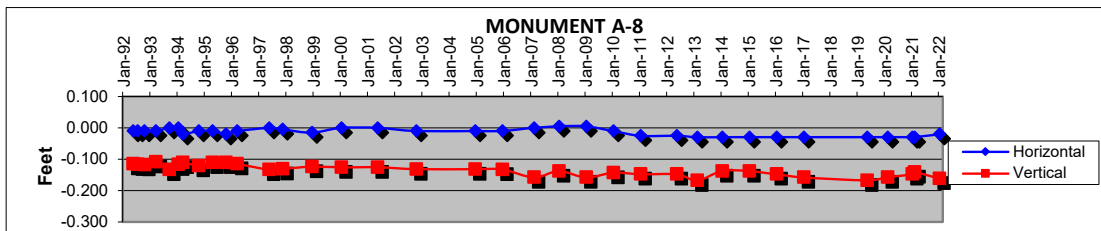
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.900	0.000	0.000	0.000	0.000
48	05/01/92	1057.764	0.002	-0.136	0.010	0.015
49	07/01/92	1057.761	-0.003	-0.139	0.000	0.015
50	10/14/92	1057.760	-0.001	-0.140	-0.015	0.000
51	03/30/93	1057.768	0.008	-0.132	0.005	0.005
52	09/30/93	1057.745	-0.023	-0.155	0.000	0.005
53	01/21/94	1057.761	0.016	-0.139	0.040	0.045
54	03/24/94	1057.767	0.006	-0.133	-0.060	-0.015
55	10/11/94	1057.765	-0.002	-0.135	0.010	-0.005
56	04/06/95	1057.762	-0.003	-0.138	0.000	-0.005
57	10/19/95	1057.762	0.000	-0.138	-0.010	-0.015
58	03/28/96	1057.759	-0.003	-0.141	0.010	-0.005
59	05/02/97	1057.742	-0.017	-0.158	-0.015	-0.020
60	11/27/97	1057.746	0.004	-0.154	0.025	0.005
61	12/17/98	1057.750	0.004	-0.150	-0.030	-0.025
62	01/06/00	1057.748	-0.002	-0.152	0.025	0.000
63	05/14/01	1057.748	0.000	-0.152	-0.005	-0.005
64	10/30/02	1057.744	-0.004	-0.156	-0.005	-0.010
65	12/16/04	1057.744	0.000	-0.156	-0.005	-0.015
66	12/09/05	1057.745	0.001	-0.155	0.010	-0.005
67	02/21/07	1057.720	-0.025	-0.180	0.000	-0.005
68	01/24/08	1057.740	0.020	-0.160	0.000	-0.005
69	01/29/09	1057.720	-0.020	-0.180	0.000	-0.005
70	01/28/10	1057.735	0.015	-0.165	0.010	0.005
71	01/18/11	1057.730	-0.005	-0.170	-0.010	-0.005
72	05/01/12	1057.720	-0.010	-0.180	0.000	-0.005
73	02/13/13	1057.710	-0.010	-0.190	0.000	-0.005
74	01/16/14	1057.740	0.030	-0.160	0.000	-0.005
75	01/07/15	1057.730	-0.010	-0.170	0.000	-0.005
76	01/08/16	1057.730	0.000	-0.170	0.000	-0.005
77	01/09/17	1057.720	-0.010	-0.180	0.000	-0.005
78	05/21/19	1057.710	-0.010	-0.190	0.000	-0.005
79	02/12/20	1057.720	0.010	-0.180	0.000	-0.005
80	01/26/21	1057.730	0.010	-0.170	0.000	-0.005
81	02/01/21	1057.740	0.010	-0.160	0.000	-0.005
82	01/27/22	1057.712	-0.028	-0.188	-0.010	-0.015



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-8**

READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.728	0.000	0.000	0.000	0.000
48	05/01/92	1057.613	0.002	-0.115	0.010	-0.010
49	07/01/92	1057.611	-0.002	-0.117	0.000	-0.010
50	10/14/92	1057.610	-0.001	-0.118	0.000	-0.010
51	03/30/93	1057.619	0.009	-0.109	0.000	-0.010
52	09/30/93	1057.595	-0.024	-0.133	0.010	0.000
53	01/21/94	1057.611	0.016	-0.117	0.000	0.000
54	03/24/94	1057.617	0.006	-0.111	-0.020	-0.020
55	10/11/94	1057.607	-0.010	-0.121	0.010	-0.010
56	04/06/95	1057.617	0.010	-0.111	0.000	-0.010
57	10/19/95	1057.617	0.000	-0.111	-0.010	-0.020
58	03/28/96	1057.613	-0.004	-0.115	0.010	-0.010
59	05/02/97	1057.595	-0.018	-0.133	0.010	0.000
60	11/27/97	1057.597	0.002	-0.131	-0.005	-0.005
61	12/17/98	1057.604	0.007	-0.124	-0.010	-0.015
62	01/06/00	1057.602	-0.002	-0.126	0.015	0.000
63	05/14/01	1057.602	0.000	-0.126	0.000	0.000
64	10/30/02	1057.596	-0.006	-0.132	-0.010	-0.010
65	12/16/04	1057.596	0.000	-0.132	0.000	-0.010
66	12/09/05	1057.595	-0.001	-0.133	0.000	-0.010
67	02/21/07	1057.570	-0.025	-0.158	0.010	0.000
68	01/24/08	1057.590	0.020	-0.138	0.005	0.005
69	01/29/09	1057.570	-0.020	-0.158	0.000	0.005
70	01/28/10	1057.585	0.015	-0.143	-0.015	-0.010
71	01/18/11	1057.580	-0.005	-0.148	-0.015	-0.025
72	05/01/12	1057.580	0.000	-0.148	0.000	-0.025
73	02/13/13	1057.560	-0.020	-0.168	-0.005	-0.030
74	01/16/14	1057.590	0.030	-0.138	0.000	-0.030
75	01/07/15	1057.590	0.000	-0.138	0.000	-0.030
76	01/08/16	1057.580	-0.010	-0.148	0.000	-0.030
77	01/09/17	1057.570	-0.010	-0.158	0.000	-0.030
78	05/21/19	1057.560	-0.010	-0.168	0.000	-0.030
79	02/12/20	1057.570	0.010	-0.158	0.000	-0.030
80	01/26/21	1057.580	0.010	-0.148	0.000	-0.030
81	02/01/21	1057.587	0.007	-0.141	0.000	-0.030
82	01/27/22	1057.566	-0.021	-0.162	0.010	-0.020

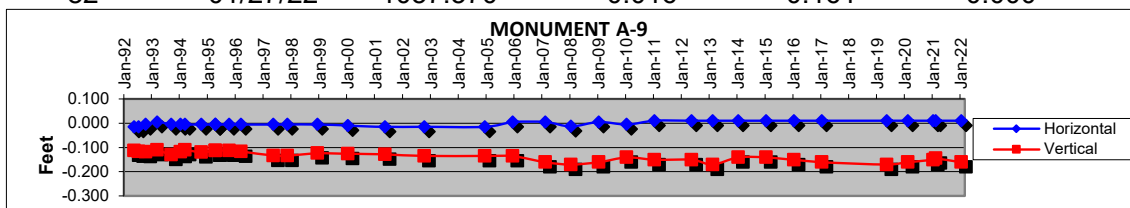




**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**LAS VIRGENES RESERVOIR**  
**SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-9**

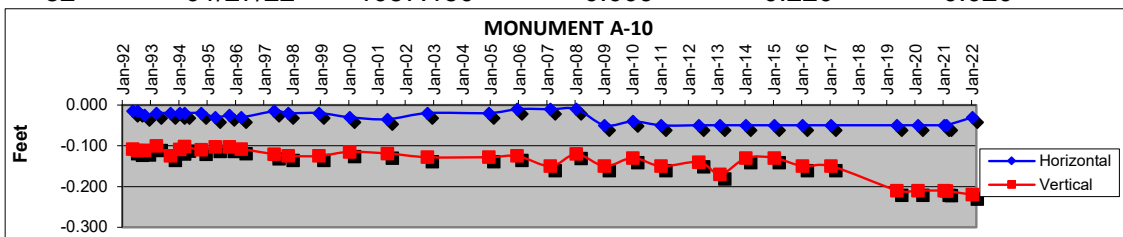
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.731	0.000	0.000	0.000	0.000
48	05/01/92	1057.618	0.005	-0.113	0.000	-0.015
49	07/01/92	1057.614	-0.004	-0.117	0.000	-0.015
50	10/14/92	1057.612	-0.002	-0.119	0.010	-0.005
51	03/30/93	1057.621	0.009	-0.110	0.010	0.005
52	09/30/93	1057.600	-0.021	-0.131	-0.010	-0.005
53	01/21/94	1057.612	0.012	-0.119	0.000	-0.005
54	03/24/94	1057.620	0.008	-0.111	0.000	-0.005
55	10/11/94	1057.611	-0.009	-0.120	0.000	-0.005
56	04/06/95	1057.618	0.007	-0.113	0.000	-0.005
56	04/06/95	1057.618	0.000	-0.113	0.000	-0.005
57	10/19/95	1057.618	0.000	-0.113	0.000	-0.005
58	03/28/96	1057.614	-0.004	-0.117	0.000	-0.005
59	05/02/97	1057.597	-0.017	-0.134	0.000	-0.005
60	11/27/97	1057.597	0.000	-0.134	0.000	-0.005
61	12/17/98	1057.607	0.010	-0.124	0.000	-0.005
62	01/06/00	1057.605	-0.002	-0.126	-0.005	-0.010
63	05/14/01	1057.602	-0.003	-0.129	-0.005	-0.015
64	10/30/02	1057.596	-0.006	-0.135	0.000	-0.015
65	12/16/04	1057.596	0.000	-0.135	0.000	-0.015
66	12/09/05	1057.595	-0.001	-0.136	0.020	0.005
67	02/21/07	1057.570	-0.025	-0.161	0.000	0.005
68	01/24/08	1057.560	-0.010	-0.171	-0.018	-0.013
69	01/29/09	1057.570	0.010	-0.161	0.018	0.005
70	01/28/10	1057.590	0.020	-0.141	-0.010	-0.005
71	01/18/11	1057.580	-0.010	-0.151	0.015	0.010
72	05/01/12	1057.580	0.000	-0.151	0.000	0.010
73	02/13/13	1057.560	-0.020	-0.171	0.000	0.010
74	01/16/14	1057.590	0.030	-0.141	0.000	0.010
75	01/07/15	1057.590	0.000	-0.141	0.000	0.010
76	01/08/16	1057.580	-0.010	-0.151	0.000	0.010
77	01/09/17	1057.570	-0.010	-0.161	0.000	0.010
78	05/21/19	1057.560	-0.010	-0.171	0.000	0.010
79	02/21/20	1057.570	0.010	-0.161	0.000	0.010
80	01/26/21	1057.580	0.010	-0.151	0.000	0.010
81	02/01/21	1057.586	0.006	-0.145	0.000	0.010
82	01/27/22	1057.570	-0.016	-0.161	0.000	0.010



**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**LAS VIRGENES RESERVOIR**  
**SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT A-10**

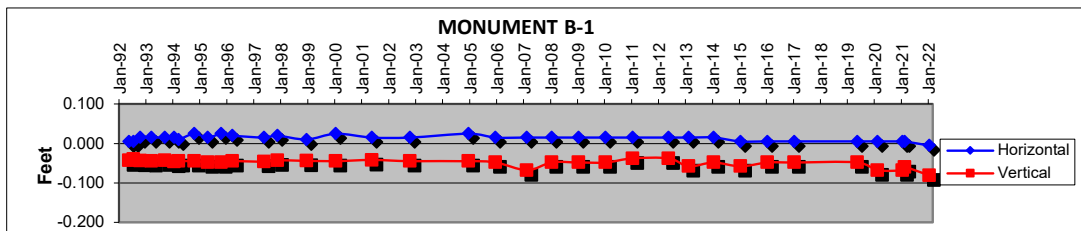
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.370	0.000	0.000	0.000	0.000
48	05/01/92	1057.262	0.002	-0.108	0.015	-0.015
49	07/01/92	1057.258	-0.004	-0.112	0.000	-0.015
50	10/14/92	1057.259	0.001	-0.111	-0.010	-0.025
51	03/30/93	1057.270	0.011	-0.100	0.005	-0.020
52	09/30/93	1057.245	-0.025	-0.125	0.000	-0.020
53	01/21/94	1057.261	0.016	-0.109	0.000	-0.020
54	03/24/94	1057.268	0.007	-0.102	0.000	-0.020
55	10/11/94	1057.260	-0.008	-0.110	0.000	-0.020
56	04/06/95	1057.267	0.007	-0.103	-0.010	-0.030
57	10/19/95	1057.267	0.000	-0.103	0.005	-0.025
58	03/28/96	1057.262	-0.005	-0.108	-0.005	-0.030
59	05/02/97	1057.249	-0.013	-0.121	0.015	-0.015
60	11/27/97	1057.245	-0.004	-0.125	-0.005	-0.020
61	12/17/98	1057.245	0.000	-0.125	0.000	-0.020
62	01/06/00	1057.255	0.010	-0.115	-0.010	-0.030
63	05/14/01	1057.251	-0.004	-0.119	-0.005	-0.035
64	10/30/02	1057.242	-0.009	-0.128	0.015	-0.020
65	12/16/04	1057.242	0.000	-0.128	0.000	-0.020
66	12/09/05	1057.245	0.003	-0.125	0.010	-0.010
67	02/21/07	1057.220	-0.025	-0.150	0.000	-0.010
68	01/24/08	1057.250	0.030	-0.120	0.000	-0.010
69	01/29/09	1057.220	-0.030	-0.150	-0.040	-0.050
70	01/28/10	1057.240	0.020	-0.130	0.010	-0.040
71	01/18/11	1057.220	-0.020	-0.150	-0.010	-0.050
72	05/01/12	1057.230	0.010	-0.140	0.000	-0.050
73	02/13/13	1057.200	-0.030	-0.170	0.000	-0.050
74	01/16/14	1057.240	0.040	-0.130	0.000	-0.050
75	01/07/15	1057.240	0.000	-0.130	0.000	-0.050
76	01/08/16	1057.220	-0.020	-0.150	0.000	-0.050
77	01/09/17	1057.220	0.000	-0.150	0.000	-0.050
78	05/21/19	1057.160	-0.060	-0.210	0.000	-0.050
79	02/12/20	1057.160	0.000	-0.210	0.000	-0.050
80	01/26/21	1057.160	0.000	-0.210	0.000	-0.050
81	02/01/21	1057.159	-0.001	-0.211	0.000	-0.050
82	01/27/22	1057.150	-0.009	-0.220	0.020	-0.030



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT B-1**

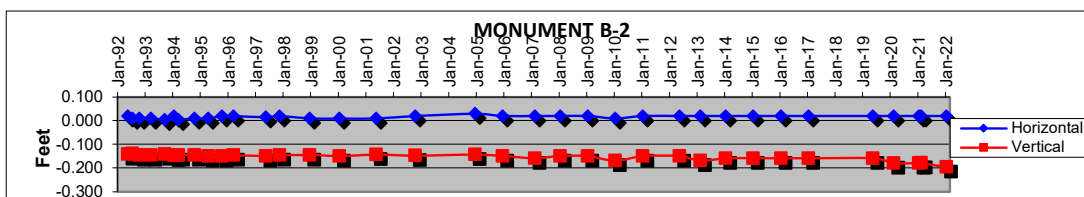
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.338	0.000	0.000	0.000	0.000
48	05/01/92	1010.295	-0.002	-0.043	-0.010	0.005
49	07/01/92	1010.298	0.003	-0.040	0.000	0.005
50	10/14/92	1010.294	-0.004	-0.044	0.010	0.015
51	03/30/93	1010.293	-0.001	-0.045	0.000	0.015
52	09/30/93	1010.295	0.002	-0.043	0.000	0.015
53	01/21/94	1010.292	-0.003	-0.046	0.000	0.015
54	03/24/94	1010.293	0.001	-0.045	-0.005	0.010
55	10/11/94	1010.293	0.000	-0.045	0.015	0.025
56	04/06/95	1010.290	-0.003	-0.048	-0.010	0.015
57	10/19/95	1010.290	0.000	-0.048	0.010	0.025
58	03/28/96	1010.293	0.003	-0.045	-0.005	0.020
59	05/02/97	1010.292	-0.001	-0.046	-0.005	0.015
60	11/27/97	1010.295	0.003	-0.043	0.005	0.020
61	12/17/98	1010.294	-0.001	-0.044	-0.010	0.010
62	01/06/00	1010.293	-0.001	-0.045	0.015	0.025
63	05/14/01	1010.296	0.003	-0.042	-0.010	0.015
64	10/30/02	1010.293	-0.003	-0.045	0.000	0.015
65	12/16/04	1010.293	0.000	-0.045	0.010	0.025
66	12/09/05	1010.290	-0.003	-0.048	-0.010	0.015
67	02/21/07	1010.270	-0.020	-0.068	0.000	0.015
68	01/24/08	1010.290	0.020	-0.048	0.000	0.015
69	01/29/09	1010.290	0.000	-0.048	0.000	0.015
70	01/28/10	1010.290	0.000	-0.048	0.000	0.015
71	01/18/11	1010.300	0.010	-0.038	0.000	0.015
72	05/01/12	1010.300	0.000	-0.038	0.000	0.015
73	02/13/13	1010.280	-0.020	-0.058	0.000	0.015
74	01/16/14	1010.290	0.010	-0.048	0.000	0.015
75	01/07/15	1010.280	-0.010	-0.058	-0.010	0.005
76	01/08/16	1010.290	0.010	-0.048	0.000	0.005
77	01/09/17	1010.290	0.000	-0.048	0.000	0.005
78	05/21/19	1010.290	0.000	-0.048	0.000	0.005
79	02/12/20	1010.270	-0.020	-0.068	0.000	0.005
80	01/26/21	1010.270	0.000	-0.068	0.000	0.005
81	02/01/21	1010.278	0.008	-0.060	0.000	0.005
82	01/27/22	1010.257	-0.021	-0.081	-0.010	-0.005



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT B-2**

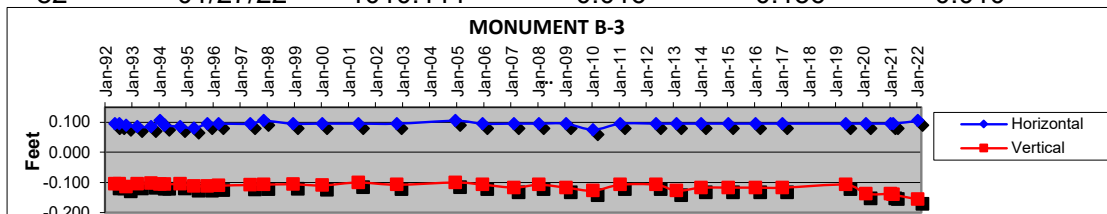
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.129	0.000	0.000	0.000	0.000
48	05/01/92	1009.988	0.001	-0.141	0.005	0.020
49	07/01/92	1009.990	0.002	-0.139	-0.010	0.010
50	10/14/92	1009.984	-0.006	-0.145	0.000	0.010
51	03/30/93	1009.984	0.000	-0.145	0.000	0.010
52	09/30/93	1009.987	0.003	-0.142	-0.005	0.005
53	01/21/94	1009.982	-0.005	-0.147	0.015	0.020
54	03/24/94	1009.984	0.002	-0.145	-0.015	0.005
55	10/11/94	1009.983	-0.001	-0.146	0.005	0.010
56	04/06/95	1009.979	-0.004	-0.150	0.000	0.010
57	10/19/95	1009.979	0.000	-0.150	0.010	0.020
58	03/28/96	1009.983	0.004	-0.146	0.000	0.020
59	05/02/97	1009.980	-0.003	-0.149	-0.005	0.015
60	11/27/97	1009.983	0.003	-0.146	0.005	0.020
61	12/17/98	1009.984	0.001	-0.145	-0.010	0.010
62	01/06/00	1009.980	-0.004	-0.149	0.000	0.010
63	05/14/01	1009.986	0.006	-0.143	0.000	0.010
64	10/30/02	1009.982	-0.004	-0.147	0.010	0.020
65	12/16/04	1009.986	0.004	-0.143	0.010	0.030
66	12/09/05	1009.980	-0.006	-0.149	-0.010	0.020
67	02/21/07	1009.970	-0.010	-0.159	0.000	0.020
68	01/24/08	1009.980	0.010	-0.149	0.000	0.020
69	01/29/09	1009.980	0.000	-0.149	0.000	0.020
70	01/28/10	1009.960	-0.020	-0.169	-0.010	0.010
71	01/18/11	1009.980	0.020	-0.149	0.010	0.020
72	05/01/12	1009.980	0.000	-0.149	0.000	0.020
73	02/13/13	1009.960	-0.020	-0.169	0.000	0.020
74	01/16/14	1009.970	0.010	-0.159	0.000	0.020
75	01/07/15	1009.970	0.000	-0.159	0.000	0.020
76	01/08/16	1009.970	0.000	-0.159	0.000	0.020
77	01/09/17	1009.970	0.000	-0.159	0.000	0.020
78	05/21/19	1009.970	0.000	-0.159	0.000	0.020
79	02/12/20	1009.950	-0.020	-0.179	0.000	0.020
80	01/26/21	1009.950	0.000	-0.179	0.000	0.020
81	02/01/21	1009.951	0.001	-0.178	0.000	0.020
82	01/27/22	1009.933	-0.018	-0.196	0.000	0.020



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

**MONUMENT B-3**

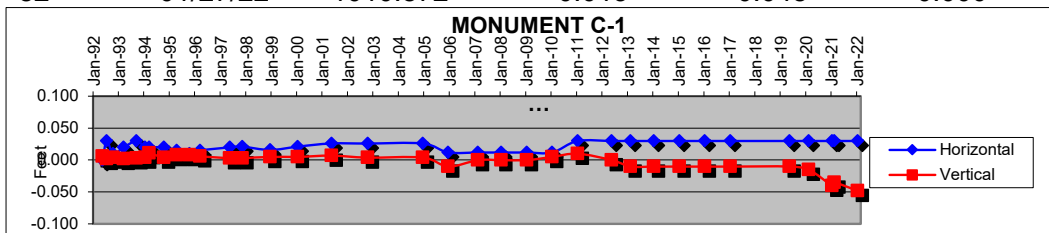
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.267	0.000	0.000	0.000	0.000
48	05/01/92	1010.162	0.003	-0.105	0.010	0.095
49	07/01/92	1010.162	0.000	-0.105	0.000	0.095
50	10/14/92	1010.153	-0.009	-0.114	-0.005	0.090
51	03/30/93	1010.162	0.009	-0.105	-0.005	0.085
52	09/30/93	1010.164	0.002	-0.103	0.000	0.085
53	01/21/94	1010.161	-0.003	-0.106	0.020	0.105
54	03/24/94	1010.161	0.000	-0.106	-0.015	0.090
55	10/11/94	1010.162	0.001	-0.105	-0.005	0.085
56	04/06/95	1010.155	-0.007	-0.112	-0.005	0.080
57	10/19/95	1010.155	0.000	-0.112	0.015	0.095
58	03/28/96	1010.157	0.002	-0.110	0.000	0.095
59	05/02/97	1010.159	0.002	-0.108	0.000	0.095
60	11/27/97	1010.160	0.001	-0.107	0.010	0.105
61	12/17/98	1010.161	0.001	-0.106	-0.010	0.095
62	01/06/00	1010.158	-0.003	-0.109	0.000	0.095
63	05/14/01	1010.167	0.009	-0.100	0.000	0.095
64	10/30/02	1010.160	-0.007	-0.107	0.000	0.095
65	12/16/04	1010.167	0.007	-0.100	0.010	0.105
66	12/09/05	1010.160	-0.007	-0.107	-0.010	0.095
67	02/21/07	1010.150	-0.010	-0.117	0.000	0.095
68	01/24/08	1010.160	0.010	-0.107	0.000	0.095
69	01/29/09	1010.150	-0.010	-0.117	0.000	0.095
70	01/28/10	1010.140	-0.010	-0.127	-0.020	0.075
71	01/18/11	1010.160	0.020	-0.107	0.020	0.095
72	05/01/12	1010.160	0.000	-0.107	0.000	0.095
73	02/13/13	1010.140	-0.020	-0.127	0.000	0.095
74	01/16/14	1010.150	0.010	-0.117	0.000	0.095
75	01/07/15	1010.150	0.000	-0.117	0.000	0.095
76	01/08/16	1010.150	0.000	-0.117	0.000	0.095
77	01/09/17	1010.150	0.000	-0.117	0.000	0.095
78	05/21/19	1010.160	0.010	-0.107	0.000	0.095
79	02/12/20	1010.130	-0.030	-0.137	0.000	0.095
80	01/26/21	1010.130	0.000	-0.137	0.000	0.095
81	02/01/21	1010.127	-0.003	-0.140	0.000	0.095
82	01/27/22	1010.111	-0.016	-0.156	0.010	0.105



**LAS VIRGENES MUNICIPAL WATER DISTRICT**  
**LAS VIRGENES RESERVOIR**  
**SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

## MONUMENT C-1

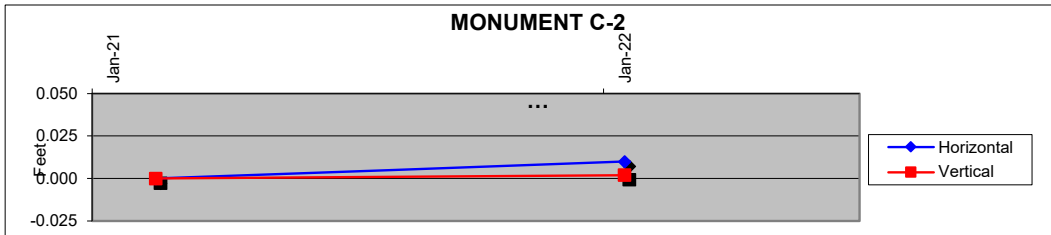
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.920	0.000	0.000	0.000	0.000
48	05/01/92	1010.926	-0.005	0.006	0.000	0.000
49	07/01/92	1010.922	-0.004	0.002	0.030	0.030
50	10/14/92	1010.924	0.002	0.004	-0.020	0.010
51	03/30/93	1010.922	-0.002	0.002	0.010	0.020
52	09/30/93	1010.923	0.001	0.003	0.010	0.030
53	01/21/94	1010.924	0.001	0.004	-0.010	0.020
54	03/24/94	1010.931	0.007	0.011	0.000	0.020
55	10/11/94	1010.924	-0.007	0.004	0.000	0.020
56	04/06/95	1010.928	0.004	0.008	-0.005	0.015
57	10/19/95	1010.928	0.000	0.008	-0.005	0.010
58	03/28/96	1010.926	-0.002	0.006	0.005	0.015
59	05/02/97	1010.923	-0.003	0.003	0.005	0.020
60	11/27/97	1010.923	0.000	0.003	0.001	0.021
61	12/17/98	1010.925	0.002	0.005	-0.005	0.016
62	01/06/00	1010.925	0.000	0.005	0.005	0.021
63	05/14/01	1010.927	0.002	0.007	0.005	0.026
64	10/30/02	1010.924	-0.003	0.004	0.000	0.026
65	12/16/04	1010.924	0.000	0.004	0.000	0.026
66	12/09/05	1010.910	-0.014	-0.010	-0.014	0.012
67	02/21/07	1010.920	0.010	0.000	0.000	0.012
68	01/24/08	1010.920	0.000	0.000	0.000	0.012
69	01/29/09	1010.920	0.000	0.000	0.000	0.012
70	01/28/10	1010.925	0.005	0.005	0.000	0.012
71	01/18/11	1010.930	0.005	0.010	0.018	0.030
72	05/01/12	1010.920	-0.010	0.000	0.000	0.030
73	02/13/13	1010.910	-0.010	-0.010	0.000	0.030
74	01/16/14	1010.910	0.000	-0.010	0.000	0.030
75	01/07/15	1010.910	0.000	-0.010	0.000	0.030
76	01/08/16	1010.910	0.000	-0.010	0.000	0.030
77	01/09/17	1010.910	0.000	-0.010	0.000	0.030
78	05/21/19	1010.910	0.000	-0.010	0.000	0.030
79	02/12/20	1010.905	-0.005	-0.015	0.000	0.030
80	01/26/21	1010.880	-0.025	-0.040	0.000	0.030
81	02/01/21	1010.885	0.005	-0.035	0.000	0.030
82	01/27/22	1010.872	-0.013	-0.048	0.000	0.030



**LAS VIRGENES MUNICIPAL WATER DISTRICT  
LAS VIRGENES RESERVOIR  
SETTLEMENT AND HORIZONTAL MOVEMENT RECORD**

## MONUMENT C-2

READING	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
NO.		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	02/01/21	1035.224	0.000	0.000	0.000	0.000
2	01/27/22	1035.222	0.002	0.002	0.010	0.010



**A-4 SUMMMARY TABLE OF LAS VIRGENES DAM SPILLWAY MEASUREMENTS**

**TABULAR SUMMARY OF SURVEY DATA**

**LAS VIRGENES DAM SPILLWAY SURVEY**

North Side Inlet to Outlet	Measurement Dates		Net Movement		South Side Inlet to Outlet	Measurement Dates		Net Movement	
	1/26/2021	1/27/2022	Feet	[inches]		1/26/2021	1/27/2022	[feet]	[inches]
1	2.68	2.68	0.000	0.000	1	2.54	2.54	0.000	0.000
2	2.65	2.65	0.000	0.000	2	2.55	2.55	0.000	0.000
3	2.65	2.63	0.020	0.240	3	2.56	2.56	0.000	0.000
4	2.65	2.65	0.000	0.000	4	2.58	2.58	0.000	0.000
5	2.71	2.7	0.010	0.120	5	2.59	2.59	0.000	0.000
6	2.71	2.71	0.000	0.000	6	2.57	2.57	0.000	0.000
7	2.63	2.62	0.010	0.120	7	2.56	2.56	0.000	0.000
8	2.62	2.63	-0.010	-0.120	8	2.55	2.55	0.000	0.000
9	2.63	2.63	0.000	0.000	9	2.52	2.52	0.000	0.000
10	2.67	2.67	0.000	0.000	10	2.57	2.57	0.000	0.000
11	2.62	2.61	0.010	0.120	11	2.55	2.54	-0.010	-0.120
12	2.59	2.59	0.000	0.000	12	2.56	2.56	0.000	0.000

**Maximum North Side Movement :**

**0.240 inches**

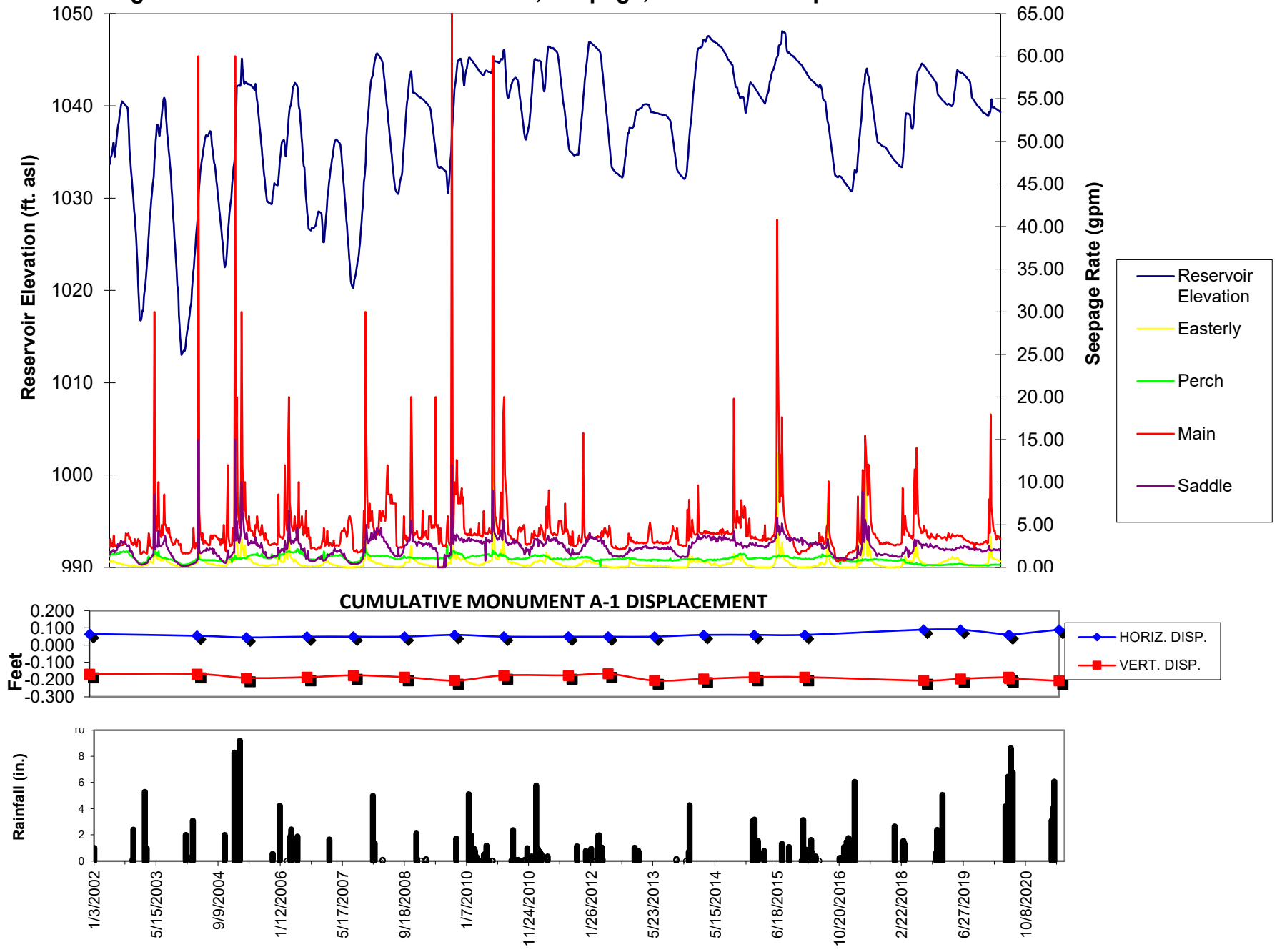
**Maximum South Side Movement :**

**0.000 inches**



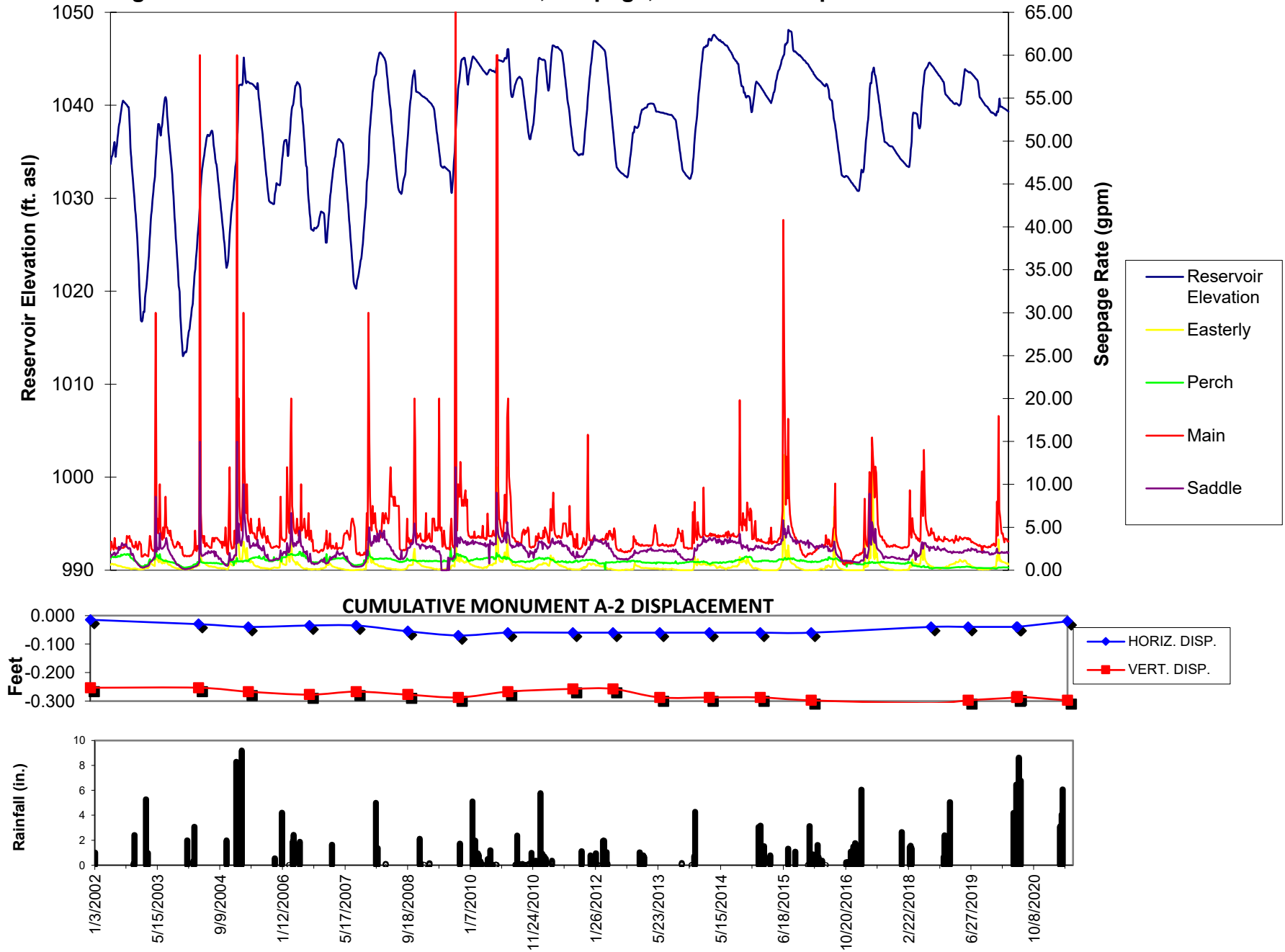
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



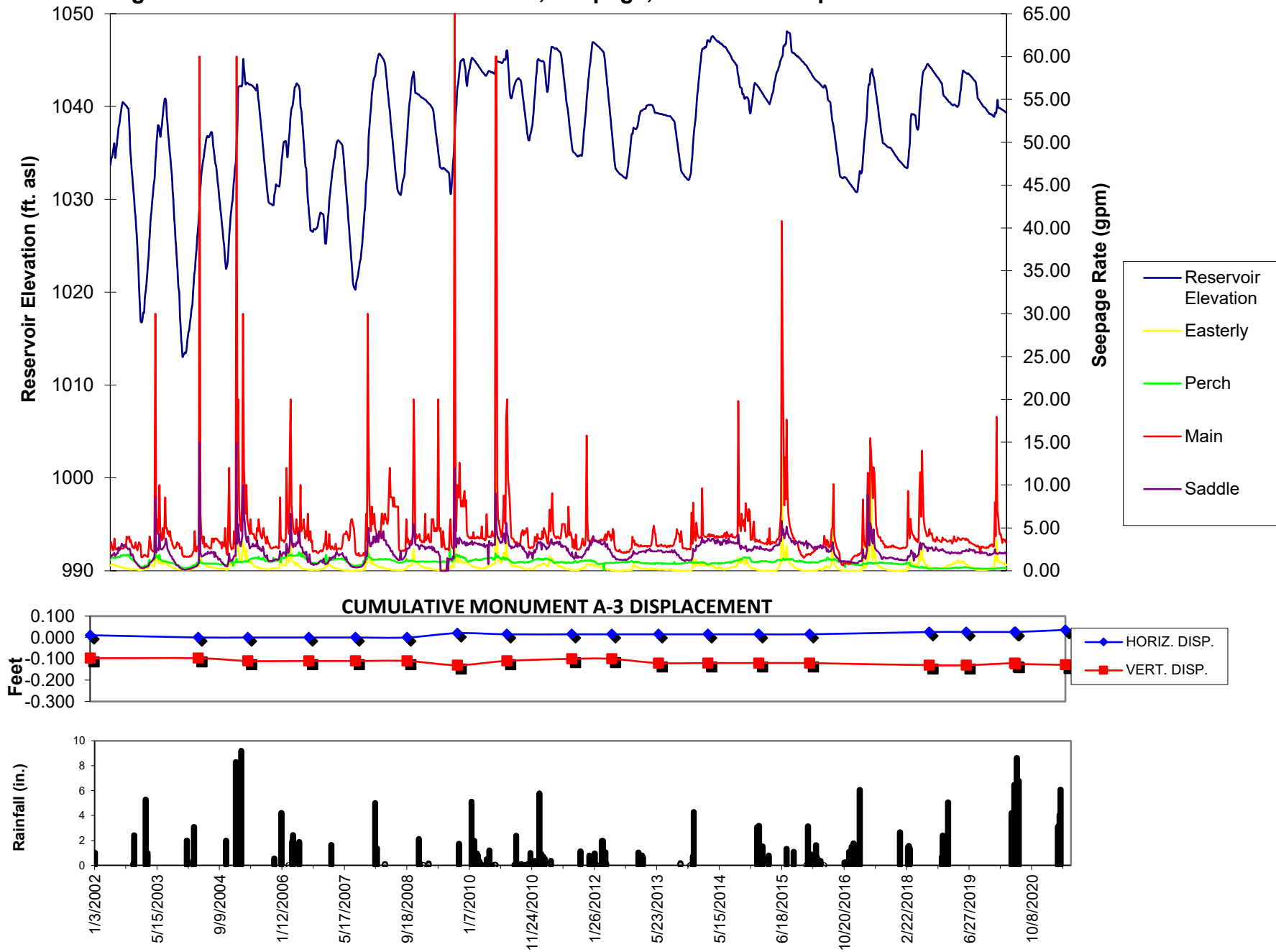
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

## Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



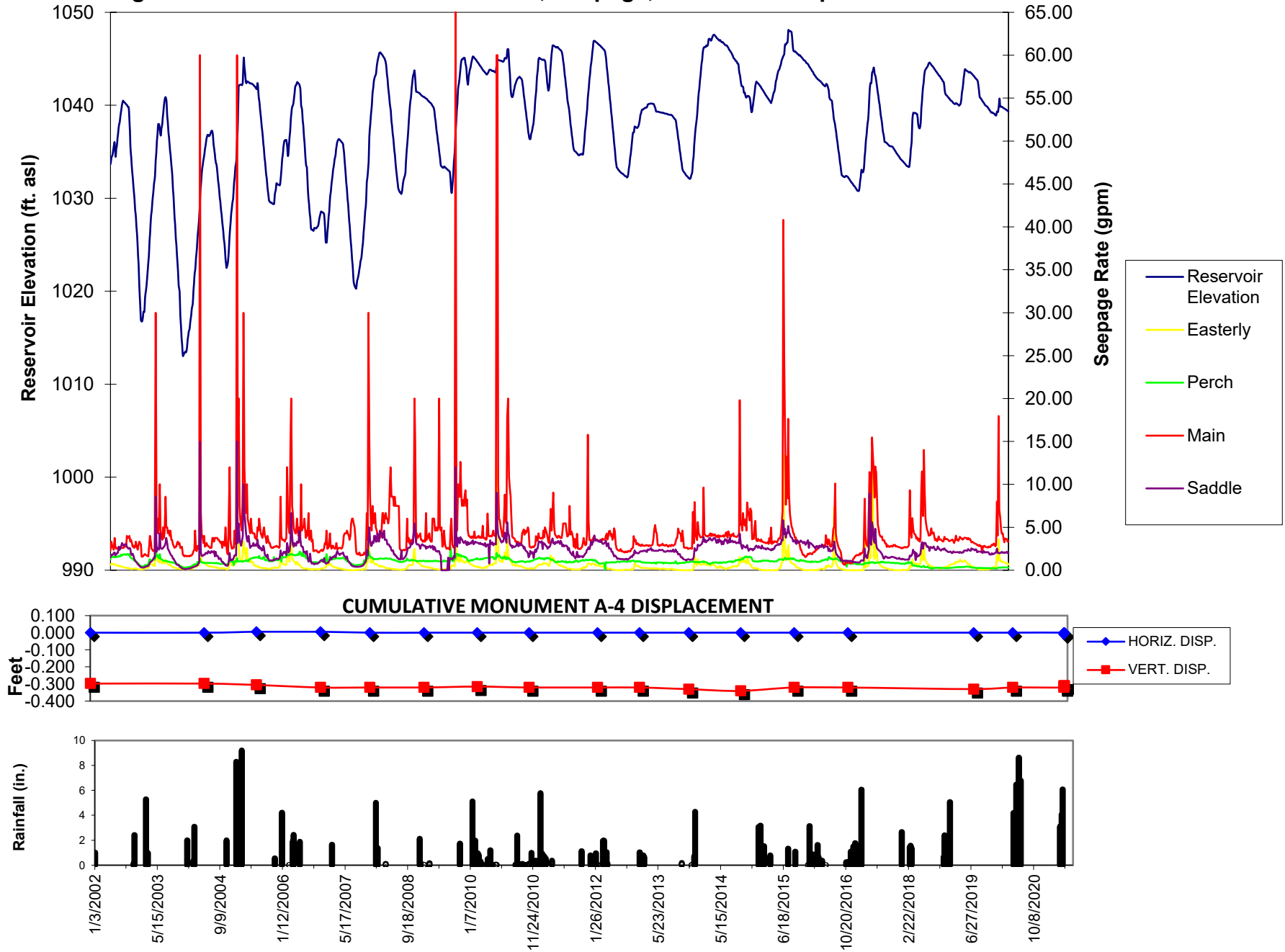
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



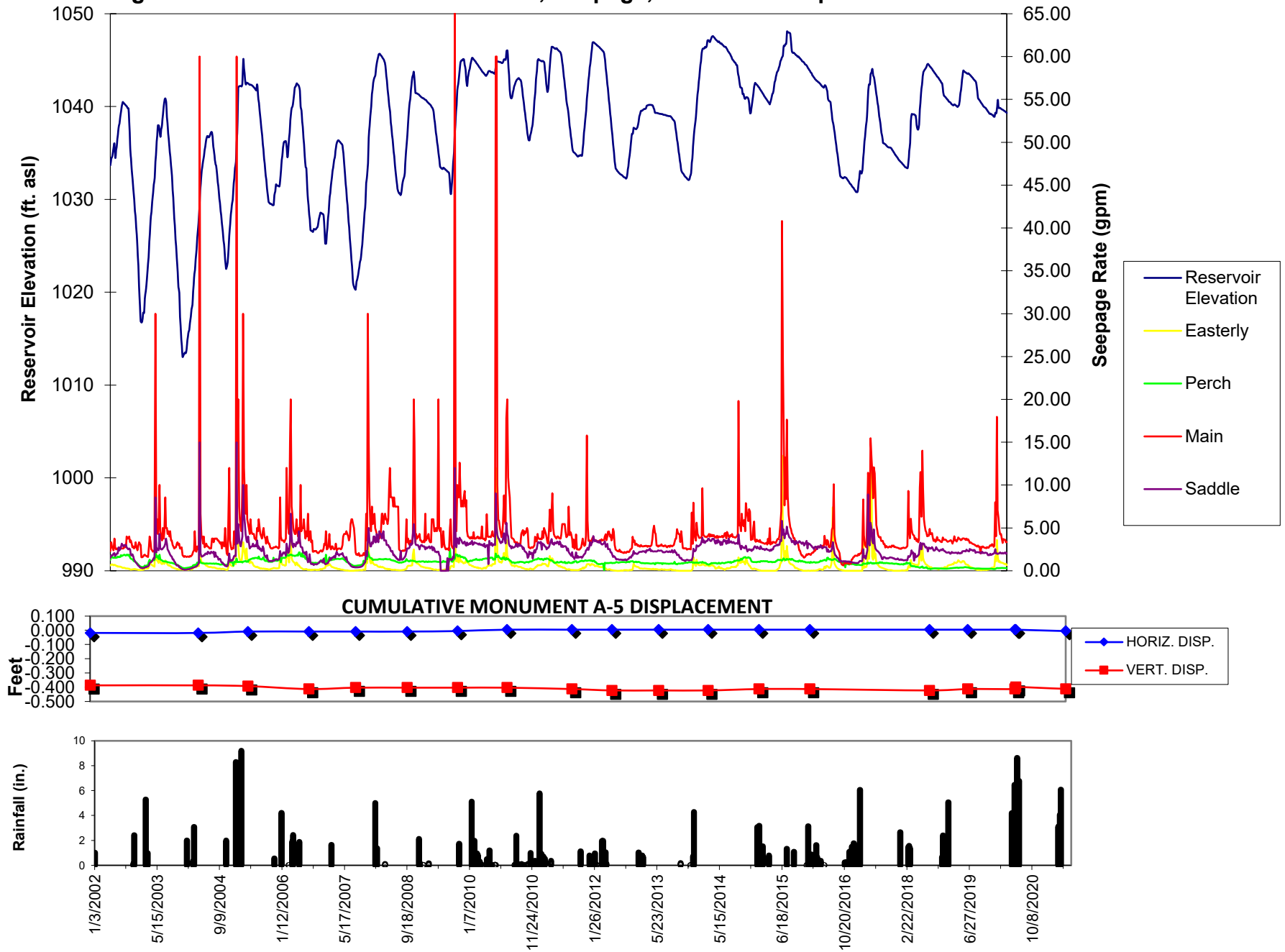
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

## Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



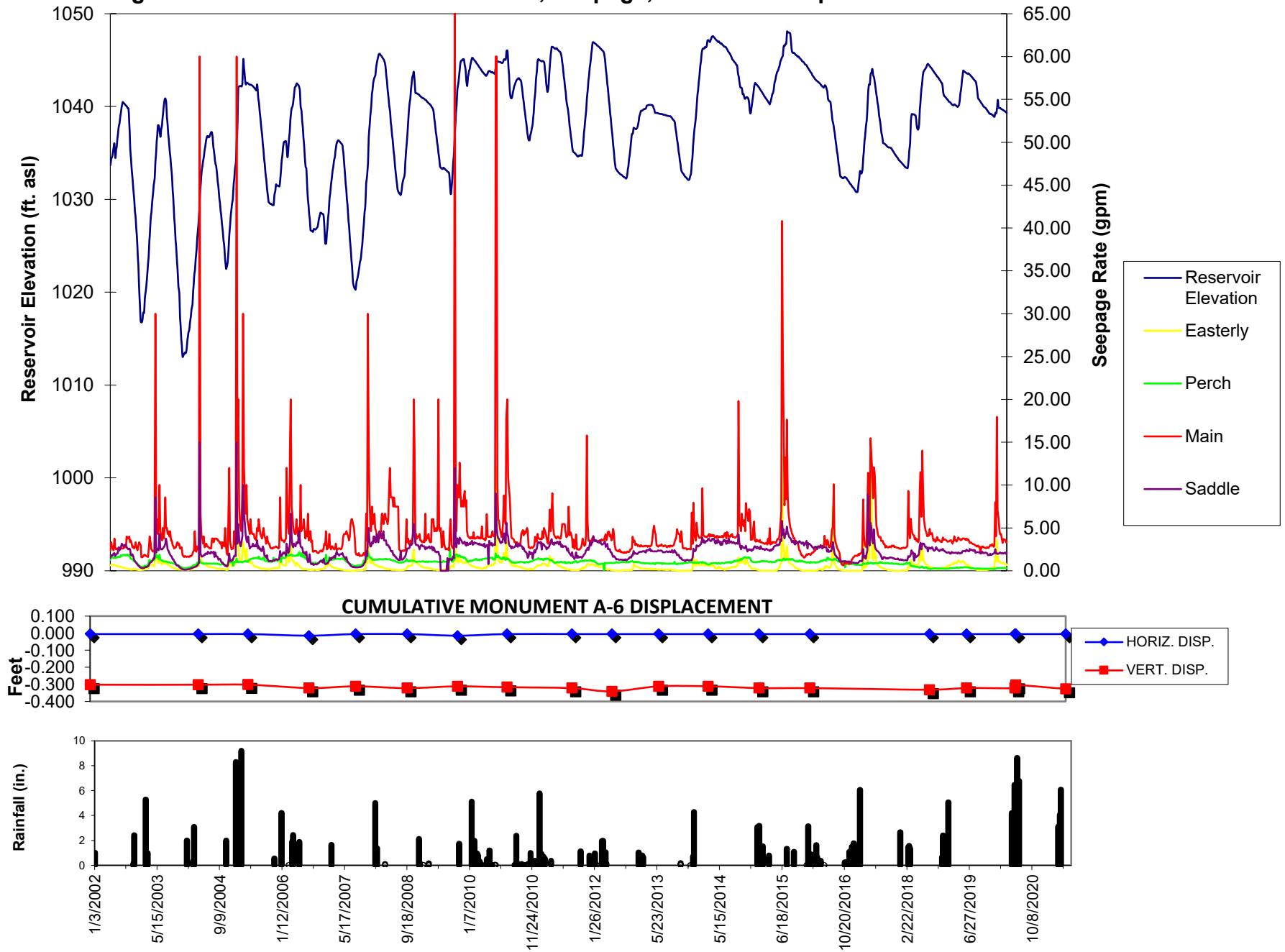
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



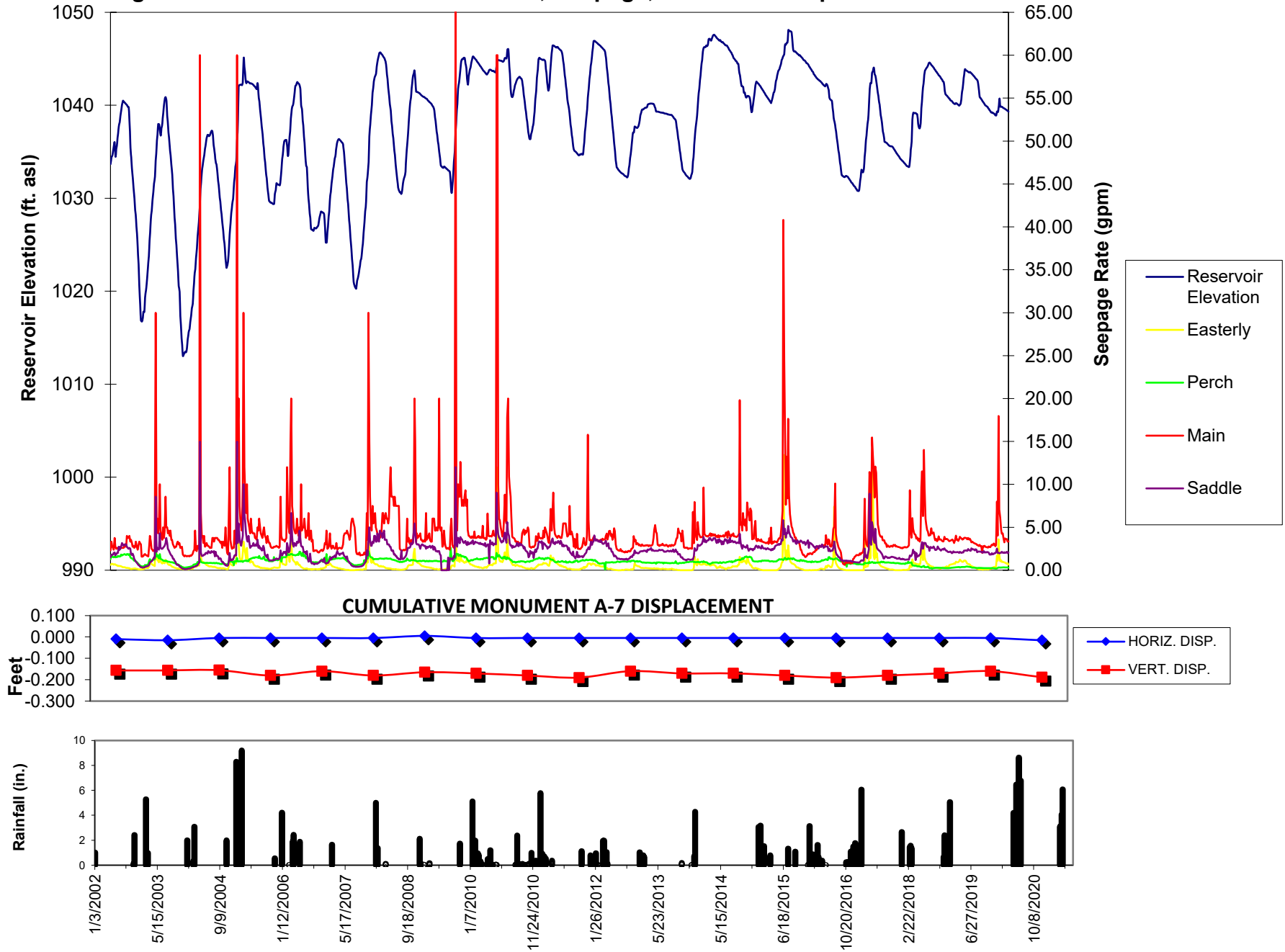
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



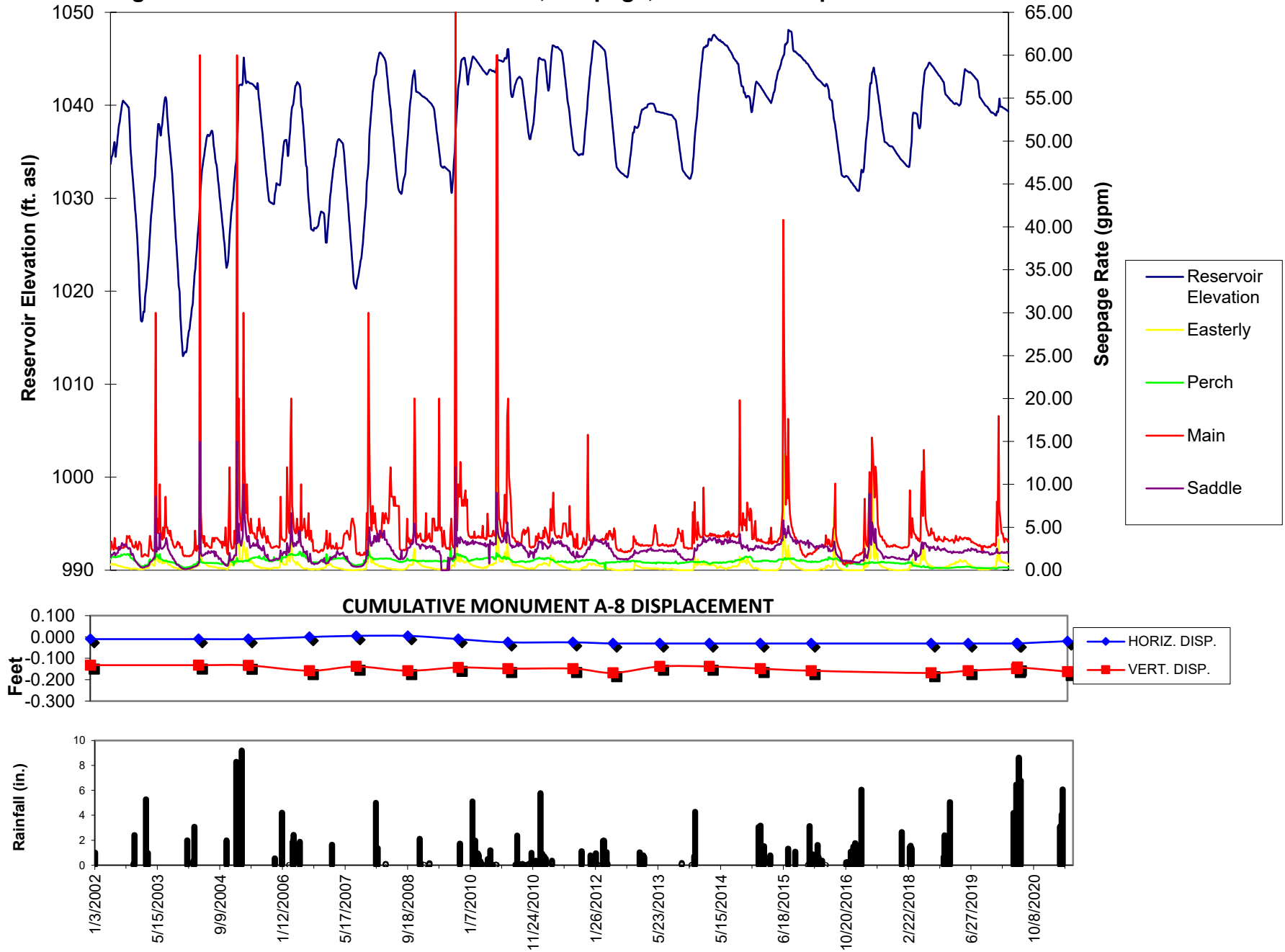
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

## Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

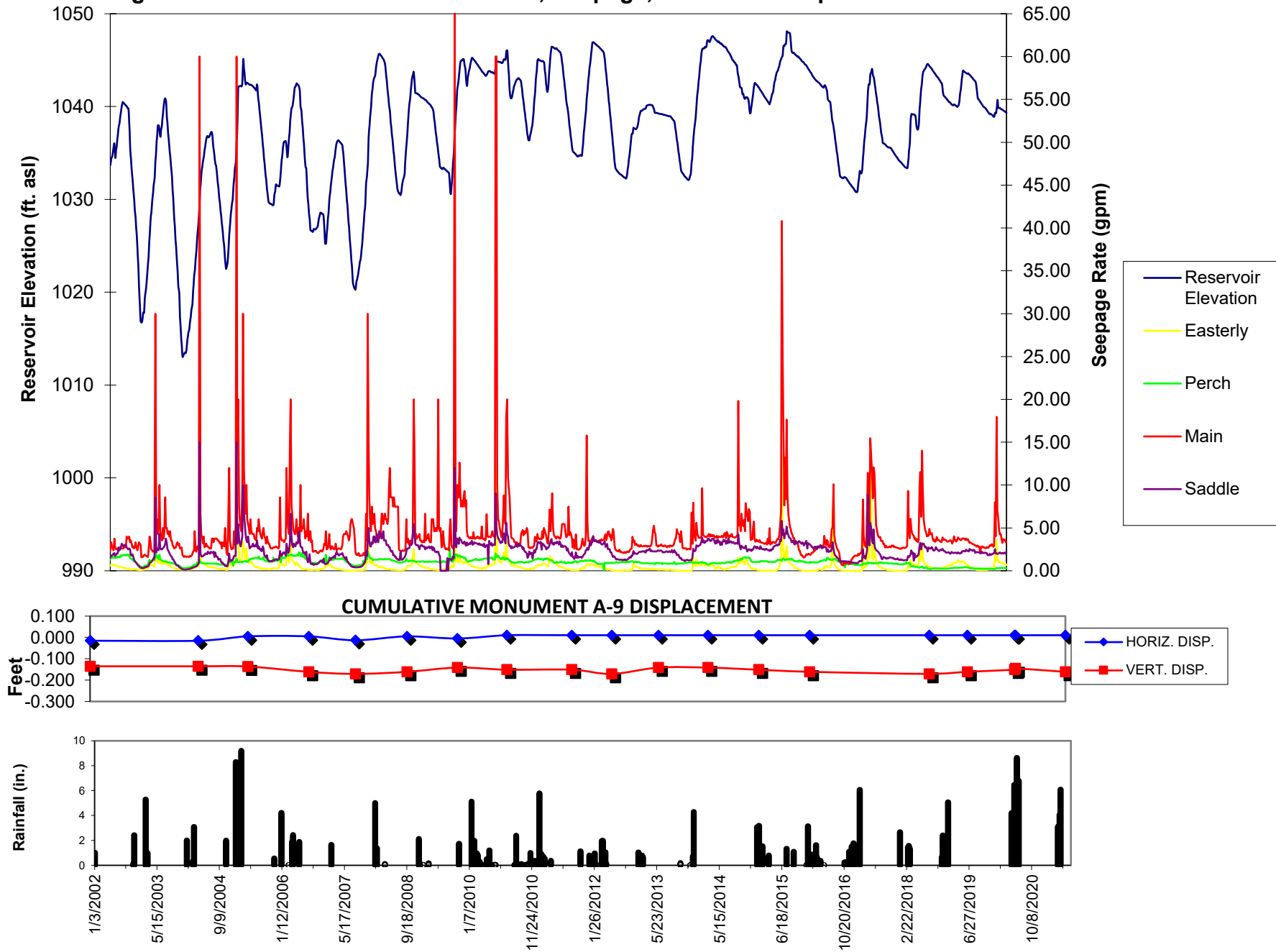
## Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall





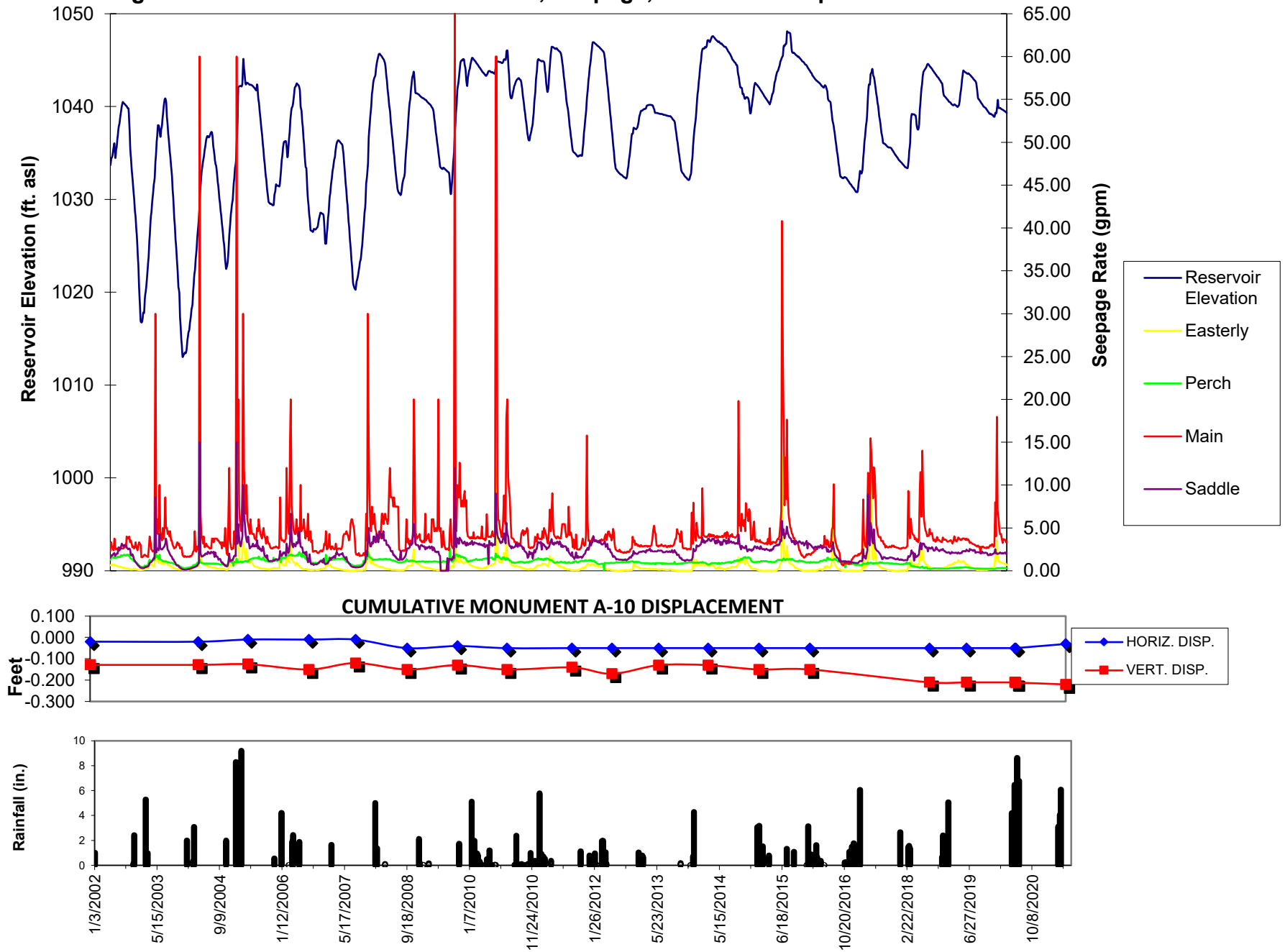
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



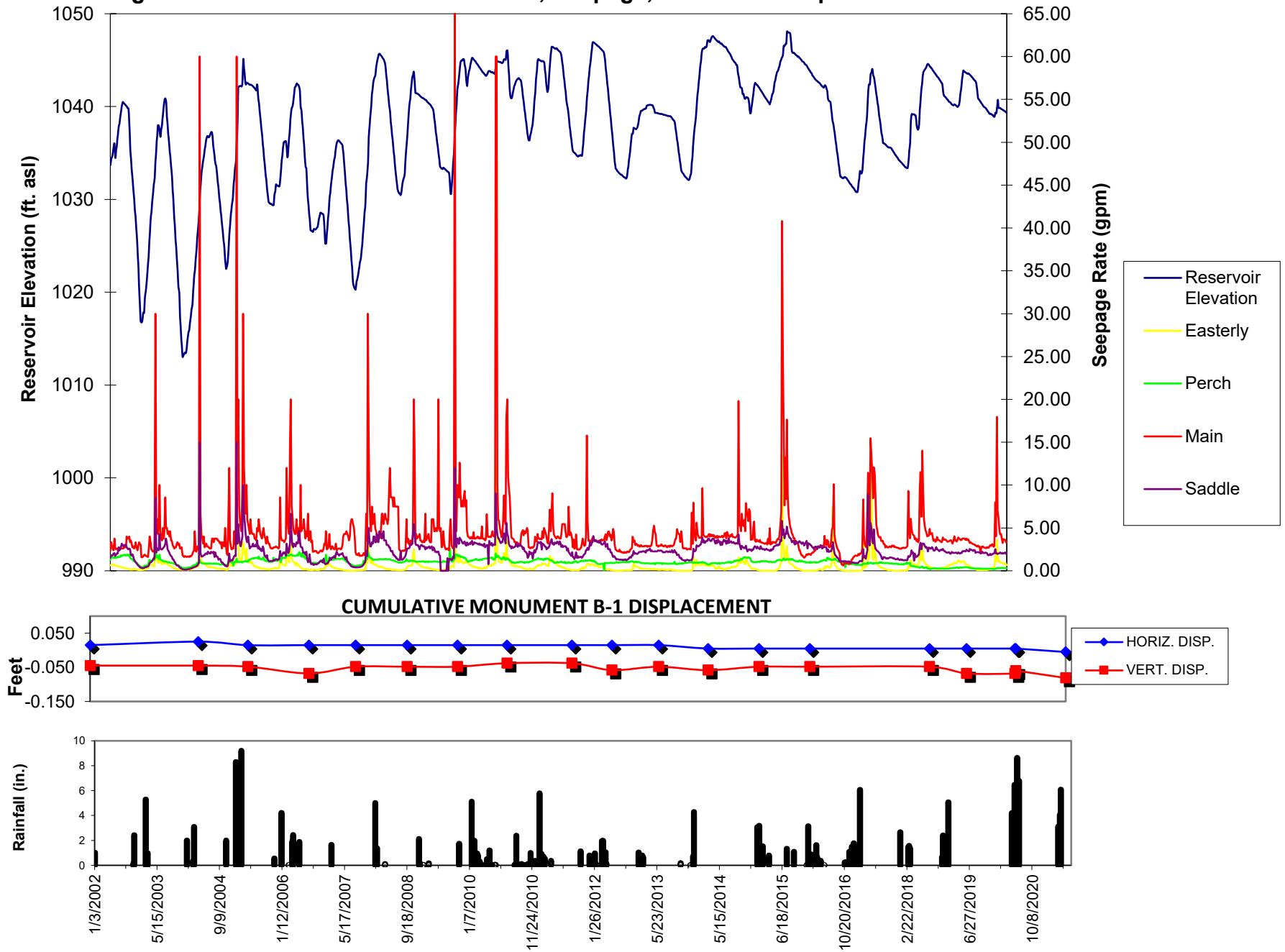
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



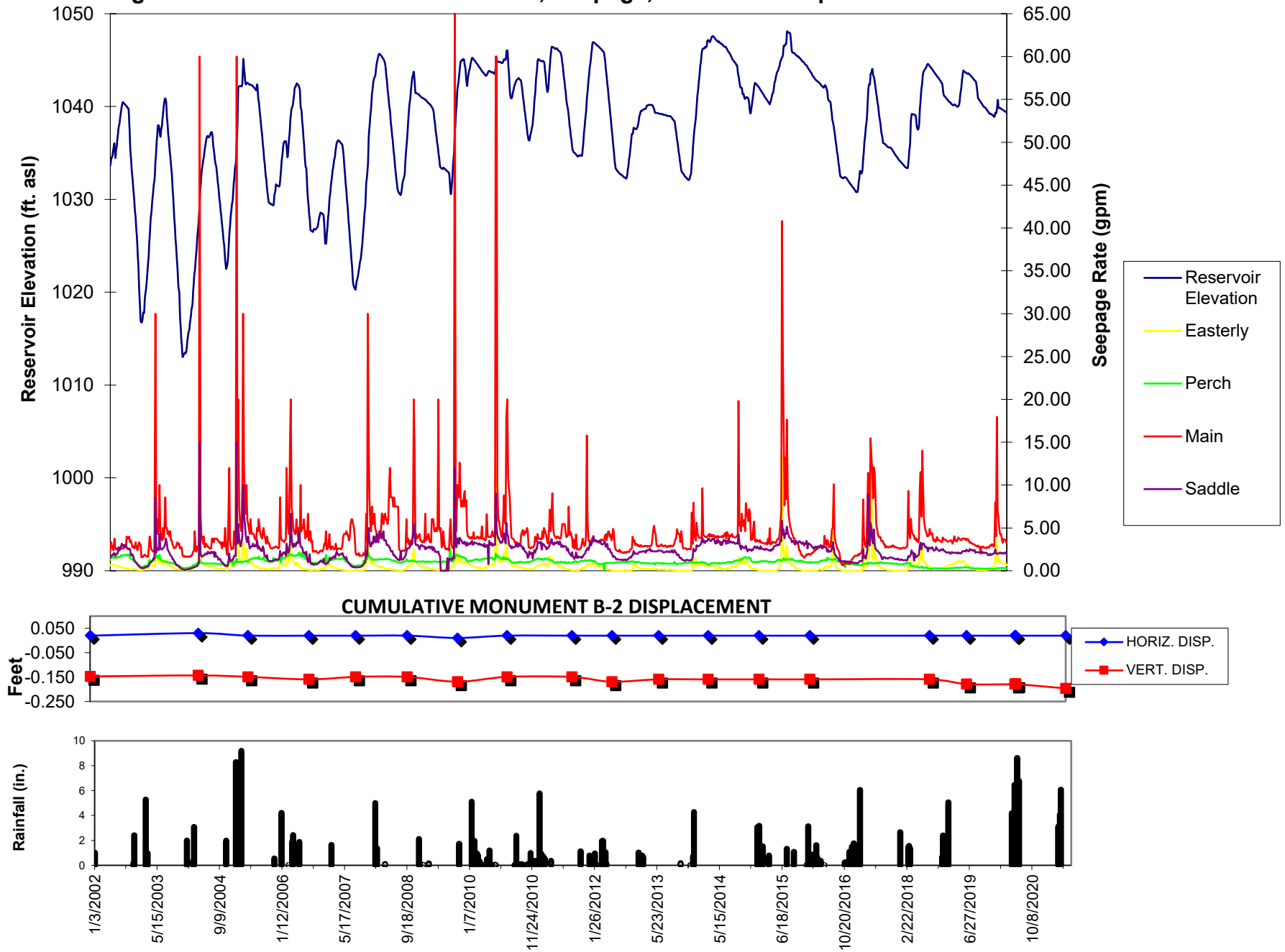
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



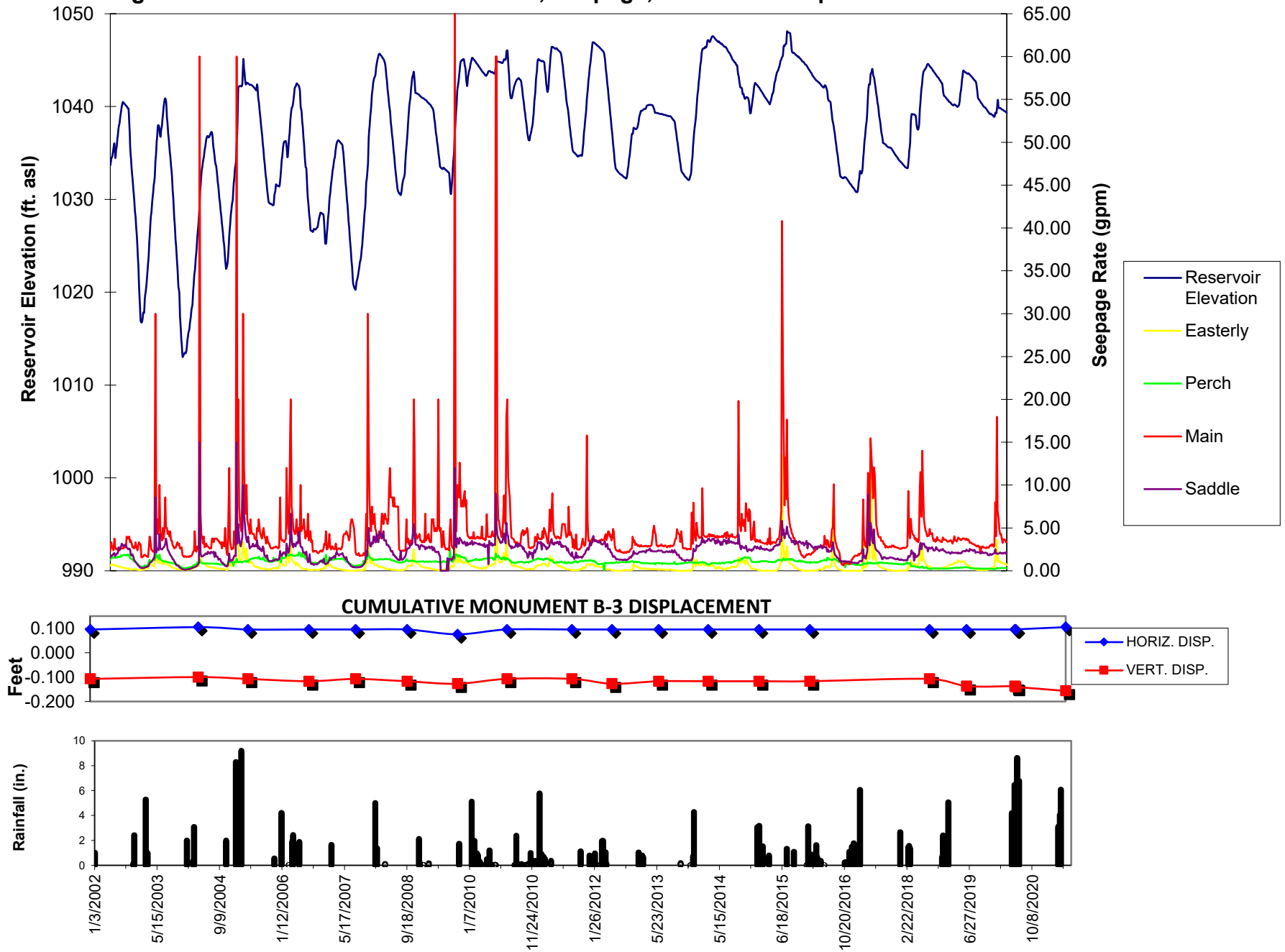
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Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



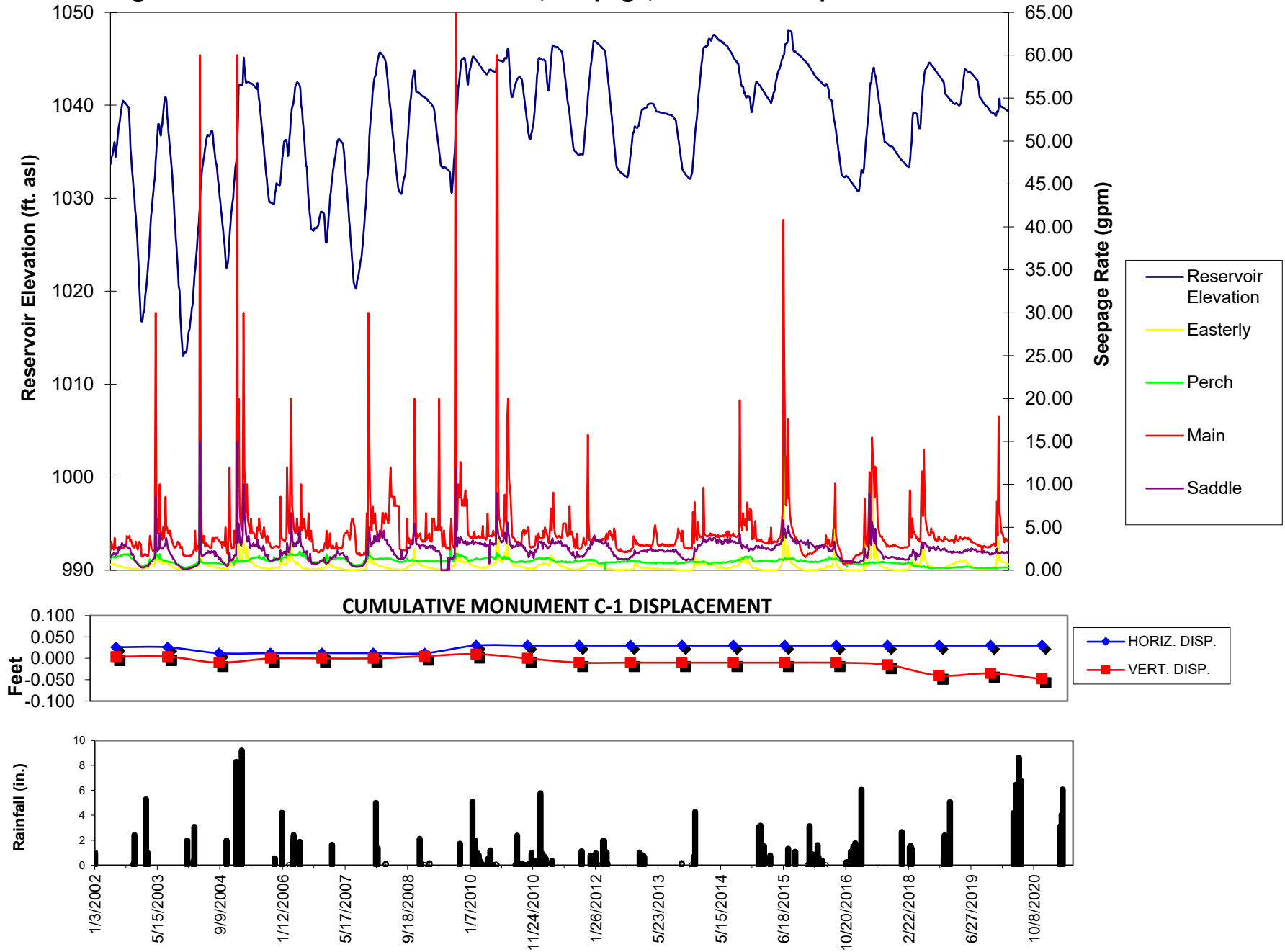
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



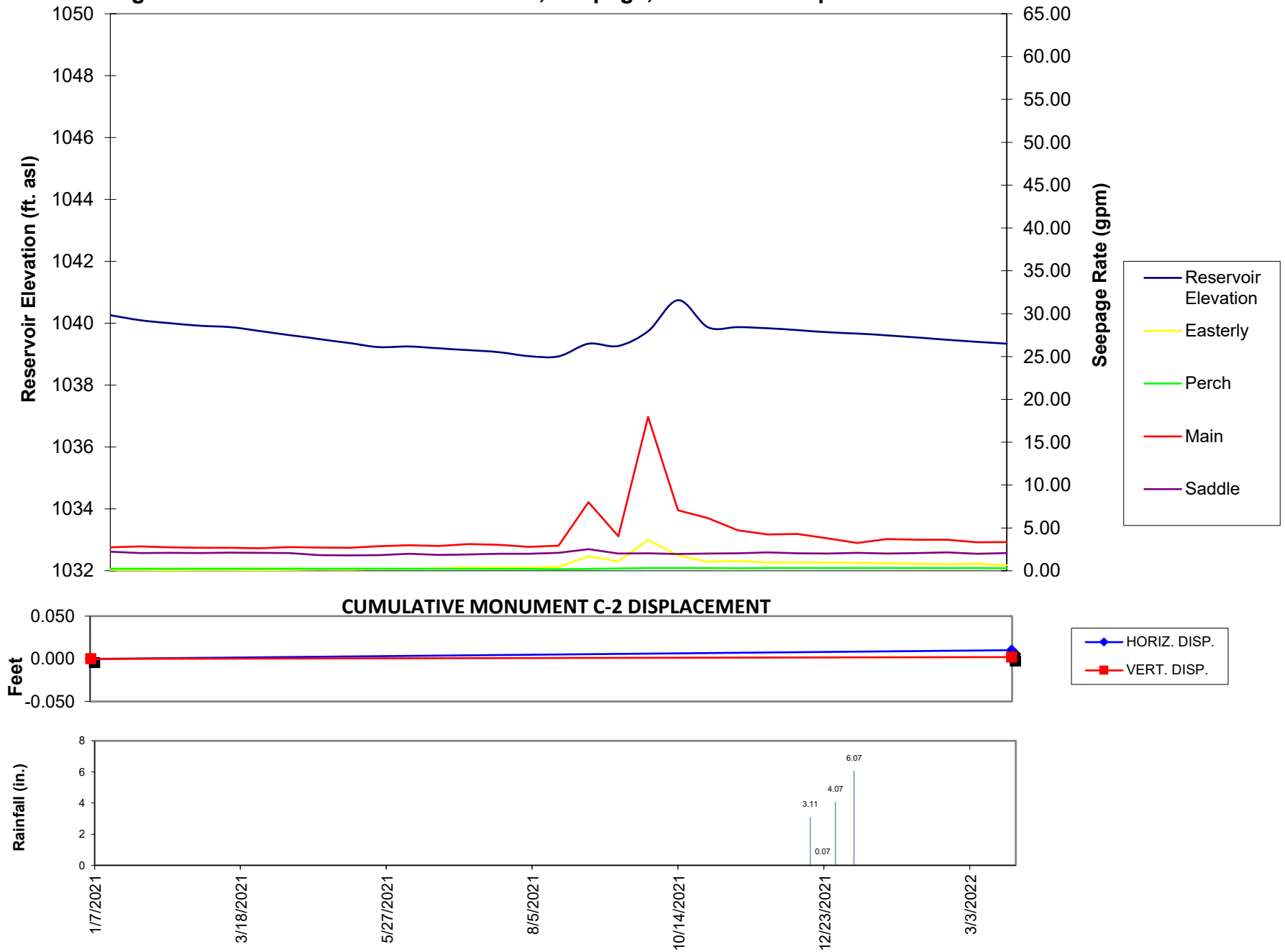
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

## Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



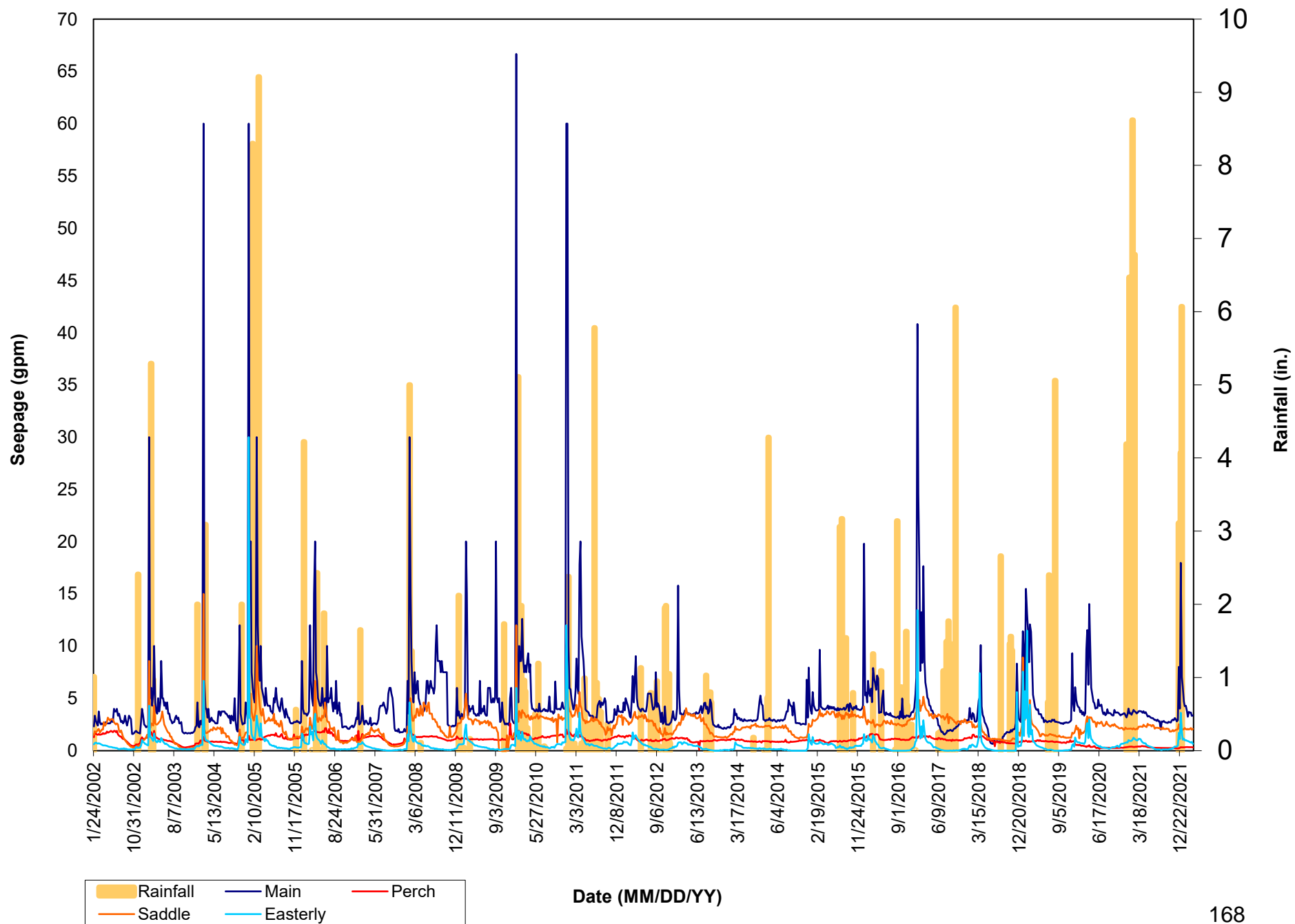
# A-5 LAS VIRGENES RESERVOIR: RESERVOIR ELEVATION, SEEPAGE, MONUMENT DISPLACEMENT, & RAINFALL

Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



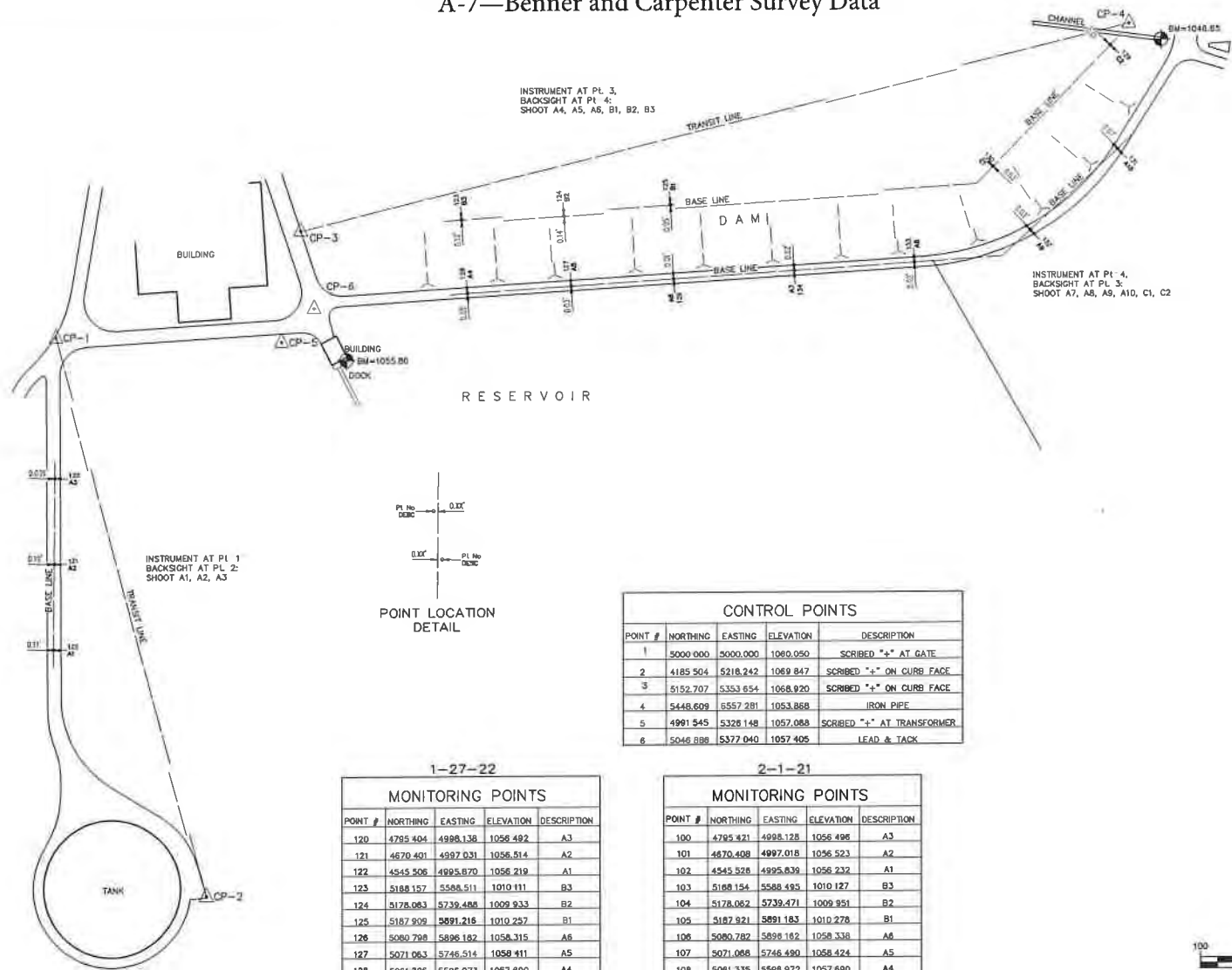
# A-6 LAS VIRGENES RESERVOIR: EASTERLY, PERCH, MAIN, & SADDLE DRAINS SEEPAGE

Las Virgenes Reservoir:  
Easterly, Perch, Main & Saddle Drains Seepage and Rainfall





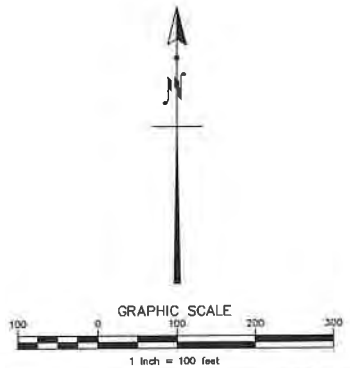
### A-7—Benner and Carpenter Survey Data



CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	5000.000	5000.000	1060.050	SCRIBED "+" AT GATE
2	4185.504	5218.242	1069.847	SCRIBED "+" ON CURB FACE
3	5152.707	5353.654	1068.920	SCRIBED "+" ON CURB FACE
4	5448.609	6557.281	1053.868	IRON PIPE
5	4991.545	5328.148	1057.088	SCRIBED "+" AT TRANSFORMER
6	5046.888	5377.040	1057.405	LEAD & TACK

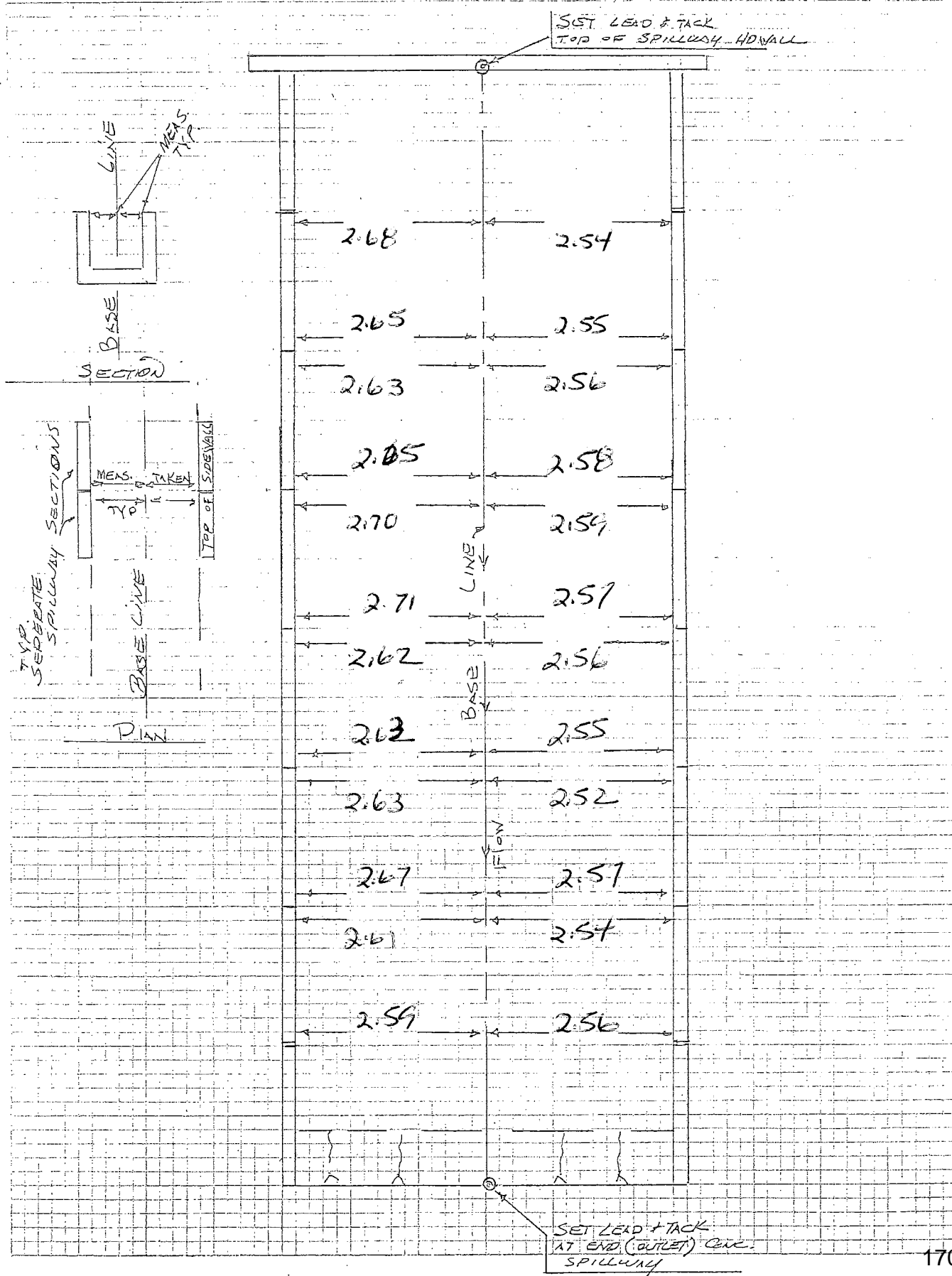
1-27-22 MONITORING POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
120	4795.404	4998.138	1056.482	A3
121	4670.401	4997.031	1056.514	A2
122	4545.506	4995.670	1056.219	A1
123	5188.157	5588.511	1010.111	B3
124	5178.083	5739.488	1009.933	B2
125	5187.909	5891.216	1010.257	B1
126	5080.798	5896.182	1058.315	A6
127	5071.083	5746.514	1058.411	A5
128	5081.335	5596.973	1057.890	A4
129	5416.795	8529.835	1035.222	C2
130	5241.430	6358.552	1010.872	C1
131	5266.292	6540.436	1057.150	A10
132	5149.052	6412.696	1057.570	A9
133	5103.591	6245.397	1057.566	A8
134	5092.163	6070.797	1057.712	A7

2-1-21 MONITORING POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	4795.421	4998.128	1056.496	A3
101	4670.408	4997.018	1056.523	A2
102	4545.528	4995.639	1056.232	A1
103	5188.154	5588.495	1010.127	B3
104	5178.062	5739.471	1009.951	B2
105	5187.921	5891.183	1010.278	B1
106	5080.782	5896.182	1058.338	A6
107	5071.088	5746.490	1058.424	A5
108	5081.335	5596.972	1057.890	A4
109	5416.800	8529.823	1035.224	C2
110	5241.459	6358.576	1010.885	C1
111	5286.304	6540.423	1057.159	A10
112	5149.069	6412.711	1057.586	A9
113	5103.585	6245.416	1057.587	A8
114	5092.154	6070.821	1057.740	A7



<b>SETTLEMENT CHECK MONITORING POINTS WESTLAKE DAM</b>			SHEET <b>1</b>
SCALE: 1"=100'	JOB No: 22-010	FILE: 221010SL.DWG	OF 1 SHEETS
DATE: 3/7/22	DATA: 22-010	DRAWN BY: LJF	

NOTES CALC'D BY: \_\_\_\_\_ CALC'S CHECKED BY: \_\_\_\_\_



## A-8 Shakemaps California Earthquake Archive 2021



### ShakeMap Archive

#### 2.75+ Magnitude Earthquakes in S. California Between January 2021-March 2022

Mag	Time	Latitude	Longitude	Location	Event ID
3.95	2021-01-04T18:04:59.600Z	33.1851667	-115.595	9km SW of Niland, CA	ci39510719
3.45	2021-01-04T18:05:30.460Z	33.1935	-115.5928333	9km SW of Niland, CA	ci37463485
3.52	2021-01-20T16:31:58.950Z	33.9186667	-118.2716667	2km W of Willowbrook, CA	ci39762912
3.53	2021-02-01T04:18:48.290Z	32.7506667	-115.8283333	16km E of Ocotillo, CA	ci39537399
3.74	2021-02-03T09:23:36.290Z	32.7516667	-115.8261667	16km E of Ocotillo, CA	ci39539439
3.45	2021-02-08T08:00:12.430Z	32.7456667	-115.8288333	15km E of Ocotillo, CA	ci39544719
3.82	2021-02-10T01:01:15.790Z	33.1753333	-115.6136667	11km WNW of Calipatria, CA	ci39546863
3.76	2021-02-10T01:27:09.840Z	33.1751667	-115.6113333	11km WNW of Calipatria, CA	ci39546975
3.02	2021-02-26T20:51:50.230Z	34.2698333	-118.7046667	3km E of Simi Valley, CA	ci39803176
2.94	2021-02-28T20:12:49.320Z	34.3261667	-116.9235	9km N of Big Bear Lake, CA	ci39805008
2.86	2021-03-01T06:17:09.090Z	34.1803333	-117.559	7km NNE of Rancho Cucamonga, CA	ci39805264
3.05	2021-03-20T22:49:23.210Z	34.0411667	-117.6045	2km ESE of Ontario, CA	ci39586079
2.95	2021-04-01T12:52:52.740Z	33.9841667	-118.2136667	1km ENE of Huntington Park, CA	ci39597271
3.29	2021-04-04T21:14:44.870Z	33.9661667	-116.978	4km N of Beaumont, CA	ci39838568
3.03	2021-04-05T11:15:37.460Z	33.9421667	-118.3348333	2km ENE of Lennox, CA	ci39838888
4	2021-04-05T11:44:01.950Z	33.9405	-118.3333333	2km E of Lennox, CA	ci39838928
3.64	2021-04-07T13:42:05.870Z	35.6096667	-117.4105	17km S of Trona, CA	ci39841832
3.73	2021-04-08T03:52:08.190Z	32.7753333	-115.4328333	6km SW of Holtville, CA	ci39842896
3.62	2021-04-08T20:51:15.140Z	35.6538333	-117.5496667	12km ENE of Ridgecrest, CA	ci39843952
3.44	2021-04-10T13:22:06.120Z	32.7705	-115.4393333	7km SW of Holtville, CA	ci39845832
3.54	2021-04-13T21:35:03.940Z	33.8063333	-116.0878333	15km NE of Indio, CA	ci39849144
3.45	2021-04-28T10:50:21.900Z	33.1628333	-116.3816667	10km S of Borrego Springs, CA	ci39632647
3.45	2021-05-09T01:55:40.450Z	33.8453333	-118.449	5km WSW of Hermosa Beach, CA	ci39645599
3.03	2021-05-09T09:09:33.800Z	34.0265	-117.2335	4km SE of Loma Linda, CA	ci39645767
3.31	2021-05-26T21:12:12.490Z	34.3426667	-119.6486667	10km SSE of Santa Barbara, CA	ci39905824
2.89	2021-05-31T14:03:38.900Z	33.937	-118.6676667	11km S of Malibu Beach, CA	ci39911368
3.16	2021-06-01T21:29:46.490Z	33.4596667	-116.8916667	3km NW of Aguanga, CA	ci39913520
3.55	2021-06-05T17:40:51.960Z	33.1301667	-115.6408333	10km N of Westmorland, CA	ci39919208
4.08	2021-06-05T17:45:16.380Z	33.1375	-115.64	11km N of Westmorland, CA	ci39919248
3.56	2021-06-05T17:46:26.060Z	33.1415	-115.6343333	11km W of Calipatria, CA	ci39919256
3.79	2021-06-05T17:46:39.500Z	33.134	-115.641	11km N of Westmorland, CA	ci39919264
3.89	2021-06-05T17:47:53.750Z	33.1481667	-115.6305	11km WNW of Calipatria, CA	ci39919280
3.88	2021-06-05T17:50:50.980Z	33.142	-115.639	12km N of Westmorland, CA	ci39919336
5.25	2021-06-05T17:55:58.820Z	33.14	-115.6348333	11km W of Calipatria, CA	ci39919392
4.29	2021-06-05T17:57:21.900Z	33.145	-115.6155	10km WNW of Calipatria, CA	ci39919400
3.4	2021-06-05T17:58:42.200Z	33.1366667	-115.6323333	11km W of Calipatria, CA	ci39919408
3.29	2021-06-05T17:59:06.170Z	33.1563333	-115.6333333	12km WNW of Calipatria, CA	ci39919416
2.85	2021-06-05T18:01:01.460Z	33.1468333	-115.6303333	11km WNW of Calipatria, CA	ci39919432
3.28	2021-06-05T18:01:04.460Z	33.1498333	-115.6261667	11km WNW of Calipatria, CA	ci39919440

2.9	2021-06-05T18:03:05.990Z	33.1415	-115.6315	11km W of Calipatria, CA	ci39919456
3.51	2021-06-05T18:03:40.050Z	33.15	-115.6138333	10km WNW of Calipatria, CA	ci39919472
4.09	2021-06-05T18:21:48.750Z	33.1513333	-115.6186667	10km WNW of Calipatria, CA	ci39919656
3.34	2021-06-05T19:05:31.380Z	33.1615	-115.6215	11km WNW of Calipatria, CA	ci39920064
3.61	2021-06-06T03:08:23.210Z	33.1506667	-115.6195	10km WNW of Calipatria, CA	ci39922408
3.81	2021-06-06T08:05:36.600Z	33.1855	-115.6395	13km WSW of Niland, CA	ci39923832
3.56	2021-06-07T05:44:35.620Z	33.1436667	-115.6266667	11km W of Calipatria, CA	ci39927264
3.52	2021-06-07T14:45:22.420Z	33.1843333	-115.6373333	13km WSW of Niland, CA	ci39927952
4.08	2021-06-07T21:08:28.590Z	33.1666667	-115.64	13km WNW of Calipatria, CA	ci39928664
3.61	2021-06-07T21:24:52.050Z	33.1583333	-115.6401667	12km WNW of Calipatria, CA	ci39928744
3.94	2021-06-12T04:27:34.880Z	33.2081667	-115.6498333	13km WSW of Niland, CA	ci39936128
3.85	2021-06-12T04:30:28.490Z	33.2068333	-115.6465	12km WSW of Niland, CA	ci39936136
4.32	2021-06-12T04:39:46.510Z	33.2066667	-115.647	12km WSW of Niland, CA	ci39936192
3.79	2021-06-12T04:40:23.030Z	33.2033333	-115.652	13km WSW of Niland, CA	ci39936208
3.61	2021-06-12T04:41:37.860Z	33.1956667	-115.6543333	14km WSW of Niland, CA	ci39936232
4.06	2021-06-12T04:49:38.280Z	33.206	-115.656	13km WSW of Niland, CA	ci39936288
3.79	2021-06-12T05:55:20.790Z	33.205	-115.6605	14km WSW of Niland, CA	ci39936648
3.45	2021-06-18T08:22:25.800Z	32.7073333	-115.8193333	17km E of Ocotillo, CA	ci39711255
3.57	2021-06-23T20:06:07.180Z	34.1468333	-116.4441667	4km NNW of Yucca Valley, CA	ci39716639
3.16	2021-06-24T00:08:35.500Z	33.9498333	-118.3946667	4km NNE of El Segundo, CA	ci39716863
2.92	2021-06-25T21:12:31.310Z	34.0815	-117.5586667	5km SSE of Rancho Cucamonga, CA	ci39719335
3.47	2021-07-03T04:58:09.560Z	35.5178333	-118.3781667	13km SE of Bodfish, CA	ci39727759
3.41	2021-07-03T08:22:25.550Z	34.1333333	-117.48	4km NNW of Fontana, CA	ci39727887
3.01	2021-07-03T09:47:11.730Z	34.2511667	-117.0985	5km NNE of Running Springs, CA	ci39727919
3.53	2021-07-06T02:38:01.000Z	35.6815	-117.5335	14km ENE of Ridgecrest, CA	ci39730287
3.05	2021-07-31T00:59:29.340Z	34.0356667	-117.212	4km SW of Redlands, CA	ci39759175
3.12	2021-08-05T06:51:30.990Z	33.7553333	-116.9853333	2km NW of Hemet, CA	ci39764447
3.39	2021-08-06T14:37:45.250Z	35.0406667	-119.0836667	18km NW of Grapevine, CA	ci39765679
3.98	2021-08-18T21:45:14.590Z	33.0733333	-115.9598333	18km ESE of Ocotillo Wells, CA	ci40014560
3.84	2021-08-18T21:50:22.940Z	33.0748333	-115.9675	17km ESE of Ocotillo Wells, CA	ci40014576
4.04	2021-08-23T14:57:23.620Z	33.139	-115.6413333	12km N of Westmorland, CA	ci40018784
4	2021-08-27T12:34:51.160Z	35.5151667	-118.3791667	13km SE of Bodfish, CA	ci40024128
3.62	2021-09-13T14:59:35.980Z	34.2278333	-118.8976667	5km NNW of Thousand Oaks, CA	ci39807135
2.87	2021-09-14T21:36:26.190Z	34.2418333	-117.4888333	2km SSE of Lytle Creek, CA	ci39808671
2.88	2021-09-15T00:57:35.490Z	34.2965	-118.4341667	1km NNE of San Fernando, CA	ci39808847
3.72	2021-09-17T12:51:58.300Z	32.4136667	-115.2061667	7km N of Delta, B.C., MX	ci39811695
4.28	2021-09-18T02:58:34.700Z	33.8313333	-118.2636667	2km E of Carson, CA	ci39812319
2.79	2021-09-18T06:06:09.940Z	33.8261667	-118.264	2km ESE of Carson, CA	ci39812479
3.42	2021-09-21T22:41:30.350Z	33.6348333	-116.7148333	10km NNW of Anza, CA	ci39815127
3.26	2021-09-21T22:57:32.310Z	33.6346667	-116.7108333	10km NNW of Anza, CA	ci39815335
3.44	2021-09-24T19:28:15.220Z	35.6053333	-117.4695	19km E of Ridgecrest, CA	ci39818327
3.68	2021-10-02T01:42:20.500Z	35.0691667	-118.321	14km W of Mojave, CA	ci40061064
3.55	2021-10-24T06:49:12.020Z	32.9675	-115.876	25km WSW of Westmorland, CA	ci39841127
3.61	2021-10-24T14:01:02.280Z	34.0168333	-118.1973333	3km WSW of East Los Angeles, CA	ci39841223
3.17	2021-12-04T09:20:01.850Z	32.5831667	-115.2921667	6km ENE of Puebla, B.C., MX	ci39878511
3.62	2021-12-08T10:28:04.820Z	34.2005	-117.5068333	7km S of Lytle Creek, CA	ci39882375
3.49	2021-12-09T06:38:13.660Z	34.3185	-119.4526667	11km SE of Carpinteria, CA	ci39883351
2.93	2021-12-18T19:16:20.020Z	34.0473333	-117.0453333	2km N of Yucaipa, CA	ci40130624
3.38	2021-12-31T19:27:58.900Z	34.0346667	-117.208	3km SW of Redlands, CA	ci39900159
3.92	2022-01-03T02:34:48.200Z	35.284	-119.3906667	15km SSE of Buttonwillow, CA	ci39901519
3.56	2022-01-08T06:21:31.650Z	34.4365	-118.9911667	8km WNW of Fillmore, CA	ci39905711
3.86	2022-01-13T03:19:08.700Z	33.4688333	-116.443	23km ESE of Anza, CA	ci39910255

3.19	2022-01-17T00:02:29.990Z	34.4386667	-119.2985	5km WSW of Ojai, CA	ci39914199
3.45	2022-01-18T07:39:15.120Z	33.8255	-116.7506667	10km NNW of Idyllwild, CA	ci39915287
3.51	2022-01-27T10:51:22.330Z	35.0445	-118.9958333	13km NNW of Grapevine, CA	ci39924871
4	2022-01-30T17:46:26.970Z	33.3355	-116.9146667	5km WSW of Palomar Observatory, CA	ci39928087
3.26	2022-02-01T17:26:16.480Z	33.949	-118.2048333	1km SE of South Gate, CA	ci39929895
3.62	2022-02-06T23:24:47.510Z	33.7323333	-117.4786667	13km NE of Trabuco Canyon, CA	ci40178728
3.86	2022-02-11T00:25:02.020Z	34.4171667	-119.1323333	10km NW of Santa Paula, CA	ci40182560
3.17	2022-02-14T16:41:35.260Z	34.3891667	-118.6415	10km SW of Valencia, CA	ci40185640
3.98	2022-02-27T01:44:18.300Z	34.4211667	-119.132	10km NW of Santa Paula, CA	ci40194736
3.05	2022-02-27T04:44:34.540Z	34.4221667	-119.136	10km ESE of Ojai, CA	ci40194848

**DEPARTMENT OF WATER RESOURCES**

P.O. BOX 942836  
SACRAMENTO, CA 94236-0001  
(916) 653-5791



July 6, 2022

Mr. David W. Pedersen, General Manager  
Las Virgenes Municipal Water District  
4232 Las Virgenes Road  
Calabasas, California 91302

Westlake Reservoir, No. 1073  
Los Angeles County

Dear Mr. Pederson:

Thank you for the surveillance data transmitted to the Division of Safety of Dams (DSOD) on April 18, 2022. DSOD collects this information to monitor ongoing conditions for dam safety in accordance with Division 3, Part 1, Chapter 4, sections 6101 and 6102.5(b) of the California Water Code. DSOD has reviewed the data and has the following comment:

- Please address all future correspondence with DSOD to Sharon K. Tapia, Division Manager.

Thank you for your cooperation. If you have any questions or need additional information, you may contact Area Engineer Cameron Lancaster at (916) 565-7830 or me at (916) 565-7827.

Sincerely,

*Rick Draeger*

Rick G. Draeger, Regional Engineer  
Southern Region  
Field Engineering Branch  
Division of Safety of Dams

STATE OF CALIFORNIA  
 CALIFORNIA NATURAL RESOURCES AGENCY  
 DEPARTMENT OF WATER RESOURCES  
 DIVISION OF SAFETY OF DAMS

**INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS**

Name of Dam Westlake Reservoir Dam No. 1073 County Los Angeles  
 Type of Dam Earth Type of Spillway Concrete weir and channel  
 Water is 8.9 feet below spillway crest and 16.9 feet below dam crest.

Weather Conditions Moderate  
 Contacts Made Steve Jackson with Las Virgenes Municipal Water District  
 Reason for Inspection Periodic Maintenance Inspection

**Important Observations, Recommendations or Actions Taken**

- Rodent control was satisfactorily increased as previously requested.
- The five upstream 36" butterfly valves were fully cycled.
- The corroded bolts, nuts, valve, and piping in the downstream valve vault are recommended to be cleaned and re-coated with protective paint.
- Updated instrumentation data was reviewed.

**Conclusions**

From the known information and visual inspection, the dam, reservoir, and the appurtenances are judged safe for continued use.

**Observations and Comments**

**Dams**

There is a Saddle Dam and a Main Dam at Westlake Reservoir. The crest of the Saddle Dam appeared to be well-aligned, level, and in satisfactory condition. The upstream and downstream slopes of the Saddle Dam appeared uniform and in satisfactory condition. Vegetation and rodent control appeared adequate.

The crest of the Main Dam also appeared to be well-aligned, level, and in satisfactory condition. The visible portion of the rip-rap rock protected upstream slope appeared to be uniform, stable and in satisfactory condition. The downstream slope appeared uniform with no signs of any instability. Vegetation control was satisfactory and is maintained regularly. During the last inspection, rodent control was requested to be increased. Rodent control measures appeared to have been implemented satisfactorily as no fresh rodent activity was detected. Bait stations are strategically placed on the embankment.

**Spillway**

The approach, weir, channel, and exit to the spillway were open and clear. The small offsets (about 0.5 inches) of the channel wall joints appeared unchanged as documented in past reports.

**Outlet**

The outlet consists of five upstream 36" butterfly valves, and a 39" butterfly blowoff valve and 8" gate valve located in the downstream vault. All the valves are routinely cycled multiple times a year. All of the upstream valves were fully cycled during this inspection. The 39" butterfly blowoff and the 8" gate valves were fully cycled in our presence during the March 11, 2020 inspection. The downstream valves were last exercised on September 13, 2021. Loosening of the collar bolts or bulkhead are no longer recommended to be exercised as modern tools can easily detach the bulkhead prior to an emergency. The corroded bolts, nuts, valve, and piping in the downstream valve vault are recommended to be cleaned and re-coated with protective paint.

Photos taken? Yes X No \_\_\_\_\_  
 cc for Owner/Files

*cmf* 12/16/2021

Inspected by Joe Boyce *JB* 12/16/2021  
 Date of Inspection 11/16/2021  
 Date of Report 12/10/2021

*RB* 12/16/2021

**INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS**Name of Dam Westlake Reservoir Dam No. 1073Date of Inspection 11/16/2021**Observations and Comments**Seepage

There was no seepage detected on the downstream slopes, groins, or downstream toe areas. Seepage from the weirs was measured by bucket and stop watch with the following flows:

Main Embankment Drain	3.0 gpm
Perch Drain	0.2 gpm
Easterly Embankment Drain	0.4 gpm
Saddle Dam Drain	2.0 gpm

All recorded seepage flows were clear and normal.

Instr.

The instrumentation for this dam consists of 14 monuments (10 on the Main Dam, 3 on the Saddle Dam, 1 at Spillway), 4 seepage drains, precipitation, and reservoir elevations. The latest instrumentation submittal was dated April 28, 2021 and includes the latest survey taken on January 26, 2021.

The surveying data shows small deflections comparing the 2020 and 2021 surveys. There were no movements detected between the two surveys in the horizontal direction for any of the monuments. Vertical deflections were within 0.01 feet at the Main Dam and within 0.025 feet at the spillway. The three monuments on the Saddle Dam showed no changes in the vertical or horizontal directions. The historical survey charts show no unusual trends or conditions.

The seepage data showed peak drain flows under 15 gpm for the Main Drain, under 4 gpm for the Saddle Drain, and under 1 gpm for the Perch and Easterly Drains during the largest precipitation event over the last few years. No unusual trends or conditions are presented in the seepage data.

The instrumentation for this dam is performing satisfactorily and no new instrumentation is needed at this time.



## INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Westlake Reservoir

Dam No. 1073

Date of Inspection 11/16/2021



The crest and downstream slope of the Main Dam.



The upstream slope of the Main Dam.

## INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Westlake Reservoir

Dam No. 1073

Date of Inspection 11/16/2021



Looking down the crest of the Saddle Dam.



The approach to the spillway was clear.

## INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Westlake Reservoir Dam No. 1073

Date of Inspection 11/16/2021



The misalignment to the spillway wall joints appeared unchanged.



End of the spillway channel looking upstream.

## INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Westlake Reservoir Dam No. 1073

Date of Inspection 11/16/2021



Corroded items in the downstream valve vault recommended to be cleaned and re-coated.



**DATE:** October 6, 2022  
**TO:** Board of Directors  
**FROM:** Engineering and External Affairs

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**SUBJECT: LVUSD 4th and 5th Grade Science Team Water-Related Curriculum: Two-Year Grant Agreement**

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**SUMMARY:**

For many years, the District has awarded funding to the Las Virgenes Unified School District (LVUSD), in the annual amount of \$107,000, for its 4th and 5th grade science classes to include curriculum on water and its sources, supply reliability, District facilities and systems, general water education, climate change and sustainability. The partnership between the District and LVUSD has been very successful, and the positive impact to the region's students is undeniable. Staff recommends that the Board authorize a two-year grant agreement with LVUSD to continue the partnership for calendar years 2022 and 2023 and appropriate an additional \$107,000 in the Fiscal Year 2022-23 Budget for payment of the second installment in early 2023.

**RECOMMENDATION(S):**

Authorize the General Manager to execute a two-year grant agreement with Las Virgenes Unified School District, in the total amount of \$214,000, and appropriate an additional \$107,000 in the Fiscal Year 2022-23 Budget for the 4th and 5th Grade Science Team water-related curriculum.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

The total cost of the grant is \$214,000 for a two-year period. The adopted Fiscal Year 2022-23 Budget included \$107,000 for payment of the 2022 installment. An additional appropriation of \$107,000 is required to allow for payment of the second installment in early 2023.

**DISCUSSION:**

The District has annually awarded the Las Virgenes Unified School District (LVUSD) a grant, in the amount of \$107,000, to fund its 4th and 5th grade water education curriculum; however, impacts from COVID-19 and staff turnover at LVUSD resulted in delays for the end-of-year fiscal reporting for the 2021-22 school year. District staff eventually received the final report, and the new agreement reflects a two-year period for calendar years 2022 and 2023. The grant funds being awarded for calendar year 2022 will reimburse LVUSD for costs already incurred that were directly expended for the water-related curriculum. Grant funds for 2023 will be disbursed in January 2023.

The water curriculum is critical and unique to the educational experience of the students who learn at an early age the significance of water, its value as a limited natural resource, long-term water supply reliability and the importance of serving as stewards of the environment. At the end of the school year, the District will resume inviting LVUSD representatives to a Board meeting to showcase the activities of the students and summarize the accomplishments of the program.

**GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Riki Clark, Public Affairs Associate II

**ATTACHMENTS:**

[Proposed Two-Year Grant Agreement](#)

**LAS VIRGENES MUNICIPAL WATER DISTRICT**

**SCIENCE TEAM WATER RELATED CURRICULUM FOR 4<sup>TH</sup> AND 5<sup>TH</sup> GRADES  
EDUCATION GRANT AGREEMENT**

The Science Team Water Related Curriculum for 4<sup>th</sup> and 5<sup>th</sup> Grades Education Grant Agreement (“Agreement”), entered into on this XX day of October, 2022 (“Execution Date”) by and between the LAS VIRGENES MUNICIPAL WATER DISTRICT (“District”), and LAS VIRGENES UNIFIED SCHOOL DISTRICT (“Grantee”), is made with reference to the following:

**RECITALS:**

A. The District’s mission is to provide high-quality water service in a cost-effective and environmentally sensitive manner.

B. One of the District’s strategic objectives is to “Support customers to meet water-use efficiency standards.” To address this strategic objective, the District is committed to targeted outreach and education.

C. The District desires to fund a range of educational activities for the Science Team Water Related Curriculum for 4<sup>th</sup> and 5<sup>th</sup> grades to benefit the District’s water use efficiency goals.

NOW, THEREFORE, it is mutually agreed by and between the undersigned parties as follows:

**1. RECITALS.**

The above recitals are true and correct and are incorporated by this reference.

**2. TERM OF AGREEMENT.**

The term of this Agreement shall be from January 1, 2022 to December 31, 2023, unless a shorter term is specified in the Special Grant Conditions (Exhibit A) attached hereto and made part hereof by reference.

District may terminate this contract at any time for any reason within its sole discretion.

**3. SERVICES TO BE PERFORMED BY GRANTEE.**

A. Grantee shall in a proper and satisfactory manner as determined by District, implement, operate, conduct and perform services as specified in this Agreement and Exhibit A.

B. The General Manager, or his/her designee, may modify or amend Exhibit A if the modification:

1. does not change the program concept as approved by the Las Virgenes Municipal Water District board;
2. does not exceed twelve (12) calendar months from the Execution Date; and
3. will not change the essential purpose of this Agreement.

#### **4. DISTRICT REVIEW OF GRANTEE'S PERFORMANCE.**

A. The District shall have the right to monitor, evaluate, and provide guidance to Grantee to ensure proper performance of this Agreement, and Grantee shall fully cooperate in such activities. District's provision of guidance shall not limit or diminish Grantee's responsibilities.

B. Grantee shall allow duly authorized agents or employees of the District to inspect or receive proof of service, during normal business hours, those records, books, accounts, documents, papers and other items of property of Grantee in order to evaluate Grantee's performance.

C. The District may interview or otherwise communicate with any employee or agent of Grantee during normal business hours or at other mutually agreed upon times regarding Grantee's performance. Grantee agrees to cooperate with District in arranging the communications.

#### **5. GRANT AMOUNT, COMPENSATION AND METHOD OF PAYMENT.**

A. The District shall pay Grantee the grant award as specified in Exhibit B, Budget and Payment Schedule, attached to this Agreement and incorporated by reference, for services performed and/or in advancement of services as specified in this Agreement.

B. The District will disburse grant funds to Grantee in two (2) installments as follows:

1. Fifty percent (50%) of total grant funds (\$107,000) upon execution of this Agreement.
2. Fifty percent (50%) of total grant funds (\$107,000) in January 2023.

C. The District may, at its sole discretion, seek reimbursement of grant awards at any time if Grantee violates this Agreement.

D. The District may, at its sole discretion, adjust the grant award if the period of program services pursuant to this Agreement is less than the term specified in this Agreement, if the program purpose is significantly changed, or if Grantee ceases to exist.

E. Grantee agrees to appropriate and disburse the grant funds and incur costs and expenses according to this Agreement and Exhibit A, and any modifications thereto.



**6. FISCAL ACCOUNTABILITY AND REVIEW.**

A. Grantee shall implement an accounting system that is in accordance with generally accepted accounting principles and standards. All expenditures shall be supported by properly executed payroll, time records, invoices, contracts, vouchers, orders or other accounting documents pertaining in whole or in part to this Agreement, and shall be clearly identified and readily accessible to District personnel or agents.

B. The District or its agent may conduct such fiscal reviews as District, at its sole discretion, may deem necessary to ascertain Grantee's fiscal integrity and compliance with this Agreement and all applicable laws, regulations and funding requirements. Grantee agrees to fully cooperate with District or its agent in any fiscal review and shall, upon request, make Grantee's business and financial records available for inspection, review and copying by District or its agent.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed the day and year first above written.

LAS VIRGENES MUNICIPAL WATER DISTRICT

By: \_\_\_\_\_

DAVID PEDERSEN  
GENERAL MANAGER

Grantee: LAS VIRGENES UNIFIED SCHOOL DISTRICT

By: \_\_\_\_\_

DR. RYAN GLEASON  
ASSISTANT SUPERINTENDENT,  
BUSINESS SERVICES

## EXHIBIT A

### SPECIAL GRANT CONDITIONS

Grantee: Las Virgenes Unified School District

Grant Award: \$107,000.00 per year for two (2) years: \$214,000 total

The grant funds shall be utilized for the basic operational expenses of the grantee as set forth in its Proposal and approved by the Las Virgenes Municipal Water District. Below are the proposed objectives the funds may be used all or partially for:

#### 4<sup>th</sup> Grade:

- Pre-test LVMWD water test or Water Gameboard
- Conservation of water
- Water awareness art contest
- Environmental Stewardship
- Every Drop Counts
- California Aqueduct
- Backwards map: Water from tap to mountain - The Journey your Water Takes
- Hydropower and energy transfer
- Water Erosion/Watershed
- Eco-Science - watershed/conservation, pH analysis, organisms in pond water
- Water Reuse
- Post-test LVMWD water test

#### 5<sup>th</sup> Grade:

- Pre-test LVMWD water test or Water Gameboard
- Properties of water
- Chemistry of solubility, water compound and particles & states of matter
- Substance of survival.
- Hydroponic seed growth
- Water in the ecosystem
- The Water Cycle
- The Water on Our Planet - Every Drop Counts
- Water Reuse
- Interaction of Hydrosphere, geosphere, atmosphere, biosphere
- Graphing water distribution
- Recognizing water as a limited resource

- Conservation of water
- California Aqueduct Virtual Tour by LAMWD

**EXHIBIT B**

**BUDGET AND PAYMENT SCHEDULE**

Grantee: Las Virgenes Unified School District

**TOTAL TO GRANTEE: \$107,000.00 per calendar year for (2) years totaling \$214,000.00 for the term of the Agreement.**

Payments will be made in accordance to the following schedule:

100% of calendar year 2022 funds awarded upon execution of Agreement by District and Grantee and delivery of an invoice with adequate documentation of services performed.

100% of calendar year 2023 funds awarded in advance of District initiatives in January 2023.