

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

AGENDA
REGULAR MEETING
February 1, 2022, 9:00 AM

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 offering 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 Zoom Webinar ID:

Webinar ID: <https://us06web.zoom.us/j/86873064094>

To join by telephone, please dial (669) 900-6833 or (346) 248-7799 and enter Webinar ID: 868 7306 4094

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. In addition, members of the public can submit written comments electronically for consideration at www.LVMWD.com/LiveStream. To ensure distribution to the members of the Las Virgenes Municipal Water District Board of Directors prior to consideration 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 Assistant/Clerk of the Board, at (818) 251-2123 or 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 implementation thereof. Any person who requires a disability-related modification or accommodation, in order to observe and/or other public comment may request such reasonable 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 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.

The Public Comments agenda item is presented to allow the public to address the Board on matters not on the agenda. The public may also present comments on matters on the agenda; speakers for agendized items will be recognized at the time the item is called up for discussion.

Materials prepared by the District in connection with the subject matter on the agenda are available for public inspection at 4232 Las Virgenes Road, Calabasas, CA 91302. Materials prepared by the District and distributed to the Board during this meeting are available for public inspection at the meeting or as soon thereafter as possible. Materials presented to the Board by the public will be maintained as part of the records of these proceedings and are available upon request to the Clerk of the Board.

PLEDGE OF ALLEGIANCE

1 CALL TO ORDER AND ROLL CALL

2 APPROVAL OF AGENDA AND APPROVAL OF FINDINGS OF RESOLUTION NO. 2603 (AB 361)

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.

A **List of Demands: February 1, 2022 (Pg. 5)**
Receive and File

B **Minutes: Regular Meeting of January 18, 2022 (Pg. 35)**

Approve

C Drought and Water Supply Conditions Update (Pg. 43)

Receive and File

D Budget Planning Calendar for Fiscal Years 2022-24 (Pg. 49)

Receive and file the Budget Planning Calendar for Fiscal Years 2022-24.

E Monthly Cash and Investment Report: December 2021 (Pg. 52)

Receive and file the Monthly Cash and Investment Report for December 2021.

5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Legislative and Regulatory Updates

6 TREASURER

7 BOARD OF DIRECTORS

A Authorization of Woolsey Fire Relief for 1709 Lechusa Drive (Pg. 67)

Authorize the General Manager to apply the Woolsey Fire relief to offset the cost for upgrade from a 3/4-inch meter to a one-inch meter at 1709 Lechusa Drive.

8 FINANCE AND ADMINISTRATION

A Potable Water Standby Charge: Adoption (Pg. 71)

Waive the full reading and give second reading by title only; pass, approve and adopt proposed Ordinance No. 284 as it relates to continuation of the Potable Water Replacement Fund Standby Charge for Fiscal Year 2022-23; and order publication within 15 days of adoption using a summary of the Ordinance.

ORDINANCE NO. 284 (SECOND READING AND ADOPTION)

AN ORDINANCE OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AS IT RELATES TO STANDBY CHARGES FOR THE FISCAL YEAR COMMENCING JULY 1, 2022

(Reference is hereby made to Ordinance No. 284 on file in the District's Ordinance Book and by this reference the same is incorporated herein.)

9 ENGINEERING AND EXTERNAL AFFAIRS

A Stationary Emergency Generators for Critical Potable Water Pump Stations Project: Award (Pg. 75)

Award a construction contract to Eco Energy Solutions, Inc., dba High Volt Electric, in the amount of \$1,948,130; and reject all remaining bids upon receipt of the duly executed contract documents.

B Las Virgenes Reservoir (Westlake) Dam Settlement Report (Pg. 80)

Receive and file the 2021 Las Virgenes Reservoir Dam Settlement Report.

10 **NON-ACTION ITEMS**

A **Organization Reports**

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

C **General Manager Reports**

(1) General Business

(2) Follow-Up Items

D **Director's Comments**

11 **FUTURE AGENDA ITEMS**

12 **PUBLIC COMMENTS**

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13 **CLOSED SESSION**

A **Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):**

National Fire & Marine Insurance Company as Subrogee for Knight-Calabasas LLC v. Las Virgenes Municipal Water District

B **Conference with Labor Negotiator (Government Code Section 54957.6):**

Agency Designated Representatives: David W. Pedersen, General Manager; Donald Patterson, Director of Finance and Administration; and Sophia Crocker, Human Resources Manager

Employee Organization: General and Office Units represented by Service Employees International Union (SEIU), Local 721

14 **OPEN SESSION AND 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 : February 1, 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. 103059 through 103146 were issued in the total amount of **\$ 429,949.93**

Payments through wire transfers as follows:

1/31/2022 Metropolitan Water District Payment for water deliveries in the month of November 2021	1,728,881.10	
Sub-Total Wires	<u>\$ 1,728,881.10</u>	
Total Payments		<u>\$ 2,158,831.03</u>

(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
02/01/22**

Company Name	Company No.	Check No. 103059 thru 103091 01/19/22	Check No. 103092 thru 103146 01/25/22	Total
		Amount	Amount	
Potable Water Operations	101	10,222.07	77,555.77	87,777.84
Recycled Water Operations	102			-
Sanitation Operations	130	3,051.30	1,020.43	4,071.73
Potable Water Construction	201			-
Water Conservation Construction	203			-
Sani- Construction	230			-
Potable Water Replacement	301	4,973.60	18,429.54	23,403.14
Reclaimed Water Replace	302			-
Sanitation Replacement	330			-
Internal Service	701	36,682.71	90,715.60	127,398.31
JPA Operations	751	63,524.88	123,174.03	186,698.91
JPA Construction	752			-
JPA Replacement	754	525.00	75.00	600.00
Total Printed		118,979.56	310,970.37	429,949.93
Net Total		118,979.56	310,970.37	429,949.93

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
103059	01/19/2022	PRTD	19269 ACC BUSINESS	213496254	12/27/2021		011822	1,872.20
			Invoice: 213496254					
					187.22 101600 540520		INTERNET 11/11-12/10	
					187.22 751820 540520		Telephone	
					561.66 751810 540520		Telephone	
					468.05 701001 540520		Telephone	
					468.05 701002 540520		Telephone	
							CHECK 103059 TOTAL:	1,872.20
103060	01/19/2022	PRTD	17361 ACCURATE FIRST AID SERVICES	B-42174	07/12/2021		011822	190.26
			Invoice: B-42174				FIRST AID SITE SRV-HQ-7/12/21	
					190.26 701430 680000		Safety	
			Invoice: B-42175					
			ACCURATE FIRST AID SERVICES	B-42175	07/12/2021		011822	172.90
					172.90 701430 680000		FIRST AID SITE SRV-OPS-7/12/21	
							Safety	
			Invoice: B-42345					
			ACCURATE FIRST AID SERVICES	B-42345	10/11/2021		011822	172.67
					172.67 701430 680000		FIRST AID SITE SRV-WLK-10/11/21	
							Safety	
			Invoice: B-42346					
			ACCURATE FIRST AID SERVICES	B-42346	10/11/2021		011822	243.80
					243.80 701430 680000		FIRST AID SITE SRV-HQ-10/11/21	
							Safety	
			Invoice: B-42347					
			ACCURATE FIRST AID SERVICES	B-42347	10/11/2021		011822	186.97
					186.97 701430 680000		FIRST AID SITE SRV-OPS-10/11/21	
							Safety	
			Invoice: B-42407					
			ACCURATE FIRST AID SERVICES	B-42407	11/10/2021		011822	460.83
					460.83 701430 680000		FIRST AID SITE SRV-TAPIA-11/10/21	
							Safety	
			Invoice: B-42408					
			ACCURATE FIRST AID SERVICES	B-42408	11/10/2021		011822	309.71
					309.71 701430 680000		FIRST AID SITE SRV-RLV-11/10/21	
							Safety	
							CHECK 103060 TOTAL:	1,737.14
103061	01/19/2022	PRTD	3077 AIRGAS USA, LLC	9985500237	12/31/2021		011822	295.03
			Invoice: 9985500237				DEC'21 CYLINDER RENT	
					295.03 701002 551500		Outside Services	
							CHECK 103061 TOTAL:	295.03
103062	01/19/2022	PRTD	19264 ARNOLD LAROCHELLE MATHEWS VANCONA	4696	01/10/2022		011822	475.00
			Invoice: 4696				JPA COUNSEL SRV-DEC'21	
					475.00 751840 687200		Outside Services	

A/P CASH DISBURSEMENTS JOURNAL

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 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 103062 TOTAL:	475.00
103063	01/19/2022	PRTD	30228 BROADCAST2WORLD INC	B2W/21-22/166	01/06/2022		011822	4,500.00
			Invoice: B2W/21-22/166				ANIMATED VIDEO PRODUCTION-50% Public Education Programs	
			4,500.00	701230	660400		CHECK 103063 TOTAL:	4,500.00
103064	01/19/2022	PRTD	2516 CALIFORNIA ASSOC. OF SANI AGENCIE 5758		12/01/2021		011822	20,500.00
			Invoice: 5758				MEMBERSHIP DUES 2022 Dues, Subsc & Memberships	
			20,500.00	701122	710500		CHECK 103064 TOTAL:	20,500.00
103065	01/19/2022	PRTD	21655 CATALYST DIVING	10142021-1	10/14/2021		011822	2,490.00
			Invoice: 10142021-1				RECLAIM RES CLEANNG-10/14/21 Outside Services	
			2,490.00	751200	541500		CHECK 103065 TOTAL:	2,490.00
103066	01/19/2022	PRTD	21604 CHRIS GATEWOOD INDUSTRIES, INC. 2020-263		12/23/2021	22200099	011822	7,504.95
			Invoice: 2020-263				CENTRIFUGE DISCHG TESTING Outside Services	
			7,504.95	751820	551500		CHECK 103066 TOTAL:	7,504.95
103067	01/19/2022	PRTD	2655 FERGUSON ENTERPRISES	0769888	11/01/2021		011822	4,973.60
			Invoice: 0769888				AMR/AMI PRJ Capital Asset Expenses	
			4,973.60	301440	900000		CHECK 103067 TOTAL:	4,973.60
103068	01/19/2022	PRTD	2660 FISHER SCIENTIFIC	7146697	12/16/2021		011822	59.23
			Invoice: 7146697				MANIFOLD PUMP TUBING Supplies/Material	
			59.23	701341	551000		CHECK 103068 TOTAL:	59.23
103069	01/19/2022	PRTD	2727 IDEXX LABORATORIES	3098181124	12/28/2021		011822	2,455.40
			Invoice: 3098181124				COLILERT MEDIA Supplies/Material	
			2,455.40	701341	551000			

A/P CASH DISBURSEMENTS JOURNAL

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CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC								
							CHECK 103069 TOTAL:	2,455.40
103070	01/19/2022	PRTD	4144 INTERSTATE BATTERY SYSTEMS	5003020	12/17/2021		011822	300.96
			Invoice: 5003020					
				300.96 701325 551000			BATTERIES-#907 & 931 Supplies/Material	
							CHECK 103070 TOTAL:	300.96
103071	01/19/2022	PRTD	8484 LINDE GAS AND EQUIPMENT, INC	67882681	12/22/2021		011822	141.76
			Invoice: 67882681					
				141.76 101100 541000			CYLINDER RENT 11/20-12/20/21 Supplies/Material	
							CHECK 103071 TOTAL:	141.76
103072	01/19/2022	PRTD	2590 LOS ANGELES DAILY NEWS	0011501874	11/18/2021		011822	175.00
			Invoice: 0011501874					
				175.00 701230 660400			AD-FREE COMPOST Public Education Programs	
							CHECK 103072 TOTAL:	175.00
103073	01/19/2022	PRTD	2302 OFFICE DEPOT	216533151001-CM	12/09/2021		011822	-25.61
			Invoice: 216533151001-CM					
				-25.61 701410 620000			CR-#211586352001 Forms, Supplies And Postage	
			OFFICE DEPOT	216912093001	12/16/2021		011822	485.90
			Invoice: 216912093001					
				485.90 701410 620000			PAPER-SMALL OFFICE SUPPLIES Forms, Supplies And Postage	
			OFFICE DEPOT	216923194001	12/16/2021		011822	18.37
			Invoice: 216923194001					
				18.37 701410 620000			CHISEL MARKERS Forms, Supplies And Postage	
			OFFICE DEPOT	216923195001	12/16/2021		011822	214.98
			Invoice: 216923195001					
				214.98 701410 620000			DAILY DIARIES, VISITORS BOOK Forms, Supplies And Postage	
			OFFICE DEPOT	216923197001	12/16/2021		011822	144.57
			Invoice: 216923197001					
				144.57 701410 620000			STENO BOOKS & PENS Forms, Supplies And Postage	
			OFFICE DEPOT	216923198001	12/16/2021		011822	100.84
			Invoice: 216923198001					
				100.84 701410 620000			LIQUID DISH SOAP Forms, Supplies And Postage	
			OFFICE DEPOT	204179323001	12/21/2021		011822	21.88
			Invoice: 204179323001					
				21.88 701410 620000			PEN REFILLS Forms, Supplies And Postage	

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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 103073 TOTAL:	960.93
103074	01/19/2022	PRTD	15824 OUTBACK FOOTWEAR	46561	11/05/2021		011822	225.00
			Invoice: 46561					
				225.00	701342	623000	SAFETY FOOTWEAR-C.B. Safety Equip	
							CHECK 103074 TOTAL:	225.00
103075	01/19/2022	PRTD	8506 PADRE ASSOCIATES, INC.	2022-28	01/07/2022		011822	525.00
			Invoice: 2022-28					
				525.00	754440	900000	P/E 12/31-SOLAR BTRY CEQA DOC Capital Asset Expenses	
							CHECK 103075 TOTAL:	525.00
103076	01/19/2022	PRTD	17174 ROTH STAFFING COMPANIES, LP	14124361	12/31/2021		011822	701.92
			Invoice: 14124361					
				701.92	701440	622000	TEMP SERVICES 12/21-12/22/21-B.M. Outside Services	
							CHECK 103076 TOTAL:	701.92
103077	01/19/2022	PRTD	20779 SAND MATERIALS & AGGREGATE SALES, 80313		12/21/2021		011822	628.45
			Invoice: 80313					
				628.45	101700	551000	13.83 TONS 3/4" CRUSHED ROCK Supplies/Material	
							CHECK 103077 TOTAL:	628.45
103078	01/19/2022	PRTD	2948 SMITH PIPE & SUPPLY	3841956	12/27/2021		011822	194.36
			Invoice: 3841956					
				194.36	701001	551000	CREEPING RED FESCUE SEED Supplies/Material	
							CHECK 103078 TOTAL:	194.36
103079	01/19/2022	PRTD	2949 SNAP ON TOOLS	12222189678	12/22/2021		011822	185.06
			Invoice: 12222189678					
				185.06	701325	551000	SOCKET SET Supplies/Material	
							CHECK 103079 TOTAL:	185.06
103080	01/19/2022	PRTD	16120 SOIL CONTROL LAB	1110496	12/15/2021		011822	349.00
			Invoice: 1110496					
				349.00	751820	571520	FINISHED COMPOST Other Laboratory Serv	
							CHECK 103080 TOTAL:	349.00

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
103081	01/19/2022	PRTD	2956 SOUTH COAST AIR QUALITY MGMT DIST	3918927	12/01/2021		011822	440.15
				Invoice: 3918927				
				440.15 101100 542000	ID#164911 ICE FY 21/22			
					Permits and Fees			
				Invoice: 3922162				
				2956 SOUTH COAST AIR QUALITY MGMT DIST	12/01/2021		011822	142.59
				3922162				
				142.59 101100 542000	ID#164911 FLAT FEE FY 21/22			
					Permits and Fees			
							CHECK	103081 TOTAL:
								582.74
103082	01/19/2022	PRTD	2956 SOUTH COAST AIR QUALITY MGMT DIST	GENRTR PERMITS	01/13/2022		011822	12,968.03
				Invoice: GENRTR PERMITS				
				1,525.65 701001 552000	GENERATOR PERMITS			
				3,051.30 130100 552000	Permits and Fees			
				1,525.65 751820 552000	Permits and Fees			
				1,525.65 751830 552000	Permits and Fees			
				3,814.13 751810 552000	Permits and Fees			
				1,525.65 101600 552000	Permits and Fees			
							CHECK	103082 TOTAL:
								12,968.03
103083	01/19/2022	PRTD	30020 SOUTHERN CA EDISON	2403/123021	12/30/2021		011822	459.97
				Invoice: 2403/123021				
				459.97 751810 678800	N CYN IRR #2 12/1/21-12/29/21			
					District Sprayfield			
							CHECK	103083 TOTAL:
								459.97
103084	01/19/2022	PRTD	2957 SOUTHERN CALIFORNIA EDISON (M-BIL	445743/123021	12/30/2021		011822	34,958.42
				Invoice: 445743/123021				
				17,479.21 751127 540510	RW P/S 12/1/21-12/29/21			
				17,479.21 751128 540510	NEM 115122KH			
					Energy			
							CHECK	103084 TOTAL:
								34,958.42
103085	01/19/2022	PRTD	2957 SOUTHERN CALIFORNIA EDISON (M-BIL	777683/122821	12/28/2021		011822	18.46
				Invoice: 777683/122821				
				18.46 751750 540510	BLDG1 EV-PWP 11/22/21-12/21/21			
					Energy			
							CHECK	103085 TOTAL:
								18.46
103086	01/19/2022	PRTD	2957 SOUTHERN CALIFORNIA EDISON (M-BIL	775690/122821	12/28/2021		011822	979.34
				Invoice: 775690/122821				
				979.34 751750 540510	BLDG1 HM-PWP 11/22/21-12/21/21			
					Energy			

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 103086 TOTAL:	979.34
103087	01/19/2022	PRTD	14479 STEPHEN'S VIDEO PRODUCTIONS	12-30-21	12/30/2021		011822	600.00
	Invoice: 12-30-21			600.00 751840 651600	VIDEO SRV-JPA MTG-DEC'21 Other Professional Serv			
	Invoice: 12-28-21		STEPHEN'S VIDEO PRODUCTIONS	12-28-21	12/28/2021		011822	1,200.00
				1,200.00 701112 651600	VIDEO SRV-LV MTGS-DEC'21 Other Professional Serv			
							CHECK 103087 TOTAL:	1,800.00
103088	01/19/2022	PRTD	20950 TERRAVERDE ENERGY LLC	1110	12/23/2021		011822	8,587.50
	Invoice: 1110			1,431.25 751840 651600 7,156.25 101100 541500	BESS-VENDOR CONTRACT NEGOTN Other Professional Serv Outside Services			
							CHECK 103088 TOTAL:	8,587.50
103089	01/19/2022	PRTD	12149 THATCHER CO. OF CALIFORNIA	287758	09/24/2021		011822	6,644.18
	Invoice: 287758			6,644.18 751810 541011	48,000 LBS SODIUM BISULFITE Sodium Bisulfite			
							CHECK 103089 TOTAL:	6,644.18
103090	01/19/2022	PRTD	2780 VALLEY NEWS GROUP	12-16,23	12/23/2021		011822	80.00
	Invoice: 12-16,23			80.00 701122 650500	LEGAL AD-STANDBY CHG-12/16 & 12/23 Legal Advertising			
							CHECK 103090 TOTAL:	80.00
103091	01/19/2022	PRTD	8510 WORK BOOT WAREHOUSE	2-2-1008884	11/15/2021		011822	225.00
	Invoice: 2-2-1008884			225.00 701331 623000	SAFETY FOOTWEAR-G.G. Safety Equip			
	Invoice: 2-2-1009235		WORK BOOT WAREHOUSE	2-2-1009235	11/30/2021		011822	225.00
				225.00 701341 623000	SAFETY FOOTWEAR-S.M. Safety Equip			
	Invoice: 2-2-1009545		WORK BOOT WAREHOUSE	2-2-1009545	12/14/2021		011822	200.93
				200.93 701320 623000	SAFETY FOOTWEAR-J.K. Safety Equip			
							CHECK 103091 TOTAL:	650.93

A/P CASH DISBURSEMENTS JOURNAL

NUMBER OF CHECKS 33 *** CASH ACCOUNT TOTAL *** 118,979.56

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	33	118,979.56

*** GRAND TOTAL *** 118,979.56

A/P CASH DISBURSEMENTS JOURNAL

JOURNAL ENTRIES TO BE CREATED

CLERK: 3296brichie

YEAR	PER	JNL	SRC	ACCOUNT	JNL	DESC	REF 1	REF 2	REF 3	ACCOUNT	DESC	T	OB	DEBIT	CREDIT
			EFF	DATE						LINE	DESC				
2022	7	87													
APP	101-200000		01/19/2022	011822	011822					Accounts Payable				10,222.07	
										AP CASH DISBURSEMENTS JOURNAL					
APP	999-100100		01/19/2022	011822	011822					Cash-General					118,979.56
										AP CASH DISBURSEMENTS JOURNAL					
APP	751-200000		01/19/2022	011822	011822					Accounts Payable				63,524.88	
										AP CASH DISBURSEMENTS JOURNAL					
APP	701-200000		01/19/2022	011822	011822					Accounts Payable				36,682.71	
										AP CASH DISBURSEMENTS JOURNAL					
APP	301-200000		01/19/2022	011822	011822					Accounts Payable				4,973.60	
										AP CASH DISBURSEMENTS JOURNAL					
APP	754-200000		01/19/2022	011822	011822					Accounts Payable				525.00	
										AP CASH DISBURSEMENTS JOURNAL					
APP	130-200000		01/19/2022	011822	011822					Accounts Payable				3,051.30	
										AP CASH DISBURSEMENTS JOURNAL					
										GENERAL LEDGER TOTAL				118,979.56	118,979.56
APP	999-201010		01/19/2022	011822	011822					Due to/Due Frm Potable Wtr Ops				10,222.07	
										Cash-General					10,222.07
APP	101-100100		01/19/2022	011822	011822					Due to/Due FromJPA Operations				63,524.88	
										Cash-General					63,524.88
APP	999-207510		01/19/2022	011822	011822					Due to/Due FromInternal Svs				36,682.71	
										Cash-General					36,682.71
APP	751-100100		01/19/2022	011822	011822					Due to/Due FrmPotable Wtr Repl				4,973.60	
										Cash-General					4,973.60
APP	999-207010		01/19/2022	011822	011822					Due to/Due FromJPA Replacement				525.00	
										Cash-General					525.00
APP	701-100100		01/19/2022	011822	011822					Due to/Due FrmSanitation Ops				3,051.30	
										Cash-General					3,051.30
APP	999-203010		01/19/2022	011822	011822					Due to/Due FromJPA Replacement				525.00	
										Cash-General					525.00
APP	301-100100		01/19/2022	011822	011822					Due to/Due FromSanitation Ops				3,051.30	
										Cash-General					3,051.30
APP	999-207540		01/19/2022	011822	011822					Due to/Due FromJPA Replacement				525.00	
										Cash-General					525.00
APP	754-100100		01/19/2022	011822	011822					Due to/Due FromSanitation Ops				3,051.30	
										Cash-General					3,051.30
APP	999-201300		01/19/2022	011822	011822					Due to/Due FromSanitation Ops				3,051.30	
										Cash-General					3,051.30
APP	130-100100		01/19/2022	011822	011822					Due to/Due FromSanitation Ops				3,051.30	
										Cash-General					3,051.30
										SYSTEM GENERATED ENTRIES TOTAL				118,979.56	118,979.56
										JOURNAL 2022/07/87	TOTAL			237,959.12	237,959.12

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	2022 7	87	01/19/2022	Cash-General Accounts Payable	10,222.07	10,222.07
				FUND TOTAL	10,222.07	10,222.07
130 Sanitation Operations 130-100100 130-200000	2022 7	87	01/19/2022	Cash-General Accounts Payable	3,051.30	3,051.30
				FUND TOTAL	3,051.30	3,051.30
301 Potable wtr Replacement Fund 301-100100 301-200000	2022 7	87	01/19/2022	Cash-General Accounts Payable	4,973.60	4,973.60
				FUND TOTAL	4,973.60	4,973.60
701 Internal Service Fund 701-100100 701-200000	2022 7	87	01/19/2022	Cash-General Accounts Payable	36,682.71	36,682.71
				FUND TOTAL	36,682.71	36,682.71
751 JPA Operations 751-100100 751-200000	2022 7	87	01/19/2022	Cash-General Accounts Payable	63,524.88	63,524.88
				FUND TOTAL	63,524.88	63,524.88
754 JPA Replacement 754-100100 754-200000	2022 7	87	01/19/2022	Cash-General Accounts Payable	525.00	525.00
				FUND TOTAL	525.00	525.00
999 Pooled Cash 999-100100 999-201010 999-201300 999-203010 999-207010 999-207510 999-207540	2022 7	87	01/19/2022	Cash-General Due to/Due Frm Potable Wtr Ops Due to/Due Frm Sanitation 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	10,222.07 3,051.30 4,973.60 36,682.71 63,524.88 525.00	118,979.56
				FUND TOTAL	118,979.56	118,979.56

A/P CASH DISBURSEMENTS JOURNAL
 JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
101	Potable Water Operations		10,222.07
130	Sanitation Operations		3,051.30
301	Potable Wtr Replacement Fund		4,973.60
701	Internal Service Fund		36,682.71
751	JPA Operations		63,524.88
754	JPA Replacement		525.00
999	Pooled Cash		
		118,979.56	
TOTAL		118,979.56	118,979.56

** END OF REPORT - Generated by Brian Richie **

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
103092	01/25/2022	PRTD	2317 ACORN NEWSPAPER	177545	12/31/2021		012522	815.00
			Invoice: 177545					
				815.00 701230 660400				
			ACORN NEWSPAPER	176919	12/17/2021		012522	815.00
			Invoice: 176919					
				815.00 701230 660400				
			ACORN NEWSPAPER	177377	12/24/2021		012522	815.00
			Invoice: 177377					
				815.00 701230 660400				
							CHECK 103092 TOTAL:	2,445.00
103093	01/25/2022	PRTD	8680 ADS, LLC	22085.22-1221	12/31/2021		012522	3,060.00
			Invoice: 22085.22-1221					
				765.00 130100 551500				
				2,295.00 751800 551500				
							CHECK 103093 TOTAL:	3,060.00
103094	01/25/2022	PRTD	19993 ALEXANDER'S CONTRACT SERVICES, IN	103789	12/27/2021		012522	20,629.64
			Invoice: 103789					
				20,629.64 701224 541500				
							CHECK 103094 TOTAL:	20,629.64
103095	01/25/2022	PRTD	30083 AQUATIC GARDENS LLC	11521	12/28/2021		012522	150.00
			Invoice: 11521					
				150.00 701001 551500				
							CHECK 103095 TOTAL:	150.00
103096	01/25/2022	PRTD	2869 AT&T	2043/010722	01/07/2022		012522	414.79
			Invoice: 2043/010722					
				414.79 101100 540520				
			AT&T	9054/010522	01/05/2022		012522	56.23
			Invoice: 9054/010522					
				56.23 101122 540520				
			AT&T	0123/010722	01/07/2022		012522	68.58
			Invoice: 0123/010722					
				68.58 101300 540520				
			AT&T	0124/010722	01/07/2022		012522	33.78
			Invoice: 0124/010722					
				33.78 101207 540520				

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
INVOICE DTL DESC						
					CHECK 103096 TOTAL:	573.38
103097	01/25/2022	PRTD 9631 AT&T LONG DISTANCE	806368136/010422	01/04/2022	012522	21.37
		Invoice: 806368136/010422		SRV 12/1-12/29/21		
		6.51 701002 540520		Telephone		
		.93 701420 540520		Telephone		
		13.00 751810 540520		Telephone		
		.93 101600 540520		Telephone		
					CHECK 103097 TOTAL:	21.37
103098	01/25/2022	PRTD 16253 AT&T MOBILITY	992789332X01112022	01/03/2022	012522	4,437.08
		Invoice: 992789332X01112022		SRV 12/4/21-1/3/22		
		43.23 101300 540520		Telephone		
		279.92 701122 540520		Telephone		
		44.64 701220 540520		Telephone		
		172.73 701221 540520		Telephone		
		443.05 701222 540520		Telephone		
		37.90 701223 540520		Telephone		
		43.23 701230 540520		Telephone		
		32.81 701320 540520		Telephone		
		343.83 701321 540520		Telephone		
		132.64 701322 540520		Telephone		
		828.37 701224 540520		Telephone		
		35.56 701325 540520		Telephone		
		120.33 701326 540520		Telephone		
		43.23 701330 540520		Telephone		
		781.23 701331 540520		Telephone		
		32.81 701340 540520		Telephone		
		33.97 701350 540520		Telephone		
		18.66 701410 540520		Telephone		
		723.08 701420 540520		Telephone		
		43.23 751750 540520		Telephone		
		120.84 751810 540520		Telephone		
		81.79 751820 540520		Telephone		
					CHECK 103098 TOTAL:	4,437.08
103099	01/25/2022	PRTD 30119 ATS COMMUNICATIONS	11-2021	12/16/2021	012522	1,016.25
		Invoice: 11-2021		NOV'21-PRO SRVS-CELL SITE MGMT		
		1,016.25 701310 552500		Consulting Services		
					CHECK 103099 TOTAL:	1,016.25
103100	01/25/2022	PRTD 20415 BENDER CCP, INC.	221-0977-2	12/21/2021	012522	33,590.37
		Invoice: 221-0977-2		REBUILD PUMP#2-TAPIA		
		33,590.37 751810 551000		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
CHECK 103100 TOTAL: 33,590.37								
103101	01/25/2022	PRTD	2964 CA ST TREAS. BOE	97-817885/123121	12/31/2021		012522	5,679.00
			Invoice: 97-817885/123121					
				5,678.80 751 206000				
				.20 701999 862500				
CHECK 103101 TOTAL: 5,679.00								
103102	01/25/2022	PRTD	18739 CALIFORNIA HAZARDOUS SERVICES, IN	68270	12/20/2021		012522	105.00
			Invoice: 68270					
				105.00 701325 551500				
			Invoice: 68354					
				105.00 701325 551500				
			Invoice: 68309					
				575.00 701325 551500				
CHECK 103102 TOTAL: 785.00								
103103	01/25/2022	PRTD	20655 CANNON CORPORATION	78897	01/04/2022		012522	3,787.25
			Invoice: 78897					
				3,787.25 101100 551500				
CHECK 103103 TOTAL: 3,787.25								
103104	01/25/2022	PRTD	9682 CHEMCO SYSTEMS, L.P.	17355	11/23/2021	22200048	012522	7,414.45
			Invoice: 17355					
				7,414.45 751820 551000				
CHECK 103104 TOTAL: 7,414.45								
103105	01/25/2022	PRTD	20685 DOCUMENT SYSTEMS INC	184162	01/06/2022		012522	175.34
			Invoice: 184162					
				175.34 701420 621500				
CHECK 103105 TOTAL: 175.34								
103106	01/25/2022	PRTD	18441 EMPLOYEE RELATIONS NETWORK	91678	11/30/2021		012522	422.53
			Invoice: 91678					
				422.53 701430 681000				

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 103106 TOTAL:	422.53
103107	01/25/2022	PRTD	30107 ENDRESS & HAUSER INC.	3004025472	12/29/2021	22200073	012522	1,541.97
			Invoice: 3004025472				PH ANALYZERS-PWP DEMO Supplies	
				1,541.97	751750	541000		
							CHECK 103107 TOTAL:	1,541.97
103108	01/25/2022	PRTD	21055 FIRESTONE COMPLETE AUTO CARE BRID	201916	12/09/2021		012522	1,759.08
			Invoice: 201916				(4) TIRES-VEH#861 Outside Services	
				1,759.08	701325	551500		
							CHECK 103108 TOTAL:	1,759.08
103109	01/25/2022	PRTD	19397 FIRST CHOICE SERVICES (DAIOHS USA	425591	01/06/2022		012522	37.98
			Invoice: 425591				JAN'22-COFFEE SRV-OPS Forms, Supplies And Postage	
				37.98	701410	620000		
			Invoice: 425592				FIRST CHOICE SERVICES (DAIOHS USA 425592	
				71.40	701410	620000	JAN'22-COFFEE SRV-RLV Forms, Supplies And Postage	71.40
			Invoice: 425593				FIRST CHOICE SERVICES (DAIOHS USA 425593	
				114.64	701410	620000	JAN'22-COFFEE SRV-TAPIA Forms, Supplies And Postage	114.64
							CHECK 103109 TOTAL:	224.02
103110	01/25/2022	PRTD	20970 GARDA CL WEST, INC.	10673656	01/01/2022		012522	288.56
			Invoice: 10673656				ARMORED TRANSPORT-JAN'22 Outside Services	
				288.56	701410	622000		
			Invoice: 20511542				GARDA CL WEST, INC.	
				24.99	701410	622000	12/31/2021 EXCESS TIME, ITEMS, LIAB-DEC'21 Outside Services	24.99
							CHECK 103110 TOTAL:	313.55
103111	01/25/2022	PRTD	2701 GRAINGER	9129437068	11/22/2021		012522	101.17
			Invoice: 9129437068				POWER DRIVE & HOLE SAW Genl Supplies/Small Tools	
				101.17	701224	572500		
			Invoice: 9155035026				GRAINGER	
				276.12	751100	551000	12/17/2021 REPLACE COIL Supplies/Material	276.12
							GRAINGER	
				9156531759			12/20/2021	526.07

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: 9156531759				526.07 751820 551000				
			GRAINGER	9156965874	12/20/2021		012522	45.29
Invoice: 9156965874				45.29 751820 551000				
			GRAINGER	9159703132	12/22/2021		012522	62.85
Invoice: 9159703132				62.85 751100 551000				
							CHECK 103111 TOTAL:	1,011.50
103112	01/25/2022	PRTD	19548 GRM INFORMATION MANAGEMENT SERVIC	0444397	12/31/2021		012522	140.24
				Invoice: 0444397				
				140.24 701121 623500				
			GRM INFORMATION MANAGEMENT SERVIC	0444398	12/31/2021		012522	303.72
Invoice: 0444398				303.72 701121 623500				
							CHECK 103112 TOTAL:	443.96
103113	01/25/2022	PRTD	2705 HACH COMPANY	12813738	12/28/2021		012522	1,589.24
				Invoice: 12813738				
				1,589.24 751750 541000				
							CHECK 103113 TOTAL:	1,589.24
103114	01/25/2022	PRTD	4525 HARRINGTON INDUSTRIAL PLASTICS IN	005D4843	12/29/2021		012522	138.54
				Invoice: 005D4843				
				138.54 751810 541000				
							CHECK 103114 TOTAL:	138.54
103115	01/25/2022	PRTD	20823 INVOICE CLOUD INC.	964-2021_12	12/31/2021		012522	7,001.42
				Invoice: 964-2021_12				
				7,001.42 701221 622000				
							CHECK 103115 TOTAL:	7,001.42
103116	01/25/2022	PRTD	3352 LAS VIRGENES MUNICIPAL WATER DIST	0896/122921	12/29/2021		012522	110.70
				Invoice: 0896/122921				
				110.70 101201 540540				
			LAS VIRGENES MUNICIPAL WATER DIST	0907/122921	12/29/2021		012522	399.62
Invoice: 0907/122921								
							WLK FLT 11/24/21-12/21/21	

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
				399.62 101600 540540	Water			
Invoice: 0909/122921			LAS VIRGENES MUNICIPAL WATER DIST	0909/122921	12/29/2021		012522	326.93
				326.93 101600 540540	WLK FLT 11/26/21-12/22/21			
					Water			
Invoice: 2645/122921			LAS VIRGENES MUNICIPAL WATER DIST	2645/122921	12/29/2021		012522	151.88
				151.88 701001 540540	RWPS 11/23/21-12/21/21			
					Water			
Invoice: 2652/122921			LAS VIRGENES MUNICIPAL WATER DIST	2652/122921	12/29/2021		012522	178.06
				178.06 701001 540540	BD#8/RW 11/23/21-12/21/21			
					Water			
Invoice: 0558/122921			LAS VIRGENES MUNICIPAL WATER DIST	0558/122921	12/29/2021		012522	28.79
				28.79 751223 540540	IND HILLS 11/24/21-12/22/21			
					Water			
Invoice: 2655/122921			LAS VIRGENES MUNICIPAL WATER DIST	2655/122921	12/29/2021		012522	219.44
				219.44 701002 540540	BD#7/RW 11/23/21-12/21/21			
					Water			
Invoice: 2646/122921			LAS VIRGENES MUNICIPAL WATER DIST	2646/122921	12/29/2021		012522	207.31
				207.31 701001 540540	BD#8/RECL 11/23/21-12/21/21			
					Water			
Invoice: 0331/122921			LAS VIRGENES MUNICIPAL WATER DIST	0331/122921	12/29/2021		012522	28.79
				28.79 751125 540540	MORRSN P/S 11/24/21-12/22/21			
					Water			
					CHECK	103116	TOTAL:	1,651.52
103117 01/25/2022 PR TD			30156 JAY LEWITT	122121	12/21/2021		012522	610.48
Invoice: 122121				610.48 701112 601000	ACWA CONF 11/30~12/3-J.L.			
					Directors' Conference Exp			
Invoice: 122221			JAY LEWITT	122221	12/22/2021		012522	785.94
				785.94 701112 601000	COLORADO WTR USERD CONF 12/14~12/16-J.L.			
					Directors' Conference Exp			
					CHECK	103117	TOTAL:	1,396.42
103118 01/25/2022 PR TD			3514 LOS ANGELES COUNTY, REGISTRAR-REC	10767/NOE	SOLAR BTTR01/18/2022		012522	75.00
Invoice: 10767/NOE			SOLAR BTTR	75.00 754440 900000	NOE-SOLAR BTTRY PROJECT			
					Capital Asset Expenses			
					CHECK	103118	TOTAL:	75.00

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
103119	01/25/2022	PRTD	3514 LOS ANGELES COUNTY, REGISTRAR-REC	10674/NOE-KMBRLY	01/02/2022		012522	75.00
			Invoice: 10674/NOE-KMBRLY	75.00 301440 900000				
							NOE-KIMBERLY REHAB Capital Asset Expenses	
							CHECK 103119 TOTAL:	75.00
103120	01/25/2022	PRTD	2590 LOS ANGELES DAILY NEWS	0011505217	12/05/2021		012522	175.00
			Invoice: 0011505217	175.00 701230 660400				
							AD-FREE COMPOST Public Education Programs	
			Invoice: 0011506072					
			LOS ANGELES DAILY NEWS	0011506072	12/09/2021		012522	175.00
				175.00 701230 660400				
							AD-FREE COMPOST Public Education Programs	
							CHECK 103120 TOTAL:	350.00
103121	01/25/2022	PRTD	30261 LYNDA LO-HILL	011022	01/10/2022		012522	692.91
			Invoice: 011022	692.91 701112 601000				
							COLORADO WTR USERS CONF 12/13~12/16-L.L. Directors' Conference Exp	
							CHECK 103121 TOTAL:	692.91
103122	01/25/2022	PRTD	2814 MCMASTER-CARR SUPPLY CO	70239958	12/21/2021		012522	16.29
			Invoice: 70239958	16.29 701002 551000				
							BOTTOMING CHAMFER Supplies/Material	
							CHECK 103122 TOTAL:	16.29
103123	01/25/2022	PRTD	21574 METERSYS	INV-000655	12/16/2021		012522	12,564.00
			Invoice: INV-000655	12,564.00 301440 900000				
							11/16-12/15-PRJT MGMT AMR/AMI Capital Asset Expenses	
							CHECK 103123 TOTAL:	12,564.00
103124	01/25/2022	PRTD	14322 MILES CHEMICAL COMPANY, INC	645975	01/02/2022		012522	244.64
			Invoice: 645975	244.64 751750 541000				
							53 GAL HYPOCHLORITE Supplies	
							CHECK 103124 TOTAL:	244.64
103125	01/25/2022	PRTD	16754 NATURAL SURROUNDINGS	7869	01/01/2022		012522	235.00
			Invoice: 7869	235.00 701001 551500				
							JAN'22 FLORAL MAINT 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 103125 TOTAL:	235.00
103126	01/25/2022	PRTD	16372 OLIN CORPORATION	3000059594	12/27/2021		012522	4,884.76
			Invoice: 3000059594	4,884.76 101600 541014	4,834 GAL HYPOCHLORITE Sodium Hypochlorite			
			Invoice: 3000058409	3000058409	12/28/2021		012522	4,675.07
			OLIN CORPORATION	4,675.07 751810 541014	4,866 GAL HYPOCHLORITE Sodium Hypochlorite			
			Invoice: 3000059595	3000059595	12/30/2021		012522	4,671.22
			OLIN CORPORATION	4,671.22 751810 541014	4,862 GAL HYPOCHLORITE Sodium Hypochlorite			
							CHECK 103126 TOTAL:	14,231.05
103127	01/25/2022	PRTD	3110 GLEN PETERSON	37	01/05/2022		012522	1,980.00
			Invoice: 37	1,980.00 701112 651600	MWD REP FEES-DEC'21 Other Professional Serv			
							CHECK 103127 TOTAL:	1,980.00
103128	01/25/2022	PRTD	30155 LEN POLAN	122121	12/21/2021		012522	548.64
			Invoice: 122121	548.64 701112 601000	ACWA CONF 11/30~12/3/21-L.P. Directors' Conference Exp			
							CHECK 103128 TOTAL:	548.64
103129	01/25/2022	PRTD	21594 RECYCLED WOOD PRODUCTS	219159	12/15/2021		012522	1,820.00
			Invoice: 219159	1,820.00 751820 541080	130 YDS WOODCHIPS Amendment			
			Invoice: 219261	219261	12/17/2021		012522	1,820.00
			RECYCLED WOOD PRODUCTS	1,820.00 751820 541080	130 YDS WOODCHIPS Amendment			
			Invoice: 219390	219390	12/20/2021		012522	1,820.00
			RECYCLED WOOD PRODUCTS	1,820.00 751820 541080	130 YDS WOODCHIPS Amendment			
			Invoice: 219434	219434	12/21/2021		012522	1,820.00
			RECYCLED WOOD PRODUCTS	1,820.00 751820 541080	130 YDS WOODCHIPS Amendment			
			Invoice: 219524	219524	12/23/2021		012522	1,820.00
			RECYCLED WOOD PRODUCTS	1,820.00 751820 541080	130 YDS WOODCHIPS Amendment			

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: 219602			RECYCLED WOOD PRODUCTS	219602	12/28/2021		012522	1,820.00
			1,820.00 751820 541080		130 YDS WOODCHIPS Amendment			
Invoice: 219636			RECYCLED WOOD PRODUCTS	219636	12/29/2021		012522	1,820.00
			1,820.00 751820 541080		130 YDS WOODCHIPS Amendment			
Invoice: 219663			RECYCLED WOOD PRODUCTS	219663	12/30/2021		012522	1,820.00
			1,820.00 751820 541080		130 YDS WOODCHIPS Amendment			
Invoice: 219776			RECYCLED WOOD PRODUCTS	219776	01/03/2022		012522	1,820.00
			1,820.00 751820 541080		130 YDS WOODCHIPS Amendment			
Invoice: 219859			RECYCLED WOOD PRODUCTS	219859	01/05/2022		012522	1,820.00
			1,820.00 751820 541080		130 YDS WOODCHIPS Amendment			
Invoice: 220035			RECYCLED WOOD PRODUCTS	220035	01/10/2022		012522	1,820.00
			1,820.00 751820 541080		130 YDS WOODCHIPS Amendment			
						CHECK	103129 TOTAL:	20,020.00
103130	01/25/2022	PRTD	19855 RESOURCE TRENDS, INC.	651	12/02/2021		012522	5,000.00
	Invoice: 651		5,000.00 701121 710500		UTILITY BRANDING NTWRK '22 Dues, Subsc & Memberships			
						CHECK	103130 TOTAL:	5,000.00
103131	01/25/2022	PRTD	21484 RMG COMMUNICATIONS	1286	12/01/2021		012522	4,995.00
	Invoice: 1286		4,995.00 701230 660400		3 SHORT EDU VIDEOS-AMR PROJECT Public Education Programs			
						CHECK	103131 TOTAL:	4,995.00
103132	01/25/2022	PRTD	4586 ROYAL INDUSTRIAL SOLUTIONS	9009-1014840	12/15/2021		012522	255.43
	Invoice: 9009-1014840		255.43 130100 551000		TERMINAL BLOCK COMPONENTS Supplies/Material			
Invoice: 9009-1015201			ROYAL INDUSTRIAL SOLUTIONS	9009-1015201	12/30/2021		012522	796.36
			796.36 701002 551000		ELECTRICAL WIRE & TAPE Supplies/Material			
						CHECK	103132 TOTAL:	1,051.79

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
103133	01/25/2022	PRTD	20779 SAND MATERIALS & AGGREGATE SALES, 80370		01/03/2022		012522	1,476.47
			Invoice: 80370	1,476.47 101700 551000	25.08 T	CRSHD ROCK-23.7	CRSHD AGGR	
						Supplies/Material		
						CHECK	103133 TOTAL:	1,476.47
103134	01/25/2022	PRTD	2958 SOUTHERN CALIFORNIA GAS CO (M-bil 9400/010722		01/07/2022		012522	55.06
			Invoice: 9400/010722	55.06 101600 540530	WLK P/S	12/1/21-1/1/22 23	THERMS	
						Gas		
			Invoice: 1200/010622		01/06/2022		012522	19.31
				19.31 101109 540530	JBR P/S	12/3/21-1/4/22 2	THERMS	
						Gas		
			Invoice: 4000/011022		01/10/2022		012522	2,598.77
				2,598.77 751810 540530	TAPIA	12/7/21-1/6/22 1840	THERMS	
						Gas		
			Invoice: 3600/011022		01/10/2022		012522	4,732.10
				4,732.10 701001 540530	HQ & OPS	12/7/21-1/6/22 3427	THERMS	
						Gas		
			Invoice: 0400/011022		01/10/2022		012522	14.79
				14.79 101110 540530	CORNELL	12/7/21-1/6/22 0	THERMS	
						Gas		
			Invoice: 4200/011022		01/10/2022		012522	844.41
				844.41 751820 540530	RANCHO	12/7/21-1/6/22 505	THERMS	
						Gas		
						CHECK	103134 TOTAL:	8,264.44
103135	01/25/2022	PRTD	16271 SPOK, INC.	F0143084M	01/10/2022		012522	115.20
			Invoice: F0143084M	71.48 701331 540520	PAGER SRV -	1/11/22-2/10/22		
				43.72 751820 540520		Telephone		
						Telephone		
						CHECK	103135 TOTAL:	115.20
103136	01/25/2022	PRTD	2969 STATE WATER RESOURCES CONTROL BOA LW-1034541		12/22/2021		012522	65,061.36
			Invoice: LW-1034541	65,061.36 101300 542000	WATR SYS ANNUAL FEES FY 21-22			
						Permits and Fees		
						CHECK	103136 TOTAL:	65,061.36

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								
103137	01/25/2022	PRTD	12149 THATCHER CO. OF CALIFORNIA	2021250101462	12/21/2021		012522	2,661.71
			Invoice: 2021250101462					
				2,661.71	751820	541000	274 GAL TOTE-CITRIC ACID Supplies/Material	
							CHECK	103137 TOTAL: 2,661.71
103138	01/25/2022	PRTD	21599 THE ROVISYS COMPANY	73280	01/07/2022		012522	1,896.54
			Invoice: 73280				P/E 12/31/21-DSGN/INSTALL WIRELESS COMM Capital Asset Expenses	
				1,896.54	301440	900000		
			Invoice: 73361				P/E 01/10/2022 012522 12/31/21-CONSLTNG-WIRELESS COMM Capital Asset Expenses	3,894.00
				3,894.00	301440	900000		
							CHECK	103138 TOTAL: 5,790.54
103139	01/25/2022	PRTD	3006 UNDERGROUND SERVICE ALERT	1220210406	01/01/2022		012522	397.75
			Invoice: 1220210406				235 TICKETS-DEC'21 Outside Services	
				397.75	101700	551500		
			Invoice: dsb20206558				DIG 01/01/2022 012522 SAFE PERMIT FEE-DEC'21 Outside Services	154.69
				154.69	101700	551500		
							CHECK	103139 TOTAL: 552.44
103140	01/25/2022	PRTD	20935 US METRO GROUP, INC.	105187	12/31/2021		012522	13,199.60
			Invoice: 105187				JANTRL SRV-DEC'21 Outside Services	
				6,308.86	701001	551500	Outside Services	
				2,725.27	701002	551500	Building Maintenance	
				1,021.78	751820	551800	Building Maintenance	
				1,520.56	751810	551800	Building Maintenance	
				208.54	101600	551800	Building Maintenance	
				1,414.59	751750	551800	Building Maintenance	
			Invoice: 105188				DISINFECT SRV-DEC'21 Outside Services	3,427.84
				1,285.44	701001	551500	Outside Services	
				428.48	701002	551500	Building Maintenance	
				428.48	751820	551800	Building Maintenance	
				1,285.44	751810	551800	Building Maintenance	
							CHECK	103140 TOTAL: 16,627.44
103141	01/25/2022	PRTD	2780 VALLEY NEWS GROUP	12-30	12/30/2021		012522	250.00
			Invoice: 12-30				AD-COMPOST CLOSED Public Education Programs	
				250.00	701230	660400		

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: 9-16			VALLEY NEWS GROUP	9-16	09/16/2021		012522	180.00
				180.00 701230 660400	AD-PWP MEETING Public Education Programs			
					CHECK		103141 TOTAL:	430.00
103142	01/25/2022	PRTD	30056 VERIZON WIRELESS	9895998298	12/26/2021		012522	456.12
Invoice: 9895998298				456.12 701224 540520	WIRELESS SVC 11/27-12/26/21 Telephone			
					CHECK		103142 TOTAL:	456.12
103143	01/25/2022	PRTD	21295 VERTICAL ELEVATOR SOLUTIONS, INC.	10256	01/01/2022		012522	290.00
Invoice: 10256				145.00 701001 551500 145.00 701002 551500	DEC'21 ELEVATOR SRV Outside Services Outside Services			
					CHECK		103143 TOTAL:	290.00
103144	01/25/2022	PRTD	3035 VWR SCIENTIFIC	8807071901	12/20/2021		012522	840.58
Invoice: 8807071901				840.58 701341 551000	GLASSWARE Supplies/Material			
Invoice: 8807076571			VWR SCIENTIFIC	8807076571	12/20/2021		012522	315.39
				315.39 701341 551000	LTB MEDIA Supplies/Material			
Invoice: 8806997411			VWR SCIENTIFIC	8806997411	12/13/2021	22100157	012522	15,494.69
				15,494.69 701341 551000	STEAM PRESSURE STERILIZER Supplies/Material			
Invoice: 8807130099			VWR SCIENTIFIC	8807130099	12/29/2021		012522	150.02
				150.02 701341 551000	MEDIUM GLOVES Supplies/Material			
Invoice: 8807130100			VWR SCIENTIFIC	8807130100	12/29/2021		012522	308.13
				308.13 701341 551000	KIMWIPES Supplies/Material			
Invoice: 8807134911			VWR SCIENTIFIC	8807134911	12/29/2021		012522	354.14
				354.14 701341 551000	LARGE GLOVES Supplies/Material			
					CHECK		103144 TOTAL:	17,462.95

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
103145	01/25/2022	PRTD	19685 W. LITTEN INC.	22001	01/01/2022		012522	6,786.60
			Invoice: 22001	6,786.60 751810 678800	SPRAYFIELD 12/27-12/30/21			
					District Sprayfield			
			Invoice: 22002	6,053.90 751810 678800	01/10/2022		012522	6,053.90
			W. LITTEN INC.		SPRAYFIELD-1/3-1/7			
					District Sprayfield			
					CHECK	103145	TOTAL:	12,840.50
103146	01/25/2022	PRTD	18914 WECK LABORATORIES, INC.	W1L1915-LV	12/23/2021		012522	1,935.00
			Invoice: W1L1915-LV	1,935.00 751750 571520	AGOURA DISCHARGE-1J27070			
					Other Laboratory Serv			
			Invoice: W1L2146-LV	4,115.00 751810 571520	12/27/2021		012522	4,115.00
			WECK LABORATORIES, INC.		DBP PROFILING TAPIA-1L01049			
					Other Laboratory Serv			
			Invoice: W1L2148-LV	145.00 751810 571520	12/27/2021		012522	145.00
			WECK LABORATORIES, INC.		TAPIA EFFLNT-1L07080			
					Other Laboratory Serv			
			Invoice: W2A0061-LV	710.00 751750 571520	01/03/2022		012522	710.00
			WECK LABORATORIES, INC.		PWP SAMPLING-1K03059			
					Other Laboratory Serv			
			Invoice: W2A0080-LV	710.00 751750 571520	01/03/2022		012522	710.00
			WECK LABORATORIES, INC.		PWP SAMPLING-1K17046			
					Other Laboratory Serv			
			Invoice: W2A0249-LV	890.00 751810 571520	01/03/2022		012522	890.00
			WECK LABORATORIES, INC.		DBP PROFILING TAPIA-1L07101			
					Other Laboratory Serv			
			Invoice: W2A0597-LV	135.00 701341 551500	01/07/2022		012522	135.00
			WECK LABORATORIES, INC.		DIONIZED WATER-1L16046			
					Outside Services			
			Invoice: W2A0598-LV	910.00 751810 571520	01/07/2022		012522	910.00
			WECK LABORATORIES, INC.		MC-DIAZINON-1L16047			
					Other Laboratory Serv			
			Invoice: W2A0772-LV	41.00 101600 571520	01/10/2022		012522	41.00
			WECK LABORATORIES, INC.		WESTLAKE-1L22042			
					Other Laboratory Serv			
			Invoice: W2A0853-LV	820.00 751750 571520	01/10/2022		012522	820.00
			WECK LABORATORIES, INC.		PWP SAMPLING-1L08082			
					Other Laboratory Serv			

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: W2A0923-LV		WECK	LABORATORIES, INC.	W2A0923-LV	01/11/2022		012522	464.00
			464.00	751810	571520	MALIBU CREEK-1L16049 Other Laboratory Serv		
Invoice: W2A0924-LV		WECK	LABORATORIES, INC.	W2A0924-LV	01/11/2022		012522	2,013.00
			2,013.00	751750	571520	PWP SAMPLING-1J13105 Other Laboratory Serv		
Invoice: W2A0925-LV		WECK	LABORATORIES, INC.	W2A0925-LV	01/11/2022		012522	2,716.00
			2,716.00	751810	571520	LA RIVER-SEMI ANNL-1K04088 Other Laboratory Serv		
							CHECK 103146 TOTAL:	15,604.00
				NUMBER OF CHECKS	55	*** CASH ACCOUNT TOTAL ***		310,970.37
				TOTAL PRINTED CHECKS		COUNT	AMOUNT	
						55	310,970.37	
							*** GRAND TOTAL ***	310,970.37

A/P CASH DISBURSEMENTS JOURNAL

JOURNAL ENTRIES TO BE CREATED

CLERK: 3296brichie

YEAR	PER	JNL	SRC	ACCOUNT	JNL	DESC	REF 1	REF 2	REF 3	ACCOUNT	DESC	T	OB	DEBIT	CREDIT
			EFF	DATE						LINE	DESC				
2022	7	176													
APP	701-200000		01/25/2022	012522	012522	Accounts Payable								90,715.60	
						AP CASH DISBURSEMENTS JOURNAL									
APP	999-100100		01/25/2022	012522	012522	Cash-General									310,970.37
						AP CASH DISBURSEMENTS JOURNAL									
APP	130-200000		01/25/2022	012522	012522	Accounts Payable								1,020.43	
						AP CASH DISBURSEMENTS JOURNAL									
APP	751-200000		01/25/2022	012522	012522	Accounts Payable								123,174.03	
						AP CASH DISBURSEMENTS JOURNAL									
APP	101-200000		01/25/2022	012522	012522	Accounts Payable								77,555.77	
						AP CASH DISBURSEMENTS JOURNAL									
APP	754-200000		01/25/2022	012522	012522	Accounts Payable								75.00	
						AP CASH DISBURSEMENTS JOURNAL									
APP	301-200000		01/25/2022	012522	012522	Accounts Payable								18,429.54	
						AP CASH DISBURSEMENTS JOURNAL									
						GENERAL LEDGER TOTAL								310,970.37	310,970.37
APP	999-207010		01/25/2022	012522	012522	Due to/Due FromInternal Svcs								90,715.60	
						Cash-General									90,715.60
APP	701-100100		01/25/2022	012522	012522	Due to/Due FrmSanitation Ops								1,020.43	
						Cash-General									1,020.43
APP	999-201300		01/25/2022	012522	012522	Due to/Due FromJPA Operations								123,174.03	
						Cash-General									123,174.03
APP	130-100100		01/25/2022	012522	012522	Due to/Due Frm Potable wtr Ops								77,555.77	
						Cash-General									77,555.77
APP	999-207510		01/25/2022	012522	012522	Due to/Due FromJPA Replacement								75.00	
						Cash-General									75.00
APP	751-100100		01/25/2022	012522	012522	Due to/Due FrmPotable wtr Repl								18,429.54	
						Cash-General									18,429.54
APP	999-203010		01/25/2022	012522	012522	SYSTEM GENERATED ENTRIES TOTAL								310,970.37	310,970.37
						JOURNAL 2022/07/176 TOTAL								621,940.74	621,940.74

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	2022 7	176	01/25/2022	Cash-General Accounts Payable	77,555.77	77,555.77
FUND TOTAL					77,555.77	77,555.77
130 Sanitation Operations 130-100100 130-200000	2022 7	176	01/25/2022	Cash-General Accounts Payable	1,020.43	1,020.43
FUND TOTAL					1,020.43	1,020.43
301 Potable Wtr Replacement Fund 301-100100 301-200000	2022 7	176	01/25/2022	Cash-General Accounts Payable	18,429.54	18,429.54
FUND TOTAL					18,429.54	18,429.54
701 Internal Service Fund 701-100100 701-200000	2022 7	176	01/25/2022	Cash-General Accounts Payable	90,715.60	90,715.60
FUND TOTAL					90,715.60	90,715.60
751 JPA Operations 751-100100 751-200000	2022 7	176	01/25/2022	Cash-General Accounts Payable	123,174.03	123,174.03
FUND TOTAL					123,174.03	123,174.03
754 JPA Replacement 754-100100 754-200000	2022 7	176	01/25/2022	Cash-General Accounts Payable	75.00	75.00
FUND TOTAL					75.00	75.00
999 Pooled Cash 999-100100 999-201010 999-201300 999-203010 999-207010 999-207510 999-207540	2022 7	176	01/25/2022	Cash-General Due to/Due Frm Potable Wtr Ops Due to/Due Frm Sanitation 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	77,555.77 1,020.43 18,429.54 90,715.60 123,174.03 75.00	310,970.37
FUND TOTAL					310,970.37	310,970.37

A/P CASH DISBURSEMENTS JOURNAL
 JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
101	Potable Water Operations		77,555.77
130	Sanitation Operations		1,020.43
301	Potable Wtr Replacement Fund		18,429.54
701	Internal Service Fund		90,715.60
751	JPA Operations		123,174.03
754	JPA Replacement		75.00
999	Pooled Cash		
		310,970.37	
TOTAL		310,970.37	310,970.37

** END OF REPORT - Generated by Brian Richie **



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:
 Las Virgenes Municipal Water District



Service Address
 4232 Las Virgenes Road
 Calabasas, CA 91302

November 2021	Page No. 1 of 1
Mailed: 12/10/2021	Due Date: 01/31/2022
Invoice Number: 10620	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	1,423.9
Total Water Untreated Delivered	

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	1,423.9	\$243.00	\$346,007.70
	System Access Rate	1,423.9	\$373.00	\$531,114.70
	System Power Rate	1,423.9	\$161.00	\$229,247.90
	Treatment Surcharge	1,423.9	\$327.00	\$465,615.30
SUBTOTAL				\$1,571,985.60

OTHER CHARGES AND CREDITS	Rate (\$ /AF)	
Capacity Charge(Payment Schedule: M)	\$40,927.50	
Readiness To Serve Charge(Payment Schedule: M)	\$115,968.00	
SUBTOTAL		\$156,895.50

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Capacity Charge			8/9/2018	45.9
Purchase Order Firm Delivery To Date (Jan 2015 to Dec 2024)	136,650.2			
Tier 1 Annual Limit (For Current Calendar Year)	24,359.0			
Tier 1 YTD Deliveries (For Current Calendar Year)	19,548.1	80.3		
Tier 1 Current Month Deliveries	1,423.9			
Purchase Order Commitment (Jan 2015 to Dec 2024)	162,390.0			

INVOICE TOTAL	Volume AF	Amount Now Due
	1,423.9	\$1,728,881.10

Approved for Payment

 David W. Pedersen, P.E.
 12/15/21

Approved For Payment

 Darrell Johnson
 12/13/21

Approved for Payment:

 John Zhao
 Date 12/13/21



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

MINUTES
REGULAR MEETING

9:00 AM

January 18, 2022

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Charlie Caspary.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **9:00 a.m.** by Board President Lewitt via teleconference 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. Josie Guzman, Clerk of the Board, conducted the roll call.

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

Absent: None

Staff Present: David Pedersen, General Manager
Joe McDermott, Director of Engineering and External Affairs
Don Patterson, Director of Finance and Administration
John Zhao, Director of Facilities and Operations
Josie Guzman, Clerk of the Board
Keith Lemieux, District Counsel (via teleconference)

2. APPROVAL OF AGENDA AND APPROVAL OF FINDINGS OF RESOLUTION NO. 2603 (AB 361)

Director Caspary moved to approve the agenda and approve the findings of Resolution No. 2603 (AB 361). Motion seconded by Director Polan. Motion carried unanimously by roll call vote.

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR

Director Polan pulled Item 4G for discussion.

A List of Demands: January 22, 2022: Receive and file

B Minutes Regular Meeting of January 4, 2022: Approve

C Directors' Per Diem – December 2021: Ratify

D Claim by Brandon Hillas

Deny the claim by Brandon Hillas.

E Claim by David Berzinsky

Deny the claim by David Berzinsky.

F Uniform Contract Extension: Authorization

Authorize the General Manager to approve a six-month extension with Prudential Overall Supply, in the amount of \$15,000, for uniform services.

Director Caspary moved to approve the Consent Calendar Item 4A through 4F. Motion seconded by Director Polan. Motion carried unanimously by roll call vote.

4. CONSENT CALENDAR – SEPARATE ACTION ITEM

G Statement of Revenue, Expenses, and Changes in Net Position: November 2021

Receive and file the Statement of Revenue, Expenses, and Changes in Net Position for the period ending November 30, 2021.

Brian Richie, Finance Manager, responded to a question regarding the terminology used when describing “lifting” under sanitation expenses by stating that staff would make an adjustment to the terminology going forward. He also responded to a question regarding the percentage of budget to date by stating that staff would include the percentage of budget totals to date in future updates.

Director Polan moved to approve Item 4G. 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 MWD Board authorized modifications of the On-Site Retrofit Program to increase the \$195 per acre-foot incentive term from five to ten years; authorized execution of an agreement for Temporary Emergency Delivery of a Portion of the Mexican Treaty Waters of the Colorado River to the International Boundary in the vicinity of Tijuana, Baja California, Mexico, and authorized execution of Minute 327 to the Treaty; approved modifications to the MWD Administrative Code to modify the Board Committee structure to reflect a new committee structure and duties; and received an update regarding proposed water quality laboratory upgrades.

B MWD Briefing on Long-Term Solutions for State Water Project Dependent Areas

Adel Hagekhalil, MWD General Manager, stated that it was his and the MWD Board's priority and commitment to work on diversifying and moving forward to provide reliable and resilient water for areas dependent on the State Water Project. He noted that MWD moved quickly to identify solutions that could be done immediately to shift water at the equivalent of 200,000 acre-feet. He also stated that he strongly believed MWD needed to move quickly on helping to diversify the portfolio of each member agency, provide water supply storage, provide local water supply, provide conservation, storage, resiliency and pipelines to move water, and identify and implement measures to ensure all portions of the service area attain a high level of reliability against multi-year, severe droughts.

Deven Upadhyay, MWD Executive Officer and Assistant General Manager, provided a PowerPoint presentation with an overview of State Water Project reliant area solutions including: actions to address the current drought emergency; strategic Water Surplus and Drought Management and Water Management Actions; operational drought actions; new infrastructure investments to deliver other sources of water; water exchanges; actions to greatly improve future reliability; drought action planning and development; Integrated Resource Planning Assessment to capture State Water Project risks and opportunities to move water to storage; and potential long-term projects with the Greg Avenue Pump Station Expansion and new pump stations at the Sepulveda Pressure Control Structure (PCS) and Venice PCS.

Board President Lewitt expressed the importance of ensuring that the District has access to reliable, affordable water and redundancy. He noted that the District imports 100 percent of the water it serves to its customers, and he expressed concern with the District having only one water source and no access to Colorado River water. He stated that the District was one of the first agencies to produce its own recycled water, and the District was currently producing recycled water for up to 20 percent of the water used in the

District's service area. He also stated that the Pure Water Project Las Virgenes-Triunfo would produce an additional 15 percent of water, and the District would only need to import 65 percent of water from MWD after the project is completed. He expressed concern with DWR's zero percent allocation from the State Water Project, and noted that the District was one of the first agencies in Southern California to activate its Water Shortage Contingency Plan, which was currently at Stage 3 Water Shortage Emergency. He asked that MWD ensure broad agreement for the portfolio of projects, designate funding, and construct the projects, as well as evaluate improvements to MWD's system to provide access to Colorado River water supplies. He also expressed concern with water availability for outdoor water use due to DWR's zero percent allocation.

Director Polan expressed concern for long-term reliability and a desire to evaluate the presentation for better understanding. Mr. Upadhyay responded that he could return at a future Board meeting to address any of the Board's concerns.

Director Caspary acknowledged MWD's approach in improving water supply reliability for the District's customers. He expressed his hope that the California Department of Water Resources (DWR) would allocate a minimum 14 percent allocation from the State Water Project for health and safety purposes.

Director Lo-Hill inquired regarding collaborations with other agencies on projects that would benefit multiple agencies, such as the Sepulveda Feeder PCS Project. Mr. Upadhyay responded that MWD was in discussions with the Los Angeles County Metropolitan Transportation Authority (MTA) regarding land assets that could be used for the pump station. He also noted that MWD held discussions with other water agencies regarding collaboration, specifically with agricultural entities in the Central Valley for water exchanges.

Mr. Upadhyay responded to a question regarding the possibility of building infrastructure to provide Colorado River water to MWD's western service area by stating that options could include the Greg Avenue Pump Station Expansion and Sepulveda Feeder PCS Project. He noted that the design of these projects would not be for just emergency use, and the MWD Board would soon consider initiating a feasibility study and adding the projects to its Capital Improvement Program. He stated that the MWD Board was also committed to looking at other measures, such as storage expansion for the State Water Project and moving water from Diamond Valley Lake and the Colorado River Aqueduct to the western portion of its service area.

Glen Peterson, MWD Representative, addressed the State Water Project allocation and stated it could take three months for the DWR to determine an allocation; however, DWR was working on a new program to determine its allocations more quickly.

C Legislative and Regulatory Updates

Joe McDermott, Director of Engineering and External Affairs, provided an update regarding AB 1434 (Friedman), which seeks to reduce indoor water use standards. He noted that Assemblywoman Friedman pulled the proposed bill and would likely propose

a new or similar bill. He mentioned that the Association of California Water Agencies (ACWA) would hold an in-person conference in Washington D.C. during the first week of March. Board President Lewitt noted that ACWA was planning to reschedule the conference due to a conflict with the President's State of the Union Address and concerns with the COVID-19 pandemic.

General Manager David Pedersen responded to a question regarding a petition to the California Department of Fish and Wildlife to list Southern Steelhead as an endangered species under the California Endangered Species Act. He stated that Southern Steelhead was currently listed as a federal endangered species. He noted that an ACWA working group had convened to evaluate and provide feedback to the Fish and Game Commission. He also noted that ACWA agreed to write a comment letter regarding the need for further study of the Southern Steelhead's life histories, its anadromous form where they spend part of their time in the ocean and the other part in fresh water, and the resident life history, commonly referred to as Rainbow Trout, where they spend their entire life in fresh water. He stated that the Fish and Game Commission would make a decision on whether the species should be listed as a candidate species in February, and if approved, a 12-month period would begin for a more thorough analysis of the technical and scientific issues. He also responded to a question regarding whether there might be a substantial change to the numeric discharge requirements given that the Southern Steelhead already had a federal listing by stating that a primary concern would be whether the state would implement management measures that would be different from the federal ones. He noted that the District circulated the Notice of Preparation for the Pure Water Project Las Virgenes-Triunfo, and a comment was received from the Department of Fish and Wildlife regarding continuing the current flow regime for Malibu Creek.

D Drought and Water Supply Conditions Update

Joe McDermott, Director of Engineering and External Affairs, presented the report. He noted that Lake Oroville was at 42 percent of capacity, and expressed hope for additional rain and snow to increase water storage levels.

Board President Lewitt asked staff to continue the drought and water conservation messaging.

Director Caspary noted that some of the maps published in the news showed certain areas of the state that were formerly in the extreme drought category were now showing a lesser drought category. He stated that this could be contributing to people's belief that the worst of the drought was over. He asked staff to look into how quickly the state could return to the extreme drought category absent any further storms.

6. TREASURER

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

7. GENERAL MANAGER

A Salary Resolution and Management Handbook Update: Approval and Adoption

Pass, approve, and adopt proposed Resolution No. 2604, establishing salaries for employees; and approve the updated Management Handbook.

RESOLUTION NO. 2604

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT ESTABLISHING SALARIES FOR EMPLOYEES

(Reference is hereby made to Resolution No. 2604 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

General Manager David Pedersen presented the report.

Director Lo-Hill moved to approve Item 7A. Motion seconded by Director Polan. Motion carried unanimously by roll call vote.

8. INFORMATION ITEMS

A Local, State, and Federal Restricting: Final Maps

B Reimbursable Expenses for Fiscal Year 2020-21

9. NON-ACTION ITEMS

A Organization Reports

None.

B Director's Reports on Outside Meetings

None.

C General Manager Reports

(1) General Business

General Manager David Pedersen reported that staff completed a run of the Westlake Filtration Plant during the MWD shutdown of the Foothill Feeder and the Joseph Jensen Water Treatment Plant. He provided an update regarding Mr. Carey Peck's request for the provision of a will serve letter and financial relief for upgrading the water meter for his property to rebuild his house, which was destroyed in the Woolsey Fire. He reported that staff worked with Mr. Peck on a resolution, and staff would bring back an item on the next agenda for the Board's consideration.

(2) Follow-Up Items

General Manager David Pedersen stated that staff would follow-up with MWD staff to provide an update on the Delta Conveyance Project at a future Board meeting.

D Directors' Comments

None.

10. FUTURE AGENDA ITEMS

None.

11. PUBLIC COMMENTS

None.

12. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **10:35 a.m.**

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

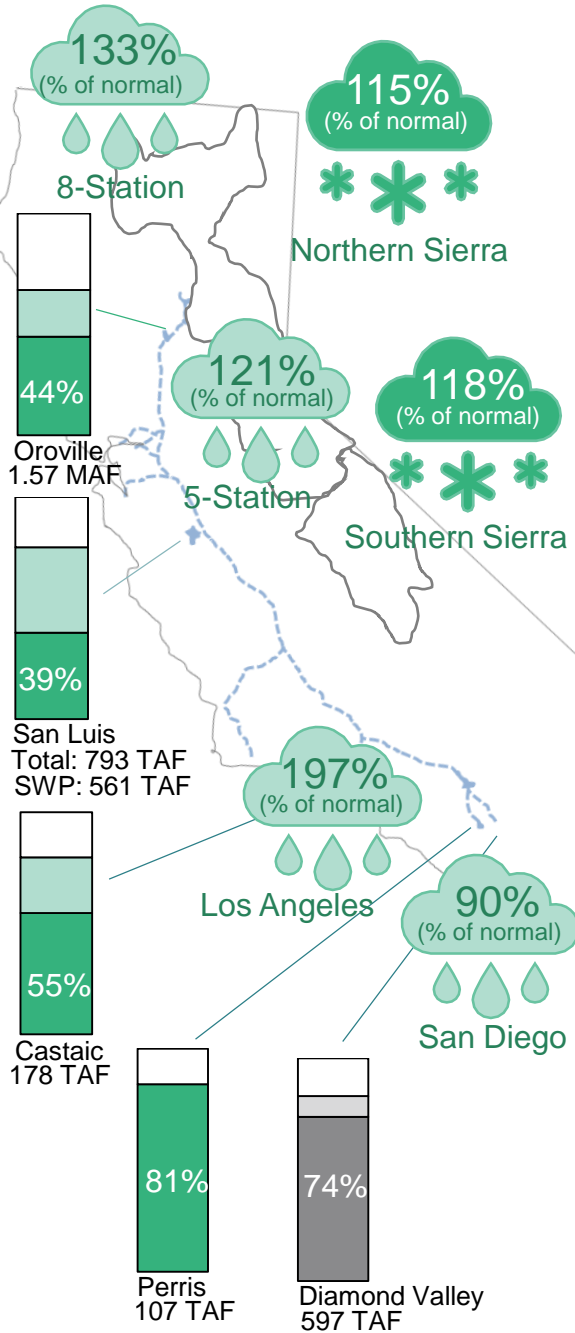
ATTEST:

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

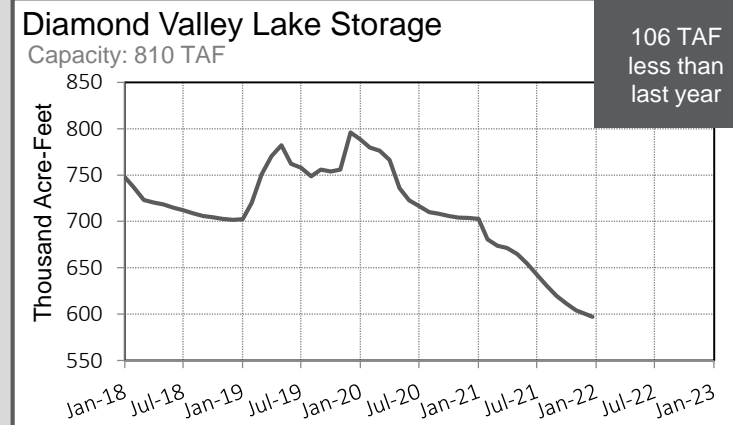
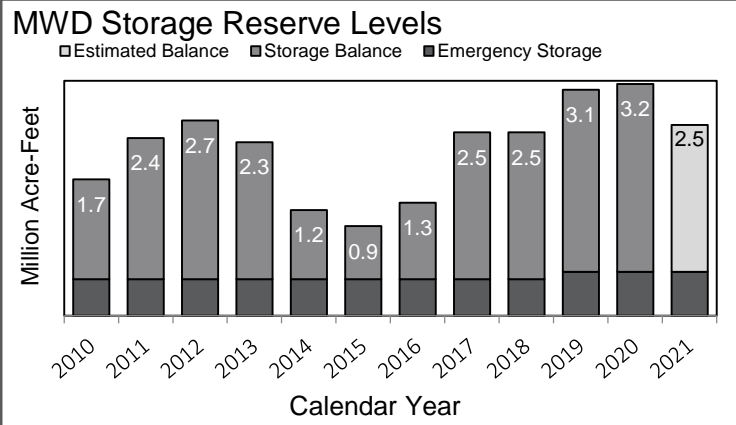
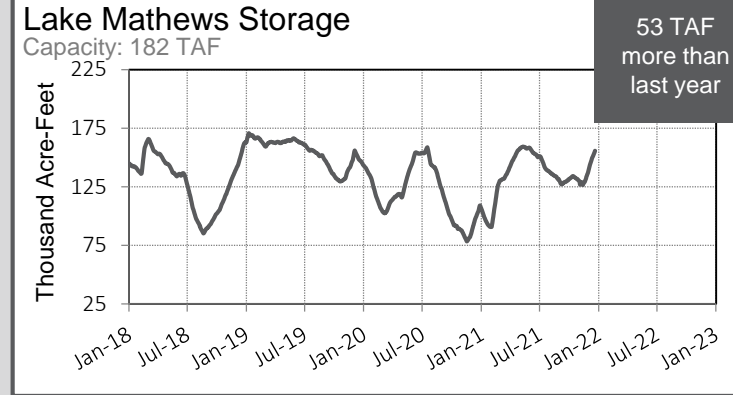
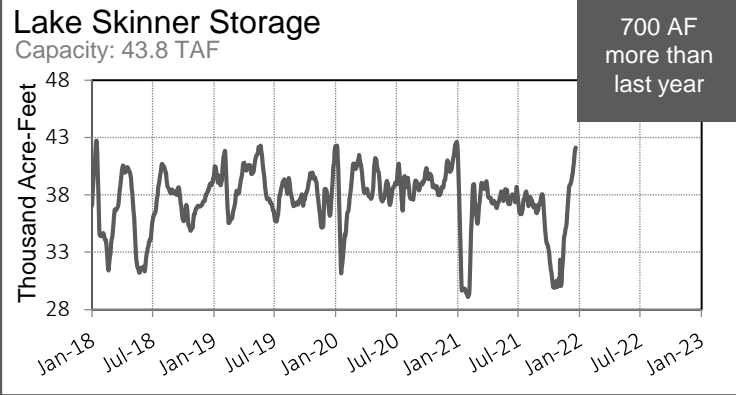
(SEAL)



SWP Table A – 15% - 286,725 AF



Metropolitan Resources



Projected CRA Diversions – 1,149,000 AF



Highlights

- SWP Allocation increased to 15% of Table A
- Powell unregulated inflow forecast updated to 89% of normal



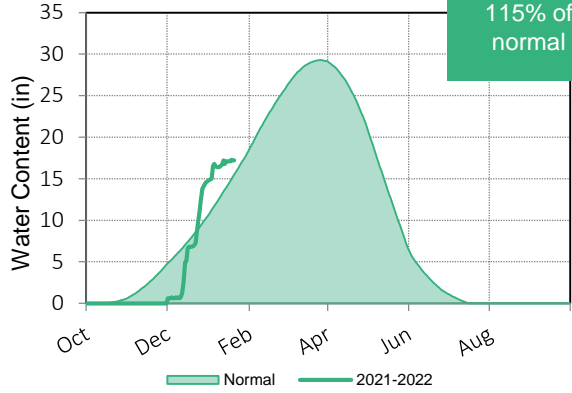
This report is produced by the Water Resource Management Group and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California cannot guarantee the accuracy or completeness of this information. Readers should refer to the relevant state, 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

State Water Project Resources

As of: 01/19/2022

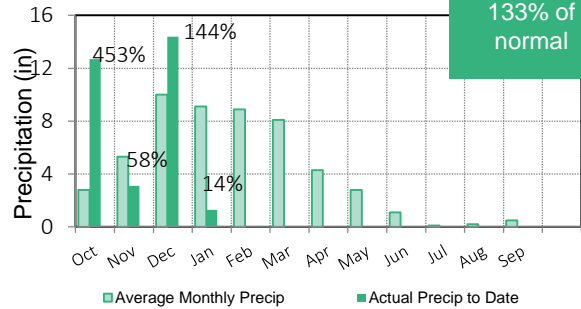
Northern Sierra Snowpack

17.2in
115% of normal



8 Station Index Precipitation

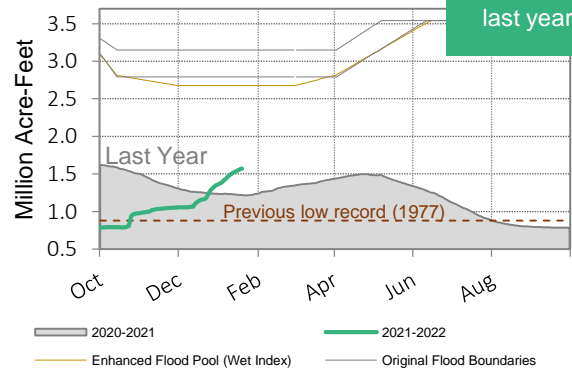
31.5 in
133% of normal



Oroville Reservoir Storage

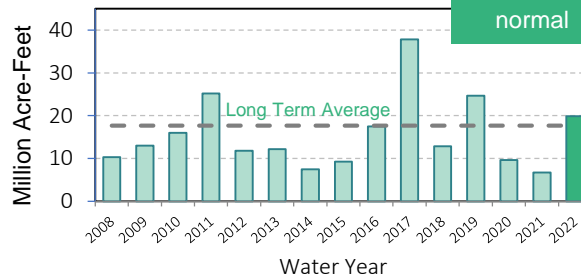
Capacity: 3.54 MAF

355 TAF
more than last year



Sacramento River Runoff

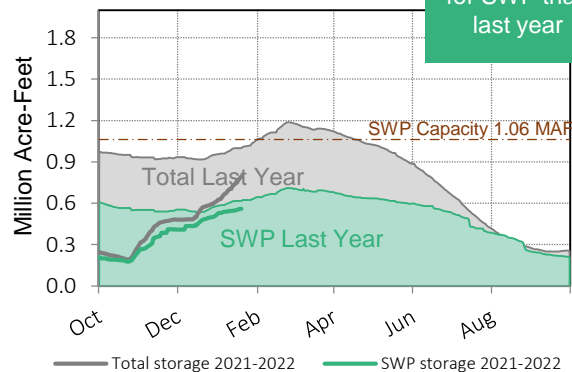
Forecast:
113% of normal



San Luis Reservoir Storage

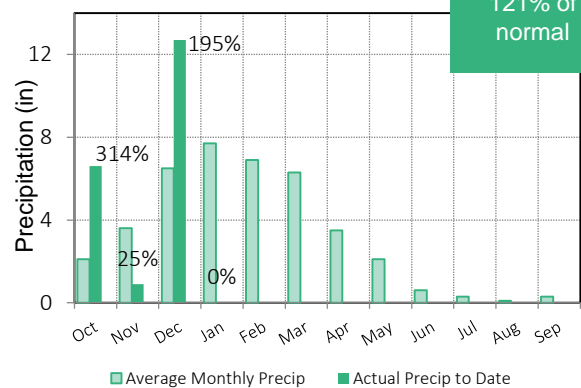
Capacity: 2.04 MAF

55 TAF less
for SWP than last year



5 Station Index Precipitation

20.2 in
121% of normal

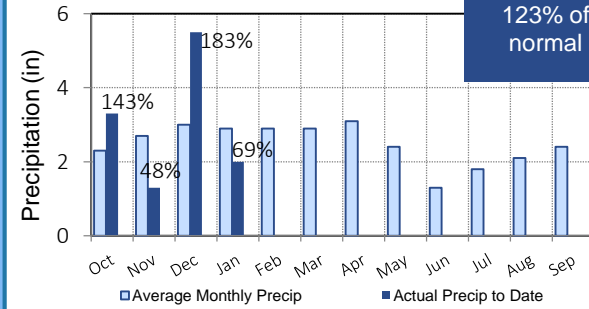


Colorado River Resources

As of: 01/19/2022

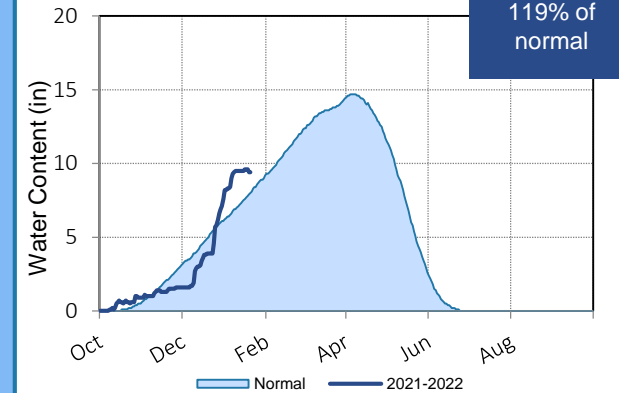
Upper Colorado Precipitation

12.1 in
123% of normal



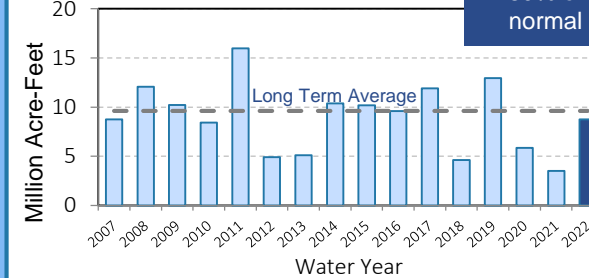
Upper Colorado Snowpack

9.4 in
119% of normal



Powell Unregulated Inflow

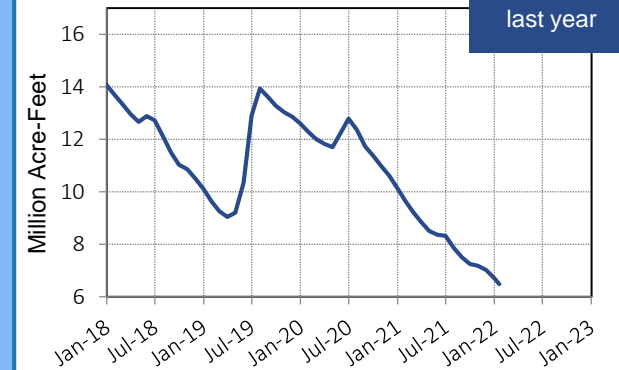
Forecast:
89% of normal



Lake Powell Storage

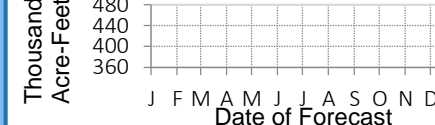
Capacity: 24.3 MAF

3.34 MAF
less than last year



PVID/Yuma Agricultural Use

Annual Forecasted for 2022



Current
Annual
Forecast:
TBD

Projected Lake Mead ICS

Calendar Year 2022

Put (+) / Take (-)
-251,000 AF

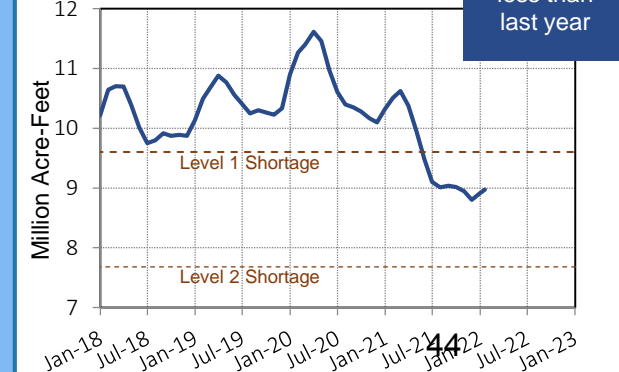
Lake Mead Surplus/Shortage Outlook

Updated table is expected in February 2022

Lake Mead Storage

Capacity: 26.1 MAF

1.47 MAF
less than last year



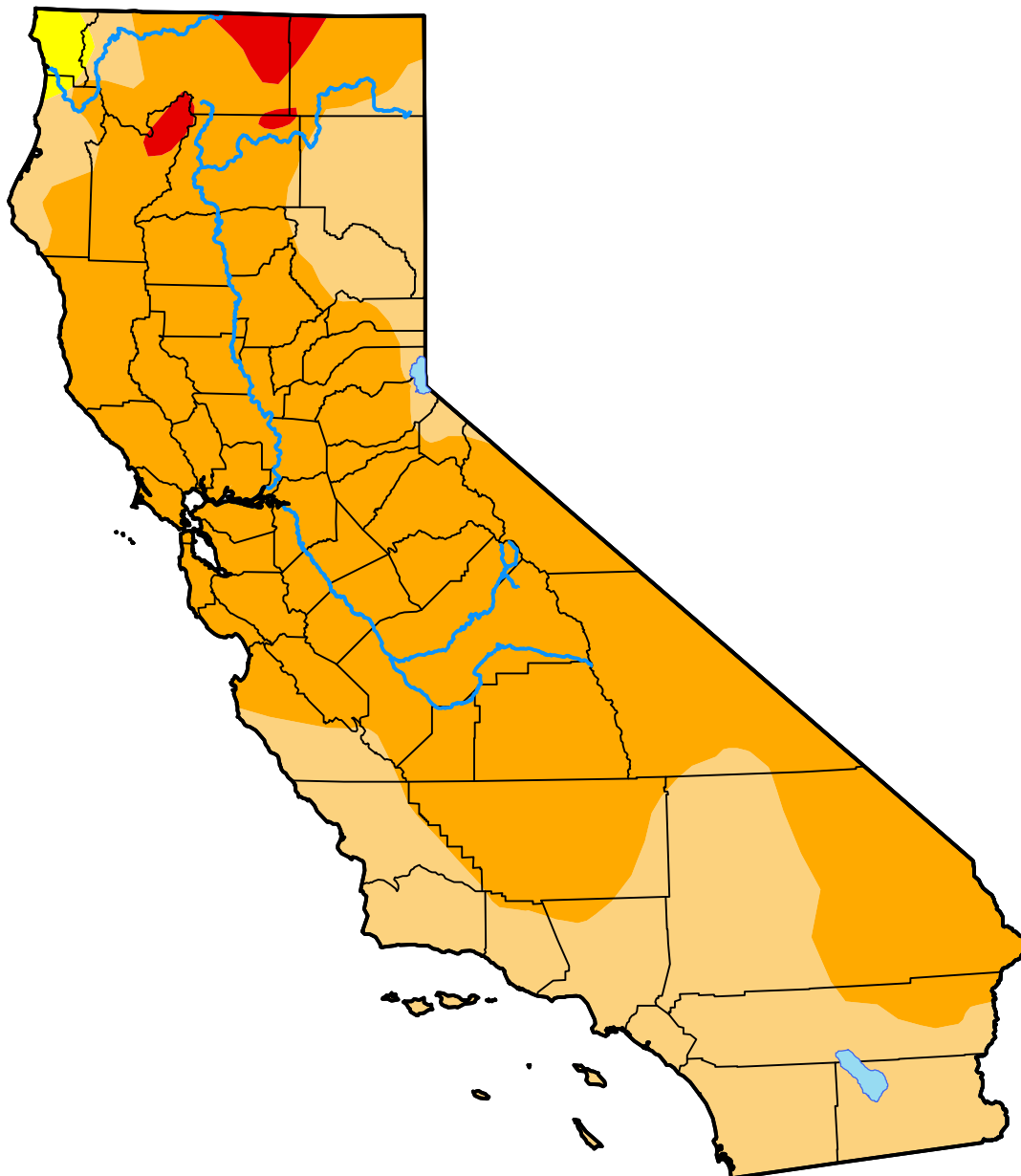
U.S. Drought Monitor California

January 18, 2022
(Released Thursday, Jan. 20, 2022)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.25	66.39	1.39	0.00
Last Week <i>01-11-2022</i>	0.00	100.00	99.25	66.39	1.39	0.00
3 Months Ago <i>10-19-2021</i>	0.00	100.00	100.00	93.81	87.18	45.66
Start of Calendar Year <i>01-04-2022</i>	0.00	100.00	99.30	67.62	16.60	0.84
Start of Water Year <i>09-28-2021</i>	0.00	100.00	100.00	93.93	87.88	45.66
One Year Ago <i>01-19-2021</i>	0.00	100.00	95.20	78.12	39.46	1.19



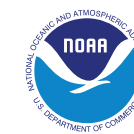
Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

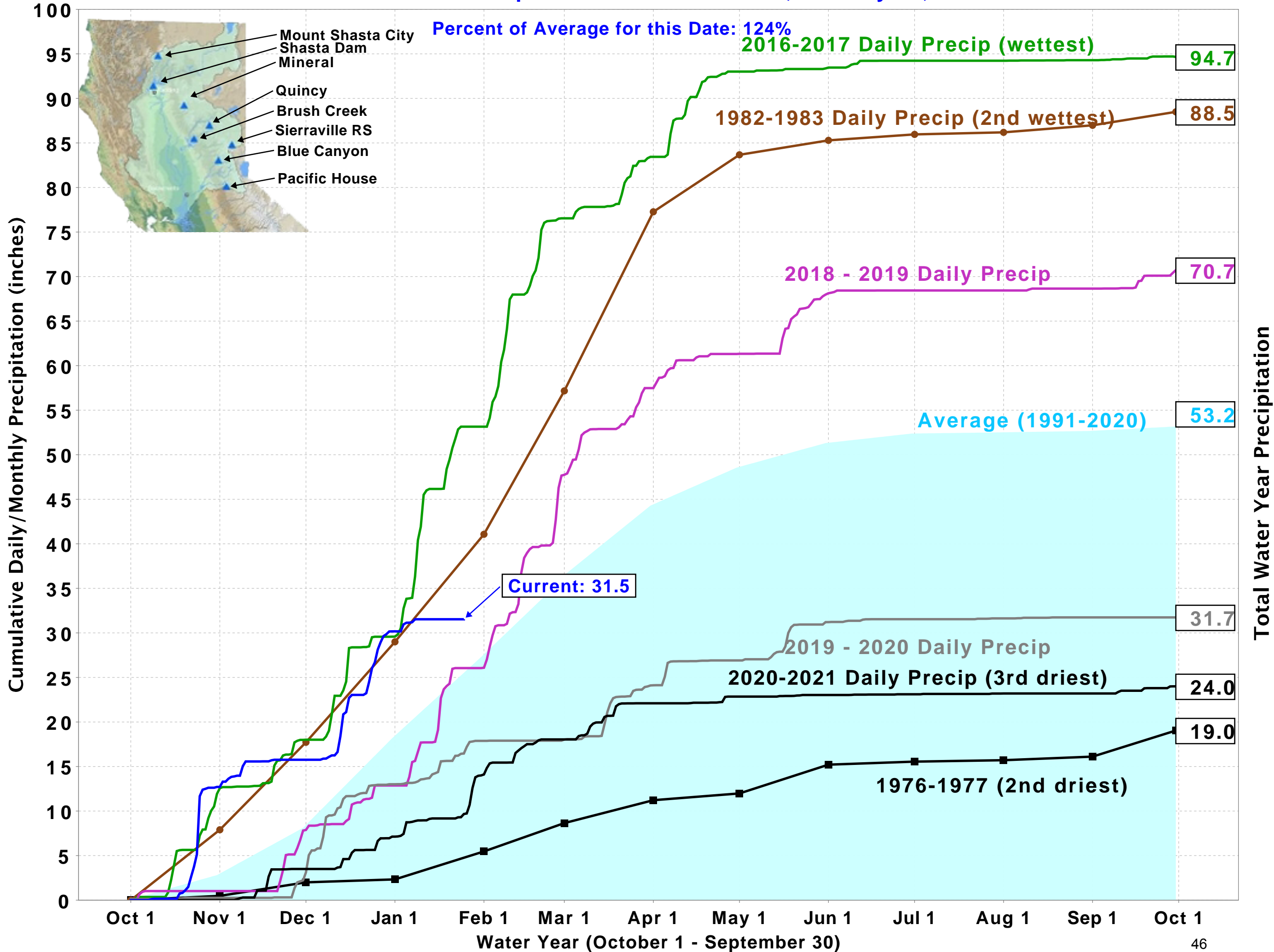
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Brian Fuchs
National Drought Mitigation Center



Northern Sierra Precipitation: 8-Station Index, January 25, 2022

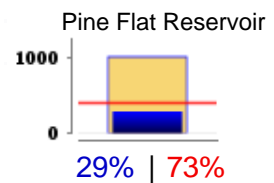
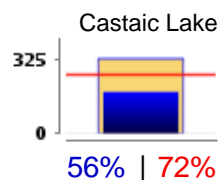
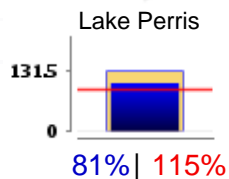
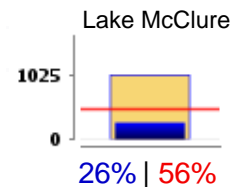
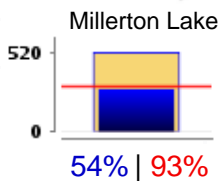
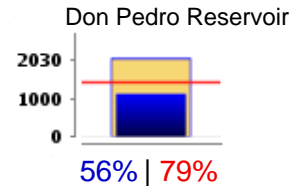
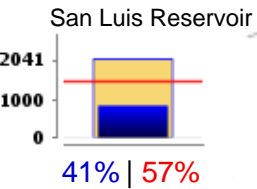
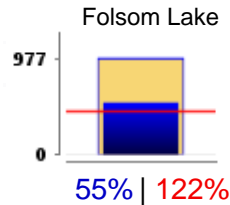
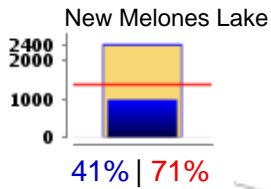
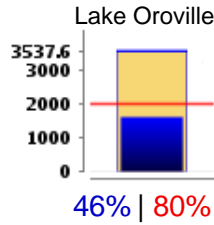
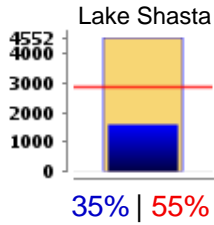
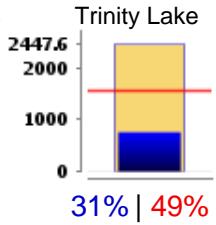
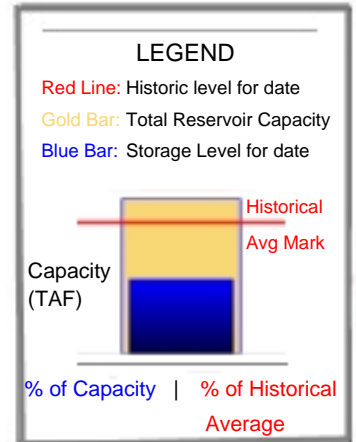




CURRENT RESERVOIR CONDITIONS

SELECTED WATER SUPPLY RESERVOIRS

Midnight: January 25, 2022





STATEWIDE SNOW WATER CONTENT

CURRENT REGIONAL SNOWPACK FROM AUTOMATED SNOW SENSORS

% of April 1 Average / % of Normal for This Date



NORTH	
Data as of January 25, 2022	
Number of Stations Reporting	29
Average snow water equivalent (Inches)	17.1
Percent of April 1 Average (%)	60
Percent of normal for this date (%)	104

CENTRAL	
Data as of January 25, 2022	
Number of Stations Reporting	42
Average snow water equivalent (Inches)	16.9
Percent of April 1 Average (%)	58
Percent of normal for this date (%)	102

SOUTH	
Data as of January 25, 2022	
Number of Stations Reporting	30
Average snow water equivalent (Inches)	14.1
Percent of April 1 Average (%)	55
Percent of normal for this date (%)	105

STATE	
Data as of January 25, 2022	
Number of Stations Reporting	101
Average snow water equivalent (Inches)	16.1
Percent of April 1 Average (%)	58
Percent of normal for this date (%)	104

Statewide Average: 58% / 104%

Data as of January 25, 2022



February 1, 2022 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Budget Planning Calendar for Fiscal Years 2022-24

SUMMARY:

This item provides a schedule for key activities associated with the development and adoption of the Fiscal Years 2022-24 Budget.

RECOMMENDATION(S):

Receive and file the Budget Planning Calendar for Fiscal Years 2022-24.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact associated with this action.

DISCUSSION:

This process will result in the preparation of the fourth two-year budget for the District. Attached is a schedule that outlines the time-frame and process to review and adopt the budget for Fiscal Years 2022-23 and 2023-24.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Brian Richie, Finance Manager

ATTACHMENTS:

Budget Planning Calendar for Fiscal Years 2022-2024

Las Virgenes Municipal Water District
FY 2022-23 & FY 2023-24 Budget Planning Calendar

Date	Board Activity	Description
2/1/2022	LV Board Meeting	Budget Process review - distribute Budget Planning Calendar
2/15/2022	LV Board Meeting	Financial Status Report - Second Quarter
3/1/2022	LV Board Meeting	IIP to LV Board for review
4/4/2022	LV Board Workshop	Budget Workshop
		Review Staffing requirements
5/17/2022	LV Board Meeting	Financial Status Report - 3rd Quarter
		LV Preliminary Budget to Board
6/21/2022	LV Board Meeting	LV Budget Adoption



February 1, 2022 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Monthly Cash and Investment Report: December 2021

SUMMARY:

In December 2021, the District implemented a web-based investment portfolio accounting and reporting tool, called the Tracker Portfolio Accounting and Reporting software, to simplify the labor-intensive and time-consuming task of investment management. The software enhances the accuracy of the District's reports by verifying the entry of investment information, updating market prices and generating enhanced reports with updated charts and graphs. The first report is a work in progress and can be modified to present the information to the Board in the most useful manner.

The value of the District's investment portfolio increased from \$104,588,491, held on November 30th, to \$106,347,392, including \$9,300,000 in loan proceeds for the Automatic Meter Reading/Advanced Metering Infrastructure (AMR/AMI) Project. Total cash held by the District, including the investment portfolio and Wells Fargo sweep money market account, was \$110,398,265, up from \$108,570,955 held on November 30th. No investments matured or were called; two investments were purchased, increasing the book value to \$61,843,000. The value of the District's Local Agency Investment Fund (LAIF) account increased to \$33,006,902, and the District's CAMP account increased to \$11,115,659.

RECOMMENDATION(S):

Receive and file the Monthly Cash and Investment Report for December 2021.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

DISCUSSION:

As of December 31, 2021, the District held \$106,347,392, down 3.79% year-over-year. The portfolio was up 1.68% from the previous month's total of \$104,588,491. The majority of the funds were held in the District's self-managed investment account, which had a December 31st book value of \$61,843,000. LAIF held the majority of the remaining funds, in the amount of \$33,006,902. CAMP held \$11,115,659, and the remaining portion was held in a money market account. The annualized yield of the District's investment portfolio was 1.43% in December 2021, up from November's 1.42%. The annualized yield on the District's LAIF funds was 0.22% in December, up from 0.20% in November. The annualized yield on the District's CAMP funds was 0.05% in December, flat from November. The combined total yield on the District's funds was 0.81%, down from 1.04% year-over-year.

The following investment were purchased during December 2021:

- 12/09/21 – FFCB, agency bond, in the amount of \$1,000,000, maturing on 11/30/26; YTM 1.34%.
- 12/22/21 – FHLB, agency bond, in the amount of \$1,000,000, maturing on 12/22/26; YTM 0.875%.

There were no transactions for the District's LAIF account.

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 LAIF.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Brian Riche, Finance Manager

ATTACHMENTS:

Monthly Investment Report
Cash Report - December 2021



**LAS VIRGENES MUNICIPAL WATER DISTRICT
MONTHLY CASH AND INVESTMENT REPORT
December 31, 2021**

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	61,843,000.00	62,002,930.52	61,879,433.79	56.05	1.43	984
2 LAIF	33,006,901.83	33,006,901.83	33,006,901.83	29.90	0.21	1
3 CAMP	11,115,659.18	11,115,659.18	11,115,659.18	10.07	0.05	1
4 US Bank Blackrock	221,900.37	221,900.37	221,900.37	0.20	0.00	1
5 Wells Fargo Operating	4,174,369.64	4,174,369.64	4,174,369.64	3.78	0.01	1
Total / Average	110,361,831.02	110,521,761.54	110,398,264.81	100.00	0.87	552

David W. Pedersen, General Manager

Date

Lynda Lo-Hill, Treasurer

Date



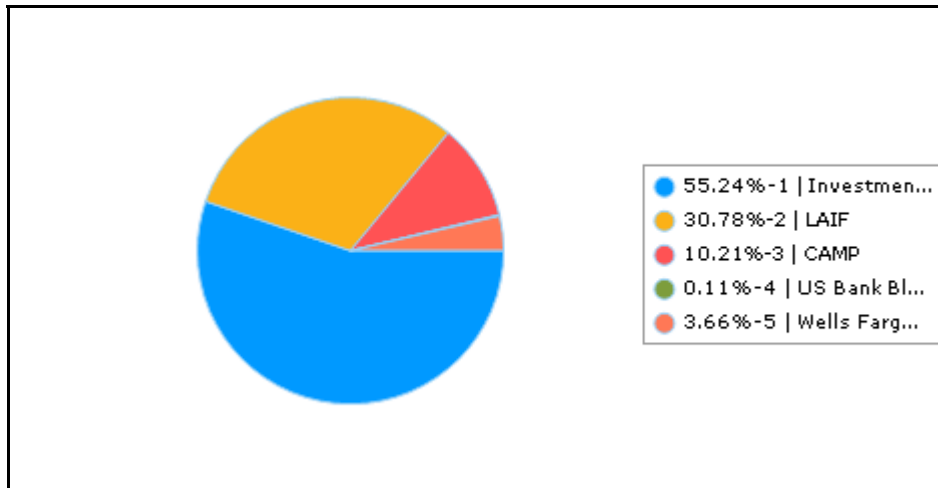
Las Virgenes Municipal Water District CA Distribution by Main Fund - Market Value All Portfolios

Begin Date: 11/30/2021, End Date: 12/31/2021

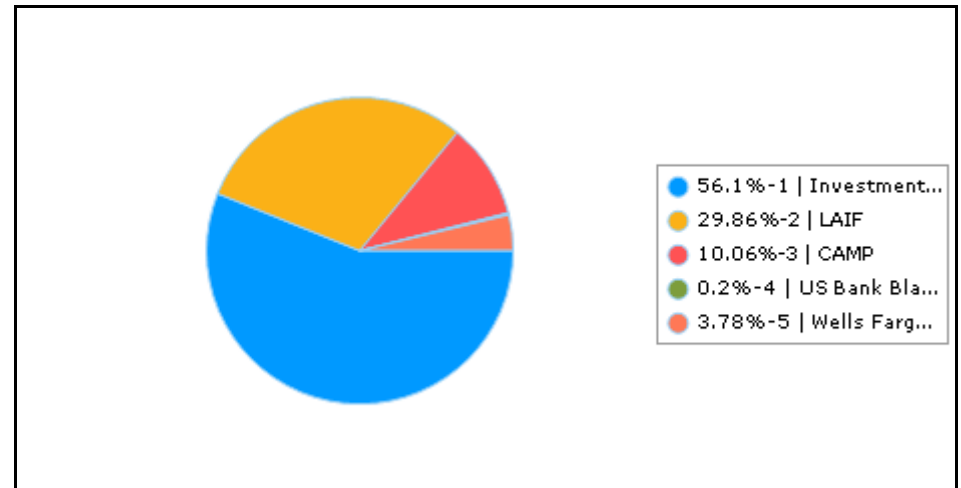
Main Fund Allocation

Main Fund	Market Value 11/30/2021	% of Portfolio 11/30/2021	Market Value 12/31/2021	% of Portfolio 12/31/2021
1 Investments	60,132,478.80	55.24	62,002,930.52	56.10
2 LAIF	33,506,901.83	30.78	33,006,901.83	29.86
3 CAMP	11,115,184.09	10.21	11,115,659.18	10.06
4 US Bank Blackrock	123,404.83	0.11	221,900.37	0.20
5 Wells Fargo Operating	3,982,464.20	3.66	4,174,369.64	3.78
Total / Average	108,860,433.75	100.00	110,521,761.54	100.00

Portfolio Holdings as of 11/30/2021



Portfolio Holdings as of 12/31/2021





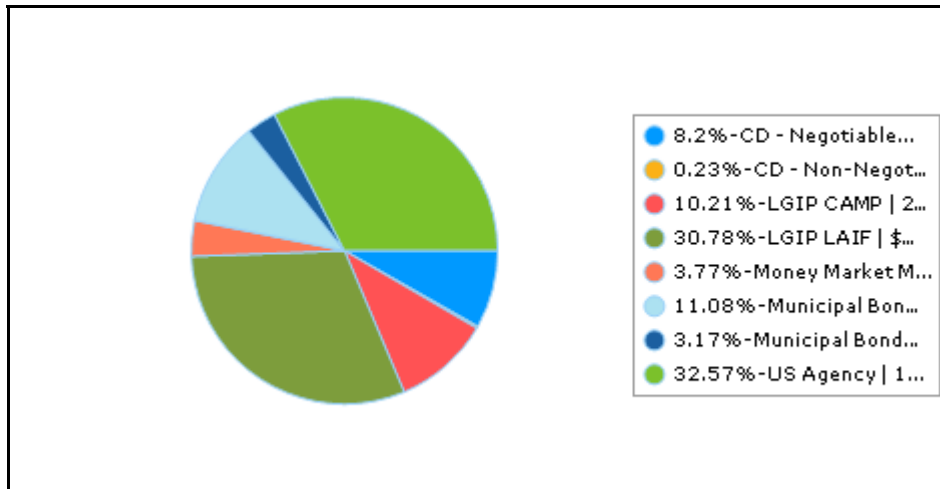
Las Virgenes Municipal Water District Investment Policy All Portfolios

Begin Date: 11/30/2021, End Date: 12/31/2021

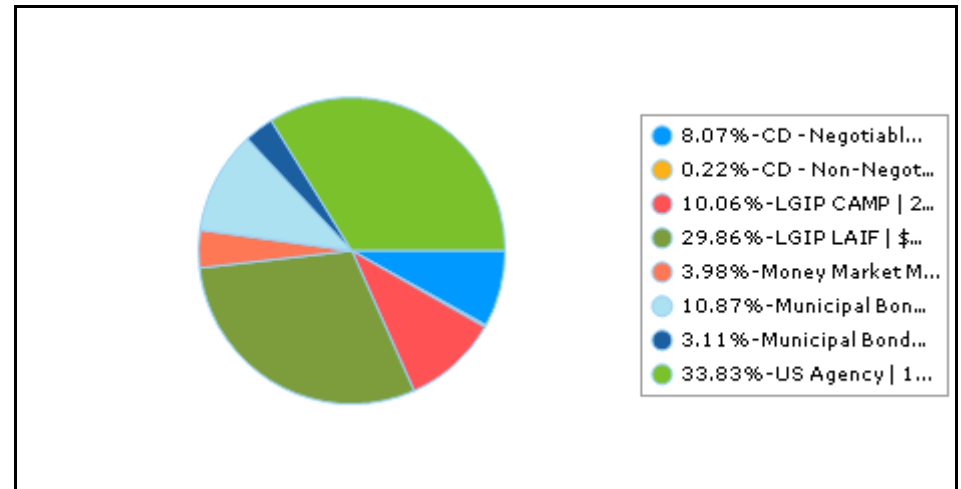
Asset Category Allocation

Asset Category	Market Value 11/30/2021	% of Portfolio 11/30/2021	Market Value 12/31/2021	% of Portfolio 12/31/2021
CD - Negotiable 25 %	8,929,969.75	8.20	8,915,544.02	8.07
CD - Non-Negotiable 25 %	247,957.15	0.23	247,454.90	0.22
LGIP CAMP 25 %	11,115,184.09	10.21	11,115,659.18	10.06
LGIP LAIF \$ 65M	33,506,901.83	30.78	33,006,901.83	29.86
Money Market Mutual Funds 20 %	4,105,869.03	3.77	4,396,270.01	3.98
Municipal Bonds - Local 100 %	12,057,825.10	11.08	12,012,702.60	10.87
Municipal Bonds 100 %	3,445,612.00	3.17	3,435,770.00	3.11
US Agency 100 %	35,451,114.80	32.57	37,391,459.00	33.83
Total / Average	108,860,433.75	100.00	110,521,761.54	100.00

Portfolio Holdings as of 11/30/2021



Portfolio Holdings as of 12/31/2021



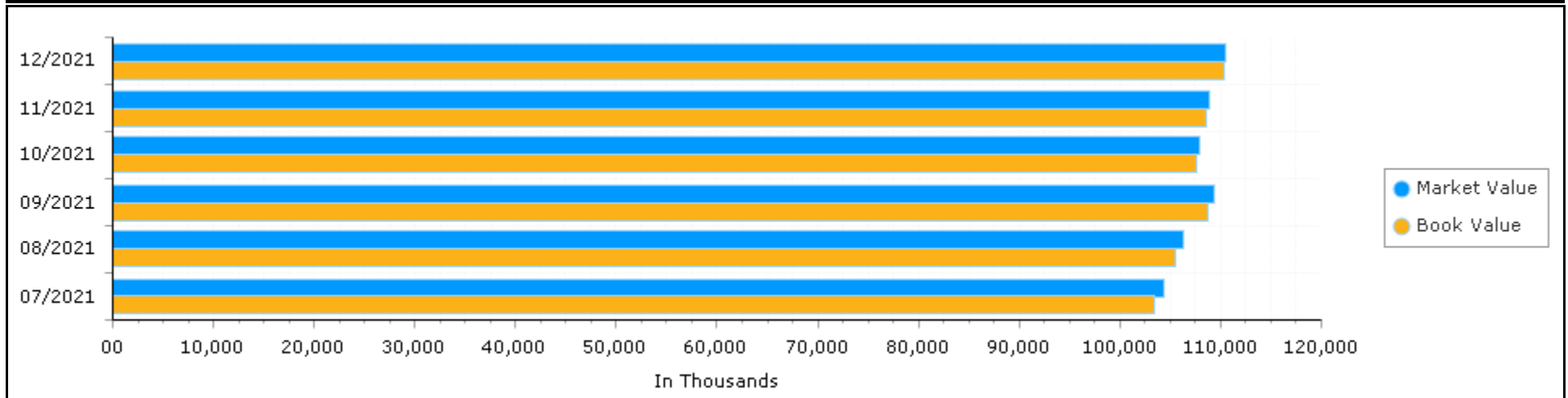


Las Virgenes Municipal Water District CA Portfolio Summary by Month All Portfolios

Begin Date: 7/31/2021, End Date: 12/31/2021

Month	Market Value	Book Value	Unrealized Gain/Loss	YTM @ Cost	YTM @ Market	Duration	Days To Maturity
7/31/2021	104,452,979.08	103,460,826.62	992,152.46	0.91	0.36	1.62	602
8/31/2021	106,357,565.28	105,474,973.50	882,591.78	0.88	0.37	1.54	575
9/30/2021	109,403,864.11	108,689,323.51	714,540.60	0.83	0.38	1.48	548
10/31/2021	107,985,564.96	107,565,777.18	419,787.78	0.85	0.47	1.50	558
11/30/2021	108,860,433.75	108,605,724.50	254,709.25	0.86	0.51	1.47	545
12/31/2021	110,521,761.54	110,398,264.81	123,496.73	0.87	0.58	1.49	552
Total / Average	107,930,361.45	107,365,815.02	564,546.43	0.87	0.45	1.52	563

Market Value / Book Value Comparison





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

Begin Date: 7/31/2021, End Date: 12/31/2021

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
7/31/2021	106,417,446.47	111,377.90	0.00	111,377.90	105,861,619.29	0.11	1.27	0.41
8/31/2021	103,676,084.37	77,876.75	0.00	77,876.75	101,096,605.15	0.08	0.93	0.42
9/30/2021	105,712,783.22	73,155.72	0.00	73,155.72	104,871,865.36	0.07	0.84	0.47
10/31/2021	108,909,218.68	80,101.57	0.00	80,101.57	109,562,578.89	0.07	0.88	0.67
11/30/2021	107,789,215.73	75,351.92	0.00	75,351.92	107,673,361.29	0.07	0.84	0.82
12/31/2021	108,835,925.03	81,971.53	0.00	81,971.53	111,354,022.16	0.07	0.89	0.95
Total/Average	106,417,446.47	499,835.39	0.00	499,835.39	106,701,396.43	0.47	0.94	0.62



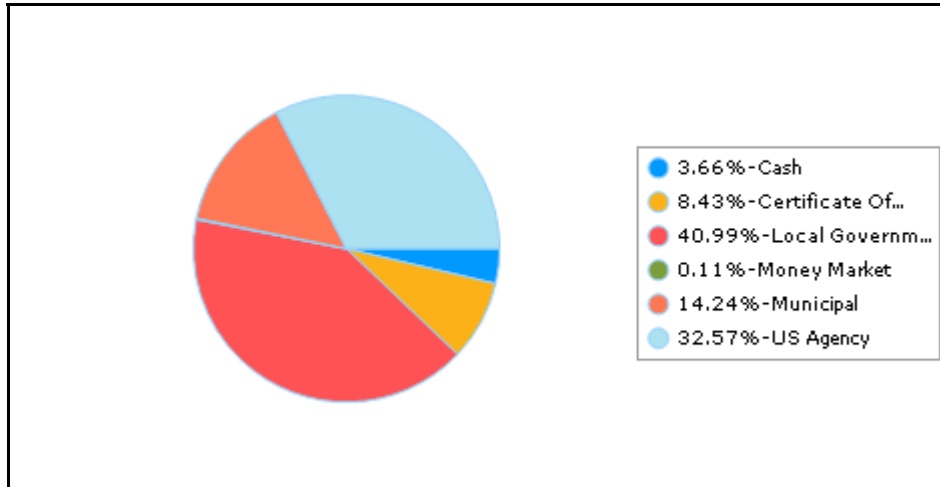
Las Virgenes Municipal Water District CA Distribution by Security Sector - Market Value All Portfolios

Begin Date: 11/30/2021, End Date: 12/31/2021

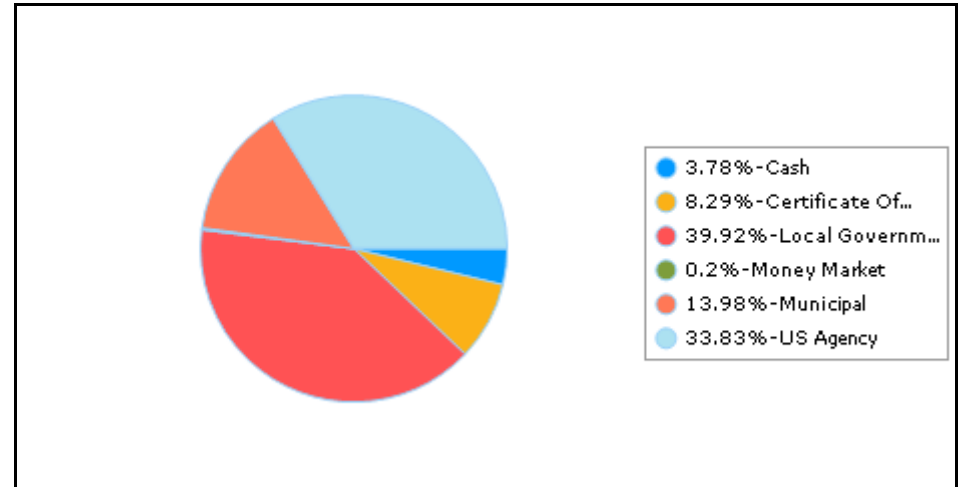
Security Sector Allocation

Security Sector	Market Value 11/30/2021	% of Portfolio 11/30/2021	Market Value 12/31/2021	% of Portfolio 12/31/2021
Cash	3,982,464.20	3.66	4,174,369.64	3.78
Certificate Of Deposit	9,177,926.90	8.43	9,162,998.92	8.29
Local Government Investment Pool	44,622,085.92	40.99	44,122,561.01	39.92
Money Market	123,404.83	0.11	221,900.37	0.20
Municipal	15,503,437.10	14.24	15,448,472.60	13.98
US Agency	35,451,114.80	32.57	37,391,459.00	33.83
Total / Average	108,860,433.75	100.00	110,521,761.54	100.00

Portfolio Holdings as of 11/30/2021



Portfolio Holdings as of 12/31/2021





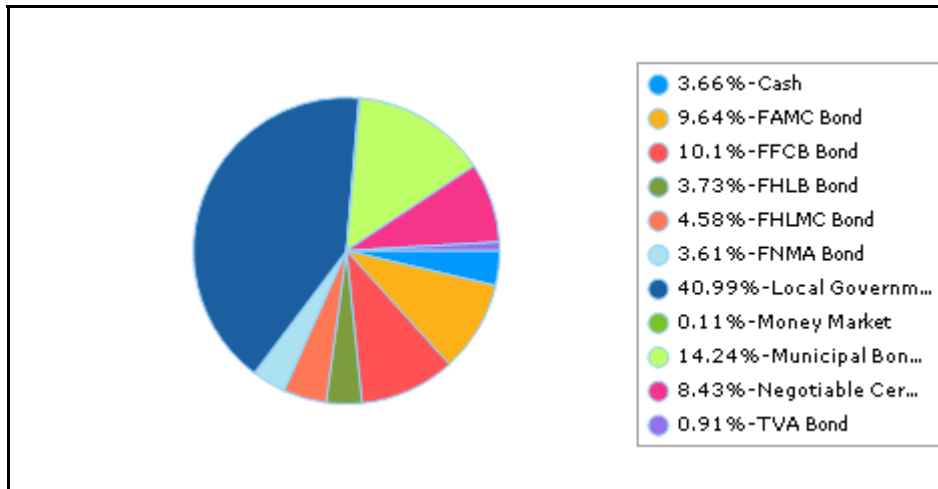
Las Virgenes Municipal Water District CA Distribution by Security Type - Market Value All Portfolios

Begin Date: 11/30/2021, End Date: 12/31/2021

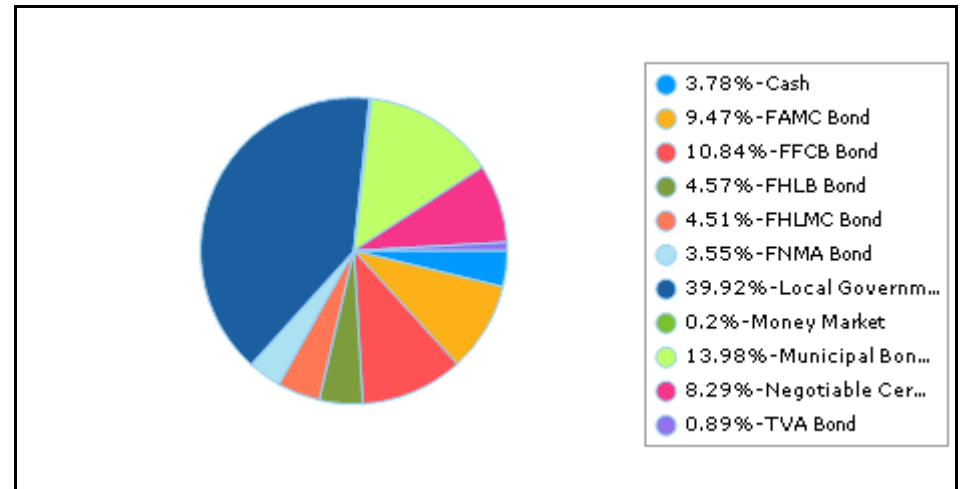
Security Type Allocation

Security Type	Market Value 11/30/2021	% of Portfolio 11/30/2021	Market Value 12/31/2021	% of Portfolio 12/31/2021
Cash	3,982,464.20	3.66	4,174,369.64	3.78
FAMC Bond	10,493,474.80	9.64	10,462,699.00	9.47
FFCB Bond	10,991,800.00	10.10	11,986,030.00	10.84
FHLB Bond	4,062,270.00	3.73	5,051,360.00	4.57
FHLMC Bond	4,980,890.00	4.58	4,980,980.00	4.51
FNMA Bond	3,930,810.00	3.61	3,924,180.00	3.55
Local Government Investment Pool - Quarterly	44,622,085.92	40.99	44,122,561.01	39.92
Money Market	123,404.83	0.11	221,900.37	0.20
Municipal Bond	15,503,437.10	14.24	15,448,472.60	13.98
Negotiable Certificate Of Deposit	9,177,926.90	8.43	9,162,998.92	8.29
TVA Bond	991,870.00	0.91	986,210.00	0.89
Total / Average	108,860,433.75	100.00	110,521,761.54	100.00

Portfolio Holdings as of 11/30/2021



Portfolio Holdings as of 12/31/2021





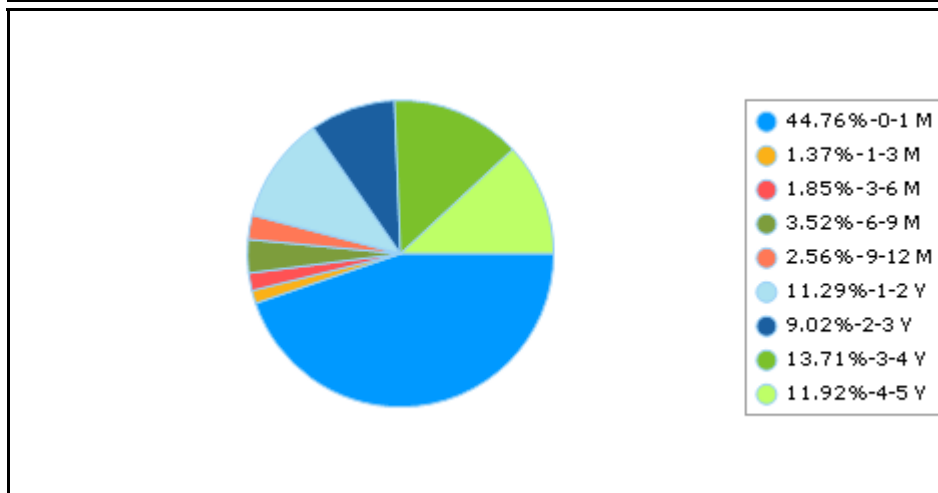
Las Virgenes Municipal Water District CA Distribution by Maturity Range - Market Value All Portfolios

Begin Date: 11/30/2021, End Date: 12/31/2021

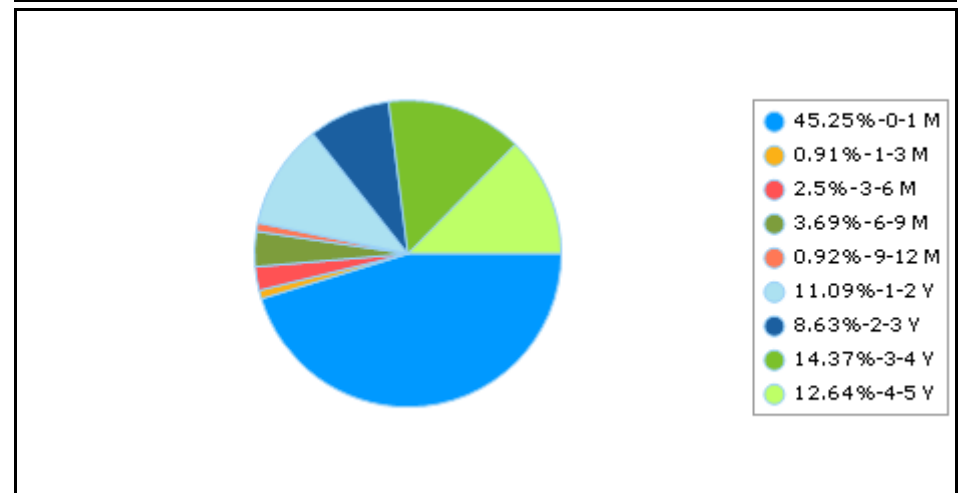
Maturity Range Allocation

Maturity Range	Market Value 11/30/2021	% of Portfolio 11/30/2021	Market Value 12/31/2021	% of Portfolio 12/31/2021
0-1 Month	48,727,954.95	44.76	50,010,333.62	45.25
1-3 Months	1,493,969.00	1.37	1,004,650.00	0.91
3-6 Months	2,014,470.00	1.85	2,759,997.30	2.50
6-9 Months	3,827,241.90	3.52	4,080,662.70	3.69
9-12 Months	2,788,483.65	2.56	1,019,390.20	0.92
1-2 Years	12,290,688.10	11.29	12,254,373.35	11.09
2-3 Years	9,820,013.90	9.02	9,542,220.05	8.63
3-4 Years	14,924,743.45	13.71	15,877,566.50	14.37
4-5 Years	12,972,868.80	11.92	13,972,567.82	12.64
Total / Average	108,860,433.75	100.00	110,521,761.54	100.00

Portfolio Holdings as of 11/30/2021



Portfolio Holdings as of 12/31/2021



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: All Portfolios
As of 12/31/2021

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
0-1 Month								
Farmers & Merchants Bank MD 1.65 1/18/2022	30810NBP0	1.650	Certificate Of Deposit	Bullet	1/18/2022	245,000.00	245,171.50	0.40
FHLMC 2 1/26/2022	3134GAU44	2.046	US Agency	Bullet	1/26/2022	999,969.32	1,001,140.00	1.61
Wells Fargo Bank NV 1.8 1/18/2022	949495AN5	1.800	Certificate Of Deposit	Bullet	1/18/2022	245,000.00	245,191.10	0.40
Total / Average 0-1 Month		1.940				1,489,969.32	1,491,502.60	2.40
1-3 Months								
New York State 2.55 3/15/2022	6500356Z6	2.550	Municipal	Bullet	3/15/2022	1,000,000.00	1,004,650.00	1.62
Total / Average 1-3 Months		2.550				1,000,000.00	1,004,650.00	1.62
3-6 Months								
Beverly Hills CA 0.373 6/1/2022	088006JW2	0.373	Municipal	Bullet	6/1/2022	250,000.00	250,067.50	0.40
California State 2 5/1/2022	13066YTZ2	3.063	Municipal	Bullet	5/1/2022	996,685.61	1,005,260.00	1.56
FHLMC Step 6/29/2022	3134GBUZ3	2.104	US Agency	Bullet	6/29/2022	1,000,030.37	1,009,760.00	1.62
Goldman Sachs Bank NY 2.35 6/21/2022	38148PKX4	2.350	Certificate Of Deposit	Bullet	6/21/2022	245,000.00	247,454.90	0.40
Sallie Mae Bank UT 2.35 6/21/2022	795450A70	2.350	Certificate Of Deposit	Bullet	6/21/2022	245,000.00	247,454.90	0.40
Total / Average 3-6 Months		2.330				2,736,715.98	2,759,997.30	4.37
6-9 Months								
American Express 2.4 8/29/2022	02587CFU9	2.400	Certificate Of Deposit	Bullet	8/29/2022	245,000.00	248,464.30	0.40
Bank Hapoalim NY 0.25 8/26/2022	06251A2D1	0.250	Certificate Of Deposit	Bullet	8/26/2022	245,000.00	244,948.55	0.40
Capital One VA 2.4 8/30/2022	14042RHS3	2.400	Certificate Of Deposit	Bullet	8/30/2022	245,000.00	248,444.70	0.40
FAMC 1.98 6/30/2022	3132X0UH2	2.810	US Agency	Bullet	6/30/2022	463,184.20	468,999.00	0.73
FFCB 1.75 9/13/2022	3133EHYR8	1.766	US Agency	Bullet	9/13/2022	999,894.85	1,011,360.00	1.61
Maryland State 1.59 8/1/2022	574193RY6	1.590	Municipal	Bullet	8/1/2022	1,000,000.00	1,006,830.00	1.62
Rowland ISD CA 0.445 8/1/2022-22	779631JV3	0.445	Municipal	Callable	8/1/2022	100,000.00	100,003.00	0.16
San Francisco California 2.5 9/1/2022-22	79772EAX7	2.605	Municipal	Callable	9/1/2022	499,673.65	506,645.00	0.80
Texas Capital Bank 0.25 8/8/2022	88224PLZ0	0.250	Certificate Of Deposit	Bullet	8/8/2022	245,000.00	244,968.15	0.40
Total / Average 6-9 Months		1.803				4,042,752.70	4,080,662.70	6.51
9-12 Months								
California State 0.349 11/1/2022	13077DMH2	0.349	Municipal	Bullet	11/1/2022	500,000.00	499,790.00	0.81
Martinez Financing Authority CA 0.405 12/1/2022	57339JAN0	0.405	Municipal	Bullet	12/1/2022	270,000.00	269,646.30	0.44

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
Wells Fargo Bank 2.5 12/8/2022	949763LR5	2.500	Certificate Of Deposit	Bullet	12/8/2022	245,000.00	249,953.90	0.40
Total / Average 9-12 Months		0.883				1,015,000.00	1,019,390.20	1.64
1-2 Years								
California State 2.25 10/1/2023	13063DDG0	3.092	Municipal	Bullet	10/1/2023	986,426.59	1,024,990.00	1.55
Citibank National Association 3.15 5/11/2023	17312QL23	3.150	Certificate Of Deposit	Bullet	5/11/2023	245,000.00	253,944.95	0.40
FAMC 2.13 1/24/2023	31315PZS1	2.338	US Agency	Bullet	1/24/2023	997,920.79	1,018,220.00	1.60
FAMC 2.9 7/24/2023	3132X03V1	2.981	US Agency	Bullet	7/24/2023	998,828.33	1,035,580.00	1.61
FFCB 0.27 10/5/2023-21	3133EMBQ4	0.282	US Agency	Callable	10/5/2023	999,794.47	994,030.00	1.62
FFCB 0.3 9/1/2023-21	3133EL5J9	0.300	US Agency	Callable	9/1/2023	1,000,000.00	995,310.00	1.62
FFCB 2.7 4/11/2023	3133EJKN8	2.700	US Agency	Bullet	4/11/2023	1,000,000.00	1,030,750.00	1.62
FHLB 3.25 6/9/2023	313383QR5	2.536	US Agency	Bullet	6/9/2023	1,009,664.70	1,038,470.00	1.66
FHLB 3.375 9/8/2023	313383YJ4	2.227	US Agency	Bullet	9/8/2023	1,018,320.79	1,045,580.00	1.69
First Missouri State Bank 2.85 8/14/2023	32100LB00	2.850	Certificate Of Deposit	Bullet	8/14/2023	245,000.00	254,150.75	0.40
Medallion Bank UT 1.7 12/22/2023	58404DFX4	1.700	Certificate Of Deposit	Bullet	12/22/2023	245,000.00	250,088.65	0.40
Morgan Stanley Bank 2.65 1/11/2023	61747MF63	2.650	Certificate Of Deposit	Bullet	1/11/2023	245,000.00	250,752.60	0.40
Oklahoma Water Resources OK 0.432 10/1/2023-23	67920QWY0	0.432	Municipal	Callable	10/1/2023	100,000.00	99,430.00	0.16
Ontario California 2.216 6/1/2023	68304FAC0	1.420	Municipal	Bullet	6/1/2023	1,101,973.74	1,102,851.10	1.80
Redondo Beach CA 0.415 5/1/2023-23	757696AP4	0.415	Municipal	Callable	5/1/2023	500,000.00	498,080.00	0.81
Rowland ISD CA 0.541 8/1/2023	779631JW1	0.541	Municipal	Bullet	8/1/2023	400,000.00	398,284.00	0.65
University California 3.297 5/15/2023-23	91412HBK8	3.297	Municipal	Callable	5/15/2023	930,000.00	963,861.30	1.50
Total / Average 1-2 Years		2.003				12,022,929.41	12,254,373.35	19.48
2-3 Years								
Bank New England NH 2.65 5/23/2024	06426KBE7	2.650	Certificate Of Deposit	Bullet	5/23/2024	245,000.00	256,066.65	0.40
California State 0.56 12/1/2024-24	13067WRB0	0.560	Municipal	Callable	12/1/2024	250,000.00	246,042.50	0.40
California State 1.646 11/1/2024-24	13077DKC5	1.646	Municipal	Callable	11/1/2024	400,000.00	406,420.00	0.65
California State 3 4/1/2024	13063DLZ9	2.500	Municipal	Bullet	4/1/2024	1,010,511.72	1,047,620.00	1.65
California State University 0.563 11/1/2024	13077DQC9	0.563	Municipal	Bullet	11/1/2024	400,000.00	394,396.00	0.65
Comenity Capital Bank UT 2.75 4/30/2024	20033AU95	2.750	Certificate Of Deposit	Bullet	4/30/2024	245,000.00	256,431.70	0.40
Enerbank UT 2.15 8/7/2024	29278TKJ8	2.150	Certificate Of Deposit	Bullet	8/7/2024	245,000.00	253,508.85	0.40
FAMC 1.74 9/26/2024	31422BMD9	1.664	US Agency	Bullet	9/26/2024	1,001,985.74	1,020,620.00	1.62
FAMC 1.79 11/1/2024	31422BPG9	1.804	US Agency	Bullet	11/1/2024	999,622.86	1,021,890.00	1.62
FFCB 2.16 6/3/2024	3133EKNX0	1.865	US Agency	Bullet	6/3/2024	1,006,787.29	1,036,070.00	1.64
FFCB 2.37 2/5/2024	3133EH5S8	2.524	US Agency	Bullet	2/5/2024	996,984.76	1,037,810.00	1.60
First Farmers Bank & Trust 1.75 9/4/2024	320165JK0	1.750	Certificate Of Deposit	Bullet	9/4/2024	245,000.00	251,036.80	0.40
Morgan Stanley Bank 3.35 1/10/2024	61760ATZ2	3.350	Certificate Of Deposit	Bullet	1/10/2024	245,000.00	258,269.20	0.40
Pasadena Pension CA 1.8 5/1/2024	70227RBK5	1.800	Municipal	Bullet	5/1/2024	260,000.00	263,432.00	0.42
South Gate Utility CA 2.224 10/1/2024-24	83789TBQ1	2.224	Municipal	Callable	10/1/2024	500,000.00	514,175.00	0.81
TIAA FSB FL 3 2/22/2024	87270LBU6	3.000	Certificate Of Deposit	Bullet	2/22/2024	245,000.00	257,061.35	0.40

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
University Northern CO 2.147 6/1/2024	914733DV9	2.147	Municipal	Bullet	6/1/2024	1,000,000.00	1,021,370.00	1.62
Total / Average 2-3 Years		2.042				9,295,892.37	9,542,220.05	15.05
3-4 Years								
Alexandria Utilities LA 1.498 5/1/2025-25	015086NJ6	1.498	Municipal	Callable	5/1/2025	400,000.00	402,920.00	0.65
Bank Baroda NY 0.6 7/22/2025	06063HMR1	0.600	Certificate Of Deposit	Bullet	7/22/2025	245,000.00	241,320.10	0.40
Beverly Hills CA 0.719 6/1/2025	088013FG7	0.719	Municipal	Bullet	6/1/2025	500,000.00	491,535.00	0.81
California State 0.751 12/1/2025-25	13067WSV5	0.751	Municipal	Callable	12/1/2025	250,000.00	244,620.00	0.40
Celtic Bank UT 1.5 4/17/2025	15118RUX3	1.500	Certificate Of Deposit	Bullet	4/17/2025	245,000.00	249,221.35	0.40
City of Santa Rosa 0.977 9/1/2025-25	802649TJ2	0.977	Municipal	Callable	9/1/2025	500,000.00	494,080.00	0.81
FAMC 0.48 6/19/2025	31422BD98	0.531	US Agency	Bullet	6/19/2025	998,273.64	978,740.00	1.61
FFCB 0.46 11/3/2025	3133EMFS6	0.493	US Agency	Bullet	11/3/2025	998,746.91	974,300.00	1.61
FFCB 0.47 12/22/2025-22	3133EMLC4	0.470	US Agency	Callable	12/22/2025	1,000,000.00	970,190.00	1.62
FHLMC 0.5 9/30/2025-22	3134GWWQ5	0.500	US Agency	Callable	9/30/2025	1,000,000.00	976,040.00	1.62
FHLMC 0.65 6/30/2025-22	3134GVT99	0.650	US Agency	Callable	6/30/2025	1,000,000.00	984,770.00	1.62
FHLMC 1.8 1/10/2025-22	3134GUQ94	1.800	US Agency	Callable	1/10/2025	1,000,000.00	1,009,270.00	1.62
First National Bank TX 1.35 4/28/2025	32112UDR9	1.350	Certificate Of Deposit	Bullet	4/28/2025	245,000.00	247,998.80	0.40
Flagstar Bank MI 0.6 7/22/2025	33847E3W5	0.600	Certificate Of Deposit	Bullet	7/22/2025	245,000.00	241,320.10	0.40
FNMA 0.54 10/27/2025-22	3136G45C3	0.540	US Agency	Callable	10/27/2025	1,000,000.00	977,030.00	1.62
FNMA 0.57 11/17/2025-22	3135GA3X7	0.570	US Agency	Callable	11/17/2025	1,000,000.00	983,270.00	1.62
FNMA 0.625 7/21/2025-22	3136G4ZJ5	0.625	US Agency	Callable	7/21/2025	1,000,000.00	981,550.00	1.62
FNMA 0.65 8/14/2025-22	3136G4C43	0.650	US Agency	Callable	8/14/2025	1,000,000.00	982,330.00	1.62
Iberia Bank LA 1 3/20/2025	45083ANS7	1.000	Certificate Of Deposit	Bullet	3/20/2025	245,000.00	245,379.75	0.40
KEMBA Financial Credit Union 1.8 1/8/2025	48836LAJ1	1.800	Certificate Of Deposit	Bullet	1/8/2025	245,000.00	251,534.15	0.40
Knoxville TVA TN 1.95 1/16/2025	499724AL6	1.950	Certificate Of Deposit	Bullet	1/16/2025	245,000.00	252,646.45	0.40
Minnwest Bank South MN 0.5 7/15/2025	60425SHY8	0.500	Certificate Of Deposit	Bullet	7/15/2025	245,000.00	240,518.95	0.40
Pacific Western Bank CA 1.35 4/16/2025	69506YRG6	1.350	Certificate Of Deposit	Bullet	4/16/2025	245,000.00	248,025.75	0.40
Preferred Bank CA 0.5 7/17/2025	740367MA2	0.500	Certificate Of Deposit	Bullet	7/17/2025	245,000.00	240,499.35	0.40
San Francisco California 0.728 6/15/2025-25	79773KDC5	0.728	Municipal	Callable	6/15/2025	500,000.00	491,475.00	0.81
Somerset Trust Company 1 3/19/2025	835104BZ2	1.000	Certificate Of Deposit	Bullet	3/19/2025	245,000.00	245,387.10	0.40
State Bank India NY 1.05 6/10/2025	856285TR2	1.050	Certificate Of Deposit	Bullet	6/10/2025	245,000.00	245,384.65	0.40
TVA 0.75 5/15/2025	880591EW8	0.625	US Agency	Bullet	5/15/2025	1,004,144.37	986,210.00	1.63
Total / Average 3-4 Years		0.788				16,091,164.92	15,877,566.50	26.01
4-5 Years								
City of Palm Springs 1.402 11/1/2026	69666JHX9	1.402	Municipal	Bullet	11/1/2026	500,000.00	492,920.00	0.81
FAMC 0.48 1/15/2026	31422B6K1	0.489	US Agency	Bullet	1/15/2026	999,601.74	972,610.00	1.62
FAMC 0.83 3/27/2026	31422XDX7	0.828	US Agency	Bullet	3/27/2026	1,000,085.80	984,770.00	1.62
FAMC 0.9 10/2/2026-22	31422XNH1	0.900	US Agency	Callable	10/2/2026	1,000,000.00	984,520.00	1.62
FAMC 0.925 6/10/2026-22	31422XHF2	0.925	US Agency	Callable	6/10/2026	1,000,000.00	987,320.00	1.62

Description	CUSIP/Ticker	YTM @ Cost	Security Sector	Bullet/Callable	Maturity Date	Book Value	Market Value	% of Portfolio
FAMC 0.95 5/4/2026-23	31422XFP2	0.950	US Agency	Callable	5/4/2026	1,000,000.00	989,430.00	1.62
FFCB 0.45 2/2/2026-23	3133EMPD8	0.450	US Agency	Callable	2/2/2026	1,000,000.00	970,700.00	1.62
FFCB 0.71 8/10/2026-23	3133EM2C5	0.710	US Agency	Callable	8/10/2026	1,000,000.00	976,660.00	1.62
FFCB 0.8 3/9/2026-23	3133EMSU7	0.800	US Agency	Callable	3/9/2026	1,000,000.00	985,850.00	1.62
FFCB 1.34 11/30/2026	3133ENFV7	1.291	US Agency	Bullet	11/30/2026	1,002,321.55	1,003,000.00	1.62
FHLB 0.65 3/10/2026-22	3130ALDS0	0.650	US Agency	Callable	3/10/2026	1,000,000.00	984,320.00	1.62
FHLB 0.75 9/28/2026-21	3130ANY38	0.750	US Agency	Callable	9/28/2026	1,000,000.00	983,800.00	1.62
FHLB Step 12/22/2026-22	3130AQ2B8	1.869	US Agency	Callable	12/22/2026	1,000,000.00	999,190.00	1.62
Greenstate Credit Union 0.95 4/16/2026	39573LBC1	0.950	Certificate Of Deposit	Bullet	4/16/2026	245,000.00	242,569.60	0.40
JPMorgan Chase 0.5 1/6/2026	48128UVT3	0.500	Certificate Of Deposit	Bullet	1/6/2026	245,000.00	238,882.35	0.40
Nelnet Bank UT 0.75 4/15/2026	64034KAF8	0.750	Certificate Of Deposit	Bullet	4/15/2026	245,000.00	240,538.55	0.40
Oceanside Water CA 1.103 5/1/2026	675413DL9	1.103	Municipal	Bullet	5/1/2026	210,000.00	207,078.90	0.34
Synchrony Bank 1 10/22/2026	87164YE34	1.000	Certificate Of Deposit	Bullet	10/22/2026	248,000.00	244,773.52	0.40
Toyota Financial Savings NV 0.95 7/29/2026	89235MLE9	0.950	Certificate Of Deposit	Bullet	7/29/2026	245,000.00	241,866.45	0.40
UBS Bank UT 0.95 8/11/2026	90348JR93	0.950	Certificate Of Deposit	Bullet	8/11/2026	245,000.00	241,768.45	0.40
Total / Average 4-5 Years		0.902				14,185,009.09	13,972,567.82	22.92
Total / Average		1.431				61,879,433.79	62,002,930.52	100

LVMWD CASH ANALYSIS - December 31, 2021

	Restricted Cash	Cash Held by Policy	Policy Requirement	Unallocated Funds
101 - Potable Water Operations		27,060,988	9,997,207	
201 - Potable Water Construction	392,758			
301 - Potable Water Replacement		3,782,431	11,177,935	
603 - Rate Stabilization Fund		8,767,250	8,000,000	
AMR/AMI Loan		<u>9,300,000</u>		
Total Potable Water		48,910,669	29,175,142	19,735,527
102 - Recycled Water Operations		15,518,347	1,100,143	
203 - Recycled Water Construction	593,904			
302 - Recycled Water Replacement		2,617,843	2,539,440	
Recycled Water Assigned Funds		5,000,000		
Total Recycled Water	593,904	23,136,190	3,639,582	15,090,511
130 - Sanitation Operations		5,737,076	3,291,214	
230 - Sanitation Construction	4,959,085			
330 - Sanitation Replacement		8,580,563	12,573,074	
Sanitation Assigned Funds		10,000,000		
Total Sanitation	4,959,085	24,317,639	15,864,287	3,412,436
701 - Vested Sick Leave Reserve	1,295,032			
720 - Insurance Reserve		8,190,294	7,871,864	318,430
JPA	3,395,169			
701 - Internal Services Fund	(4,792,474)			
<i>Subtotal</i>	<i>5,843,473</i>	<i>104,554,792</i>		
TOTAL		110,398,265		

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

Restricted Cash - Revenue restricted to a particular purpose.

Bond Covenants - Money relating to bond financing that is restricted in use and required by promises made in bond documents.

Funds are reconciled at year-end.



February 1, 2022 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

Subject : Authorization of Woolsey Fire Relief for 1709 Lechusa Drive

SUMMARY:

Mr. Carey Peck, the property owner of 1709 Lechusa Drive, lost his property during the 2018 Woolsey Fire. As part of his effort to rebuild, Mr. Peck requested relief from the District to upgrade from a 3/4-inch meter to a 1-inch meter to comply with new building code fire sprinkler requirements. On June 11, 2019, the Board adopted a policy to provide the requested relief for certain eligible customers who lost their homes in the Woolsey Fire to support the rebuilding process.

During review of the request, staff discovered that the District's records did not reflect a meter dedicated to Mr. Peck's property at 1709 Lechusa Drive and that his property was being served through a service line connected to a meter that was assigned to a neighboring property. However, Mr. Peck is listed as the customer of record for the meter and has been paying the monthly water bills for an extended period of time.

Mr. Peck initially addressed the Board on November 16, 2021 to request relief toward the fees for upgrading his meter to a larger size as outlined in the District's Woolsey Fire Relief Program. Since that time and to prevent delays to his rebuilding efforts, Mr. Peck paid the full capacity fee deposit of \$28,540 for a one-inch service to allow him to proceed with permit approvals. After thoroughly reviewing the matter and due to the unusual circumstances, staff recommends that the Board authorize the Woolsey Fire relief for Mr. Peck's property, which would account for the difference in cost between a 3/4-inch and one-inch service, resulting in a credit of \$10,162.

RECOMMENDATION(S):

Authorize the General Manager to apply the Woolsey Fire relief to offset the cost for upgrade from a 3/4-inch meter to a one-inch meter at 1709 Lechusa Drive.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

This action results in a net reduction of the capacity fee, in the amount of \$10,162.

DISCUSSION:

Mr. Carey Peck is the property owner of 1709 Lechusa Drive, located in the unincorporated area of Los Angeles County near the intersection of Decker Canyon Road and Lechusa Drive. Mr. Peck's property was destroyed during the November 2018 Woolsey Fire. As part of his effort to rebuild, Mr. Peck requested a financial arrangement letter from the District, which is required by the County of Los Angeles as part of the permitting process to ensure that the permittee has paid all of the applicable connection fees for the property. The District's applies capacity fees as a one-time capital charge to new developments as a means for new water and/or sanitation customers to pay their proportional share of the costs for the capital facilities needed to provide the service(s). Capacity fees are also commonly known as connection fees. All new customers must pay the applicable capacity fee before connecting to either the water or sanitation system.

During staff's review of the request for a financial arrangement letter, it was discovered that the District had no record of a deposit or paid capacity fee for 1709 Lechusa Drive. While Mr. Peck has been a paying customer for approximately 30 years with an active service account, his property and associated parcel did not reflect the payment of a capacity fee. Staff performed a field inspection, reviewed all account information and discovered that there were four parcels at the subject location being served with only three service meters (see attached map). It was determined that 1709 Lechusa was being served through a meter that was assigned to a neighboring property. Mr. Peck's property (1709) was being served through a meter that was assigned to the parcel associated with 1704 Lechusa. Staff researched the archived customer service records to confirm that the neighboring property (1704) had paid capacity fees associated with their property. However, there was no record of the capacity fees being paid for Mr. Peck's property (1709). Staff notified the property owners to gather additional information on the matter and notify them of the potentially-illicit connection. However, neither property owner recalled the specifics that may have lead to the discrepancy.

Since a single water meter had been servicing both properties, staff informed the respective owners of a violation of the Las Virgenes Municipal Water District Code (Code), which specifies that each property must be serviced by at least one meter. A single meter serving multiple parcels violates Section 3-2.101 of the Code since "*each single-family dwelling shall be served through at least one meter of at least 3/4-inch size and as such additional meters as the property owner may request.*" While Mr. Peck does not have a service and meter associated with his property, he was listed on the customer service account assigned to his neighboring property at 1704 Lechusa Drive. Due to the long-standing circumstances, it is unknown when the potentially-illicit connection was made between the properties. As a result of staff's findings, Mr. Peck was informed of the need to purchase a new water service and

meter for 1709 Lechusa.

Due to new building code regulations that require fire sprinklers for homes, many of the structures permitted through by the Los Angeles County Fire Department now require one-inch meters and services to provide sufficient capacity to meet the fire flow demands of the sprinkler systems. While Mr. Peck was using a potentially-illicit 3/4-inch meter to serve his property prior to the Woolsey Fire, he will be required to install a new one-inch service to obtain his permits to rebuild. Mr. Peck addressed the Board on November 16, 2021 during public comments and asked that the Board consider relief toward his fees as outlined in the District's Woolsey Fire Relief Program that was previously approved by the Board. Subsequently, Mr. Peck paid the full capacity fee deposit, in the amount of \$28,540, for a new one-inch service to allow him to proceed with obtaining permit approvals for his rebuild.

Based on the unique and long-standing circumstances, staff recommends the following to reconcile the discrepancy, support Mr. Peck's rebuilding efforts and bring the account into good standing with the District:

- Accept the capacity fee deposit, in the amount of \$28,540, for 1709 Lechusa Drive because there is no record of payment;
- Authorize the Woolsey Fire relief for 1709 Lechusa Drive to offset the cost for upgrade from a 3/4-inch meter to a one-inch meter; and
- Credit Mr. Peck with a refund, in the amount of \$10,162, from the capacity fee deposit to account for the difference in fee for a 3/4-inch and one-inch meter.

Staff discussed the tentative proposal to resolve these unique circumstances with Mr. Peck, and he indicated his support. He is thankful for the recommendation to and consideration by the Board. The proposal would provide the Mr. Peck with the same relief offered to other Woolsey Fire victims and acknowledges that Mr. Peck has been a District customer for several decades, even though the meter serving his property was assigned to a different property.

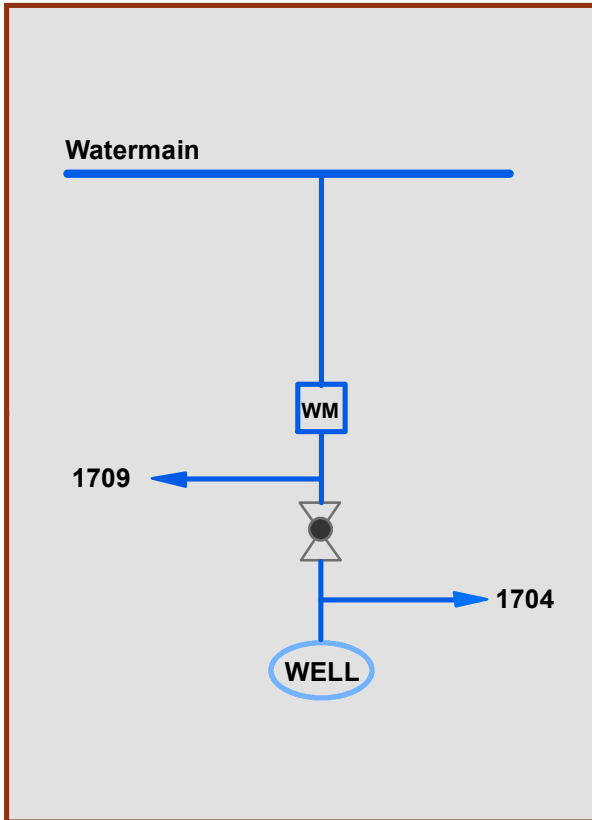
GOALS:

Provide Excellent Service That Exceeds Customer Expectations

Prepared by: Eric Schlageter, P.E., Principal Engineer

ATTACHMENTS:

Lechusa Road Services Exhibit



- Parcels 2020
- ⊕ Potable Water Hydrant
- ⊗ Potable Water Control Valve
- ⊠ AirRelease/VacuumRelease
- ⊙ Potable Water System Valve
- Butterfly
- ⊖ Gate
- Potable Water Main Line
- AirRelease
- DistributionMain

Meter #1 for the property 1704 Decker Rd

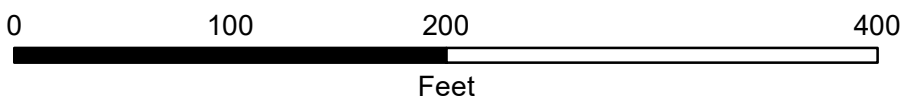
**Meter #2 for the property 1706 Decker Rd
Flowed, good**

**Meter #3 for the property 1710 Decker Rd
Flowed, good**

Meter used for the properties 1704 Decker Rd and 1700 Decker Rd
The property using well without backflow device @ meter

No capacity fees have ever been paid for the property 1709 Lechusa Rd, APN 4472-011-008.
2" PVC multiple hose bibs connected to the meter #1 dedicated to 1704 Decker Rd.

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



1709 Lechusa Rd

Las Virgenes Municipal Water District is not responsible for the accuracy of this presentation. This presentation is for illustrative purposes only. Verify the physical location of all property lines, water lines and ancillary information prior to use.



February 1, 2022 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Potable Water Standby Charge: Adoption

SUMMARY:

On November 16, 2021, the Board adopted Resolution No. 2602, regarding the District's intent to continue the Potable Water Replacement Fund Standby Charge pursuant to the Municipal Water District Law of 1911. On January 4, 2022, a public hearing was conducted for proposed Ordinance No. 284, as it relates to continuation of the Standby Charge for the fiscal year commencing on July 1, 2022, and the proposed Ordinance was given first reading by title only. There were no public comments. At this time, staff recommends that the Board adopt proposed Ordinance No. 284.

RECOMMENDATION(S):

Waive the full reading and give second reading by title only; pass, approve and adopt proposed Ordinance No. 284 as it relates to continuation of the Potable Water Replacement Fund Standby Charge for Fiscal Year 2022-23; and order publication within 15 days of adoption using a summary of the Ordinance.

ORDINANCE NO. 284 (SECOND READING AND ADOPTION)

AN ORDINANCE OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AS IT RELATES TO STANDBY CHARGES FOR THE FISCAL YEAR COMMENCING JULY 1, 2022

(Reference is hereby made to Ordinance No. 284 on file in the District's Ordinance Book and by this reference the same is incorporated herein.)

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The continuation of the Potable Water Replacement Fund Standby Charge is expected to provide approximately \$512,000 in revenue during Fiscal Year 2022-23 to support the Potable Water Replacement Fund.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Brian Richie, Finance Manager

ATTACHMENTS:

Proposed Ordinance No. 284

ORDINANCE NO. 284

AN ORDINANCE OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AS RELATES TO STANDBY CHARGES FOR THE FISCAL YEAR COMMENCING JULY 1, 2022

BE IT ORDAINED BY THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT as follows:

Section 1. Purpose

This ordinance fixes and continues a standby charge to be levied against each lot or parcel within the district for the fiscal year commencing July 1, 2022, for the purpose of financing the district's potable water replacement program. This charge is imposed pursuant to the Municipal Water District Law.

Section 2. Findings

The Board of Directors finds, determines and declares as follows:

- (a) The board has provided a duly published and mailed notice of public hearing and has conducted a public hearing to consider adoption of a standby assessment;
- (b) The board has considered the written and oral comments presented by interested parties concerning the assessment;
- (c) The district has approved a categorical exemption for the project under the California Environmental Quality Act because the charges are not designed to increase or expand services;
- (d) The standby assessment will be used to pay for a portion of the cost of the potable water replacement programs instituted by the district. Revenue generated from the standby charge does not exceed the cost of the program.
- (e) The report of a qualified engineer that forms the basis for the standby charge is on file with the District;
- (f) It is in the best interests of the district and the community which it serves to pay for a portion of water programs from the proceeds of standby assessments because landowners benefit from maintaining available water supply.

Section 3. Standby Charge

An annual standby charge in the amount of \$10.00 per acre for parcels over one acre, and \$10.00 for each parcel of land of less than one acre is hereby levied against all land within the district for the fiscal year commencing July 1, 2022. A description of the lands (by assessor parcel number) affected by the assessment is on file with the secretary.

Section 4. Collection

The Board of Supervisors and Auditor of the County of Los Angeles are hereby directed to levy, collect and remit to the district this standby charge at the time and in the manner required by law for the levying of taxes for county purposes.

Section 5. Deferrals

(a) A property owner may request a complete or partial deferral from the standby charge by filing a written request by April 12th, 2022 during the fiscal year for which the deferral is sought. The deferral shall be processed and evaluated in accordance with this section.

(b) The following property is eligible for deferral:

(i) Property owned and occupied by a federal, state or local governmental agency.

(ii) Property permanently dedicated to open-space.

(iii) Property which cannot use water supplied by the district due to restrictions imposed by deed or governmental agencies with land use jurisdiction.

(iv) Property which cannot reasonably be expected to derive any benefit from facilities constructed with the proceeds of the water standby charge.

(c) If the general manager approves the request, the charges paid by the applicant shall be refunded and no charge shall be levied for subsequent years. The applicant shall execute an agreement to repay the charges with interest if the property ceases to be eligible for the deferral. The agreement shall be recorded.

(d) If the general manager denies the request, the applicant may appeal denial of the deferral by the general manager by filing a written request for review within 10-days after the general manager's decision. The board shall promptly consider the request for review. The decision of the board shall be final.

(e) The general manager shall adopt reasonable rules and regulations to implement this section.

PASSED, APPROVED and ADOPTED on _____, 2022

Jay Lewitt
President

Lee Renger
Secretary

APPROVED AS TO FORM:

W. Keith Lemieux
District Counsel

(SEAL)



February 1, 2022 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

Subject : Stationary Emergency Generators for Critical Potable Water Pump Stations Project: Award

SUMMARY:

The Stationary Emergency Generators for Critical Potable Water Pump Stations Project involves the installation of stationary emergency generators at four of the District's potable water pump stations: Seminole, Jed Smith, Cold Canyon and Twin Lakes. The project was advertised for construction bids, and 10 bids were received and publicly opened on December 8, 2021. Staff evaluated the bids and determined the lowest responsible bid to be from Eco Energy Solutions, Inc., dba High Volt Electric, in the amount of \$1,948,130, which is 10% below the Engineer's Estimate. Staff recommends award of a construction contract to High Volt Electric for the Stationary Emergency Generator for Critical Potable Water Pump Stations Project.

RECOMMENDATION(S):

Award a construction contract to Eco Energy Solutions, Inc., dba High Volt Electric, in the amount of \$1,948,130; and reject all remaining bids upon receipt of the duly executed contract documents.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total cost of this action is \$1,948,130. Sufficient funding is available for the project in the adopted Fiscal Year 2021-22 Budget.

A significant portion of total project cost will be funded by a Section 404 Hazard Mitigation Grant awarded by the Federal Emergency Management Agency (FEMA) and California Governor’s Office of Emergency Services (CalOES) on October 26, 2020. FEMA/CalOES determined the total eligible project amount for the purposes of the grant to be \$2,304,657. The grant covers 75% of the total eligible project cost (\$1,728,492.75), which constitutes approximately 89% of the construction contract amount. The District is responsible for the remaining project cost.

Following is a summary of the estimated total project cost:

Description	Expenditures FY 2021-2022
Professional Services	
Design, Bidding & Construction Support – Michael Baker International	\$251,617.00
Land Acquisition Support – Hamner and Jewell	\$51,790.00
Land Acquisition Cost	
Los Angeles County Parks and Recreation Land Acquisition	\$19,650.23
Construction	
Construction Award – High Volt Electric	\$1,948,130
10% Contingency	\$194,813
Administrative Costs	
District Labor	\$77,925.20
G&A Allocations	\$136,369.10
Notice of Exemption – Los Angeles County	\$300
Total Estimated Project Cost	\$2,680,594.53
Section 404 Hazard Mitigation Grant	(\$1,728,492.75)
Total Net Estimated Project Cost	\$952,101.78

DISCUSSION:

In November 2018, the Woolsey Fire burned through western Los Angeles and eastern Ventura counties, impacting 66% of the District’s service area. During the fire, multiple facilities experienced power outages that put the District at risk of not being able to deliver water. The District has since procured two 200-kilowatt portable emergency generators to increase reliability during power outages. However, the portable generators do not have sufficient capacity to operate some of the District’s larger pump stations and access to certain sites can be challenging during an emergency. To increase system reliability in the event of future power outages and emergencies, staff recommended procuring and installing stationary emergency generators at four critical potable water pump stations: Seminole, Cold Canyon, Jed Smith and Twin Lakes. Attached for reference is a vicinity map showing the approximate locations of the generators.

The scope of work for the project includes the procurement and installation of stationary

generators sized to run the primary pumps at each station. The project includes the following elements:

- Automatic transfer switch gear to turn on the generators when no power is detected.
- 200-kilowatt (kW) generators at Cold Canyon and Jed Smith Pump Stations.
- 550-kW generators at Seminole and Twin Lakes Pump Stations.
- Instrumentation and programming to provide information of the status of the generators, leak detection, low fuel alarms and on/off run status.

The Engineer’s Estimate for construction of the project was \$2,155,500. High Volt Electric’s bid, in the amount of \$1,948,130, is approximately 10% below the Engineer’s Estimate. Bids were opened publicly on December 8, 2021, with the majority of the bidders in attendance.

Following is the summary of the submitted bids:

Engineer's estimate		
	\$2,155,500.00	
		Percentage Above or Below Engineer's Estimate
Bidder	Bid Amount	
High Volt Electric	\$1,948,130.00	-10%
Everlevel Holdings LLC	\$2,051,000.00	-5%
Cora Constructors, Inc.	\$2,188,000.00	2%
Environmental Construction DBA R2B ENGINEERING	\$2,249,424.00	4%
MCED, INC.	\$2,259,000.00	5%
Mehta Mechanical Co Inc dba MMC, Inc.	\$2,383,500.00	11%
Union Engineering Company	\$2,551,000.00	18%
Kiewit Infrastructure West	\$2,557,411.00	19%
Technion Contractors TCI, Inc.	\$2,645,000.00	23%
		34%

High Volt Electric has worked on similar projects for Amtrak and the U.S Department of Defense, Air Force, as a primary contractor for the installation of backup generators. Both agencies were contacted and provided good references for High Volt Electric. As a result, staff recommends award of a construction contract to High Volt Electric for the Stationary Emergency Generator for Critical Potable Water Pump Stations Project.

On September 15, 2021, the Board determined that the work is categorically exempt from the provisions of the California Environmental Quality Act (CEQA), pursuant to Article 19, Section 15301(b) of the CEQA Guidelines because it involves modification/rehabilitation of existing facilities with no expansion of use. A Notice of Exemption was completed and filed with the County Clerk.

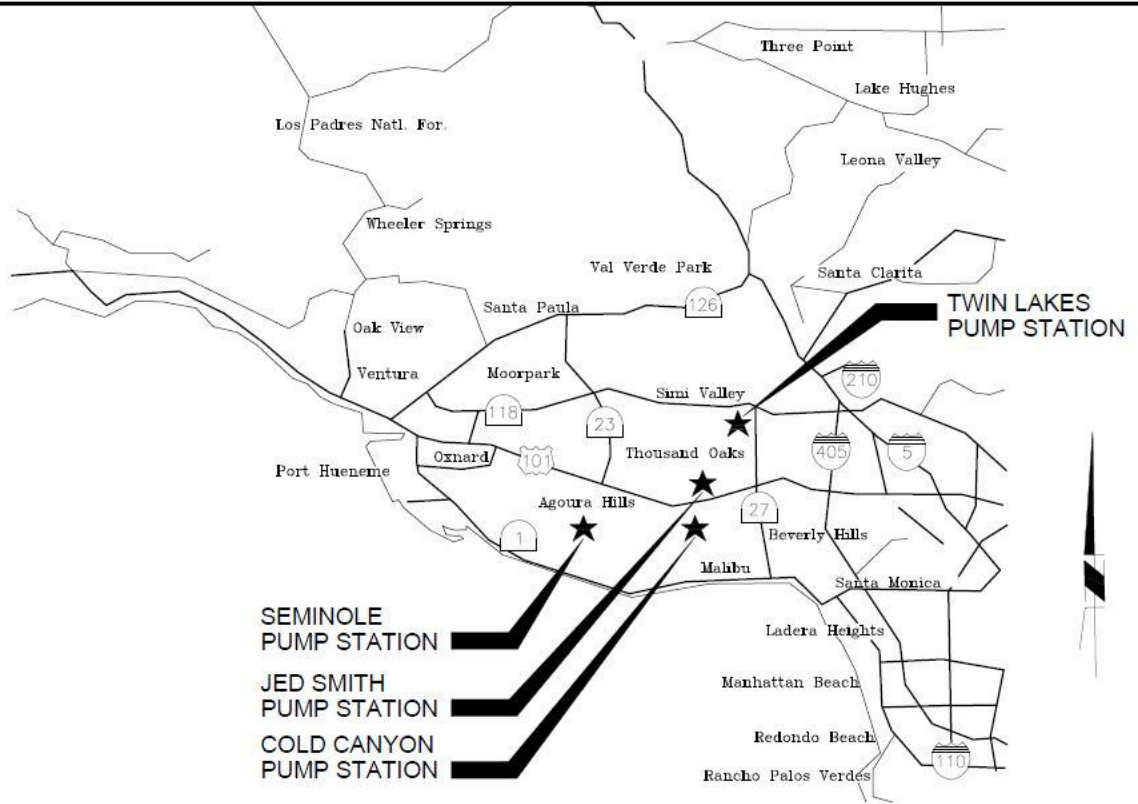
GOALS:

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

Prepared by: Mercedes Acevedo, E.I.T, Assistant Engineer

ATTACHMENTS:

Vicinity Map



VICINITY MAP

NOT TO SCALE



February 1, 2022 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

Subject : Las Virgenes Reservoir (Westlake) Dam Settlement Report

SUMMARY:

As part of the District's on-going surveillance monitoring program for Las Virgenes Reservoir Dam, the annual survey for the dam was recently 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 for shifting and settlement as compared to the previous year's surveys. The report incorporates data from 2021 and has been reviewed by the California Department of Water Resources, Division of Safety of Dams (DSOD).

RECOMMENDATION(S):

Receive and file the 2021 Las Virgenes Reservoir Dam Settlement Report.

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

There is no financial impact associated with this action.

DISCUSSION:

The District has been conducting surveys for Las Virgenes (Westlake) Reservoir Dam since its construction in 1972. On January 16, 2021, Benner and Carpenter Land Surveyors

completed the latest survey to assess potential settlement of the dam and spillway. The attached Las Virgenes Reservoir Dam Settlement Report 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 taken 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 Dam be monitored and reported. The California Water Code authorizes DSOD to issue rules and regulations to safeguard life and property regarding dams.

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. There have been no earthquakes of magnitude 5.0 or greater within the vicinity of the dam since the last survey was performed on February 12, 2020. Additionally, an automated seepage monitoring system connects to the District's 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.

In the 2021 survey, a new survey monument in the middle of the dam was included for future monitoring. Surveying was updated from traditional surveying techniques to more modern techniques. All future surveys will be use current surveying technology.

Rehabilitation of Concrete Spillway:

On October 19, 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.

Since then, staff has repaired some cracks in the spillway. The cracks were not due to alkali-silica reaction but caused by common wear and tear. Attached are photos illustrating the repairs. The repairs were also reported to State Water Resources Control Board Division of Drinking Water (DDW).

New DSOD Automated Alert System:

DSOD has developed a new automated alert system that notifies dam owners of the need for facility inspections when a 4.5 or greater magnitude earthquake occurs and other criteria related to the strength of the dam is met. When an alert is generated, an inspection of the dam by DSOD is triggered.

GOALS:

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

The on-going surveillance monitoring program and continued maintenance of Las Virgenes Reservoir Dam ensures the protection of property and safety of the general public.

Prepared by: Mercedes Acevedo, E.I.T, Assistant Engineer

ATTACHMENTS:

Las Virgenes Dam Settlement Report

Photo of Spillway Crack Repair

2021 Las Virgenes Dam Settlement Report

On January 26th, 2021, 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 February 12th, 2020 by Benner and Carpenter.

DSOD 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 fourteen monuments on the crest of the dam. 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 between the 2020 and 2021 surveys that were 1 inch or greater. A table summarizing the survey data and net movements of the monuments is presented in the attachments.

Historical survey monument measurements are presented in tabular and graphical format in the attachments. These tables show the initial readings from 1972, but do not show the readings from 1973 to 1989 for conciseness. Survey results from 1990 to 2021 are presented in the tables. No survey of the monuments were conducted in 2018. 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 12th, 2020.

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 2019 and 2020 measurements.

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

- The first fourteen graphs 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 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.

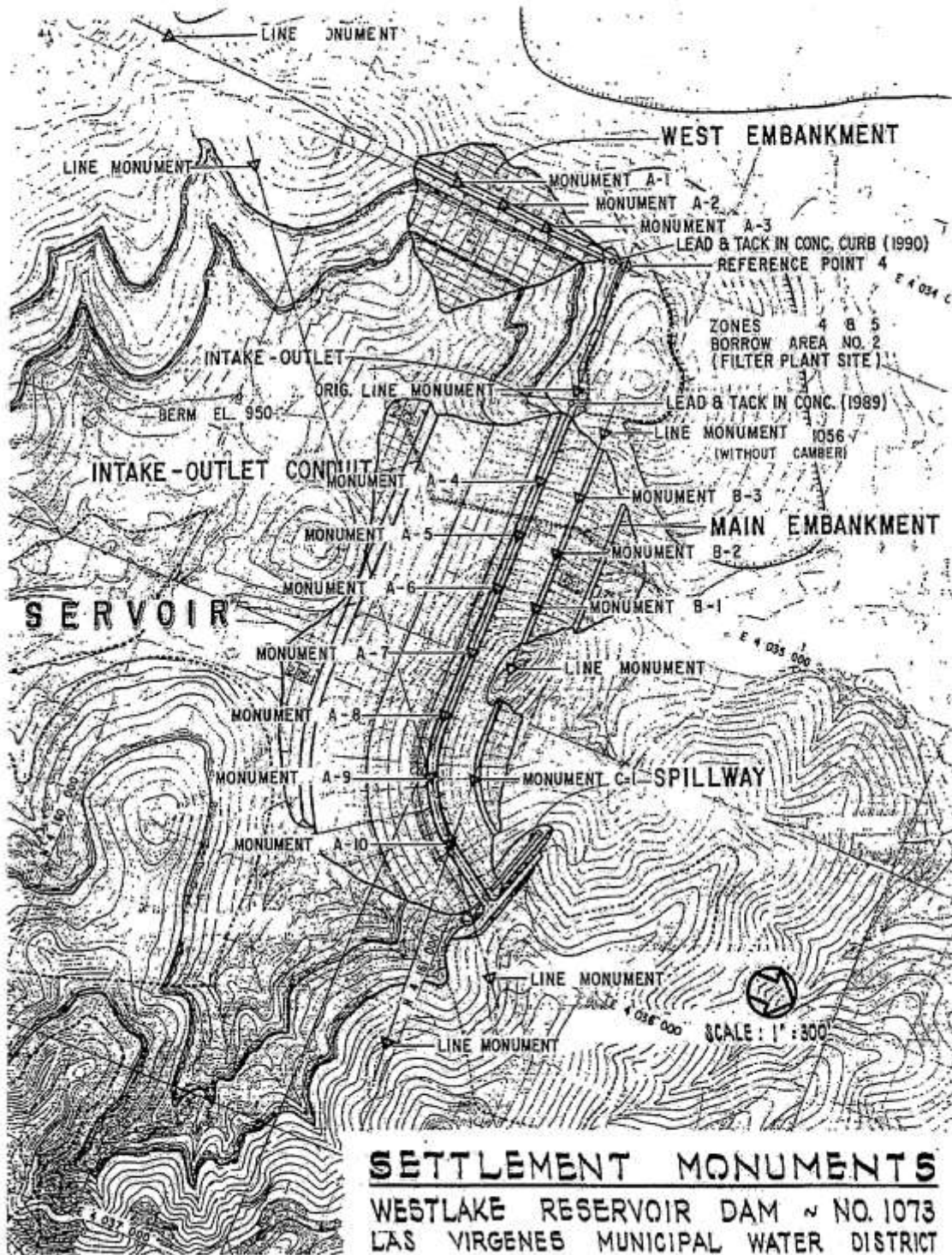
The next settlement survey should be conducted in January of 2022, unless a seismic event above magnitude 5.0 occurs in the vicinity of the dam which would require a survey as soon as possible.

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 (14 pages of Tabular and Graphical Data)
- A-4 Summary Table of Las Virgenes Dam Spillway Measurements
- A-5 Graphs 1-14: Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement, and Rainfall
- A-6 Graph 15: 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



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

LAS VIRGENES DAM VERTICAL SURVEY

Monument	Measurement Dates		Net Movement	
	2/21/2020	1/26/2021	[feet]	[inches]
A-1	1056.23	1056.24	0.010	0.120
A-2	1056.51	1056.52	0.010	0.120
A-3	1056.49	1056.50	0.010	0.120
A-4	1057.68	1057.68	0.000	0.000
A-5	1058.41	1058.41	0.000	0.000
A-6	1058.32	1058.32	0.000	0.000
A-7	1057.72	1057.73	0.010	0.120
A-8	1057.57	1057.58	0.010	0.120
A-9	1057.57	1057.58	0.010	0.120
A-10	1057.16	1057.16	0.000	0.000
B-1	1010.27	1010.27	0.000	0.000
B-2	1009.95	1009.95	0.000	0.000
B-3	1010.13	1010.13	0.000	0.000
C-1	1010.905	1010.88	-0.025	-0.300

Maximum Vertical Deflection : -0.300 inches

LAS VIRGENES DAM HORIZONTAL SURVEY

Monument	Measurement Dates		Net Movement	
	2/21/2020	1/26/2021	[feet]	[inches]
A-1	0.08	0.08	0.000	0.000
A-2	0.08	0.08	0.000	0.000
A-3	0.025	0.025	0.000	0.000
A-4	0.06	0.06	0.000	0.000
A-5	0.04	0.04	0.000	0.000
A-6	0.01	0.01	0.000	0.000
A-7	0.03	0.03	0.000	0.000
A-8	0.02	0.02	0.000	0.000
A-9	0.025	0.025	0.000	0.000
A-10	0.05	0.05	0.000	0.000
B-1	0.06	0.06	0.000	0.000
B-2	0.14	0.14	0.000	0.000
B-3	0.11	0.11	0.000	0.000
C-1	0.03	0.03	0.000	0.000

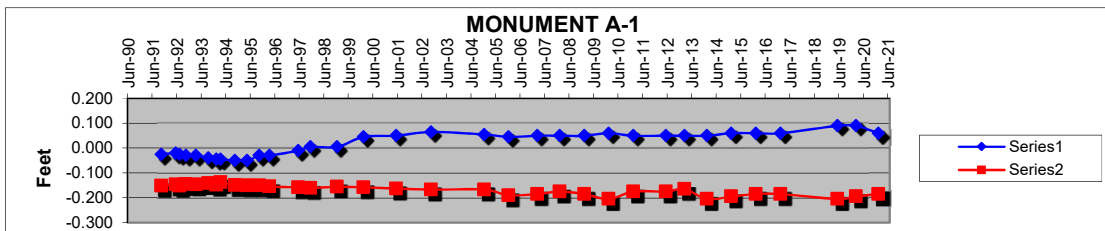
Maximum Horizontal Deflection : 0.000 inches

A-3 SETTLEMENT & HORIZONTAL MOVEMENT DATA

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

MONUMENT A-1

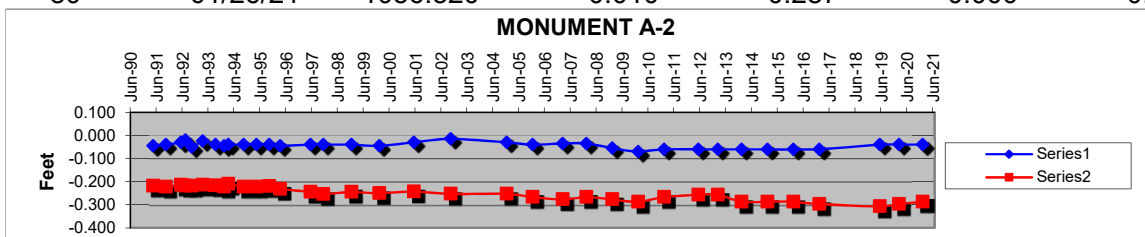
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		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1056.425	0.000	0.000	0.000	0.000
47	10/21/91	1056.273	-0.003	-0.152	-0.010	-0.025
48	05/01/92	1056.278	0.005	-0.147	0.005	-0.020
49	07/01/92	1056.273	-0.005	-0.152	-0.005	-0.025
50	10/14/92	1056.279	0.006	-0.146	-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



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

MONUMENT A-2

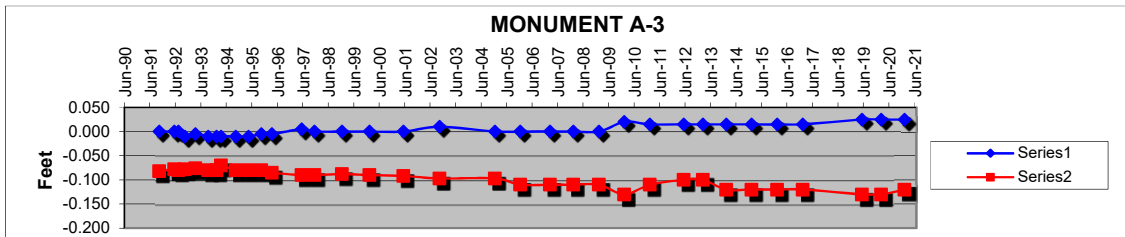
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46	04/26/91	1056.589	0.003	-0.218	0.005	-0.045
47	10/21/91	1056.584	-0.005	-0.223	0.005	-0.040
48	05/01/92	1056.593	0.009	-0.214	0.010	-0.030
49	07/01/92	1056.589	-0.004	-0.218	0.010	-0.020
50	10/14/92	1056.589	0.000	-0.218	-0.030	-0.050
51	03/30/93	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



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

MONUMENT A-3

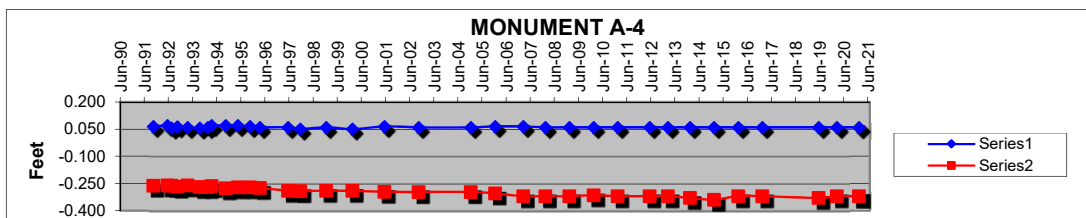
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48	05/01/92	1056.542	0.004	-0.078	0.000	0.000
49	07/01/92	1056.540	-0.002	-0.080	0.000	0.000
50	10/14/92	1056.542	0.002	-0.078	-0.010	-0.010
51	03/30/93	1056.544	0.002	-0.076	0.005	-0.005
52	09/30/93	1056.540	-0.004	-0.080	-0.005	-0.010
53	01/21/94	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



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

MONUMENT A-4

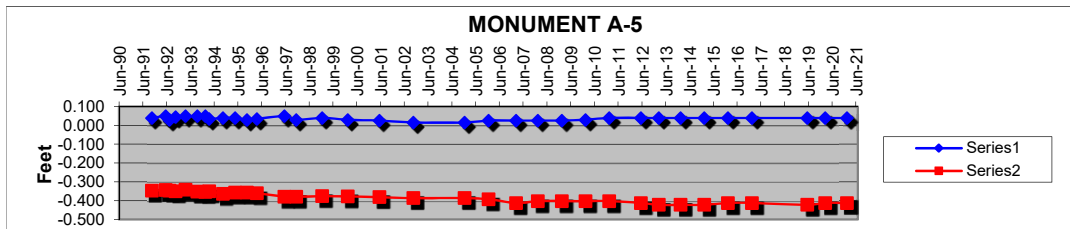
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		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1058.000	0.000	0.000	0.000	0.060
47	10/21/91	1057.737	0.005	-0.263	0.000	0.065
48	05/01/92	1057.739	0.002	-0.261	0.005	0.070
49	07/01/92	1057.738	-0.001	-0.262	-0.015	0.055
50	10/14/92	1057.732	-0.006	-0.268	0.007	0.062
51	03/30/93	1057.740	0.008	-0.260	-0.002	0.060
52	09/30/93	1057.730	-0.010	-0.270	-0.005	0.055
53	01/21/94	1057.731	0.001	-0.269	0.005	0.060
54	03/24/94	1057.736	0.005	-0.264	0.010	0.070
55	10/11/94	1057.723	-0.013	-0.277	0.000	0.070
56	04/06/95	1057.728	0.005	-0.272	0.000	0.070
57	10/19/95	1057.728	0.000	-0.272	-0.005	0.065
58	03/28/96	1057.726	-0.002	-0.274	-0.005	0.060
59	05/02/97	1057.710	-0.016	-0.290	0.000	0.060
60	11/21/97	1057.708	-0.002	-0.292	-0.010	0.050
61	12/17/98	1057.710	0.002	-0.290	0.010	0.060
62	01/06/00	1057.709	-0.001	-0.291	-0.010	0.050
63	05/14/01	1057.704	-0.005	-0.296	0.015	0.065
64	10/30/02	1057.703	-0.001	-0.297	-0.005	0.060
65	12/16/04	1057.703	0.000	-0.297	0.000	0.060
66	12/09/05	1057.695	-0.008	-0.305	0.005	0.065
67	02/21/07	1057.680	-0.015	-0.320	0.000	0.065
68	01/24/08	1057.680	0.000	-0.320	-0.005	0.060
69	01/29/09	1057.680	0.000	-0.320	0.000	0.060
70	01/28/10	1057.685	0.005	-0.315	0.000	0.060
71	01/18/11	1057.680	-0.005	-0.320	0.000	0.060
72	05/01/12	1057.680	0.000	-0.320	0.000	0.060
73	02/13/13	1057.680	0.000	-0.320	0.000	0.060
74	01/16/14	1057.670	-0.010	-0.330	0.000	0.060
75	01/07/15	1057.660	-0.010	-0.340	0.000	0.060
76	01/08/16	1057.680	0.020	-0.320	0.000	0.060
77	01/09/17	1057.680	0.000	-0.320	0.000	0.060
78	05/21/19	1057.670	-0.010	-0.330	0.000	0.060
79	02/12/20	1057.680	0.010	-0.320	0.000	0.060
80	01/26/21	1057.680	0.000	-0.320	0.000	0.060



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

MONUMENT A-5

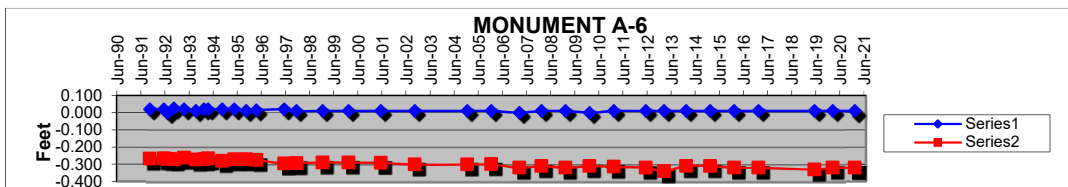
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1058.822	0.000	0.000	0.000	0.035
47	10/21/91	1058.475	0.003	-0.347	0.000	0.040
48	05/01/92	1058.479	0.004	-0.343	0.010	0.050
49	07/01/92	1058.476	-0.003	-0.346	-0.020	0.030
50	10/14/92	1058.473	-0.003	-0.349	0.015	0.045
51	03/30/93	1058.481	0.008	-0.341	0.005	0.050
52	09/30/93	1058.470	-0.011	-0.352	0.000	0.050
53	01/21/94	1058.469	-0.001	-0.353	0.000	0.050
54	03/24/94	1058.472	0.003	-0.350	-0.015	0.035
55	10/11/94	1058.459	-0.013	-0.363	0.005	0.040
56	04/06/95	1058.465	0.006	-0.357	0.000	0.040
57	10/19/95	1058.465	0.000	-0.357	-0.010	0.030
58	03/28/96	1058.462	-0.003	-0.360	0.005	0.035
59	05/02/97	1058.444	-0.018	-0.378	0.015	0.050
60	11/27/97	1058.443	-0.001	-0.379	-0.020	0.030
61	12/17/98	1058.446	0.003	-0.376	0.010	0.040
62	01/06/00	1058.445	-0.001	-0.377	-0.010	0.030
63	05/14/01	1058.441	-0.004	-0.381	-0.004	0.026
64	10/30/02	1058.436	-0.005	-0.386	-0.010	0.016
65	12/16/04	1058.436	0.000	-0.386	0.000	0.016
66	12/09/05	1058.430	-0.006	-0.392	0.010	0.026
67	02/21/07	1058.410	-0.020	-0.412	0.000	0.026
68	01/24/08	1058.420	0.010	-0.402	0.000	0.026
69	01/29/09	1058.420	0.000	-0.402	0.000	0.026
70	01/28/10	1058.420	0.000	-0.402	0.004	0.030
71	01/18/11	1058.420	0.000	-0.402	0.010	0.040
72	05/01/12	1058.410	-0.010	-0.412	0.000	0.040
73	02/13/13	1058.400	-0.010	-0.422	0.000	0.040
74	01/16/14	1058.400	0.000	-0.422	0.000	0.040
75	01/07/15	1058.400	0.000	-0.422	0.000	0.040
76	01/08/16	1058.410	0.010	-0.412	0.000	0.040
77	01/09/17	1058.410	0.000	-0.412	0.000	0.040
78	05/21/19	1058.400	-0.010	-0.422	0.000	0.040
79	02/21/20	1058.410	0.010	-0.412	0.000	0.040
80	01/26/21	1058.410	0.000	-0.412	0.000	0.040



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

MONUMENT A-6

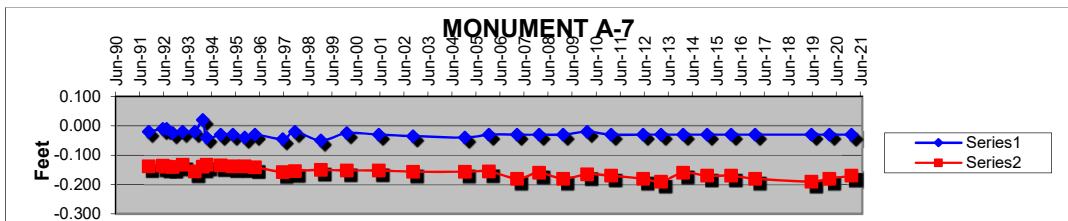
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1058.641	0.000	0.000	0.000	0.015
47	10/21/91	1058.372	0.003	-0.269	-0.005	0.020
48	05/01/92	1058.375	0.003	-0.266	0.000	0.020
49	07/01/92	1058.371	-0.004	-0.270	-0.020	0.000
50	10/14/92	1058.369	-0.002	-0.272	0.025	0.025
51	03/30/93	1058.378	0.009	-0.263	-0.005	0.020
52	09/30/93	1058.367	-0.011	-0.274	-0.010	0.010
53	01/21/94	1058.369	0.002	-0.272	0.010	0.020
54	03/24/94	1058.374	0.005	-0.267	0.000	0.020
55	10/11/94	1058.360	-0.014	-0.281	0.000	0.020
56	04/06/95	1058.368	0.008	-0.273	0.000	0.020
57	10/19/95	1058.368	0.000	-0.273	-0.010	0.010
58	03/28/96	1058.365	-0.003	-0.276	0.005	0.015
59	05/02/97	1058.344	-0.021	-0.297	0.005	0.020
60	11/27/97	1058.347	0.003	-0.294	-0.010	0.010
61	12/17/98	1058.351	0.004	-0.290	0.000	0.010
62	01/06/00	1058.350	-0.001	-0.291	0.000	0.010
63	05/14/01	1058.348	-0.002	-0.293	0.000	0.010
64	10/30/02	1058.339	-0.009	-0.302	0.000	0.010
65	12/16/04	1058.339	0.000	-0.302	0.000	0.010
66	12/09/05	1058.340	0.001	-0.301	0.000	0.010
67	02/21/07	1058.320	-0.020	-0.321	-0.010	0.000
68	01/24/08	1058.330	0.010	-0.311	0.010	0.010
69	01/29/09	1058.320	-0.010	-0.321	0.000	0.010
70	01/28/10	1058.330	0.010	-0.311	-0.010	0.000
71	01/18/11	1058.325	-0.005	-0.316	0.010	0.010
72	05/01/12	1058.320	-0.005	-0.321	0.000	0.010
73	02/13/13	1058.300	-0.020	-0.341	0.000	0.010
74	01/16/14	1058.330	0.030	-0.311	0.000	0.010
75	01/07/15	1058.330	0.000	-0.311	0.000	0.010
76	01/08/16	1058.320	-0.010	-0.321	0.000	0.010
77	01/09/17	1058.320	0.000	-0.321	0.000	0.010
78	05/21/19	1058.310	-0.010	-0.331	0.000	0.010
79	02/12/20	1058.320	0.010	-0.321	0.000	0.010
80	01/26/21	1058.320	0.000	-0.321	0.000	0.010



**LAS VIRGENES MUNICIPAL WATER DISTRICT
LAS VIRGENES RESERVOIR
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MONUMENT A-7

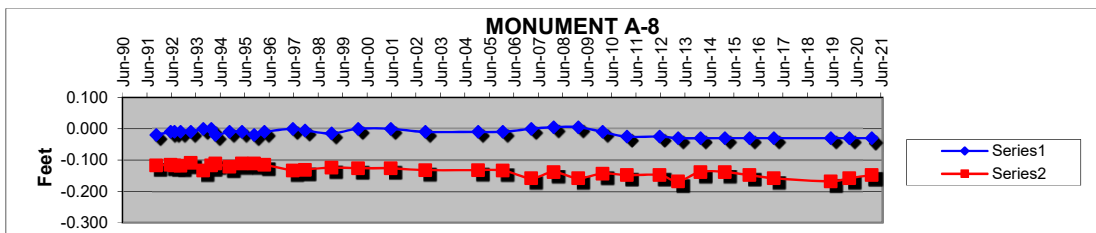
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.900	0.000	0.000	0.000	-0.025
47	10/21/91	1057.762	0.008	-0.138	-0.010	-0.020
48	05/01/92	1057.764	0.002	-0.136	0.010	-0.010
49	07/01/92	1057.761	-0.003	-0.139	0.000	-0.010
50	10/14/92	1057.760	-0.001	-0.140	-0.015	-0.025
51	03/30/93	1057.768	0.008	-0.132	0.005	-0.020
52	09/30/93	1057.745	-0.023	-0.155	0.000	-0.020
53	01/21/94	1057.761	0.016	-0.139	0.040	0.020
54	03/24/94	1057.767	0.006	-0.133	-0.060	-0.040
55	10/11/94	1057.765	-0.002	-0.135	0.010	-0.030
56	04/06/95	1057.762	-0.003	-0.138	0.000	-0.030
57	10/19/95	1057.762	0.000	-0.138	-0.010	-0.040
58	03/28/96	1057.759	-0.003	-0.141	0.010	-0.030
59	05/02/97	1057.742	-0.017	-0.158	-0.015	-0.045
60	11/27/97	1057.746	0.004	-0.154	0.025	-0.020
61	12/17/98	1057.750	0.004	-0.150	-0.030	-0.050
62	01/06/00	1057.748	-0.002	-0.152	0.025	-0.025
63	05/14/01	1057.748	0.000	-0.152	-0.005	-0.030
64	10/30/02	1057.744	-0.004	-0.156	-0.005	-0.035
65	12/16/04	1057.744	0.000	-0.156	-0.005	-0.040
66	12/09/05	1057.745	0.001	-0.155	0.010	-0.030
67	02/21/07	1057.720	-0.025	-0.180	0.000	-0.030
68	01/24/08	1057.740	0.020	-0.160	0.000	-0.030
69	01/29/09	1057.720	-0.020	-0.180	0.000	-0.030
70	01/28/10	1057.735	0.015	-0.165	0.010	-0.020
71	01/18/11	1057.730	-0.005	-0.170	-0.010	-0.030
72	05/01/12	1057.720	-0.010	-0.180	0.000	-0.030
73	02/13/13	1057.710	-0.010	-0.190	0.000	-0.030
74	01/16/14	1057.740	0.030	-0.160	0.000	-0.030
75	01/07/15	1057.730	-0.010	-0.170	0.000	-0.030
76	01/08/16	1057.730	0.000	-0.170	0.000	-0.030
77	01/09/17	1057.720	-0.010	-0.180	0.000	-0.030
78	05/21/19	1057.710	-0.010	-0.190	0.000	-0.030
79	02/12/20	1057.720	0.010	-0.180	0.000	-0.030
80	01/26/21	1057.730	0.010	-0.170	0.000	-0.030



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

MONUMENT A-8

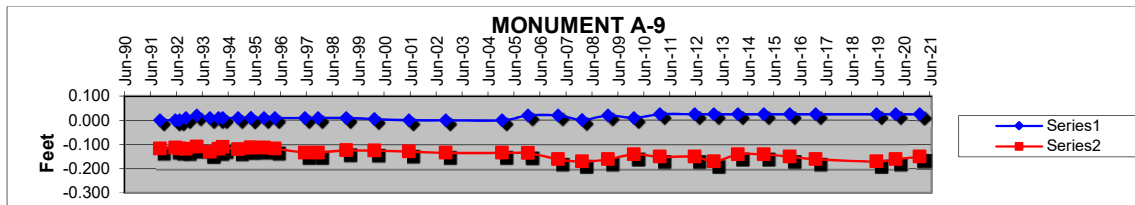
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.728	0.000	0.000	0.000	0.000
47	10/21/91	1057.611	0.010	-0.117	-0.020	-0.020
48	05/01/92	1057.613	0.002	-0.115	0.010	-0.010
49	07/01/92	1057.611	-0.002	-0.117	0.000	-0.010
50	10/14/92	1057.610	-0.001	-0.118	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



**LAS VIRGENES MUNICIPAL WATER DISTRICT
LAS VIRGENES RESERVOIR
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MONUMENT A-9

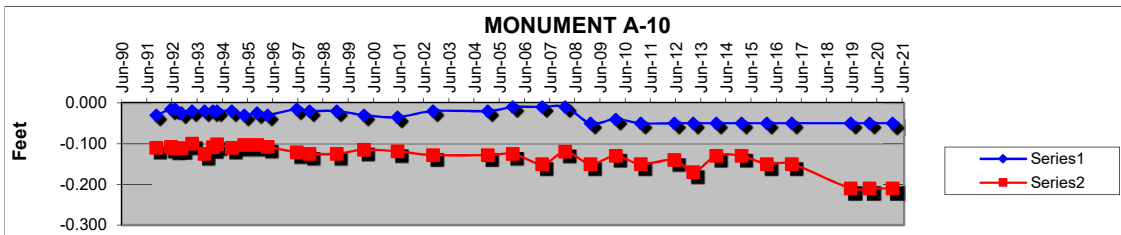
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.731	0.000	0.000	0.000	0.015
47	10/21/91	1057.613	0.010	-0.118	0.015	0.000
48	05/01/92	1057.618	0.005	-0.113	0.000	0.000
49	07/01/92	1057.614	-0.004	-0.117	0.000	0.000
50	10/14/92	1057.612	-0.002	-0.119	0.010	0.010
51	03/30/93	1057.621	0.009	-0.110	0.010	0.020
52	09/30/93	1057.600	-0.021	-0.131	-0.010	0.010
53	01/21/94	1057.612	0.012	-0.119	0.000	0.010
54	03/24/94	1057.620	0.008	-0.111	0.000	0.010
55	10/11/94	1057.611	-0.009	-0.120	0.000	0.010
56	04/06/95	1057.618	0.007	-0.113	0.000	0.010
56	04/06/95	1057.618	0.000	-0.113	0.000	0.010
57	10/19/95	1057.618	0.000	-0.113	0.000	0.010
58	03/28/96	1057.614	-0.004	-0.117	0.000	0.010
59	05/02/97	1057.597	-0.017	-0.134	0.000	0.010
60	11/27/97	1057.597	0.000	-0.134	0.000	0.010
61	12/17/98	1057.607	0.010	-0.124	0.000	0.010
62	01/06/00	1057.605	-0.002	-0.126	-0.005	0.005
63	05/14/01	1057.602	-0.003	-0.129	-0.005	0.000
64	10/30/02	1057.596	-0.006	-0.135	0.000	0.000
65	12/16/04	1057.596	0.000	-0.135	0.000	0.000
66	12/09/05	1057.595	-0.001	-0.136	0.020	0.020
67	02/21/07	1057.570	-0.025	-0.161	0.000	0.020
68	01/24/08	1057.560	-0.010	-0.171	-0.018	0.002
69	01/29/09	1057.570	0.010	-0.161	0.018	0.020
70	01/28/10	1057.590	0.020	-0.141	-0.010	0.010
71	01/18/11	1057.580	-0.010	-0.151	0.015	0.025
72	05/01/12	1057.580	0.000	-0.151	0.000	0.025
73	02/13/13	1057.560	-0.020	-0.171	0.000	0.025
74	01/16/14	1057.590	0.030	-0.141	0.000	0.025
75	01/07/15	1057.590	0.000	-0.141	0.000	0.025
76	01/08/16	1057.580	-0.010	-0.151	0.000	0.025
77	01/09/17	1057.570	-0.010	-0.161	0.000	0.025
78	05/21/19	1057.560	-0.010	-0.171	0.000	0.025
79	02/21/20	1057.570	0.010	-0.161	0.000	0.025
80	01/26/21	1057.580	0.010	-0.151	0.000	0.025



**LAS VIRGENES MUNICIPAL WATER DISTRICT
LAS VIRGENES RESERVOIR
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MONUMENT A-10

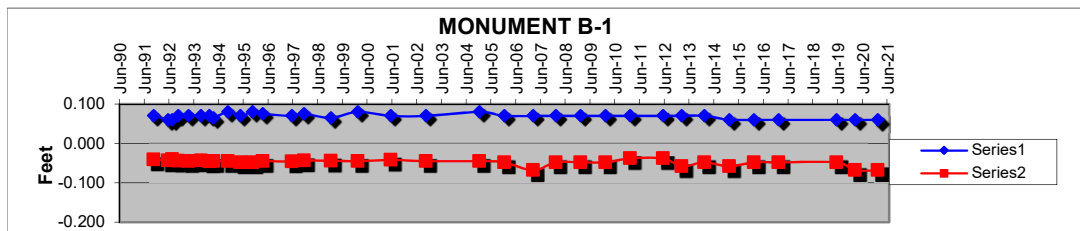
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1057.370	0.000	0.000	0.000	0.000
47	10/21/91	1057.260	0.009	-0.110	-0.015	-0.030
48	05/01/92	1057.262	0.002	-0.108	0.015	-0.015
49	07/01/92	1057.258	-0.004	-0.112	0.000	-0.015
50	10/14/92	1057.259	0.001	-0.111	-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



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

MONUMENT B-1

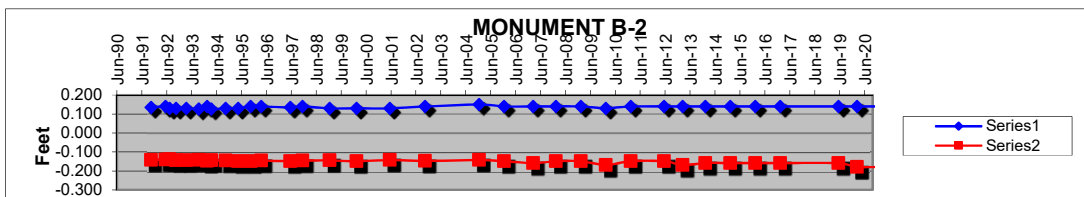
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.338				0.055
47	10/21/91	1010.297	0.001	-0.041	0.000	0.070
48	05/01/92	1010.295	-0.002	-0.043	-0.010	0.060
49	07/01/92	1010.298	0.003	-0.040	0.000	0.060
50	10/14/92	1010.294	-0.004	-0.044	0.010	0.070
51	03/30/93	1010.293	-0.001	-0.045	0.000	0.070
52	09/30/93	1010.295	0.002	-0.043	0.000	0.070
53	01/21/94	1010.292	-0.003	-0.046	0.000	0.070
54	03/24/94	1010.293	0.001	-0.045	-0.005	0.065
55	10/11/94	1010.293	0.000	-0.045	0.015	0.080
56	04/06/95	1010.290	-0.003	-0.048	-0.010	0.070
57	10/19/95	1010.290	0.000	-0.048	0.010	0.080
58	03/28/96	1010.293	0.003	-0.045	-0.005	0.075
59	05/02/97	1010.292	-0.001	-0.046	-0.005	0.070
60	11/27/97	1010.295	0.003	-0.043	0.005	0.075
61	12/17/98	1010.294	-0.001	-0.044	-0.010	0.065
62	01/06/00	1010.293	-0.001	-0.045	0.015	0.080
63	05/14/01	1010.296	0.003	-0.042	-0.010	0.070
64	10/30/02	1010.293	-0.003	-0.045	0.000	0.070
65	12/16/04	1010.293	0.000	-0.045	0.010	0.080
66	12/09/05	1010.290	-0.003	-0.048	-0.010	0.070
67	02/21/07	1010.270	-0.020	-0.068	0.000	0.070
68	01/24/08	1010.290	0.020	-0.048	0.000	0.070
69	01/29/09	1010.290	0.000	-0.048	0.000	0.070
70	01/28/10	1010.290	0.000	-0.048	0.000	0.070
71	01/18/11	1010.300	0.010	-0.038	0.000	0.070
72	05/01/12	1010.300	0.000	-0.038	0.000	0.070
73	02/13/13	1010.280	-0.020	-0.058	0.000	0.070
74	01/16/14	1010.290	0.010	-0.048	0.000	0.070
75	01/07/15	1010.280	-0.010	-0.058	-0.010	0.060
76	01/08/16	1010.290	0.010	-0.048	0.000	0.060
77	01/09/17	1010.290	0.000	-0.048	0.000	0.060
78	05/21/19	1010.290	0.000	-0.048	0.000	0.060
79	02/12/20	1010.270	-0.020	-0.068	0.000	0.060
80	01/26/21	1010.270	0.000	-0.068	0.000	0.060



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

MONUMENT B-2

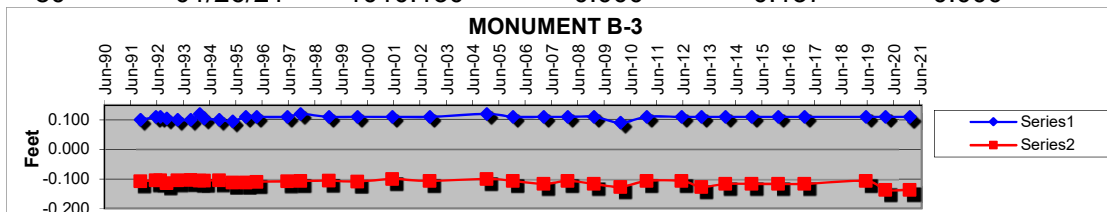
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.129				0.120
47	10/21/91	1009.987	-0.002	-0.142	0.000	0.135
48	05/01/92	1009.988	0.001	-0.141	0.005	0.140
49	07/01/92	1009.990	0.002	-0.139	-0.010	0.130
50	10/14/92	1009.984	-0.006	-0.145	0.000	0.130
51	03/30/93	1009.984	0.000	-0.145	0.000	0.130
52	09/30/93	1009.987	0.003	-0.142	-0.005	0.125
53	01/21/94	1009.982	-0.005	-0.147	0.015	0.140
54	03/24/94	1009.984	0.002	-0.145	-0.015	0.125
55	10/11/94	1009.983	-0.001	-0.146	0.005	0.130
56	04/06/95	1009.979	-0.004	-0.150	0.000	0.130
57	10/19/95	1009.979	0.000	-0.150	0.010	0.140
58	03/28/96	1009.983	0.004	-0.146	0.000	0.140
59	05/02/97	1009.980	-0.003	-0.149	-0.005	0.135
60	11/27/97	1009.983	0.003	-0.146	0.005	0.140
61	12/17/98	1009.984	0.001	-0.145	-0.010	0.130
62	01/06/00	1009.980	-0.004	-0.149	0.000	0.130
63	05/14/01	1009.986	0.006	-0.143	0.000	0.130
64	10/30/02	1009.982	-0.004	-0.147	0.010	0.140
65	12/16/04	1009.986	0.004	-0.143	0.010	0.150
66	12/09/05	1009.980	-0.006	-0.149	-0.010	0.140
67	02/21/07	1009.970	-0.010	-0.159	0.000	0.140
68	01/24/08	1009.980	0.010	-0.149	0.000	0.140
69	01/29/09	1009.980	0.000	-0.149	0.000	0.140
70	01/28/10	1009.960	-0.020	-0.169	-0.010	0.130
71	01/18/11	1009.980	0.020	-0.149	0.010	0.140
72	05/01/12	1009.980	0.000	-0.149	0.000	0.140
73	02/13/13	1009.960	-0.020	-0.169	0.000	0.140
74	01/16/14	1009.970	0.010	-0.159	0.000	0.140
75	01/07/15	1009.970	0.000	-0.159	0.000	0.140
76	01/08/16	1009.970	0.000	-0.159	0.000	0.140
77	01/09/17	1009.970	0.000	-0.159	0.000	0.140
78	05/21/19	1009.970	0.000	-0.159	0.000	0.140
79	02/12/20	1009.950	-0.020	-0.179	0.000	0.140
80	01/26/21	1009.950	0.000	-0.179	0.000	0.140



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

MONUMENT B-3

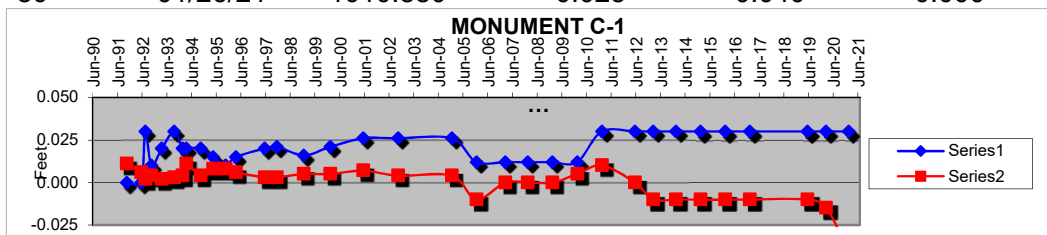
READING NO.	DATE	VERTICAL [feet]			HORIZONTAL [feet]	
		ELEV	DIFF.	CUM.	DIFF.	CUM.
1	05/01/72	1010.267				0.015
47	10/21/91	1010.159	-0.007	-0.108	-0.020	0.100
48	05/01/92	1010.162	0.003	-0.105	0.010	0.110
49	07/01/92	1010.162	0.000	-0.105	0.000	0.110
50	10/14/92	1010.153	-0.009	-0.114	-0.005	0.105
51	03/30/93	1010.162	0.009	-0.105	-0.005	0.100
52	09/30/93	1010.164	0.002	-0.103	0.000	0.100
53	01/21/94	1010.161	-0.003	-0.106	0.020	0.120
54	03/24/94	1010.161	0.000	-0.106	-0.015	0.105
55	10/11/94	1010.162	0.001	-0.105	-0.005	0.100
56	04/06/95	1010.155	-0.007	-0.112	-0.005	0.095
57	10/19/95	1010.155	0.000	-0.112	0.015	0.110
58	03/28/96	1010.157	0.002	-0.110	0.000	0.110
59	05/02/97	1010.159	0.002	-0.108	0.000	0.110
60	11/27/97	1010.160	0.001	-0.107	0.010	0.120
61	12/17/98	1010.161	0.001	-0.106	-0.010	0.110
62	01/06/00	1010.158	-0.003	-0.109	0.000	0.110
63	05/14/01	1010.167	0.009	-0.100	0.000	0.110
64	10/30/02	1010.160	-0.007	-0.107	0.000	0.110
65	12/16/04	1010.167	0.007	-0.100	0.010	0.120
66	12/09/05	1010.160	-0.007	-0.107	-0.010	0.110
67	02/21/07	1010.150	-0.010	-0.117	0.000	0.110
68	01/24/08	1010.160	0.010	-0.107	0.000	0.110
69	01/29/09	1010.150	-0.010	-0.117	0.000	0.110
70	01/28/10	1010.140	-0.010	-0.127	-0.020	0.090
71	01/18/11	1010.160	0.020	-0.107	0.020	0.110
72	05/01/12	1010.160	0.000	-0.107	0.000	0.110
73	02/13/13	1010.140	-0.020	-0.127	0.000	0.110
74	01/16/14	1010.150	0.010	-0.117	0.000	0.110
75	01/07/15	1010.150	0.000	-0.117	0.000	0.110
76	01/08/16	1010.150	0.000	-0.117	0.000	0.110
77	01/09/17	1010.150	0.000	-0.117	0.000	0.110
78	05/21/19	1010.160	0.010	-0.107	0.000	0.110
79	02/12/20	1010.130	-0.030	-0.137	0.000	0.110
80	01/26/21	1010.130	0.000	-0.137	0.000	0.110



**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				
47	10/21/91	1010.931	0.008	0.011	-0.020	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



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	
	2/12/2020	1/26/2021	Feet	[inches]		2/12/2020	1/26/2021	[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	2.65	0.000	0.000	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	2.71	0.000	0.000	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	2.63	0.000	0.000	7	2.56	2.56	0.000	0.000
8	2.62	2.62	0.000	0.000	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	2.62	0.000	0.000	11	2.55	2.55	0.000	0.000
12	2.61	2.59	0.020	0.240	12	2.56	2.56	0.000	0.000

Maximum North Side Movement :

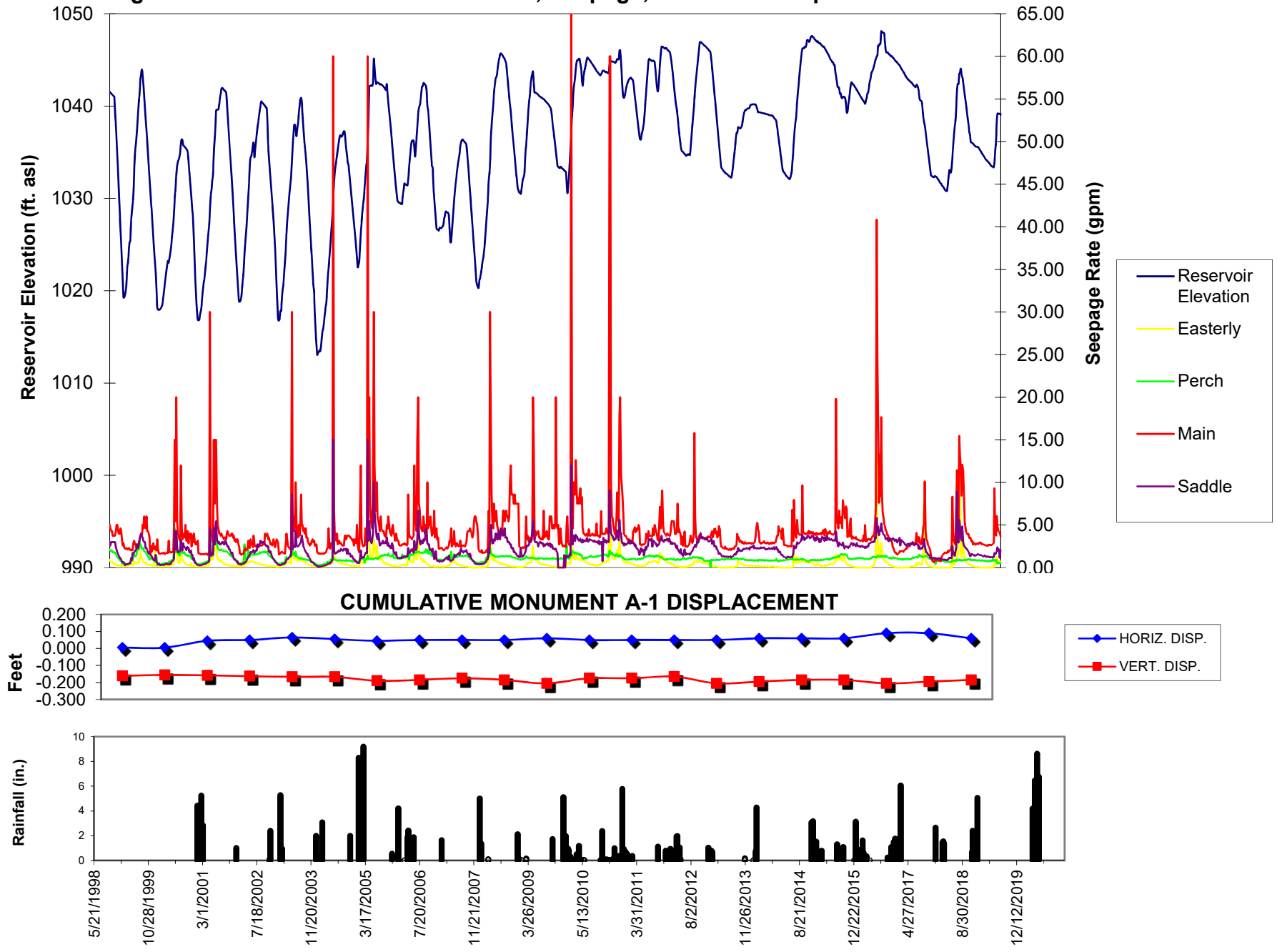
0.240 inches

Maximum South Side Movement :

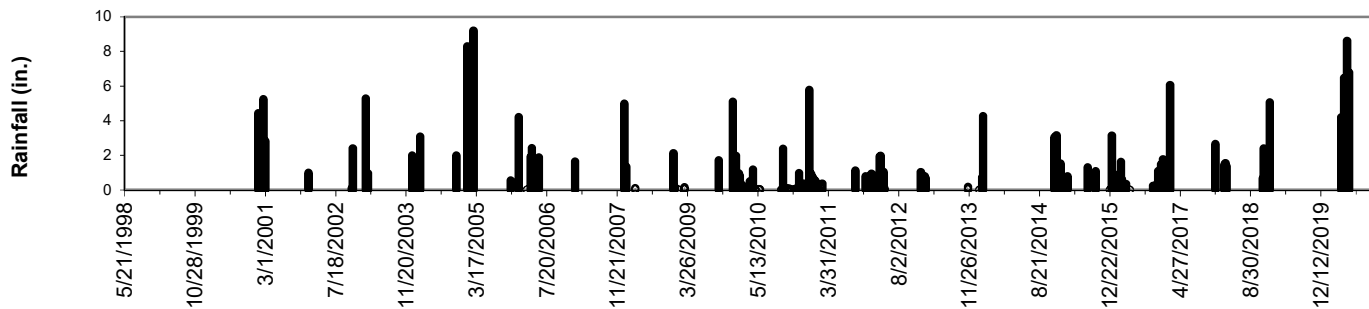
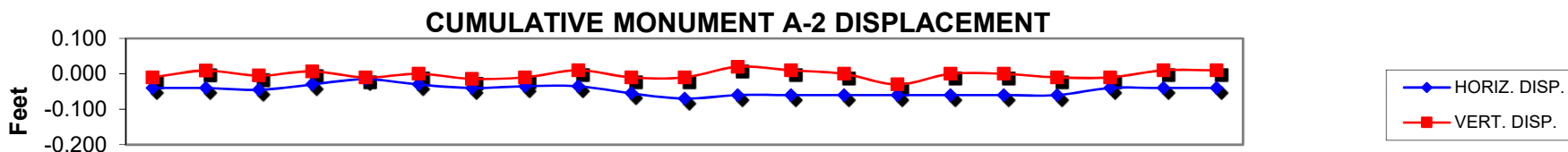
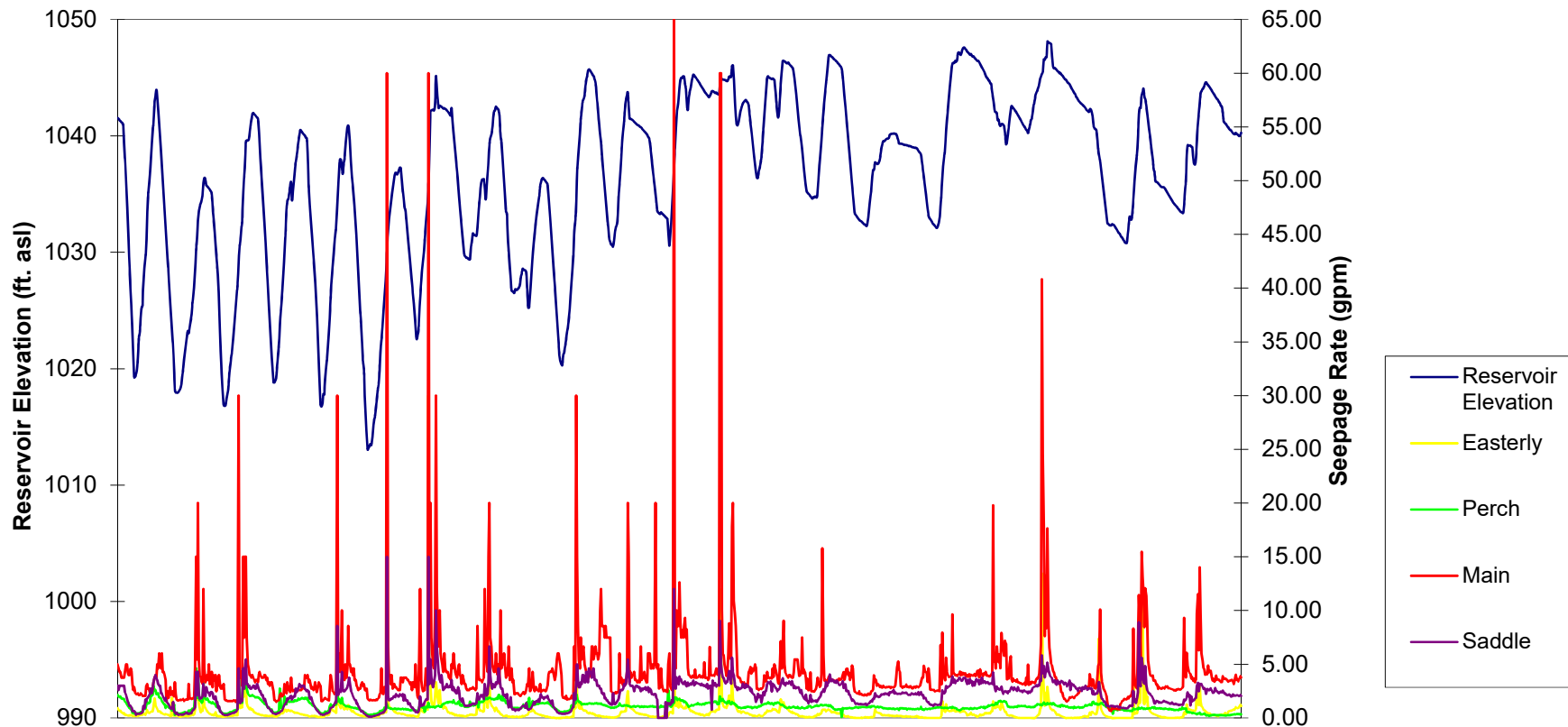
0.000 inches

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

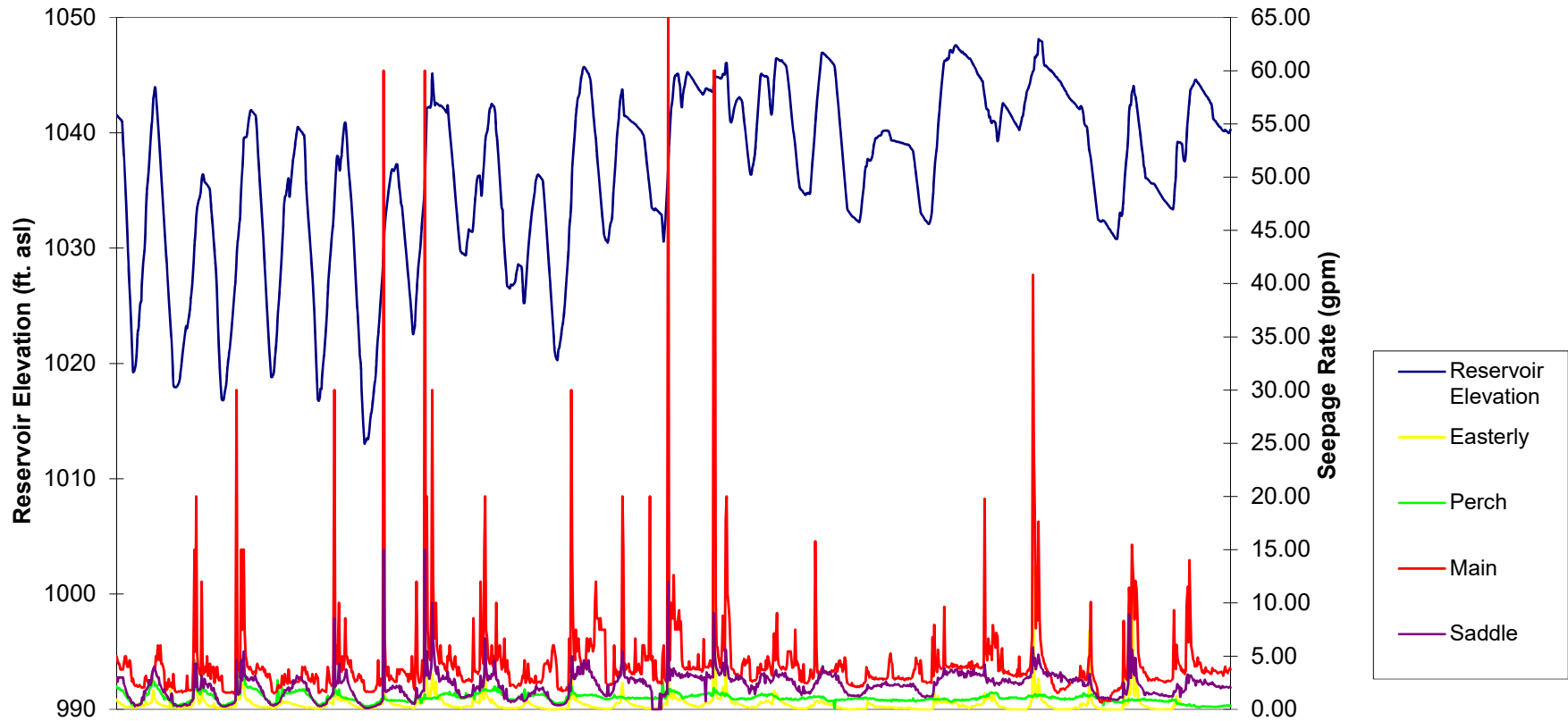
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



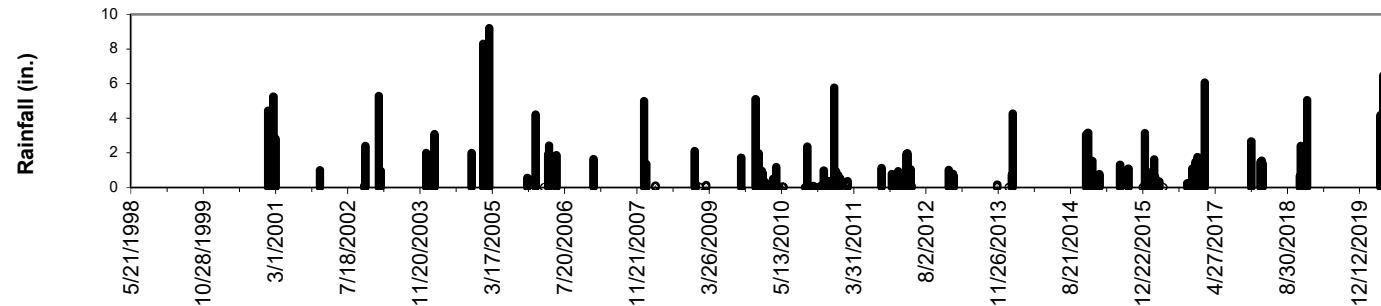
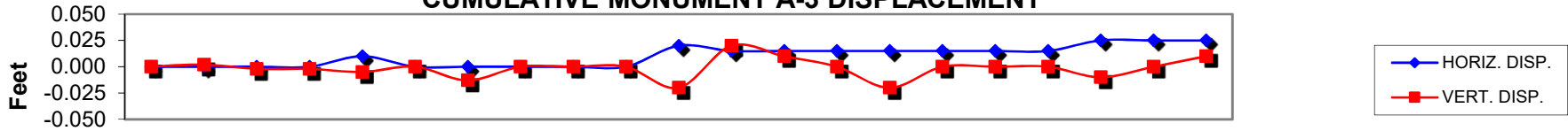
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



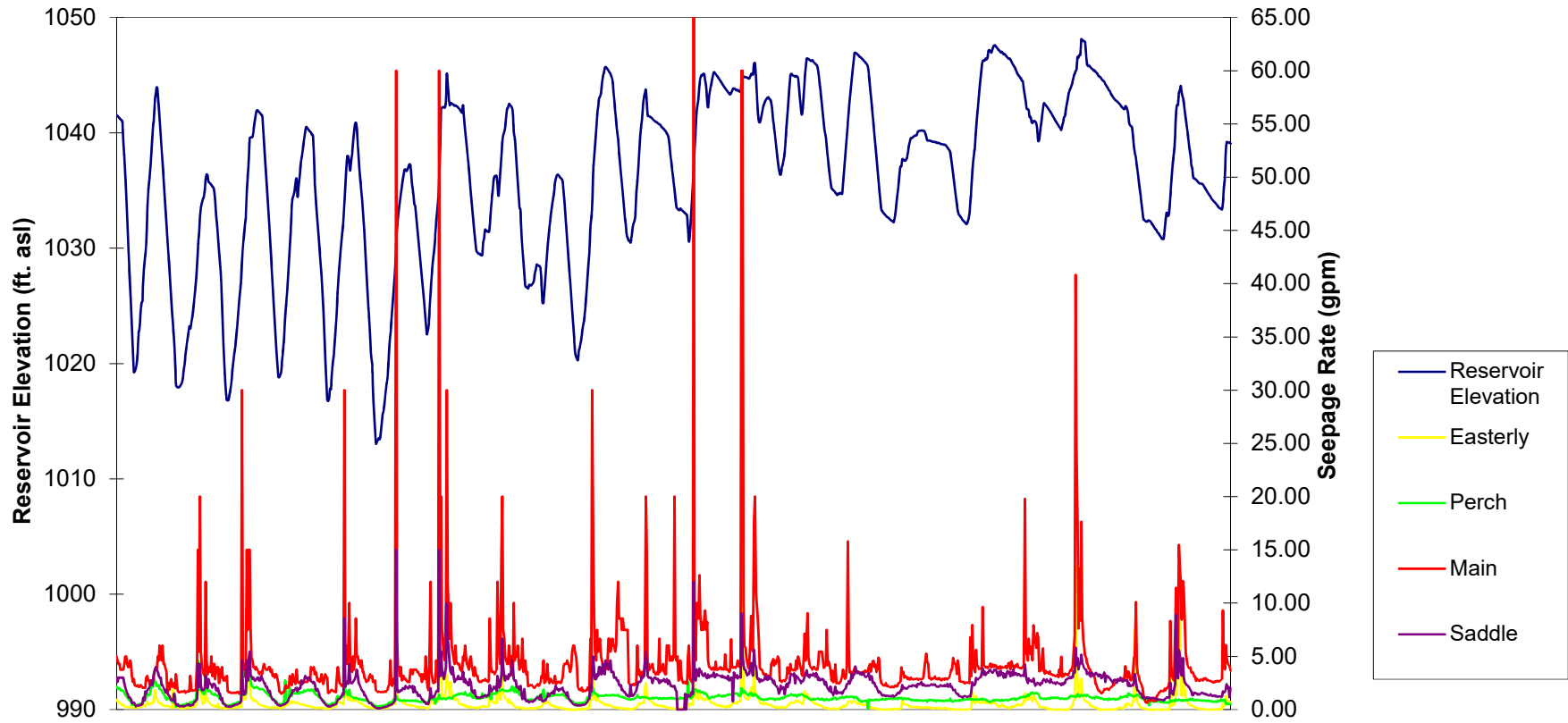
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



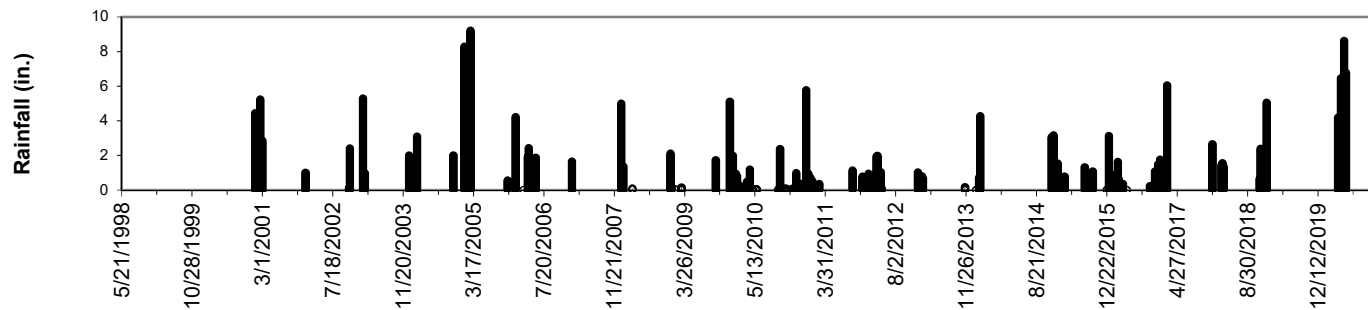
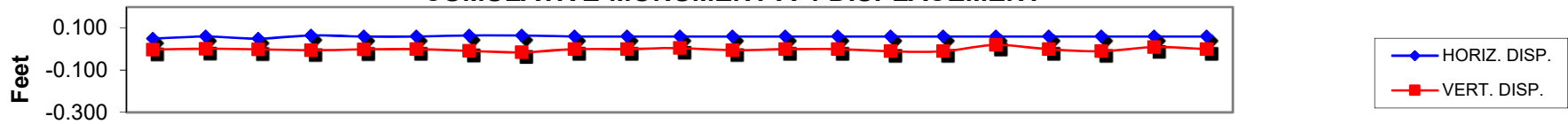
CUMULATIVE MONUMENT A-3 DISPLACEMENT



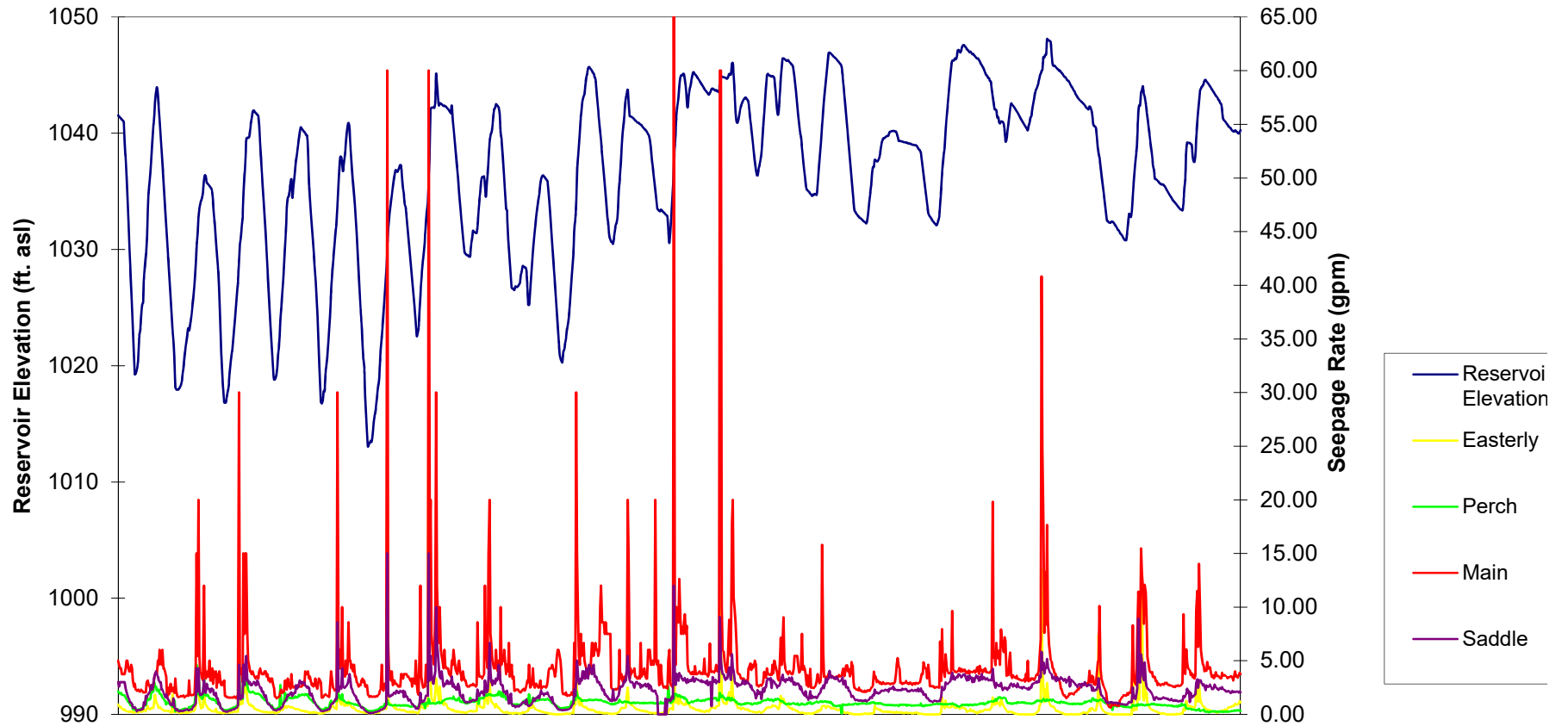
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



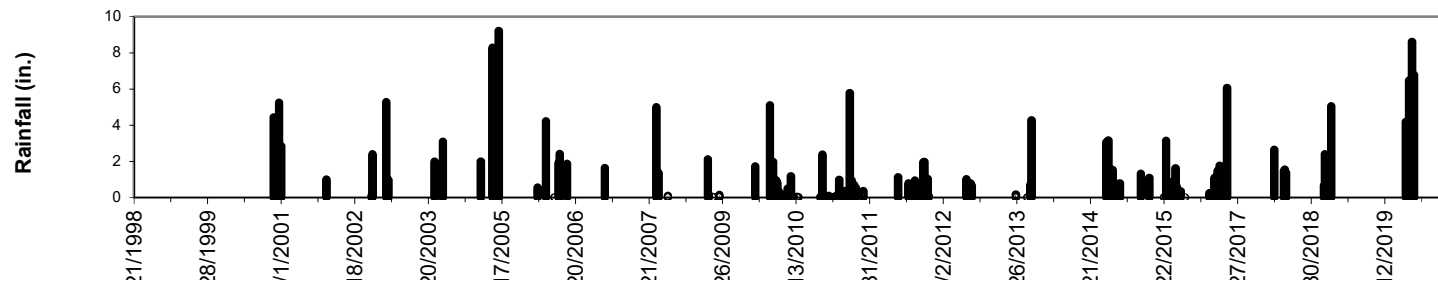
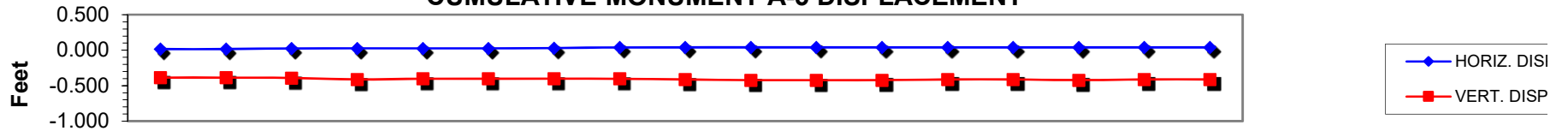
CUMULATIVE MONUMENT A-4 DISPLACEMENT



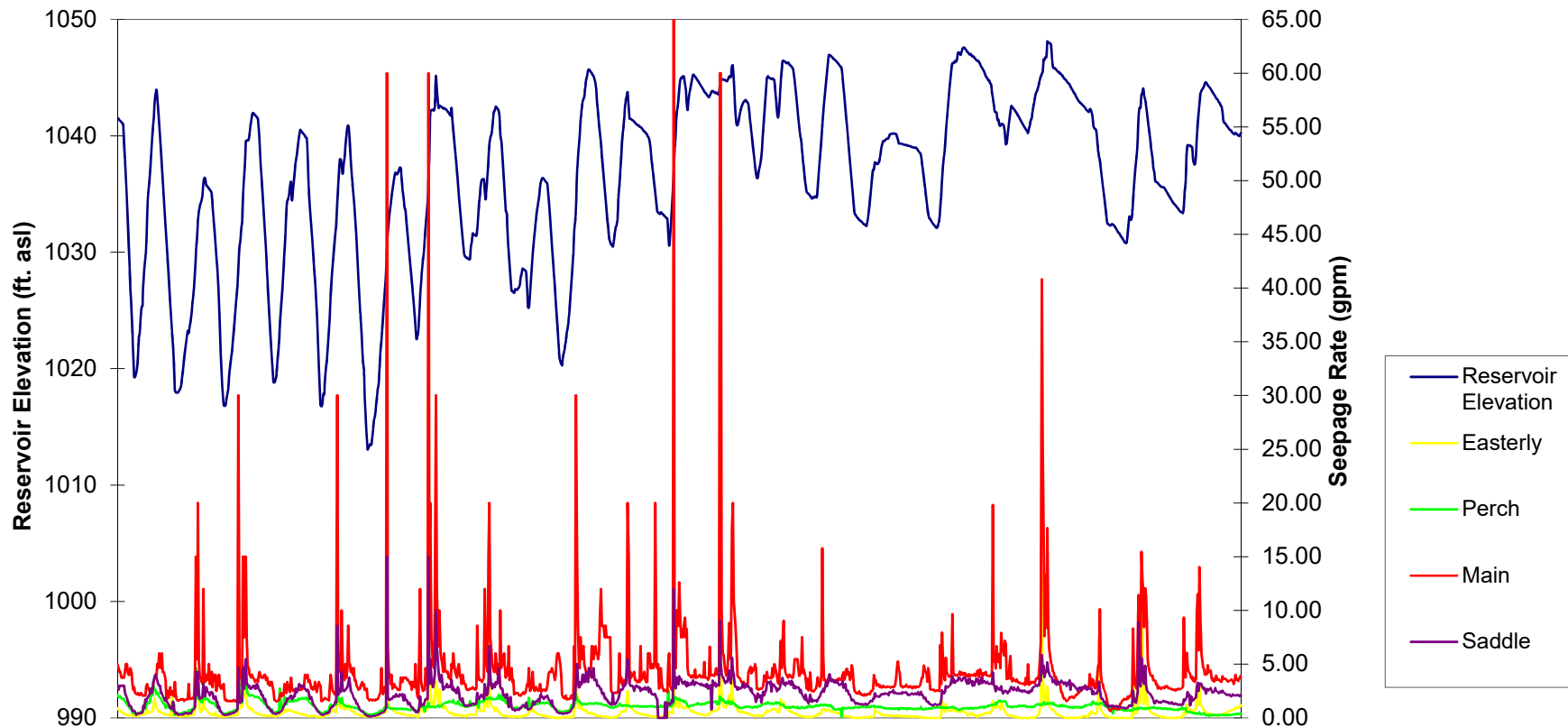
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



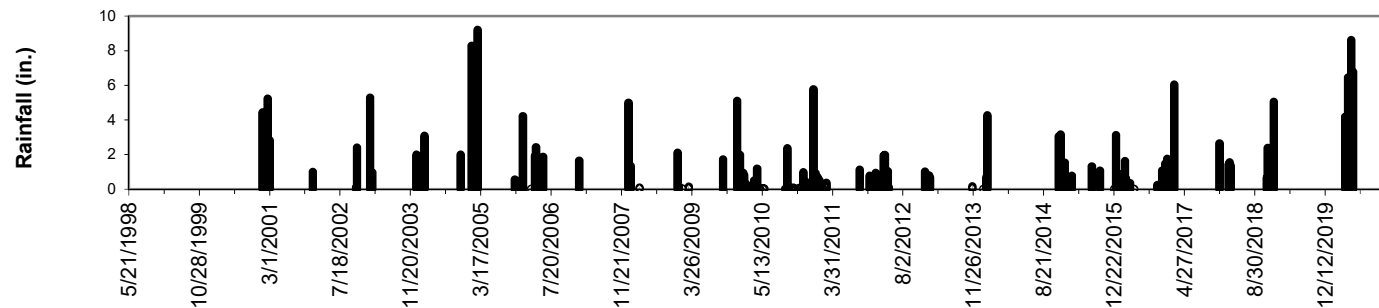
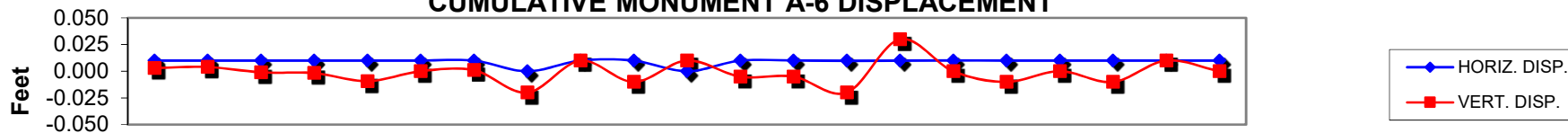
CUMULATIVE MONUMENT A-5 DISPLACEMENT



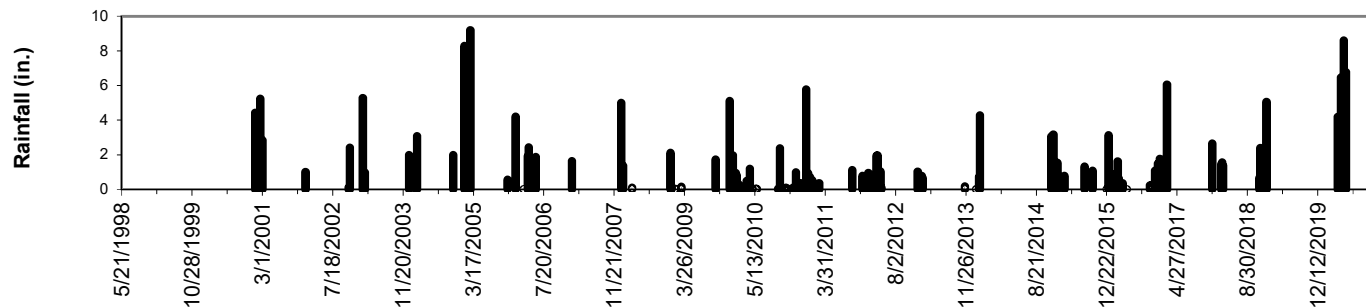
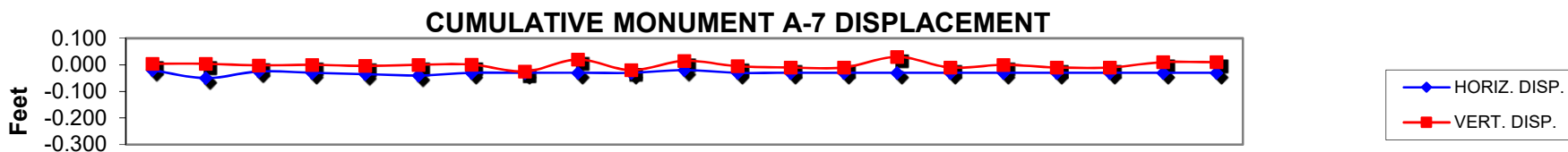
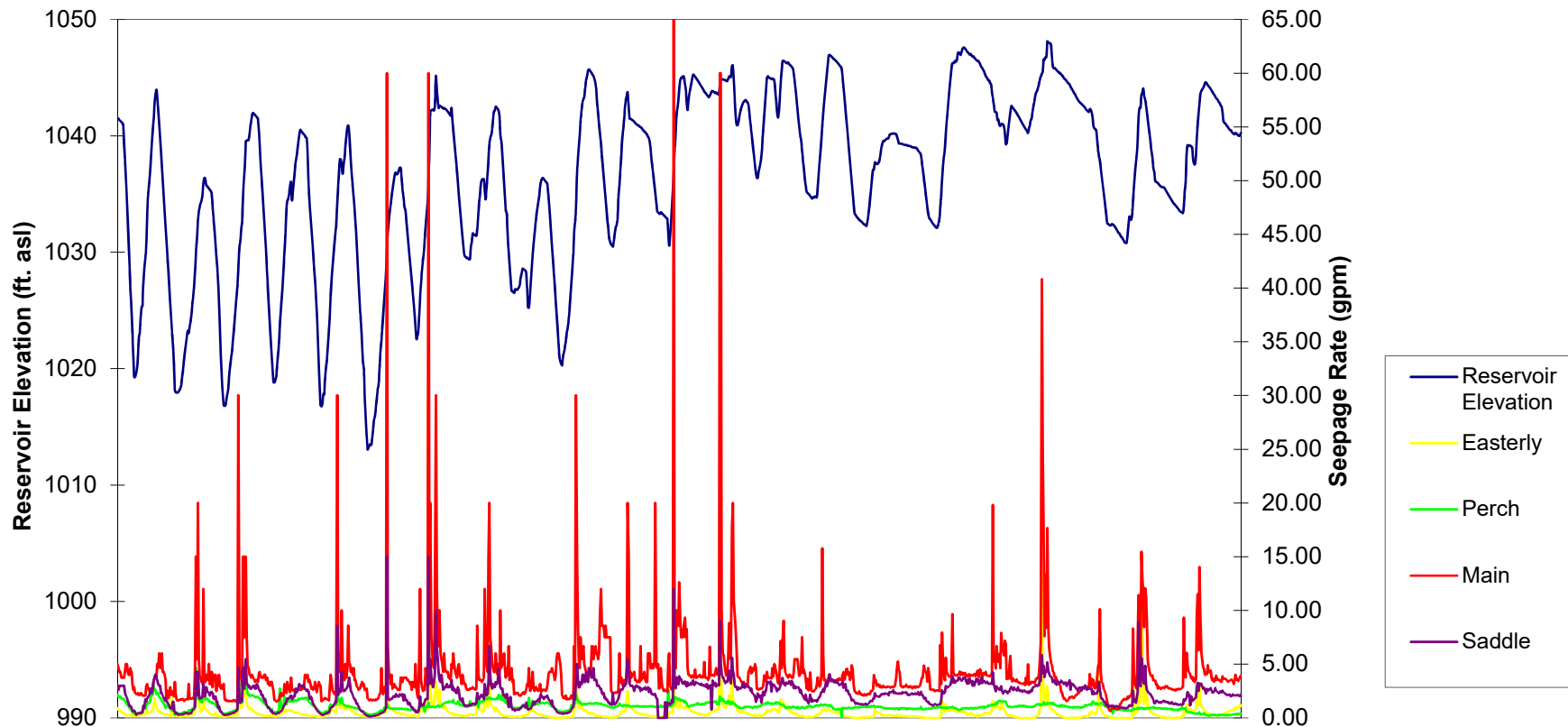
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



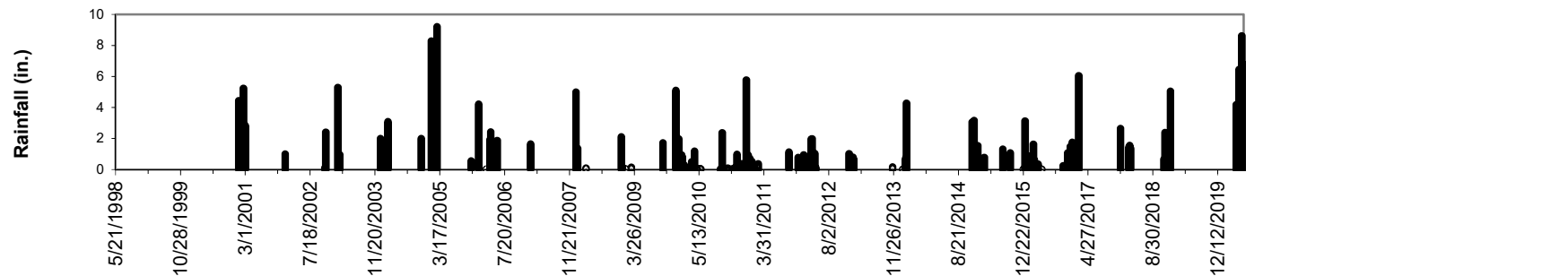
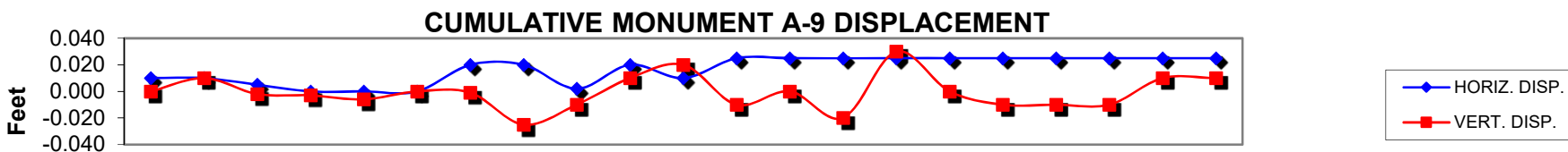
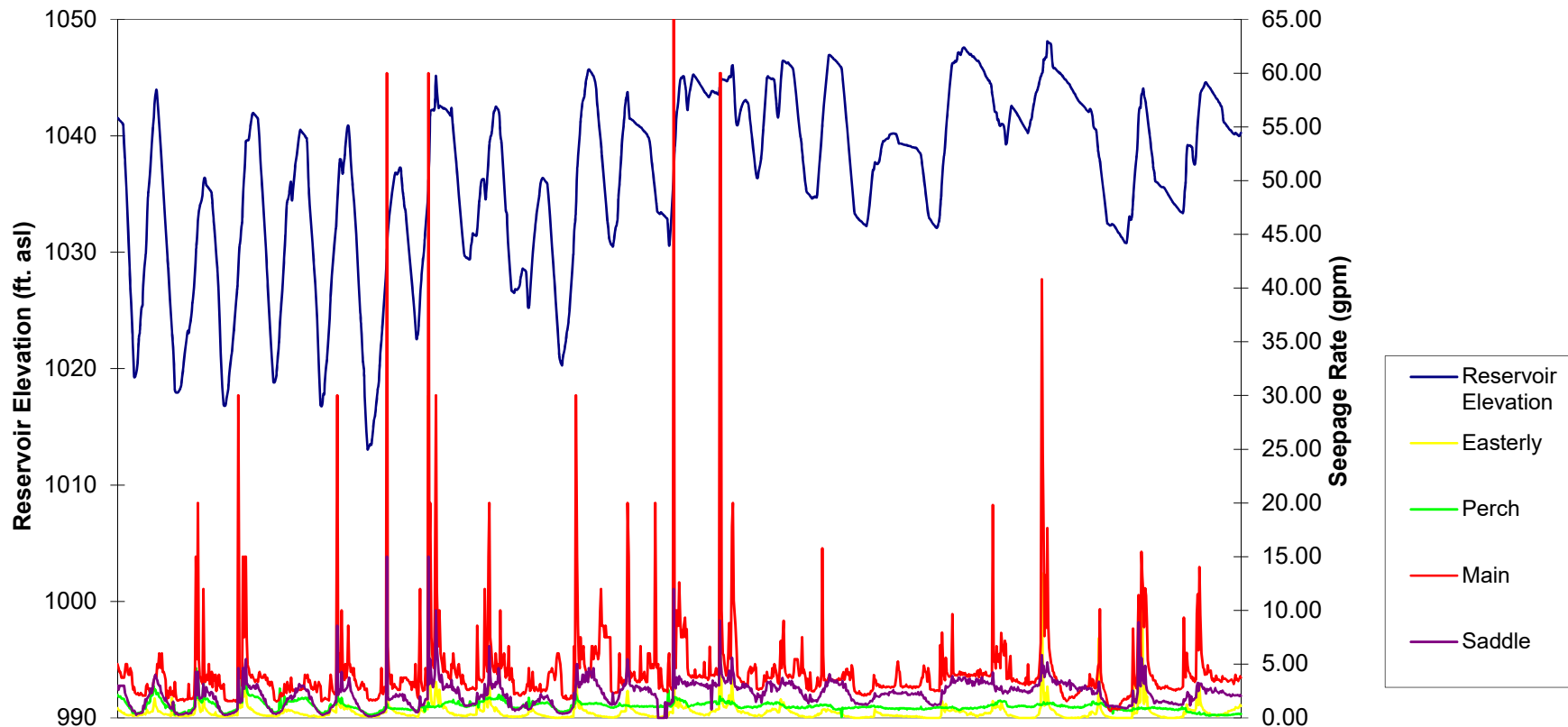
CUMULATIVE MONUMENT A-6 DISPLACEMENT



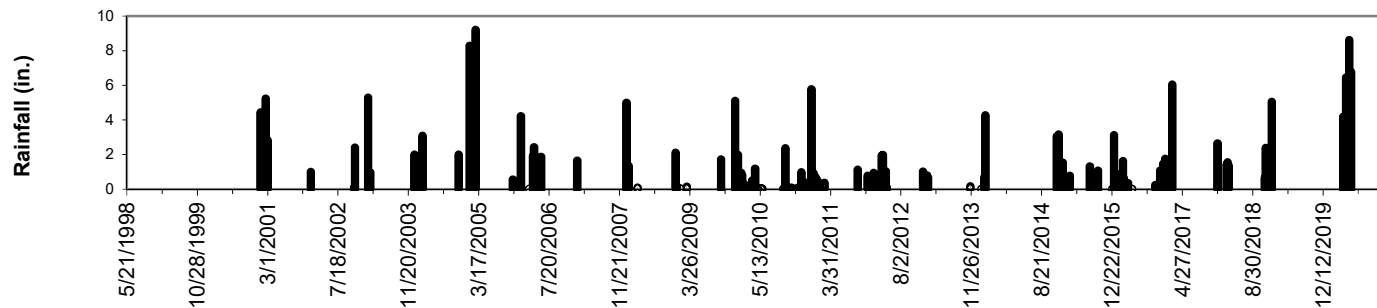
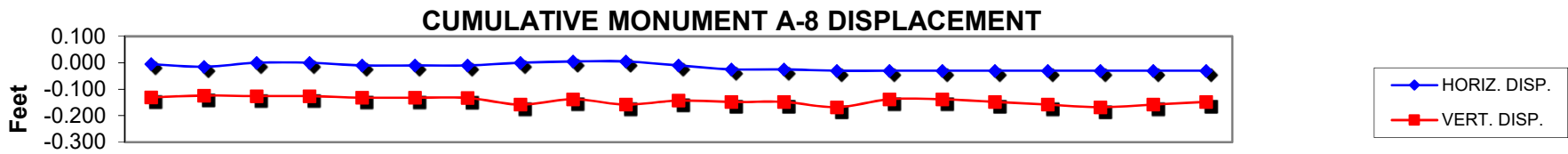
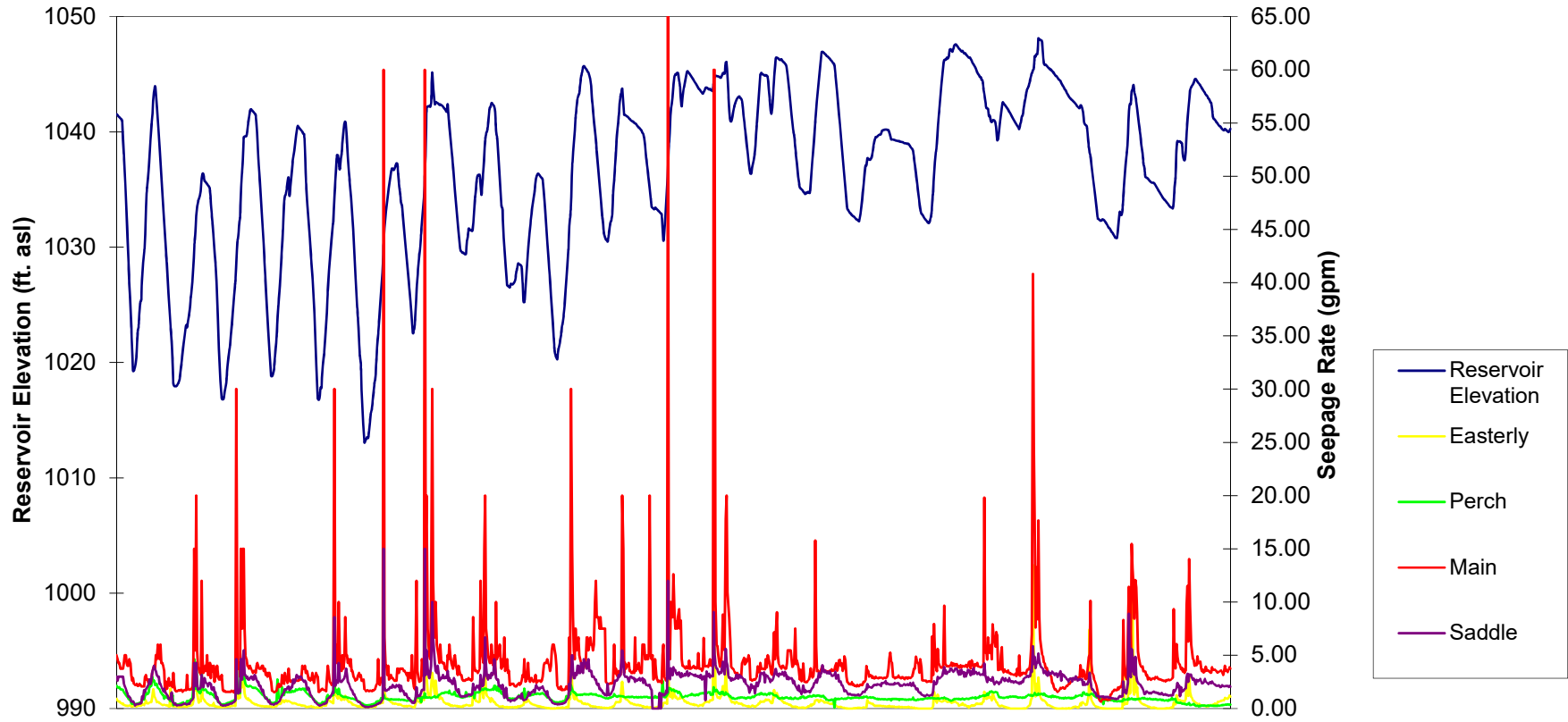
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



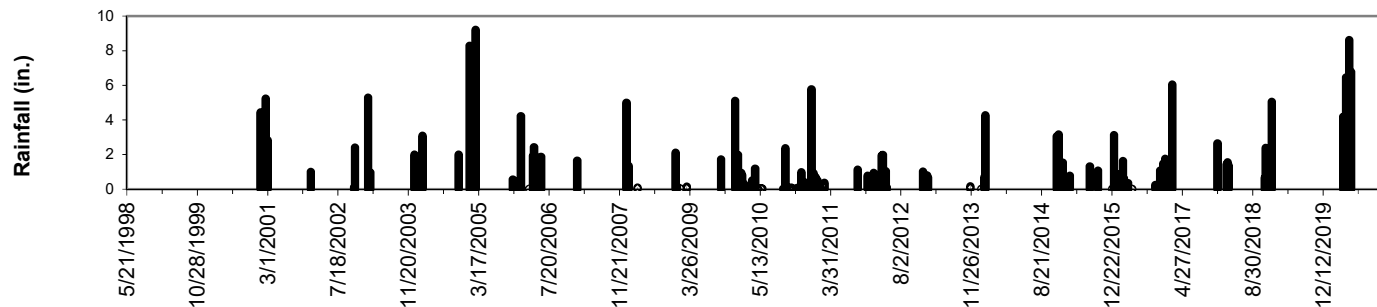
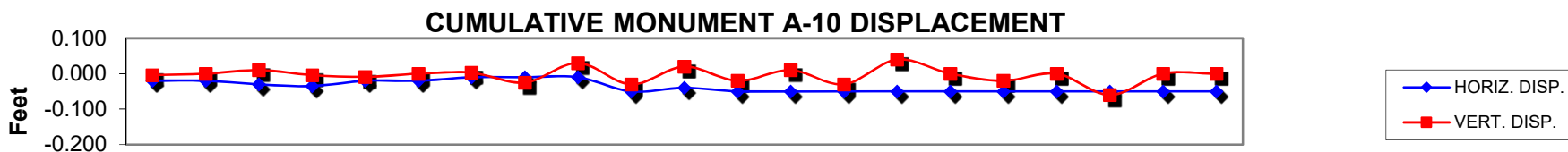
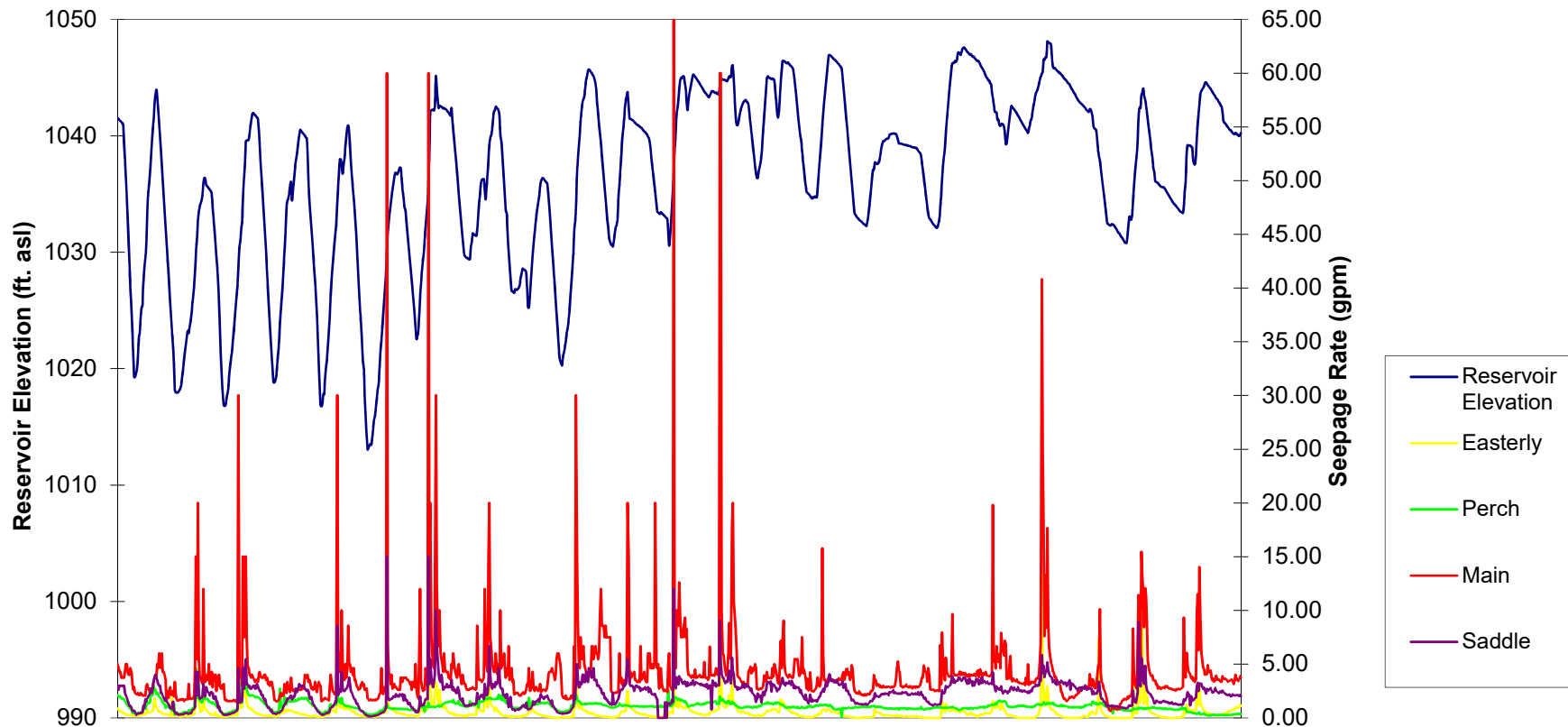
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



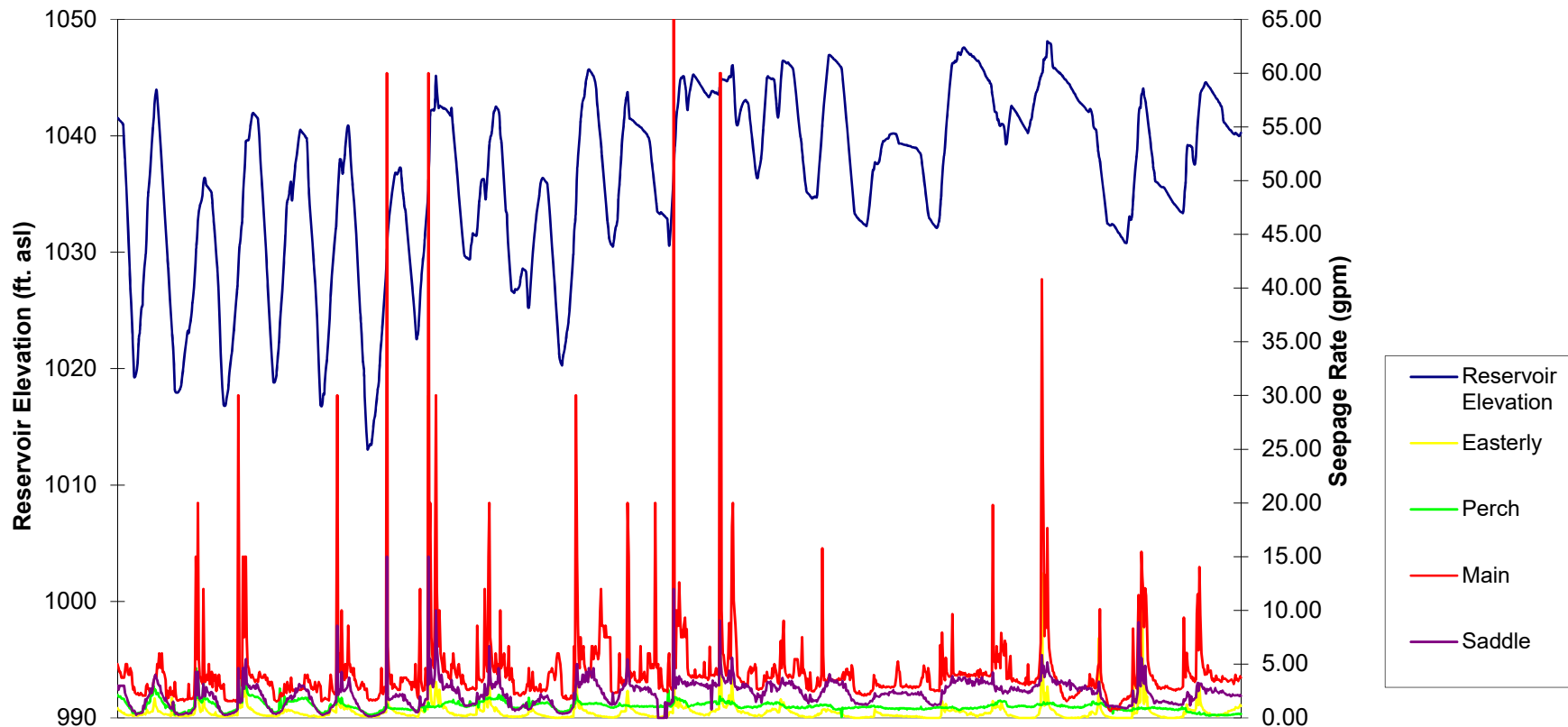
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



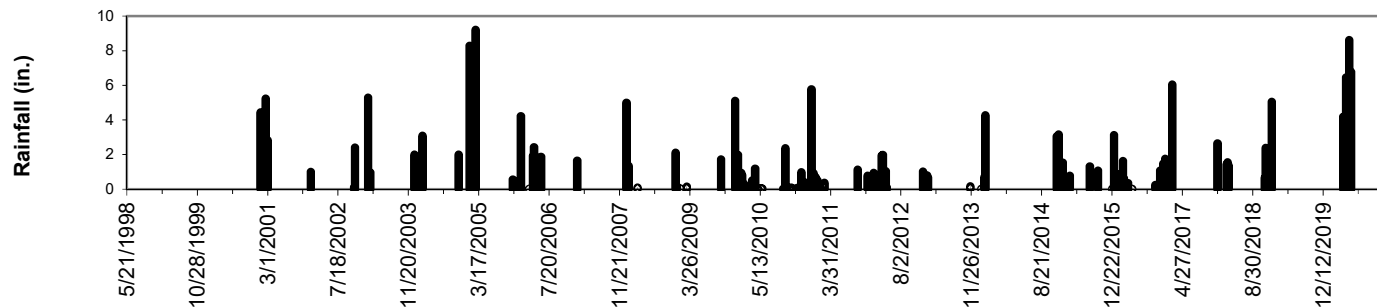
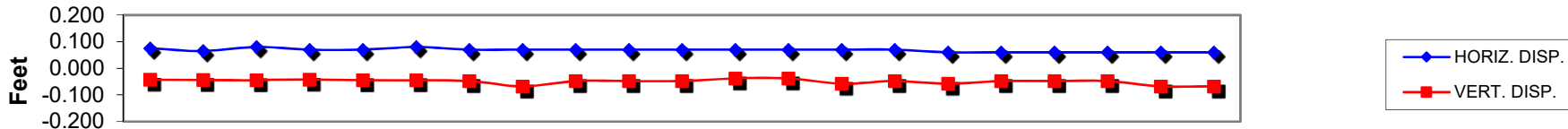
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



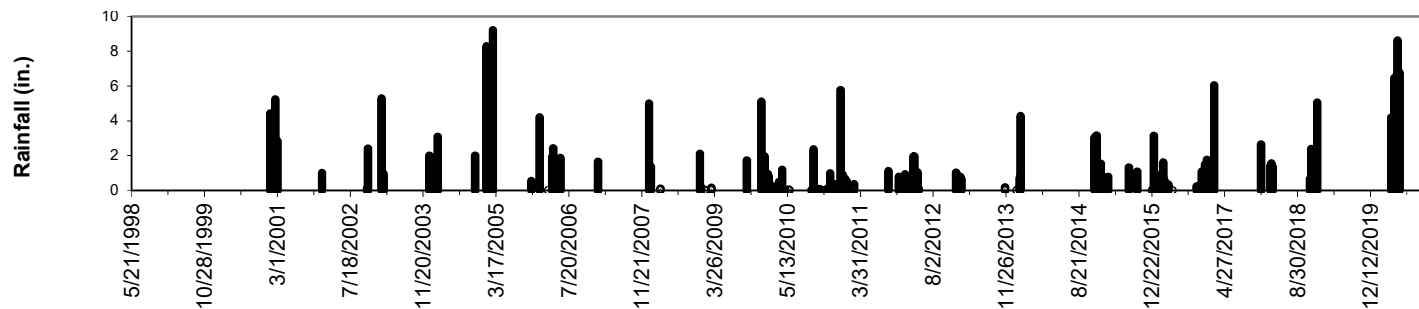
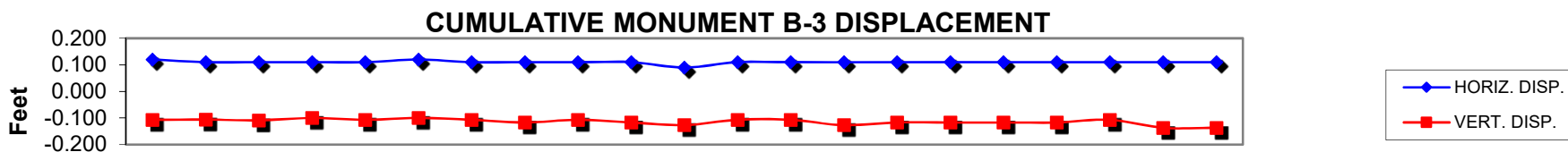
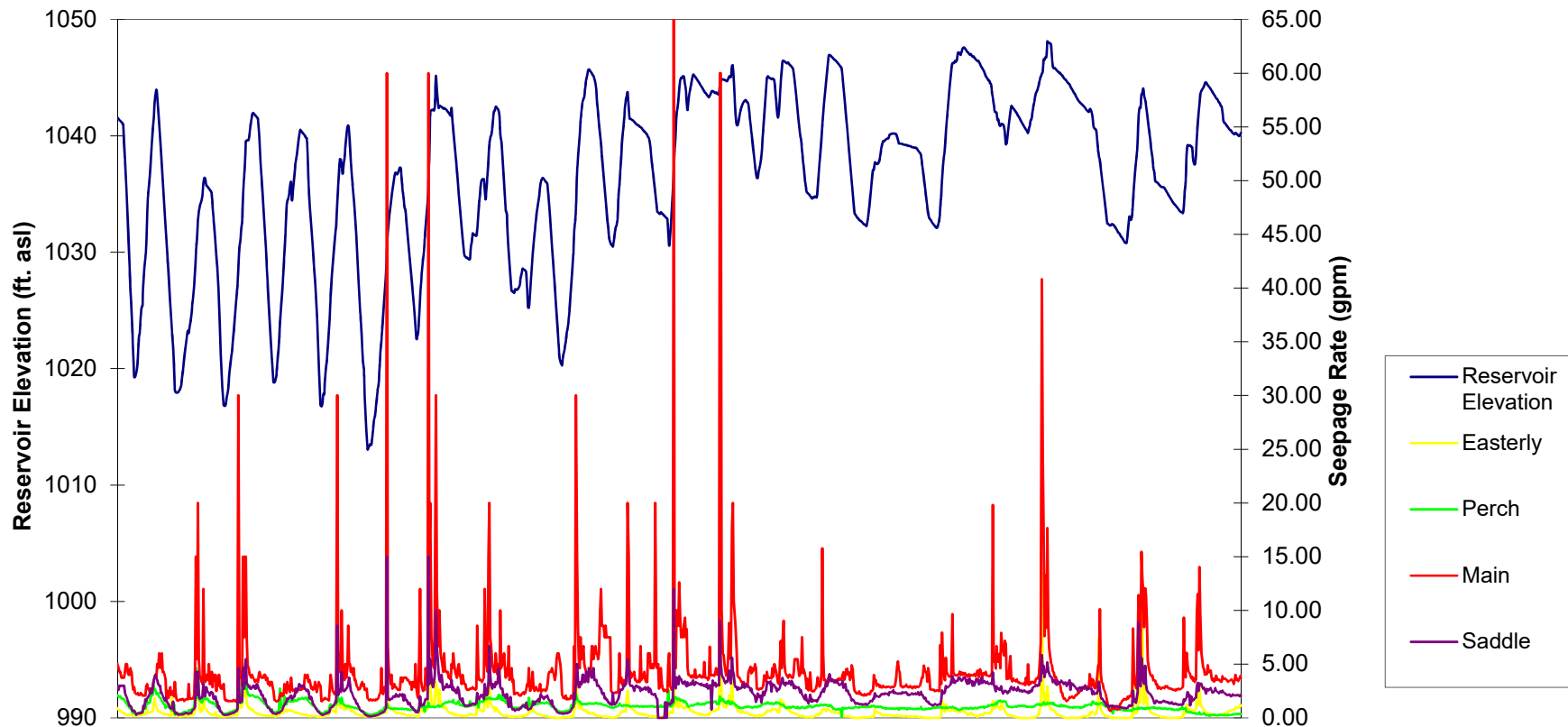
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



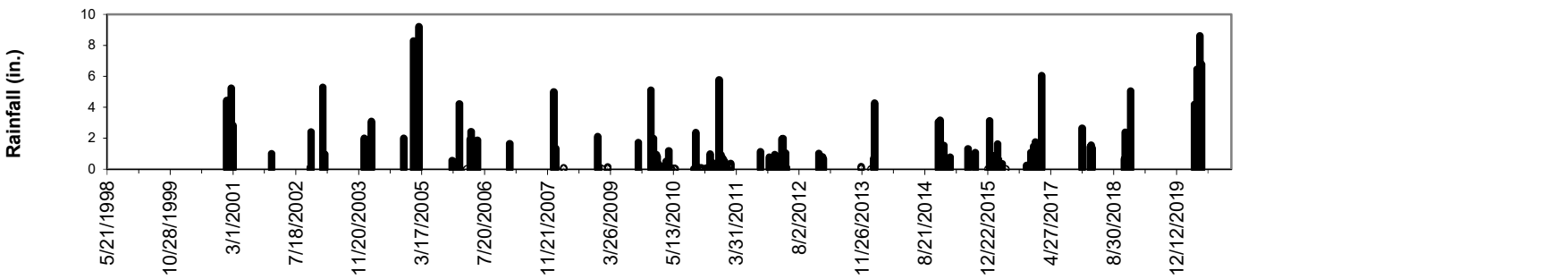
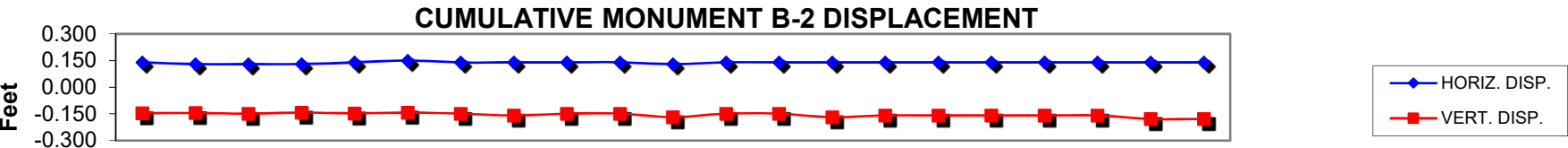
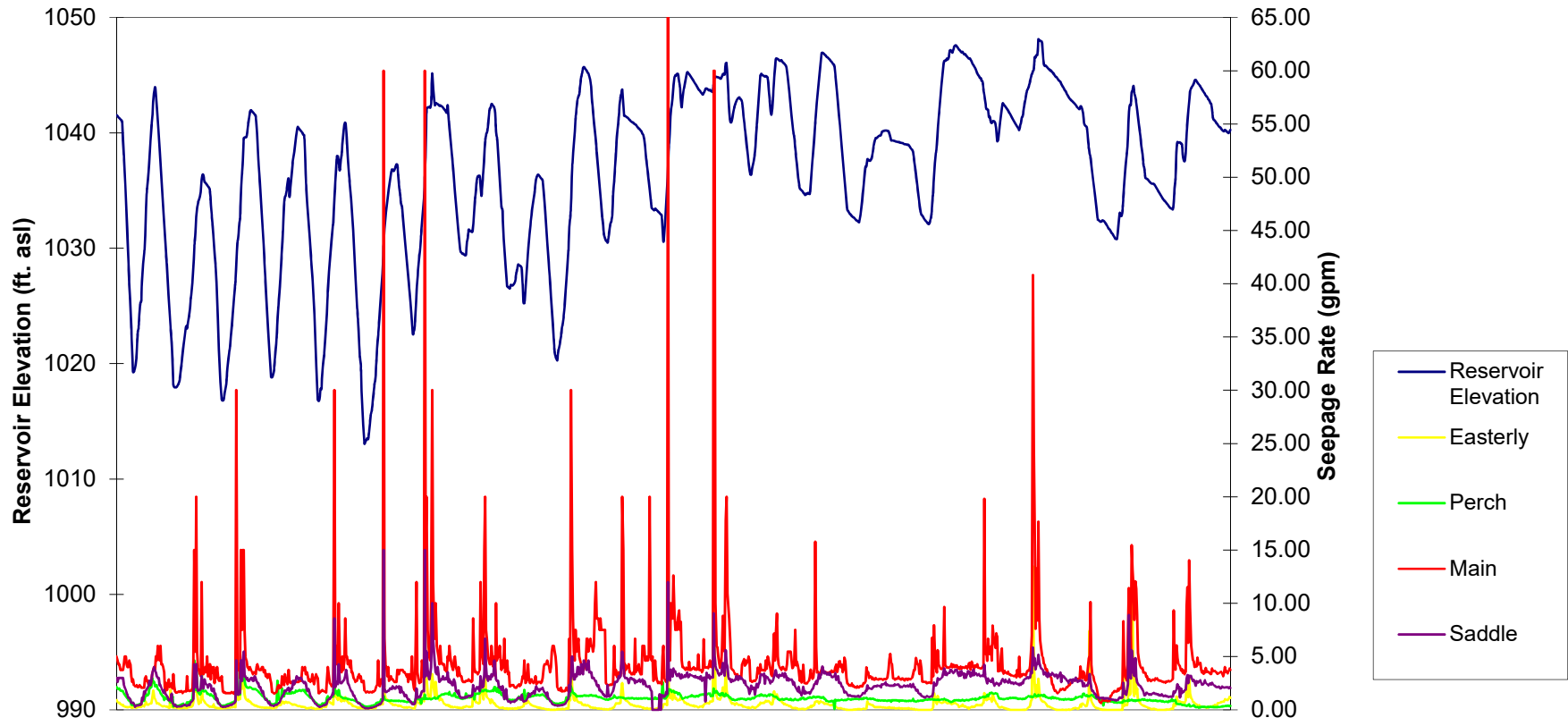
CUMULATIVE MONUMENT B-1 DISPLACEMENT

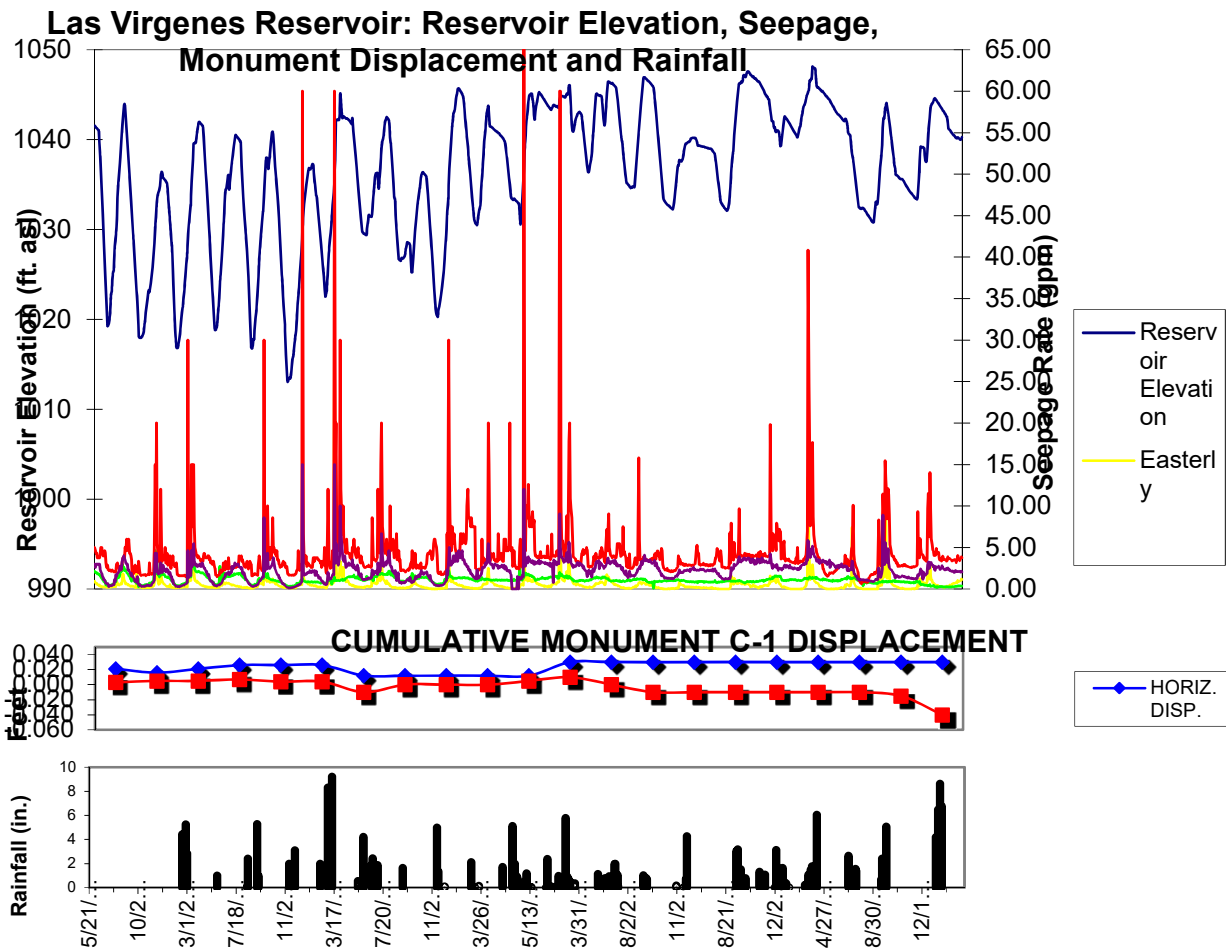


Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall



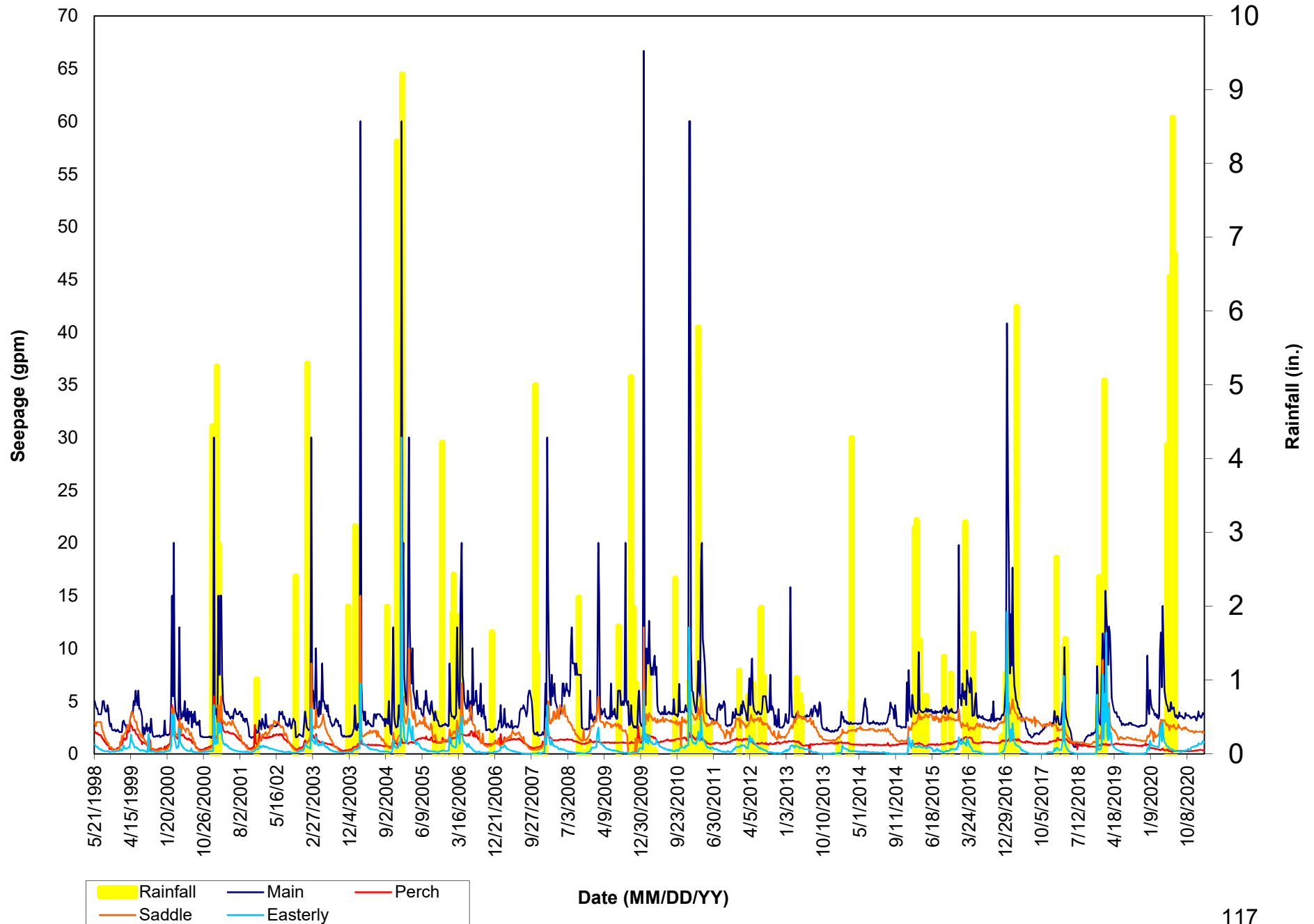
Las Virgenes Reservoir: Reservoir Elevation, Seepage, Monument Displacement and Rainfall





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

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



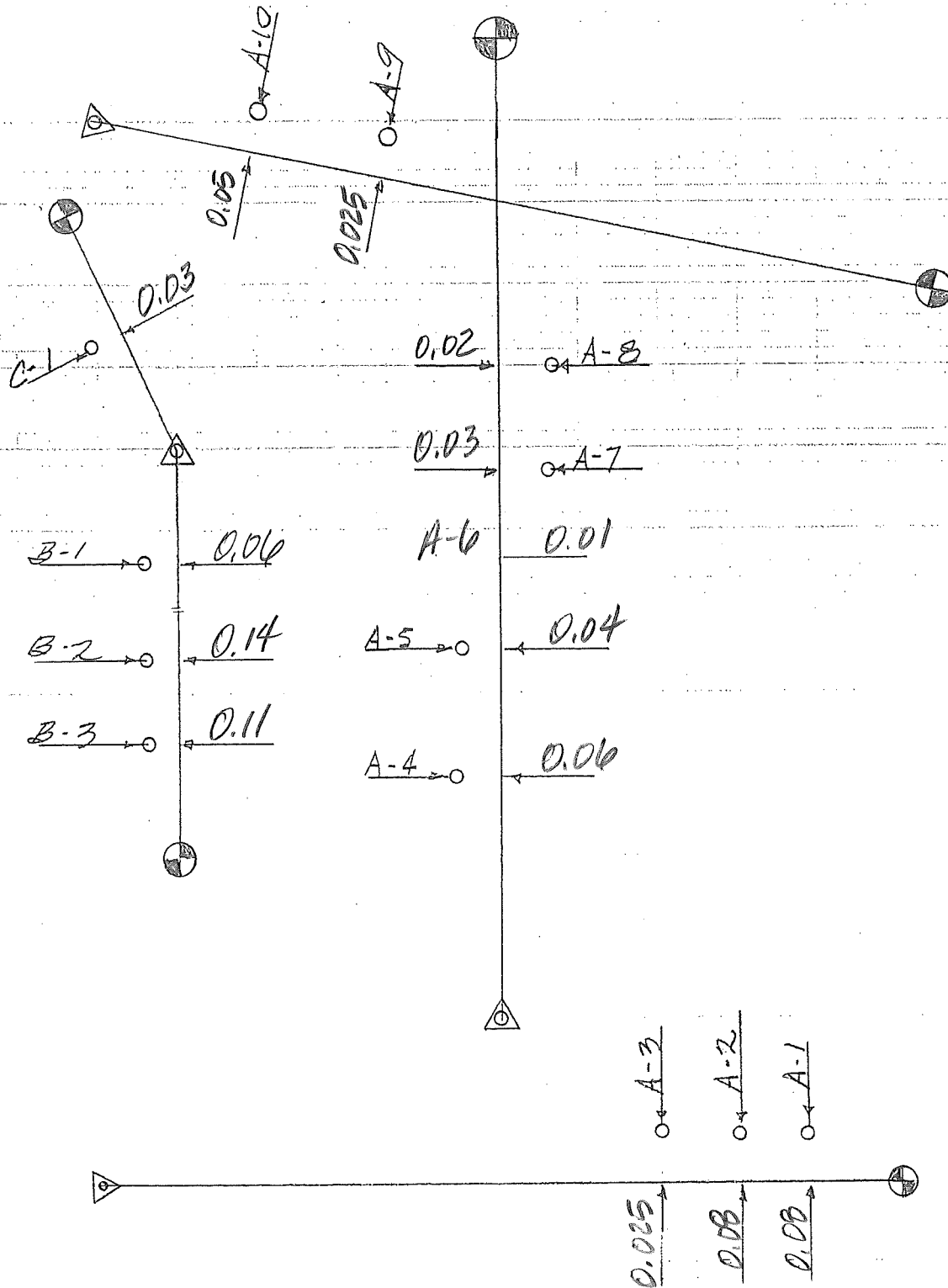
A-7 BENNER AND CARPENTER CIVIL ENGINEERS AND LAND SURVEYORS

BENNER AND CARPENTER
CIVIL ENGINEERS • LAND SURVEYORS

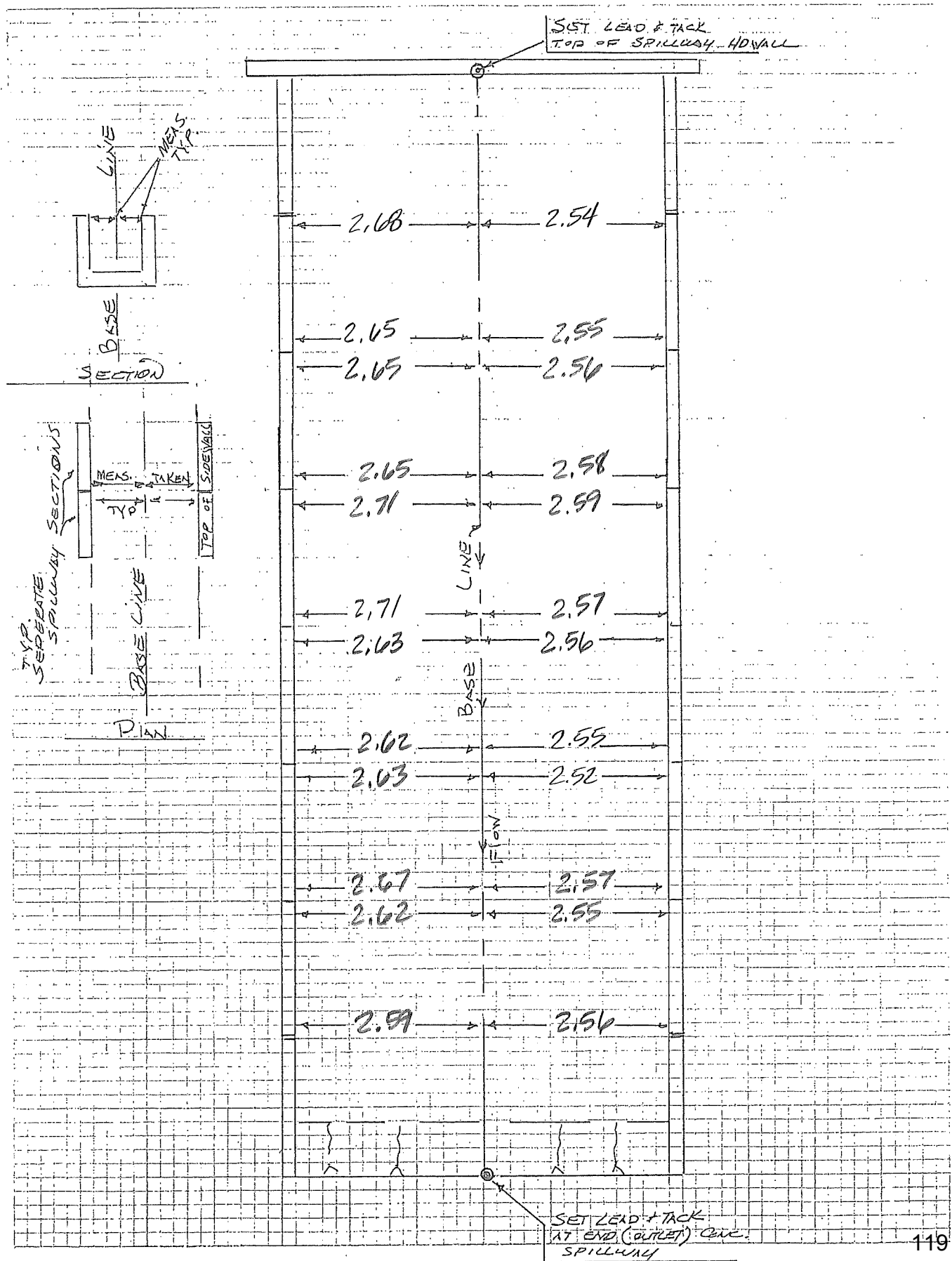
SURVEY OF WESTLAKE DAM SETTLEMENT CHECK DATE 1-26-21 J.N. 21-007

PARTY R. THOMAS, K. MARTIN F.B. _____ PAGE 1 OF 5

NOTES CALCD BY: _____ CALC'S CHECKED BY: _____



NOTES CALC'D BY: _____ CALC'S CHECKED BY: _____



BENNER and CARPENTER

CIVIL ENGINEERS • LAND SURVEYORS

J.N. 21-007 SURVEY OF WESTLAKE DAM DATE 1-26-21

F.B. _____ PAGE 3 of 5 PARTY R. THOMAS, K. MARTIN

NOTES CALC'D BY:

CHECKED BY

STATION	B.S.		H.I.		F.S.	ELEVATION		REMARKS
						1055	86	BM @ DOCK
	5	64	1061	50				
A-4					3	82	1057	68
	5	45	1063	13				
A-5					4	72	1058	41
	4	66	1063	07				
A-6					4	75	1058	32
	3	97	1062	29				
A-7					4	56	1057	73
	4	83	1062	56				
A-8					4	98	1057	58
	5	12	1062	70				
A-9					5	12	1057	58
	5	12	1062	70				
A-10					5	54	1057	16
	3	36	1060	52				
					13	865	1046	655 BM @ HDWL (1046.65)

BENNER and CARPENTER
 CIVIL ENGINEERS • LAND SURVEYORS

J.N. 21-007 SURVEY OF WESTLAKE DAM DATE 2-26-21

F.B. _____ PAGE 4 of 5 PARTY R. THOMAS, K. MARTIN

NOTES CALC'D BY:

CHECKED BY:

STATION	B.S.		H.I.		F.S.		ELEVATION		REMARKS
							1055	80	BM @ DOCK
	6	00	1061	80					
A-3					5	36	1056	50	
	5	09	1061	59					
A-2					5	07	1056	52	
	5	44	1061	96					
A-1					5	72	1056	24	
	5	49	1061	73					
					5	23	1056	50	
	5	50	1062	00					
					6	14	1055	86	BM @ DOCK

BENNER and CARPENTER
 CIVIL ENGINEERS • LAND SURVEYORS

J.N. 21-007 SURVEY OF WESTLAKE DAM DATE 1-26-21

F.B. _____ PAGE 5 OF 5 PARTY R. THOMAS, K. MARTIN

NOTES CALC'D BY: _____ CHECKED BY _____

STATION	B.S.		H.I.		F.S.		ELEVATION	REMARKS
							1013 88	BM @ NAIL IN ROCK
	2	11	1015	99				
C-1					5	11	1010 88	
	4	92						
			1015	80				
					1	92	1013 88	BM @ NAIL IN ROCK
							1014 64	BM @ NAIL IN ROCK
	1	66	1016	30				
B-1					6	03	1010 27	
B-2					6	35	1009 95	
	4	49	1014	44				
B-3					4	31	1010 13	
	4	39	1014	52				
					4	58	1009 94	
	6	12	1016	06				
					1	43	1014 63	BM @ NAIL IN ROCK

A-8 Shakemaps California Earthquake Archive 2020



keMap Archive
California During 2020-2021

Mag	Time	Latitude	Longitude	Location	Event ID
3.76	2021-02-10T01:27:09.840Z	33.1751667	-115.6113333	11km WNW of Calipatria, CA	ci39546975
3.82	2021-02-10T01:01:15.790Z	33.1753333	-115.6136667	11km WNW of Calipatria, CA	ci39546863
3.45	2021-02-08T08:00:12.410Z	32.7445	-115.827	16km E of Ocotillo, CA	ci39544719
3.74	2021-02-03T09:23:36.290Z	32.7516667	-115.8261667	16km E of Ocotillo, CA	ci39539439
3.53	2021-02-01T04:18:48.290Z	32.7506667	-115.8283333	16km E of Ocotillo, CA	ci39537399
3.52	2021-01-20T16:31:58.950Z	33.9186667	-118.2716667	2km W of Willowbrook, CA	ci39762912
3.45	2021-01-04T18:05:30.460Z	33.1935	-115.5928333	9km SW of Niland, CA	ci37463485
3.95	2021-01-04T18:04:59.600Z	33.1851667	-115.595	9km SW of Niland, CA	ci39510719
3.5	2020-12-27T04:05:37.240Z	35.4886667	-118.2883333	22km ESE of Bodfish, CA	ci39505103
3.64	2020-12-25T20:25:59.070Z	33.7473333	-115.9211667	23km ENE of Thermal, CA	ci39504023
2.76	2020-12-22T07:38:15.460Z	34.4573333	-117.9221667	6km SSW of Pearblossom, CA	ci39500703
3.33	2020-12-07T03:58:09.560Z	33.0455	-115.5841667	4km ENE of Westmorland, CA	ci39487231
3.62	2020-12-06T15:17:53.130Z	33.237	-116.6693333	6km SSW of Warner Springs, CA	ci39486671
3.25	2020-12-05T13:48:12.370Z	32.5916667	-117.29	14km SW of Coronado, CA	ci39485839
3.55	2020-12-05T05:41:29.460Z	33.4211667	-116.9311667	7km WSW of Aguanga, CA	ci39485527
2.91	2020-11-28T00:56:56.550Z	34.0465	-117.2418333	2km E of Loma Linda, CA	ci39478751
3.56	2020-11-26T22:59:57.630Z	33.174	-115.605	10km WNW of Calipatria, CA	ci39477815
3.1	2020-11-26T16:52:39.070Z	34.4638333	-117.9625	7km SSE of Littlerock, CA	ci39477655
3.51	2020-11-17T17:32:32.690Z	34.8618333	-116.3401667	23km NW of Ludlow, CA	ci39468407
3.47	2020-11-17T07:19:21.210Z	34.0711667	-116.7215	13km WNW of Morongo Valley, CA	ci39467983
3.41	2020-11-16T09:28:01.580Z	34.0433333	-117.2331667	3km ESE of Loma Linda, CA	ci39466855
2.64	2020-11-13T05:56:53.180Z	33.1598333	-115.6296667	11km WNW of Calipatria, CA	ci39464071
3.91	2020-10-22T20:59:26.460Z	33.2	-115.5845	8km SW of Niland, CA	ci39442103
3.44	2020-10-20T10:30:46.070Z	33.0053333	-116.2895	21km SW of Ocotillo Wells, CA	ci39669176
3.47	2020-10-19T03:34:43.950Z	34.8621667	-116.3395	23km NW of Ludlow, CA	ci39667688
3.42	2020-10-07T01:44:04.730Z	34.3541667	-116.8266667	10km N of Big Bear City, CA	ci39654952
3.62	2020-10-03T23:26:59.940Z	33.0223333	-115.5861667	4km ESE of Westmorland, CA	ci39651784
3.66	2020-10-02T06:08:50.640Z	33.0601667	-115.5716667	5km ENE of Westmorland, CA	ci39649056
3.71	2020-10-02T06:08:28.090Z	33.0691667	-115.5726667	6km NE of Westmorland, CA	ci39649048
3.4	2020-10-02T06:08:19.880Z	33.0681667	-115.5708333	6km NE of Westmorland, CA	ci39649040
3.87	2020-10-01T22:47:30.980Z	33.0595	-115.5815	4km ENE of Westmorland, CA	ci39647856
3.62	2020-10-01T14:46:42.020Z	33.0626667	-115.577	5km NE of Westmorland, CA	ci39646376
3.42	2020-10-01T13:35:39.460Z	33.067	-115.5781667	5km NE of Westmorland, CA	ci39646224
3.5	2020-10-01T12:46:38.210Z	33.0648333	-115.5765	5km NE of Westmorland, CA	ci39646032
3.46	2020-10-01T06:57:58.280Z	33.061	-115.5963333	4km NE of Westmorland, CA	ci39644616
3.66	2020-10-01T03:40:16.260Z	33.0706667	-115.5963333	4km NNE of Westmorland, CA	ci39643360
3.45	2020-10-01T03:37:54.500Z	33.0408333	-115.5938333	3km E of Westmorland, CA	ci39643336
4.02	2020-10-01T03:37:04.380Z	33.0518333	-115.575	5km ENE of Westmorland, CA	ci37456405

4.45	2020-10-01T03:36:34.130Z	33.0661667	-115.5971667	4km NE of Westmorland, CA	ci39643328
3.43	2020-10-01T03:32:57.950Z	33.0711667	-115.5986667	4km NNE of Westmorland, CA	ci39643288
3.5	2020-10-01T03:31:00.900Z	33.084	-115.5898333	6km NNE of Westmorland, CA	ci39643256
3.45	2020-10-01T01:46:52.040Z	33.067	-115.5868333	5km NE of Westmorland, CA	ci39642320
3.46	2020-10-01T01:17:36.630Z	33.0633333	-115.5865	4km NE of Westmorland, CA	ci39641968
3.51	2020-10-01T01:11:05.530Z	33.0413333	-115.5835	4km E of Westmorland, CA	ci39641888
3.65	2020-10-01T01:10:44.840Z	33.0473333	-115.5931667	3km ENE of Westmorland, CA	ci37456509
4.12	2020-10-01T01:10:25.770Z	33.0436667	-115.59	3km ENE of Westmorland, CA	ci39641880
3.41	2020-10-01T01:05:05.340Z	33.0555	-115.6003333	3km NE of Westmorland, CA	ci39641840
4.09	2020-10-01T00:58:13.850Z	33.065	-115.5933333	4km NE of Westmorland, CA	ci39641768
3.4	2020-10-01T00:50:55.360Z	33.0433333	-115.5866667	3km ENE of Westmorland, CA	ci39641712
3.41	2020-10-01T00:48:06.170Z	33.0478333	-115.5743333	4km ENE of Westmorland, CA	ci39641672
3.35	2020-10-01T00:47:18.930Z	33.0478333	-115.5895	3km ENE of Westmorland, CA	ci39641656
3.58	2020-10-01T00:41:34.960Z	33.0236667	-115.5776667	4km ESE of Westmorland, CA	ci37456517
4.18	2020-10-01T00:41:18.390Z	33.0713333	-115.5983333	4km NNE of Westmorland, CA	ci39641616
3.46	2020-10-01T00:36:30.510Z	33.0328333	-115.5868333	3km E of Westmorland, CA	ci39641568
3.7	2020-10-01T00:34:00.750Z	33.0283333	-115.5998333	2km ESE of Westmorland, CA	ci37456501
3.9	2020-10-01T00:33:48.650Z	33.0468333	-115.59	3km ENE of Westmorland, CA	ci39641544
4.93	2020-10-01T00:31:27.340Z	33.056	-115.5898333	4km NE of Westmorland, CA	ci39641528
3.69	2020-09-30T23:58:02.300Z	33.0493333	-115.5846667	4km ENE of Westmorland, CA	ci39641288
3.24	2020-09-30T23:33:34.010Z	33.0515	-115.5905	3km ENE of Westmorland, CA	ci39641072
4.35	2020-09-30T23:31:51.790Z	33.053	-115.5955	3km NE of Westmorland, CA	ci39641064
3.53	2020-09-30T23:15:30.950Z	33.0476667	-115.5966667	3km ENE of Westmorland, CA	ci39640688
3.65	2020-09-30T23:06:02.600Z	33.045	-115.5901667	3km ENE of Westmorland, CA	ci39640528
3.65	2020-09-25T17:10:11.370Z	33.947	-116.3955	10km E of Desert Hot Springs, CA	ci38703802
3.2	2020-09-23T12:24:27.850Z	34.2033333	-117.6536667	11km NW of Rancho Cucamonga, CA	ci38700978
3.28	2020-09-21T13:20:38.360Z	33.701	-117.4355	11km WNW of Lake Elsinore, CA	ci38697738
4.54	2020-09-19T06:38:46.930Z	34.038	-118.08	3km WSW of South El Monte, CA	ci38695658
3.9	2020-09-06T01:48:36.530Z	34.564	-120.062	6km SSE of Santa Ynez, CA	ci38678266
2.91	2020-08-30T19:43:06.190Z	34.0491667	-117.5203333	5km NW of Glen Avon, CA	ci39365527
3.65	2020-08-28T11:26:03.310Z	32.5673333	-115.6891667	10km W of Progreso, B.C., MX	ci39363095
2.98	2020-08-19T17:50:22.890Z	34.1116667	-117.4346667	3km NE of Fontana, CA	ci39584688
3.55	2020-08-11T11:19:57.690Z	33.2271667	-115.7018333	14km SSE of Bombay Beach, CA	ci39340599
4.03	2020-08-10T19:29:29.720Z	33.2653333	-115.6841667	10km SSE of Bombay Beach, CA	ci39339191
3.49	2020-08-10T18:30:05.830Z	33.2298333	-115.6925	14km SSE of Bombay Beach, CA	ci37452101
3.51	2020-08-10T17:39:15.940Z	33.227	-115.6991667	14km SSE of Bombay Beach, CA	ci39338839
3.73	2020-08-10T16:13:56.000Z	33.232	-115.6935	14km SSE of Bombay Beach, CA	ci39338487
3.95	2020-08-10T16:03:39.160Z	33.2503333	-115.688	12km SSE of Bombay Beach, CA	ci39338447
3.12	2020-08-10T16:00:13.640Z	33.255	-115.6846667	12km SSE of Bombay Beach, CA	ci39338423
4.59	2020-08-10T15:56:14.330Z	33.2468333	-115.69	12km SSE of Bombay Beach, CA	ci39338407
3.54	2020-08-10T15:55:48.220Z	33.2506667	-115.6953333	12km SSE of Bombay Beach, CA	ci39338399
3.5	2020-08-03T22:18:51.810Z	33.8656667	-117.8336667	3km SW of Yorba Linda, CA	ci39328911
3.73	2020-07-30T13:48:19.180Z	34.2936667	-118.4355	1km NNE of San Fernando, CA	ci39322767
3.07	2020-07-30T11:38:39.500Z	34.2996667	-118.4366667	1km N of San Fernando, CA	ci39322383
4.17	2020-07-30T11:29:29.050Z	34.3016667	-118.4383333	1km SE of Sylmar, CA	ci39322287
3.6	2020-07-20T22:01:53.080Z	34.9318333	-119.0378333	10km W of Grapevine, CA	ci38599882
2.98	2020-07-09T10:03:43.630Z	33.9228325	-117.4601669	6km SSE of Pedley, CA	ci39285575
3.42	2020-07-05T12:17:01.200Z	32.8655	-116.2268333	26km WNW of Ocotillo, CA	ci39280319
3.7	2020-06-28T22:13:58.510Z	33.2341667	-115.6945	13km SSE of Bombay Beach, CA	ci39271647
3.9	2020-06-03T04:36:23.390Z	35.2301667	-117.1843333	40km NNW of Barstow, CA	ci39227895
3.66	2020-05-27T04:52:31.080Z	35.385	-118.9645	6km SE of Oildale, CA	ci39218863

3.59	2020-05-26T19:53:46.400Z	32.7123333	-115.7691667	21km E of Ocotillo, CA	ci39218391
4.54	2020-05-10T22:07:40.370Z	33.0183333	-116.0201667	17km SE of Ocotillo Wells, CA	ci38488354
3.87	2020-05-06T08:27:05.150Z	33.1843333	-115.6156667	11km SW of Niland, CA	ci38482130
2.88	2020-05-03T21:45:40.180Z	34.2571667	-118.6113333	1km W of Chatsworth, CA	ci38478418
3.12	2020-05-03T10:19:24.720Z	34.262	-118.6093333	1km NW of Chatsworth, CA	ci38477842
3.58	2020-05-02T23:44:37.050Z	32.7553333	-115.4306667	8km SW of Holtville, CA	ci38477458
3.69	2020-04-22T07:03:47.740Z	33.989	-118.3495	1km S of View Park-Windsor Hills, CA	ci39400304
3.43	2020-04-19T08:34:49.120Z	34.4815	-119.427	12km NE of Carpinteria, CA	ci39396176
3.22	2020-04-08T01:00:14.260Z	33.4981667	-116.5228333	15km ESE of Anza, CA	ci39141967
3.54	2020-04-08T00:30:49.230Z	33.4985	-116.5253333	15km ESE of Anza, CA	ci39141591
3.51	2020-04-06T15:58:14.840Z	33.577	-115.9081667	6km NNE of North Shore, CA	ci39138119
3.5	2020-04-05T22:37:18.820Z	33.4961667	-116.4961667	18km ESE of Anza, CA	ci39135575
3.49	2020-04-05T21:07:44.910Z	33.5036667	-116.5278333	15km ESE of Anza, CA	ci39134871
3.46	2020-04-04T05:12:35.150Z	33.4921667	-116.5118333	16km ESE of Anza, CA	ci39128103
3.6	2020-04-04T04:07:22.120Z	33.4913333	-116.5188333	16km ESE of Anza, CA	ci39127679
3.49	2020-04-04T03:17:46.630Z	35.0101667	-118.4986667	14km SSW of Tehachapi, CA	ci39127167
3.66	2020-04-04T02:05:00.170Z	33.4946667	-116.5153333	16km ESE of Anza, CA	ci39126263
3.76	2020-04-04T01:54:22.570Z	33.4931667	-116.505	17km ESE of Anza, CA	ci39126087
4.87	2020-04-04T01:53:18.920Z	33.4895	-116.5063333	17km ESE of Anza, CA	ci39126079
3.52	2020-02-21T13:42:53.410Z	34.5075	-118.6345	2km NNW of Castaic, CA	ci39079535
3.93	2020-02-08T19:34:20.720Z	35.095	-116.9671667	22km NNE of Barstow, CA	ci39296624
3.64	2020-02-02T00:59:50.610Z	33.5768333	-116.8171667	14km W of Anza, CA	ci39289384

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



July 7, 2021

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

Westlake Reservoir Dam, No. 1073
Los Angeles County

Dear Mr. Pedersen:

Thank you for the surveillance data transmitted to the Division of Safety of Dams (DSOD) on April 28, 2021. 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 no comments at this time.

Thank you for your cooperation. If you have any questions or need additional information, you may contact Field Engineer Everett Penn at (916) 565-7874 or me at (916) 565-7827.

Sincerely,

Brandon Cruz For RGD

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

