



Board of Directors

Brian Brennan, Director
Richard Hajas, Director
Neil Cole, Director

Mary Bergen, Director
Pete Kaiser, Director

CASITAS MUNICIPAL WATER DISTRICT
Meeting to be held at the

District Office
1055 Ventura Ave.
Oak View, CA 93022
www.casitaswater.org

Join Zoom Meeting

<https://us06web.zoom.us/j/98414854813?pwd=UXhtWS9zdm83ZU5CazNXenIEVEIRUT09>
Meeting ID: 984 1485 4813 Passcode: 757052

To participate via telephone please call (888) 788-0099 or (877) 853-5247
Enter Meeting ID: 984 1485 4813#, Passcode: 757052#

July 26, 2023 @ 5:00 PM

Right to be heard: Members of the public have a right to address the Board directly on any item of interest to the public which is within the subject matter jurisdiction of the Board. The request to be heard should be made immediately before the Board's consideration of the item. No action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of §54954.2 of the Government Code and except that members of a legislative body or its staff may briefly respond to statements made or questions posed by persons exercising their public testimony rights under section 54954.3 of the Government Code.

Special Accommodations: If you require special accommodations for attendance at or participation in this meeting, please notify our office 24 hours in advance at (805) 649-2251, ext. 113. (Govt. Code Section 54954.1 and 54954.2(a)).

1. CALL TO ORDER
2. ROLL CALL

3. PLEDGE OF ALLEGIANCE
4. AGENDA CONFIRMATION
5. PUBLIC COMMENTS - Presentation on District related items that are not on the agenda - three minute limit.
6. CONSENT AGENDA
 - 6.a. Accounts Payable Report.
[Accounts Payable.pdf](#)
 - 6.b. Minutes of the July 12, 2023 Board Meeting.
[7 12 2023 Min.pdf](#)
7. ACTION ITEMS
 - 7.a. Discussion and possible action on Casitas MWD's Draft 2023 Water Rate Study.
 - a. Draft study discussion regarding timing of rate adjustment and the possible impact on District finances.
 - b. Schedule water rates hearing for October 11, 2023.
[Board Memo Proposed Water Rates 072623.pdf](#)
[ATT 1. Casitas Water Rate Study 7.7.2023.pdf](#)
[ATT 2. Water Rate Notice 072623.pdf](#)
 - 7.b. Authorize the General Manager to sign Change Order No. 1 for Emergency Generator at Rincon Pump Plant, Specification No. 21-447, to Taft Electric Company in the amount of \$153,204.00.
[Board Memo_Emergency Generators Change Order 07_26_23.pdf](#)
[COR 1.pdf](#)
 - 7.c. Authorize the General Manager to sign Change Order No. 5 for West and East Ojai Avenue Pipeline Replacement, Specification No. 19-411, to Burns Pacific Construction in the amount of \$138,234.37.
[W_E_Ojai Ave. Pipeline Replacement_COR No.5.pdf](#)
[West_East_Ojai Ave Pipeline Replacement Change Order #5.pdf](#)
 - 7.d. Declaration of Casitas MWD items (welder & pumps) and four vehicles (Unit #19, Unit #35, Unit #54 & Unit #72) as surplus and direct staff to dispose of the same.
[Board Memo - Surplus Items ans Vehicles 072623.pdf](#)
8. INFORMATION ITEMS
 - 8.a. Annual Hydrology Report Water Year 2022.
[230719 - Final Annual Report WY 2022.pdf](#)
 - 8.b. Hydrology Report June 2023.

9. GENERAL MANAGER COMMENTS
10. BOARD OF DIRECTOR REPORTS ON MEETINGS ATTENDED
11. BOARD OF DIRECTOR COMMENTS PER GOVERNMENT CODE SECTION 54954.2(a).
12. CLOSED SESSION
 - 12.a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION (Government Code Section 54956.9(a) Santa Barbara Channelkeeper v. State Water Resources Control Board, City of San Buenaventura, et al.; and City of San Buenaventura v Duncan Abbott, et al., Cross Complaint; Superior Court of the State of California, County of Los Angeles, Case No. 19STCP01176.
13. ADJOURNMENT

CASITAS MUNICIPAL WATER DISTRICT
General Fund Check Authorization
Checks Dated 07/06/23 - 07/19/23
Presented to the Board of Directors For Approval July 26, 2023

Check	Payee	Description	Amount
001214	Payables Fund Account # 9759651478	Accounts Payable Batch 071223	\$ 1,377,520.19
001215	Payables Fund Account # 9759651478	Accounts Payable Batch 071923	\$ 562,935.12
			<u>\$ 1,940,455.31</u>
001216	Payroll Found Account # 9469730919	Estimated Payroll 08/10/23	\$ 340,000.00
001217	Payroll Found Account # 9469730919	Estimated Payroll 08/24/23	\$ 340,000.00
001218	Payroll Found Account # 9469730919	Estimated Payroll 09/07/23	\$ 340,000.00
		Total	<u>\$ 2,960,455.31</u>

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

The above numbered checks, 001214-001218 have been duly audited is hereby certified as correct.



Janyne Brown, Chief Financial Officer

A/P Fund

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

012114	A/P Checks:	050345-050434
	A/P Draft	000614-000621
	Voids:	

001215	A/P Checks:	050435-050506
	A/P Draft	000622-000625
	Voids:	



Janyne Brown , Chief Financial Officer

CERTIFICATION

Payroll disbursements for the pay period ending 07/08/23

Pay Date 07/13/23

have been duly audited and are
hereby certified as correct.

Signed: Jayne Brown

Jayne Brown

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
01483	CORVEL CORPORATION							
I-071123-CMWD	Corvel Claims - 07/04-07/10/23	D	7/12/2023	2,076.21		000614		2,076.21
03206	U.S. Bank Global Corporate Tru							
I-6964161	CFD 2013-1 Ojai Tax Bond	D	7/12/2023	3,025.00		000615		3,025.00
04684	Univar Solutions USA Inc.							
I-51231384	Sod Hypo 12.5% - WP	D	7/12/2023	3,758.68		000616		
I-51235325	Hydrochloric Acid 15% - WP	D	7/12/2023	1,994.41		000616		5,753.09
00128	INTERNAL REVENUE SERVICE							
I-T1 202307102214	Federal Withholding	D	7/12/2023	49,121.93		000617		
I-T3 202307102214	SS Withholding	D	7/12/2023	57,891.38		000617		
I-T4 202307102214	Medicare Withholding	D	7/12/2023	13,539.18		000617		120,552.49
00187	CALPERS							
I-PBB202307102214	PERS BUY BACK	D	7/12/2023	130.46		000618		
I-PBP202307102214	PERS BUY BACK	D	7/12/2023	161.96		000618		
I-PEB202307102214	PEPRA EMPLOYEES PORTION	D	7/12/2023	14,772.74		000618		
I-PEM202307102214	PERS EMPLOYEE PORTION MGMT	D	7/12/2023	1,882.42		000618		
I-PER202307102214	PERS EMPLOYEE PORTION	D	7/12/2023	7,425.85		000618		
I-PRB202307102214	PEBRA EMPLOYER PORTION	D	7/12/2023	14,639.30		000618		
I-PRR202307102214	PERS EMPLOYER PORTION	D	7/12/2023	14,350.72		000618		53,363.45
00180	S.E.I.U. - LOCAL 721							
I-COP202307102214	SEIU 721 COPE	D	7/12/2023	2.50		000619		
I-UND202307102214	UNION DUES	D	7/12/2023	922.75		000619		925.25
00049	STATE OF CALIFORNIA							
I-SDI202307102214	CASDI Withholding	D	7/12/2023	2,083.46		000620		
I-T2 202307102214	STATE WITHHOLDING (CA)	D	7/12/2023	17,820.10		000620		19,903.56
05790	STATE OF OREGON							
I-OST202307102214	OR STATE TRANSIT TAX	D	7/12/2023	6.02		000621		
I-T2 202307102214	STATE WITHHOLDING (OR)	D	7/12/2023	442.72		000621		448.74
01483	CORVEL CORPORATION							
I-071823-CMWD	Corvel Claims 07/11-07/17/23	D	7/19/2023	425.00		000622		425.00
05973	Mechanics Bank Credit Card							
I-0602623a	Inport Fees - EM	D	7/19/2023	67.62		000623		
I-062623b	Cognito Forms - SAFE	D	7/19/2023	99.00		000623		
I-062623c	Geographic Inf Syst. - ENG	D	7/19/2023	1,195.00		000623		
I-062623d	Zapier Forms - SAFE	D	7/19/2023	239.88		000623		
I-062623e	City of Ojai Permit - ENG	D	7/19/2023	225.00		000623		
I-062623f	Lunch with City of SB - MGMT	D	7/19/2023	66.49		000623		
I-062623g	Annual Membership Fee	D	7/19/2023	99.00		000623		
I-062623h	Shipping - MGMT	D	7/19/2023	24.90		000623		

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
I-062623i	Shipping - MGMT	D	7/19/2023	24.90		000623		
I-062623j	Microsoft Licenses - IT	D	7/19/2023	643.50		000623		2,685.29
06052	Truist Governmental Finance Debt Service Water Park Replac	D	7/19/2023	163,188.25		000624		163,188.25
04684	Univar Solutions USA Inc. Sod Hypo 12.5% - Wp	D	7/19/2023	5,450.09		000625		5,450.09
02297	AAA AWNINGS INC. Awining Kit Sodioum Hypo Tank	R	7/12/2023	4,477.00		050345		
I-9310	Install Awning at MM Well	R	7/12/2023	2,854.00		050345		7,331.00
02731	AED Superstore/Annuvia PM-Electrode Adult Cartridge	R	7/12/2023	91.11		050346		91.11
00010	AIRGAS USA LLC Welding Supplies - PL	R	7/12/2023	59.96		050347		
I-9139582894	Welding Supplies - UB	R	7/12/2023	979.03		050347		1,038.99
00012	ALL-PHASE ELECTRIC SUPPLY CO. Electrical Parts for Camaras	R	7/12/2023	3,440.07		050348		3,440.07
03044	Amazon Capital Services Toner Return - PR	R	7/12/2023	242.37CR		050349		
I-17HX-XY7M-PY9M	Sensor Unit. Internal Hard Dri	R	7/12/2023	1,033.11		050349		
I-1CTL-YX9K-491H	Toner - PR	R	7/12/2023	242.37		050349		
I-1K1G-C63Q-GGND	Backpack - FISH	R	7/12/2023	150.16		050349		
I-1KRD-317N-1Y9C	Toner - PR	R	7/12/2023	748.55		050349		
I-1NCX-TT9K-N4XG	Monitor - ENG	R	7/12/2023	326.74		050349		
I-1RMT-9LPN-L3GG	Carrying Case for DJI - SAFE	R	7/12/2023	83.64		050349		2,342.20
00014	AQUA-FLO SUPPLY 2" Clamp & Shovel - PL	R	7/12/2023	244.83		050350		
I-SI2140430	Shower Nozz;e & Pipe Wrench	R	7/12/2023	66.16		050350		
I-SI2140431	Shovels - UT	R	7/12/2023	108.68		050350		419.67
01666	AT & T Acct#9391080431	R	7/12/2023	947.89		050351		947.89
00018	AT & T MOBILITY Acct#287290467941	R	7/12/2023	249.56		050352		
I-28729425643X0723	Acct#287294256431	R	7/12/2023	1,079.66		050352		1,329.22

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
03429	AT&T I-3150207714 Acct#80030939773	R	7/12/2023	13.06		050353		13.06
00021	AWA OF VENTURA COUNTY I-06-14981 I-070123 CCWUC Training - O&M & LAB CCWUC Membership Renewal	R R	7/12/2023 7/12/2023	60.00 150.00		050354 050354		210.00
05140	Annette Ayala I-96 Ojai Ave Cultural Monitor -ENG	R	7/12/2023	5,815.80		050355		5,815.80
00679	BAKERSFIELD PIPE & SUPPLY INC I-S3037451.001 I-S3037451.003 Flange, Spray on Compound - PL Conc Reducer - PL	R R	7/12/2023 7/12/2023	236.30 26.94		050356 050356		263.24
00036	BC TREE SERVICE, INC I-4169 Weed Abatement Canal - MAINT	R	7/12/2023	1,900.00		050357		1,900.00
01611	BURLINGTON SAFETY LABORATORY, I-88038 Gloves Retested - EM	R	7/12/2023	50.00		050358		50.00
05952	Burns Pacific Construction, In I-070723 W.& E. Ojai Ave Pipe Replace	R	7/12/2023	188,261.50		050359		188,261.50
01068	CAPIO I-18757 Membership Renewal - PR	R	7/12/2023	275.00		050360		275.00
02041	Custom Mailing Solutions, Inc I-9960 2023 CCR Mailing/Postage	R	7/12/2023	3,186.49		050361		3,186.49
01001	CUSTOM PRINTING I-167175 2023 CCR Postcard	R	7/12/2023	1,304.50		050362		1,304.50
02722	D&H Water Systems I-I2023-0931 V-Notch Plug - TP	R	7/12/2023	10.50		050363		10.50
01764	DataProse, LLC I-DP2302661 UB Mailing 06/23	R	7/12/2023	3,957.18		050364		3,957.18
00740	DELL MARKETING L.P. I-10680893940 Computer Equipment - UT	R	7/12/2023	2,134.79		050365		2,134.79
06008	Docu Products I-263666 Copier Usage - DO	R	7/12/2023	168.91		050366		168.91

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
02667 I-48502	Digital Telecommunications Cor Remote Support - LCRA & PR	R	7/12/2023	165.00		050367		165.00
00086 I-1434	E.J. Harrison & Sons Inc Acct#500890288	R	7/12/2023	101.93		050368		101.93
00086 I-1435a	E.J. Harrison & Sons Inc Acct#500891963	R	7/12/2023	101.93		050369		101.93
00095 I-S100103881.001 I-S100105548.001	FAMCON PIPE & SUPPLY Sddle - Proj 743 Running Ridge/Stock Parts - PL	R R	7/12/2023 7/12/2023	160.88 18,548.89		050370 050370		18,709.77
00093 I-8-171-30281	FEDERAL EXPRESS Shipping - LAB	R	7/12/2023	62.46		050371		62.46
00104 I-148546	FRED'S TIRE MAN Tires Wanda Turf - MAINT	R	7/12/2023	95.02		050372		95.02
02720 I-10744547	Garda CL West, Inc. Armored Truck Service - DO	R	7/12/2023	171.20		050373		171.20
04634 I-380-0035245	GHD Inc Emergency Generator Design	R	7/12/2023	1,246.00		050374		1,246.00
00115 I-9754044940	GRAINGER, INC Overshoes - LCRA	R	7/12/2023	189.84		050375		189.84
02217 I-50160 I-50961	Greg Rents Pickup Rental - FEMA 902 Propane - Unit 287	R R	7/12/2023 7/12/2023	1,373.87 66.69		050376 050376		1,440.56
04022 I-202777	Hammer, Jewell & Associates Ventura-SB Row Srvs - ENG	R	7/12/2023	3,612.09		050377		3,612.09
00369 C-013C8589 I-013C8475 I-013C8614 I-013C8615	HARRINGTON INDUSTRIAL PLASTICS External Fill Pipe Assy Return Fittings & Parts - TP Elbow FPT PVC - TP Fittings - TP	R R R R	7/12/2023 7/12/2023 7/12/2023 7/12/2023	710.52CR 2,781.92 43.00 710.52		050378 050378 050378 050378		2,824.92
06104 I-22665	Ins'tent Industries DBA Citabr Canopy - PR	R	7/12/2023	3,444.02		050379		3,444.02

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09910	J.W. ENTERPRISES							
I-367199	CT Pumping - 4M PP	R	7/12/2023	80.75		050380		
I-367200	CT Pumping - GRAND AVE.	R	7/12/2023	80.75		050380		
I-367201	CT Pumping - SA PLANT	R	7/12/2023	161.50		050380		
I-367202	CT Pumping - 3M PUMP	R	7/12/2023	80.75		050380		
I-367203	CT Pumping - FAIRVIEW RES.	R	7/12/2023	80.75		050380		
I-367204	CT Pumping - CASITAS DAM	R	7/12/2023	80.75		050380		
I-367205	CT Pumping - BATES RES.	R	7/12/2023	80.75		050380		646.00
02344	Janitek Cleaning Solutions							
I-49995A	Janitorial Service - DO	R	7/12/2023	2,630.78		050381		2,630.78
00667	Kennedy/Jenks Consultants, Inc							
I-164660	Grant Support - Ven-SB Interti	R	7/12/2023	585.00		050382		585.00
00759	LAFCO							
I-062823	Apportionment of Net Costs	R	7/12/2023	19,222.00		050383		19,222.00
05449	Matheson Tri-Gas, Inc.							
I-0028032579	Liquid Oxigen - TP	R	7/12/2023	20,614.28		050384		20,614.28
00329	MCMMASTER-CARR SUPPLY CO.							
I-99754938	Wire Rope & Carbon Steel Machi	R	7/12/2023	212.07		050385		212.07
00151	MEINERS OAKS ACE HARDWARE							
I-046124	Sprypnt & Hinge Narrow - PL	R	7/12/2023	48.16		050386		
I-047192	Knife & Wire Brush - UT	R	7/12/2023	83.63		050386		
I-047960	Hose & Hand Weeder - PL	R	7/12/2023	33.15		050386		
I-048089	Line Triner - LCRA	R	7/12/2023	92.96		050386		
I-048112	Tape & Pliers - UT	R	7/12/2023	56.74		050386		
I-048541	Trash Can & Gloves - UT	R	7/12/2023	97.67		050386		
I-048562	Trash Bags & Trash Can - UT	R	7/12/2023	53.17		050386		
I-048690	Rope Brad Poly - LCRA	R	7/12/2023	15.60		050386		
I-048841	Gloves & Floor Cleaner - UT	R	7/12/2023	78.78		050386		559.86
03444	Mission Linen Supply							
I-519593075	Uniform Pants - PL	R	7/12/2023	42.89		050387		
I-519593076	Uniform Pants - MAINT	R	7/12/2023	26.26		050387		
I-519593079	Uniform Pants - TP	R	7/12/2023	57.52		050387		126.67
03969	NEOGOV							
I-INV-34633	NEOGOV Subscription 23-24	R	7/12/2023	6,818.55		050388		6,818.55

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02844	Neptune Benson APU Grating - WP	R	7/12/2023	5,190.98		050389		5,190.98
05977	ODP Business Solutions, LLC Envelope - ADMIN	R	7/12/2023	8.57		050390		8.57
01570	Ojai Auto Supply Battery - Unit 39	R	7/12/2023	134.19		050391		
	I-572146 DMD Trg SP FMLACA - LCRA	R	7/12/2023	185.57		050391		
	I-572199 Refrigerant - Unit 39	R	7/12/2023	64.05		050391		
	I-572200 Refrigerant - Unit 39	R	7/12/2023	97.20		050391		481.01
05953	Ojai Bungalows, LP Entry Agreement	R	7/12/2023	9,999.00		050392		9,999.00
00347	Ojai Recreation Department Ojai Day - PR	R	7/12/2023	90.00		050393		90.00
00168	OJAI VALLEY NEWS Public Notice - LAB	R	7/12/2023	32.50		050394		32.50
00169	OJAI VALLEY SANITARY DISTRICT Cust #20594	R	7/12/2023	295.60		050395		295.60
00169	OJAI VALLEY SANITARY DISTRICT Cust #52921	R	7/12/2023	59.12		050396		59.12
01627	OSCAR'S TREE SERVICE Pine Branch Removal - LCRA	R	7/12/2023	1,500.00		050397		1,500.00
02495	Pacific Marine Repair Inc. Cortez Repairs - LCRA	R	7/12/2023	6,913.59		050398		6,913.59
06119	Pagefreezer Software Inc Social Media Archiving - PR	R	7/12/2023	3,838.00		050399		3,838.00
06121	Norman Plott Irrigation Controller Rebate	R	7/12/2023	196.99		050400		196.99
05713	Pops Auto Repair Remove Logo - Units 22, 24,43,	R	7/12/2023	450.00		050401		450.00
00184	POWERSTRIDE BATTERY CO, INC Battery - Unit 53	R	7/12/2023	133.47		050402		133.47

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00790	PROFORMA							
I-BI85009677A	Chartt SS Pocket T-Shirt - PL	R	7/12/2023	1,328.24		050403		
I-BI85010091A	Uniforms - MAINT	R	7/12/2023	686.74		050403		
I-BI85010125A	Uniform Shirts - IT	R	7/12/2023	499.44		050403		
I-BI85010161A	Uniforms Shirts - EM	R	7/12/2023	323.12		050403		
I-BI85010162A	Work Shirts - PL	R	7/12/2023	1,163.27		050403		4,000.81
05911	Provost & Pritchard Consulting							
I-101292	Rincon Backcontry Road	R	7/12/2023	3,052.90		050404		
I-101873	Rincon Backcountry Road	R	7/12/2023	2,155.60		050404		5,208.50
10042	PSR ENVIRONMENTAL SERVICE, INC							
I-11332	Gas Tank Inspection - DO	R	7/12/2023	230.00		050405		
I-11333	Gas Tank Inspection - LCRA	R	7/12/2023	230.00		050405		460.00
00306	Rincon Consultants, Inc.							
I-49202	Env Support - Timber Cutoff	R	7/12/2023	18,488.25		050406		
I-49206	Env Support Robles Screenbay	R	7/12/2023	7,050.79		050406		
I-49209	Robles Emergency Permits	R	7/12/2023	54,512.14		050406		
I-49255	Ojai Ave Pipe Environ Support	R	7/12/2023	4,929.20		050406		84,980.38
04633	SafeVision							
I-02452595	Safety Glasses - EM	R	7/12/2023	144.79		050407		144.79
01107	SAWYER PETROLEUM							
I-S147742	Diesel - January Storm	R	7/12/2023	1,815.87		050408		
I-S147845	Diesel - LCRA	R	7/12/2023	2,404.98		050408		
I-S147846	Gas - LCRA	R	7/12/2023	1,876.00		050408		6,096.85
02756	SC Fuels							
I-2418170-IN	Gas & Diesel - DO	R	7/12/2023	7,716.46		050409		7,716.46
06067	Scceswest, Inc							
I-0616202306302023	Backcountry Road FEMA 931	R	7/12/2023	50,952.00		050410		50,952.00
02951	Sea-Bird Electronics, Inc.							
I-4034132	Service Seabird SBE 19 Plus V2	R	7/12/2023	1,408.00		050411		1,408.00
06120	Kyler Soholt							
I-071023a	Training Hours - WP	R	7/12/2023	734.00		050412		
I-071023b	Reimbursement for Red Cross Ce	R	7/12/2023	60.00		050412		794.00
00215	SOUTHERN CALIFORNIA EDISON							
I-070323a	Acct#70009638309	R	7/12/2023	21.17		050413		
I-070323b	Acct#700029026585	R	7/12/2023	2,657.33		050413		
I-070323c	Acct#700028645962	R	7/12/2023	77,393.25		050413		
I-070723	Acct#700598317666	R	7/12/2023	39.62		050413		80,111.37

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
01392	SOUTHWEST VALVE & EQUIPMENT							
I-9584 REV	Singer Valve Parts - PL	R	7/12/2023	8,151.99		050414		8,151.99
00048	STATE OF CALIFORNIA							
I-070523	State Water Plan Payment	R	7/12/2023	408,449.00		050415		408,449.00
09465	TRAVIS AGRICULTURAL CONSTRUCTI							
I-21964111	Mutual Well 7 Equip Contract	R	7/12/2023	16,097.04		050416		16,097.04
00225	UNDERGROUND SERVICE ALERT							
I-22-2304448	Regulatory Costs - ENG	R	7/12/2023	86.76		050417		
I-620230101	CAS01 New Ticket Charges	R	7/12/2023	318.00		050417		404.76
00825	USA BLUEBOOK							
C-SCN002091	Attest Biological Indicators R	R	7/12/2023	170.53CR		050418		
I-348177	Water Purification System -LAB	R	7/12/2023	7,466.32		050418		
I-INV00016230	Marking Whiskers - ENG	R	7/12/2023	38.74		050418		
I-INV00017759	Cleaning Syringe - LAB	R	7/12/2023	65.41		050418		
I-INV00023223	Serological Pipet & Biological	R	7/12/2023	565.63		050418		
I-INV00036834	Dickies Flex Dck Carpert - LAB	R	7/12/2023	65.47		050418		
I-INV00045401	Gloves & Autoclave Thermometer	R	7/12/2023	280.92		050418		
I-INV00053634	Aluminum Dechlor Diffuser -LAB	R	7/12/2023	4,505.88		050418		12,817.84
00238	Ventura County Special Distric							
I-2023/2024 Casitas	Annual Member Dues 23-24	R	7/12/2023	150.00		050419		150.00
00251	VENTURA COUNTY STAR							
I-0005704257	Notice of Public Hearing-MGMT	R	7/12/2023	382.23		050420		382.23
00258	VENTURA STEEL, INC							
I-287703	4X4X 120 H.S.T. 20" - PL	R	7/12/2023	396.83		050421		396.83
00241	VENTURA TROPHY COMPANY							
I-68223	Red Anod Alum - LCRA	R	7/12/2023	12.93		050422		12.93
00247	County of Ventura							
I-357756	Encroachment Permit PE23-0517	R	7/12/2023	390.00		050423		
I-358280	Encroachment Permit PE22-1308-	R	7/12/2023	180.00		050423		
I-358640	Encroachment Permit PE23-0555	R	7/12/2023	390.00		050423		
I-358653	Encroachment Permit PE22-1344-	R	7/12/2023	180.00		050423		
I-358749	Encroachment Permit PE23-0556	R	7/12/2023	390.00		050423		
I-358750	Encroachment Permit PE23-0557	R	7/12/2023	390.00		050423		1,920.00

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00248	COUNTY OF VENTURA Backflow Prevention Program	R	7/12/2023	15,734.80		050424		15,734.80
03758	County of Ventura - Fleet Serv Fleet Service - Unit 88	R	7/12/2023	3,200.54		050425		3,200.54
01283	Verizon Wireless Monthly Cell Charges - DO	R	7/12/2023	3,435.78		050426		
	I-9938782467 Monthly Cell Charges - LCRA	R	7/12/2023	441.98		050426		3,877.76
02854	Water Works Engineers, LLC W&EOjai Ave Pipeline Replaceme	R	7/12/2023	7,518.01		050427		
	I-14034 Ven-SB Intertie - ENG	R	7/12/2023	32,742.55		050427		
	I-14036 Ven-SB Conties Design - ENG	R	7/12/2023	51,960.20		050427		92,220.76
00663	WAXIE SANITARY SUPPLY Janitorial Supplies - LCRA	R	7/12/2023	2,839.30		050428		2,839.30
00330	WHITE CAP CONSTRUCTION SUPPLY Shovel & Gloves - PL	R	7/12/2023	553.22		050429		553.22
04582	Yeh and Associates, Inc Material Testing Ojai Ave Pipe	R	7/12/2023	11,761.30		050430		11,761.30
06056	Ameriflex FSA Deduction	R	7/12/2023	1,199.98		050431		1,199.98
00124	ICMA RETIREMENT TRUST - 457 DEFERRED COMP FLAT	R	7/12/2023	2,165.83		050432		
	I-DCI202307102214 DEFERRED COMP PERCENT	R	7/12/2023	135.31		050432		2,301.14
00985	NATIONWIDE RETIREMENT SOLUTION 457 CATCH UP	R	7/12/2023	1,184.90		050433		
	I-CUN202307102214 DEFERRED COMP FLAT	R	7/12/2023	7,592.91		050433		
	I-DN%202307102214 DEFERRED COMP PERCENT	R	7/12/2023	503.87		050433		9,281.68
00774	Ventura County Sheriff's Offic Payroll Deduction	R	7/12/2023	586.24		050434		586.24
03702	Cannon Corporation Robles Forbay Cleanout Design	R	7/14/2023	1,919.50		050435		1,919.50
02297	AAA AWNINGS INC. Mutual 7 Awing - ENG	R	7/19/2023	17,000.00		050436		17,000.00

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
02731	AED Superstore/Annuvia							
I-INV3209177	PM-Electrode Adul Catridge	R	7/19/2023	91.11		050437		91.11
01325	Aflac Worldwide Headquarters							
I-469864	Supplemental Insurance 08/23	R	7/19/2023	3,075.40		050438		3,075.40
00010	AIRGAS USA LLC							
I-5500653592	Gas Cylinder Rental - PL	R	7/19/2023	431.35		050439		
I-9139859376	Protective Cover for Utilities	R	7/19/2023	337.26		050439		768.61
03044	Amazon Capital Services							
I-11DQ-L7JK-VVFT	Camera & Smart TV - PR	R	7/19/2023	1,355.15		050440		
I-141P-GXNF-4M43	Channellock Pliers - IT	R	7/19/2023	30.57		050440		
I-1G3R-QJMF-4DF9	Veridesk and Monitor - ENG	R	7/19/2023	806.81		050440		
I-1J3L-3MNQ-LKHT	Pens - LAB	R	7/19/2023	8.56		050440		
I-1NRP-3LXN-XXDP	Batteries & Clipboard - LAB	R	7/19/2023	78.84		050440		
I-1PKG-V9RW-3HTJ	Wireless Bluetooth Earbuds- IT	R	7/19/2023	90.62		050440		
I-1PKG-V9RW-9CFC	Monitor - SAFE	R	7/19/2023	380.36		050440		2,750.91
00014	AQUA-FLO SUPPLY							
I-SI2145344	Brass Nipple & Ball Valve - UT	R	7/19/2023	265.74		050441		265.74
01666	AT & T							
I-000019771787	Local, Reginoal, long Distance	R	7/19/2023	314.35		050442		
I-000019946101	Local, Regional Long, Distance	R	7/19/2023	567.49		050442		
I-000020067899	Local, Regional, Long Distance	R	7/19/2023	648.96		050442		
I-000020214690	Local, Reginal, Long Distannce	R	7/19/2023	647.57		050442		2,178.37
03429	AT&T							
I-9460340808	Acct#8310011246015	R	7/19/2023	2,210.40		050443		2,210.40
00679	BAKERSFIELD PIPE & SUPPLY INC							
I-S3044819.001	SS THD Union & Nipple - UT	R	7/19/2023	198.26		050444		198.26
06090	Bartle Wells Associates							
I-196I-1002	Water Rate Study - ADM	R	7/19/2023	33,166.00		050445		33,166.00
00036	BC TREE SERVICE, INC							
I-4170	Weed Abatement Canal	R	7/19/2023	3,800.00		050446		3,800.00
03207	BMI PacWest Inc.							
I-20672	AC Repair Hoist House 05/30	R	7/19/2023	910.03		050447		910.03

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00756 I-063023	BOARD OF EQUALIZATION Use Tax Return 15300115	R	7/19/2023	1,497.00		050448		1,497.00
03059 I-BPI355040	Brenntag Pacific Inc. Sodium Bisulfate - TP	R	7/19/2023	733.87		050449		733.87
09182 I-100000017214387	CalPERS Unfunded Accrued Liab 07/23	R	7/19/2023	68,078.75		050450		68,078.75
00055 I-001647	CASITAS BOAT RENTALS Pontoon Rentals - LAB	R	7/19/2023	750.00		050451		750.00
05756 I-230621-3924	Cel Analytical Inc Cryptosporidium Oocyte Filtrat	R	7/19/2023	450.00		050452		450.00
00511 I-113510	Centers for Family Health Drug Screening - UT/WP	R	7/19/2023	200.00		050453		200.00
03021 I-000029-540-181	Central Communications Call Center 06/23	R	7/19/2023	263.36		050454		263.36
02100 I-6519	Clean Lakes, Inc. Pest Control - LAB	R	7/19/2023	220.00		050455		220.00
00719 I-82180416	CORELOGIC INFORMATION SOLUTION Realquest Subscription	R	7/19/2023	137.50		050456		137.50
00076 I-7307-3	DEKREEK TECHNICAL SERVICES SCADA Mods - TP	R	7/19/2023	14,314.00		050457		14,314.00
02765 I-23926	Demaria Electric Motor Service 75 HP Electric Motor - EM	R	7/19/2023	15,898.74		050458		15,898.74
02544 I-668679	Department of Justice Fingerprinting - ENG/LCRA	R	7/19/2023	224.00		050459		224.00
06076 I-8567	Dodos Design Tshirt/Printing - PL	R	7/19/2023	2,650.00		050460		2,650.00
00086 I-1466	E.J. Harrison & Sons Inc Acct#1C00054230	R	7/19/2023	5,267.62		050461		5,267.62
00086 I-5431a	E.J. Harrison & Sons Inc Acct#1C00054240	R	7/19/2023	468.53		050462		468.53

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00086	E.J. Harrison & Sons Inc							
I-738	Acct#500766090	R	7/19/2023	101.93		050463		101.93
06058	EasyWorkforce Software LLC							
I-EW174351	Time Clock - WP	R	7/19/2023	1,158.59		050464		1,158.59
06108	EMCOR Service Mesa Energy							
I-911009581	AC Service Rincon PP, Fairview	R	7/19/2023	1,659.00		050465		
I-911009657	A/C Unit Repairs, Mutual 6- PL	R	7/19/2023	2,502.50		050465		4,161.50
05937	Enterprise FM Trust							
I-FBN4777682a	Vehicle Maintenance	R	7/19/2023	6,375.00		050466		
I-FBN4777682b	Vehicle Maintenance	R	7/19/2023	9,518.28		050466		15,893.28
00095	FAMCON PIPE & SUPPLY							
I-S100103247.002	Vakve Fkg x Flg Muller - PL	R	7/19/2023	5,194.12		050467		
I-S100105834.001	Shovel & Manhole Hook - UT	R	7/19/2023	91.70		050467		
I-S100105879.001	Adapters & Meg-Lug - PL	R	7/19/2023	2,157.76		050467		
I-S100106378.001	Box Valve - PL	R	7/19/2023	2,380.95		050467		9,824.53
00013	FERGUSON ENTERPRISES INC							
I-0013277	Gasket - PL	R	7/19/2023	77.84		050468		77.84
00099	FGL ENVIRONMENTAL							
I-309914A	Nitrate Monitoring 06/13/23	R	7/19/2023	64.00		050469		
I-310435A	Nitrate Monitoring - 06/20/23	R	7/19/2023	64.00		050469		
I-310981A	Nitrate Monitoring - 06/27/23	R	7/19/2023	64.00		050469		192.00
05962	First on Scene Training LLC							
I-91447-A	Rigging & Hand Signals Course	R	7/19/2023	1,125.00		050470		1,125.00
00101	FISHER SCIENTIFIC							
I-4363895	Test Tubs - LAB	R	7/19/2023	104.45		050471		
I-4363896	Disinfectant - LAB	R	7/19/2023	186.98		050471		
I-4397740	Powder Dechlor - LAB	R	7/19/2023	172.16		050471		
I-4435539	MacCkonkey Plate - LAB	R	7/19/2023	38.71		050471		
I-4515798	Lab Materials	R	7/19/2023	118.95		050471		621.25
00115	GRAINGER, INC							
I-9760701277	Eyewash Dust Cup - TP	R	7/19/2023	73.39		050472		
I-9770388040	Wire Rope Lubricant TP -	R	7/19/2023	381.14		050472		
I-9770396480	Test-Tite Test Plug - TP	R	7/19/2023	111.86		050472		
I-9771024446	Single Drump Spill Container	R	7/19/2023	235.65		050472		802.04

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
00369	HARRINGTON INDUSTRIAL PLASTICS I-013C8739 Tubing for CI2 Injection - TP	R	7/19/2023	289.84		050473		289.84
05746	Hasa Inc. I-8990022 Chlorine for Ojai Sys - TP I-900963 Chlorine for Ojai Sys - TP	R	7/19/2023	4,360.14		050474		5,395.80
00596	HOME DEPOT I-2585563 Truck Winch - LCRA	R	7/19/2023	353.91		050475		353.91
00894	HOSE-MAN, INC. I-5304301-0001-05 Highline Parts - UT	R	7/19/2023	726.94		050476		726.94
05884	Ibis Scientific, LLC I-IN062701 10ml Pipette - LAB	R	7/19/2023	235.76		050477		235.76
00127	INDUSTRIAL BOLT & SUPPLY I-244313-1 Nuts & Bolts - PL	R	7/19/2023	194.42		050478		194.42
06126	Charlotte Key I-1252713 Camping Cancelation- LCRA	R	7/19/2023	122.00		050479		122.00
06051	KS StateBank I-60949-9-2023 Dump Truck - GARAGE	R	7/19/2023	14,098.13		050480		14,098.13
06122	LeaseQuery LLC I-INV7795 LeaseQuery 12 Month Subscripti	R	7/19/2023	7,620.00		050481		7,620.00
03581	Legend Pump & Well Service Inc I-57897 Vibration Test - TP	R	7/19/2023	1,664.00		050482		1,664.00
06066	Loomis I-13280790 Armored Truck Service - LCRA	R	7/19/2023	279.60		050483		279.60
00151	MEINERS OAKS ACE HARDWARE I-049160 Toilet Seat - LCRA I-049256 Superzilla Oil & Conduit PVC I-049354 Ball Valve & Torch Kit - UT I-049406 Bolts & Screws - MAINT I-049415 Batteries & Padlock - UT I-049440 Nozzle Gun, Twist & Brass - TP I-049471 Deep Woods - UT I-049480 Hammer Sledger - UT I-049585 Padlock Comb & Straw Hat - UT	R	7/19/2023	64.38		050484		521.44

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
03444	Mission Linen Supply							
I-519636700	Union Parts Rental - PL	R	7/19/2023	42.89		050485		
I-519636701	Uniform Rental - MAINT	R	7/19/2023	26.26		050485		
I-519636704	Uniform Pants Rental - TP	R	7/19/2023	57.52		050485		126.67
03701	MNS Engineers, Inc.							
I-83726	Ventura River Hydrology Study	R	7/19/2023	9,441.50		050486		
I-83788	Emergency Matilija Conduit	R	7/19/2023	1,409.73		050486		10,851.23
01882	OJAI BASIN GROUNDWATER							
I-063023	Quarterly Pumping Fee	R	7/19/2023	21,403.80		050487		21,403.80
00947	CITY OF OJAI							
I-10010	Encroachment Permits - ENG	R	7/19/2023	3,416.00		050488		3,416.00
00383	ON DUTY UNIFORMS INC.							
I-398	Uniform for Ranger - LCRA	R	7/19/2023	451.43		050489		451.43
02053	Photo-Scan of Los Angeles, Inc							
I-31775	Door Repair - IT	R	7/19/2023	371.25		050490		
I-31776	Door Repair - IT	R	7/19/2023	337.50		050490		708.75
06125	Hector Pillado							
I-1268099	Camping Cancellation - LCRA	R	7/19/2023	62.00		050491		62.00
00788	QUINN COMPANY							
I-24188205	Rent Wheel Loader - 931	R	7/19/2023	8,275.51		050492		8,275.51
01240	SENSUS USA							
I-ZA23012600	Sensus Support 9/27/23-9/26/24	R	7/19/2023	1,949.94		050493		1,949.94
03669	Sierra Traffic Service, Inc.							
I-43041	Traffic Control 7/10/23	R	7/19/2023	2,116.05		050494		
I-43052	03669	R	7/19/2023	2,014.40		050494		4,130.45
06124	Jose Soto							
I-1272453	Camping Cancelation - LCRA	R	7/19/2023	86.00		050495		86.00
00215	SOUTHERN CALIFORNIA EDISON							
I-070723b	Acct#700030209177	R	7/19/2023	19,397.52		050496		
I-071123	Acct#700028645962	R	7/19/2023	6,357.77		050496		25,755.29
01392	SOUTHWEST VALVE & EQUIPMENT							
I-9891	Lower ClampPlate - TP	R	7/19/2023	2,898.18		050497		2,898.18

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
06091	RedNova Labs, Inc.							
I-724938	StoreEDGE FMS/Website Pro	R	7/19/2023	337.50		050498		337.50
00364	TRI-COUNTY OFFICE FURNITURE							
I-159586	Office Desk - PR	R	7/19/2023	1,447.44		050499		1,447.44
00825	USA BLUEBOOK							
I-INV00006857	Conductivity Probe -LAB	R	7/19/2023	659.59		050500		
I-INV00065994	1000 US/cm cond std.- LAB	R	7/19/2023	97.81		050500		
I-INV00068717	DR900 & Ammonia Chem Key - TP	R	7/19/2023	8,355.36		050500		9,112.76
02666	Ventura County Resource Conser							
I-070123	Watershed Coorninator 23-24	R	7/19/2023	1,406.00		050501		1,406.00
09955	VENTURA WHOLESALE ELECTRIC							
I-296777	West C1-EHL -54W - LCRA	R	7/19/2023	560.30		050502		560.30
02854	Water Works Engineers, LLC							
I-14067	Ven-SB Counties Design - ENG	R	7/19/2023	34,974.50		050503		34,974.50
00663	WAXIE SANITARY SUPPLY							
I-81760618	Janitorial Supplies - LCRA	R	7/19/2023	3,765.65		050504		
I-81834731	Jumbo Roll Tissue - LCRA	R	7/19/2023	462.35		050504		
I-81837857	Janitorial Supplies - DO	R	7/19/2023	1,623.42		050504		5,851.42
06092	Westech Riggings Supply							
I-116719	Dynamometer - PL	R	7/19/2023	11,683.82		050505		11,683.82
00826	STAN WHISENHUNT DBA							
I-6535	Water Quality Report - PR	R	7/19/2023	750.00		050506		750.00

* * T O T A L S * *	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	162	1,562,658.89	0.00	1,562,658.89
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	12	377,796.42	0.00	377,796.42
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	0	VOID DEBITS	0.00	
		VOID CREDITS	0.00	0.00

TOTAL ERRORS: 0

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
			NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT		
VENDOR SET: 01	BANK: AP	TOTALS:	174	1,940,455.31	0.00	1,940,455.31		
BANK: AP	TOTALS:	174	1,940,455.31	0.00	1,940,455.31			
REPORT TOTALS:		174	1,940,455.31	0.00	1,940,455.31			

Adjudication Charge Fund Account

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

Adj. Checks: No checks were cut for this period.

Adj. Draft

Voids:



Janyne Brown , Chief Financial Officer

Minutes of the Casitas Municipal Water District
Board Meeting held
July 12, 2023

1. CALL TO ORDER

President Hajas called the meeting to order at 5:00 p.m.

2. ROLL CALL

Directors Cole, Bergen, Kaiser and Hajas are present. Director Brennan is absent. Also present are GM Flood, AGM Dyer, EA Vieira and Counsel McNulty.

3. PLEDGE OF ALLEGIANCE

President Hajas led the Pledge of Allegiance.

4. AGENDA CONFIRMATION

The agenda was confirmed as submitted.

5. PUBLIC COMMENTS - Presentation on District related items that are not on the agenda - three minute limit.

None

6. CONSENT AGENDA

6.a. Accounts Payable Report.
[Accounts Payable Report.pdf](#)

6.b. Minutes of the June 28, 2023 Board Meeting.
[6 28 2023 Minutes.pdf](#)

The consent agenda was offered by Director Cole, seconded by Director Bergen, and adopted by the following roll call vote:

AYES:	Directors:	Cole, Bergen, Kaiser, Hajas
NOES:	Directors:	None
ABSENT:	Directors:	Brennan

7. ACTION ITEMS

7.a. Approve a budget of \$30,000 for the Rincon Main Erosion Repair Alternative Assessment, Authorize the General Manager to issue a Task Order to MNS Engineers (MNS) for engineering services in the amount of \$20,645 and to issue a Task Order to Catalyst Environmental Solutions for Environmental Permitting and Planning Evaluation for Rincon Main Erosion Repair Alternative Assessment in the

amount of \$3,500.

[Rincon Repair_Board Memo 20230712 \(1\).pdf](#)

[Rincon Main Erosion Repair Proposal \(1\).pdf](#)

[CES-Proposal for Env Permitting and Planning Support-05.08.23 \(1\).pdf](#)

On the motion of Director Kaiser, seconded by Director Cole, the above recommendation was approved by the following roll call vote:

AYES: Directors: Cole, Bergen, Kaiser, Hajas

NOES: Directors: None

ABSENT: Directors: Brennan

- 7.b. Award a contract for cleaning of filter #2 media at the Marion Walker Water Treatment Plant in the amount of \$66,161.70 to ERS Industrial Services.
[Board Memo - Filter #2 Media Cleaning 071223.pdf](#)

On the motion of Director Cole, seconded by Director Bergen, the above recommendation was approved by the following roll call vote:

AYES: Directors: Cole, Bergen, Kaiser, Hajas

NOES: Directors: None

ABSENT: Directors: Brennan

8. INFORMATION ITEMS

- 8.a. State Water Project Intertie Report.
[SWP Intertie Project Cost 6-30-23.pdf](#)
- 8.b. CFD 2013 Report.
[CFD 2013-1 Project Cost 6-30-2023.pdf](#)
- 8.c. Investment Report.
[Investment Report 6.30.23.pdf](#)
- 8.d. Adjudication Charges Report.
[Adjudication Charges YTD 6.30.23.pdf](#)
- 8.e. Consumption Report May 2023.
[Consumption 2022-2023.pdf](#)
- 8.f. Financials April 2023 and Non Budgeted Items.
[Financial Statements 04-30-2023 Summary.pdf](#)

Information items were received.

9. GENERAL MANAGER COMMENTS

GM Flood reported on a shutdown on Foothill tomorrow from 8-12. He also reported that

the FEMA request backup deadline is Friday. We are asking for \$2.1 million reimbursement and hope that have that by December.

At beginning of June we had a company come out to dive tanks and do inspections. Many of the coatings over the last 20 years are on a 15-20 year timeline. We will talk to finance and come back to the board with projects.

10. BOARD OF DIRECTOR REPORTS ON MEETINGS ATTENDED

President Hajas attended a meeting for OBGMA with Ojai Valley Land Conservancy.

11. BOARD OF DIRECTOR COMMENTS PER GOVERNMENT CODE SECTION 54954.2(a).

Director Kaiser thanked everyone who sent get well wishes.

12. ADJOURNMENT

- 12.a. Adjournment in Memory of our Dear Colleague and Friend John M. Mathews.
[Memoriam - John Mathews.pdf](#)

President Hajas adjourned the meeting at 5:08 p.m. in memory of John Mathews.

Mary Bergen, Secretary

**CASITAS MUNICIPAL WATER DISTRICT
MEMORANDUM**

TO: BOARD OF DIRECTORS
FROM: MICHAEL FLOOD, GENERAL MANAGER
SUBJECT: DISCUSSION AND POSSIBLE ACTION ON CASITAS MWD'S DRAFT 2023 WATER RATE STUDY
DATE: 07/21/2023

RECOMMENDATION:

That the Board:

- A. Set a Public Hearing on October 11, 2023 at 5:00 PM located at the Casitas MWD Board Room for the Board to consider adoption of the proposed water rates.
- B. Direct staff to release the Notice of Public Hearing to customers and property owners, informing them of the hearing date and proposed water rate changes.

BACKGROUND:

On April 12, 2023, the Board authorized a contract with Bartle Wells Associates to conduct a Cost of Service and Rate Design Study (Rate Study) to inform water rates for the next five years. The previous water rate study was conducted in 2017.

The scope of the Rate Study included updating the 10-year financial plan and developing a rate structure sufficient to generate revenues needed to cover the cost of service and maintain the District's financial reserves to policy levels.

The Water Rates Ad-Hoc Committee reviewed the proposed rates on May 26 and June 1.

The Board of Directors received a presentation on the proposed water rates on June 14.

On June 14, the Board directed staff to proceed with public notice of a proposed implementation schedule water rate increases effective September 1, 2023, followed by annual increases on January 1 of the years 2024 through 2028, subject to final approval of the Board at a formal public hearing regarding the water rate increases.

Subsequently, the Board requested to review the draft rate study report prior to scheduling a public hearing. The draft rate study report was posted to the District website on July 7, 2023 and is provided as Attachment 1.

Pursuant to State law established by Proposition 218, property owners must be notified of any proposed increases to rates at least 45 days prior to the date of the public hearing for the District to consider the rate increases. Property owners may protest the proposed increase.

Staff is recommending the Board schedule a public hearing for the proposed water rates on October 11, 2023. In preparation for the public hearing, staff is recommending Board direction to mail the Proposition 218 rate notices to the billing address, as well as the service address where they are different, during the week of August 14, 2023.

The draft water rates study was prepared with the first implementation of rate changes on September 1, 2023, followed by annual increases on January 1 of the years 2024 through 2028. Given a public hearing date on October 11, 2023, staff is recommending the first implementation of rate changes occur effective January 1, 2024. The draft rate notice is provided in Attachment 2, reflecting the proposed water rates in the draft water rate study beginning January 1, 2024.

FINANCIAL IMPACT:

The proposed rates are based on projected revenue needs to fund operation and maintenance costs, debt, capital improvements, and financial reserves over the next 5 years.

Pending Board direction, the new rates are proposed to take effect with a January 1, 2024 effective date. The estimated revenue loss for delaying the effective date from September 1, 2023 to January 1, 2024 is approximately \$500K. Staff evaluated cash flow and delayed expenses, where possible, to adjust with the schedule. A monthly evaluation of budgeted compared with actual expenses, revenues, and use of reserves is provided to the Finance Committee.

Attachments:

1. Draft Water Rate Study Report prepared by Bartle Wells
2. Draft Proposition 218 Water Rate Notice



Casitas Municipal Water District



Water Rate Study

July 2023

DRAFT



BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS

Casitas Municipal Water District

Water Rate Study

July 2023

Prepared by:



Bartle Wells Associates
2625 Alcatraz Ave, #602
Berkeley, CA 94705
Tel: 510.653.3399
www.bartlewells.com



July 7, 2023

Michael Flood
General Manager
Casitas Municipal Water District
1055 Ventura Avenue
Oak View, Ca. 93022

RE: Casitas Municipal Water District Water Rate Study

Bartle Wells Associates is pleased to submit the attached Water Rate Study. The study develops long-term financial projections and calculates new water rates designed to equitably recover the costs of providing service. The recommended rates are designed to meet the District's operational and capital funding needs, comply with legal requirements, and be fair to all customers.

The proposed rates incorporate both overall rate increases needed to maintain the water enterprise's financial stability and meet future funding needs. Six rate increases are phased in over five years, with the first increase by September 1st, 2023, and consistent annual increases each January 1st thereafter. The proposed rates are adequate to meet a delayed first increase on October 1st, 2023.

We enjoyed working with the District on this assignment and appreciate the ongoing assistance and input received throughout the project. Please contact us anytime if you have questions about the recommendations in this report or other related issues.

Sincerely,

BARTLE WELLS ASSOCIATES

Douglas Dove, PE, CIPFA
Principal/President

Michael DeGroot
Vice President

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Table 15 – Meter Rates Calculation

Table 16 – Proposed Water Rates – Year 5

Table 17 – Proposed Water Rates Phase In Schedule

1. Executive Summary

Purpose

Casitas Municipal Water District (“The District”) retained Bartle Wells Associates (“BWA”) to develop a financial plan and cost of service study for the District’s water rates to ensure financial stability over the next five years (FY 2023/24 to FY 2027/28).

The District provides water treatment and distribution services to western Ventura County including the City of Ojai, Upper Ojai, the Ventura River Valley area, the City of Ventura to Mills Road, and the beach communities of Solimar, La Conchita, and Rincon to the Santa Barbara County line. The District also operates the Lake Casitas Recreation Area, although the costs of providing recreation services are not included in this water rate study.

Proposition 218

Proposition 218, the “Right to Vote on Taxes Act”, was approved by California voters in November 1996 and is codified as Articles XIIC and XIID of the California Constitution. Proposition 218 establishes requirements for imposing any new or increasing any existing property-related fees and charges.

The District must follow the procedural requirements of Proposition 218 for all water rate increases. These requirements include:

- 1. Noticing Requirement:** The District must mail a notice of the proposed rate increases to all affected property owners. The notice must specify the amount of the fee, the basis upon which it was calculated, the reason for the fee, and the date/time/location of a public rate hearing at which the proposed rates will be considered/adopted.
- 2. Public Hearing:** The District must hold a public hearing prior to adopting the proposed rate increases. The hearing must be held not less than 45 days after the required notices are mailed.
- 3. Rate Increases Subject to Majority Protest:** At the public hearing, the proposed rate increases are subject to majority protest. If more than 50% of affected property owners submit written protests against the proposed rate increases, the increases cannot be adopted.

Proposition 218 also established several substantive requirements that apply to water rates and charges, including:

- 1. Cost of Service:** Revenues derived from the fee or charge cannot exceed the funds required to provide the service. In essence, fees cannot exceed the “cost of service.” Agencies may carry a prudent level of reserves and save cash for future projects or emergencies.
- 2. Intended Purpose:** Revenues derived from the fee or charge can only be used for the purpose for which the fee was imposed.

- 3. Proportional Cost Recovery:** The amount of the fee or charge levied on any customer shall not exceed the proportional cost of service attributable to that customer.
- 4. Availability of Service:** No fee or charge may be imposed for a service unless that service is used by, or immediately available to, the owner of the property.
- 5. General Government Services:** No fee or charge may be imposed for general governmental services where the service is available to the public at large.

Charges for water, wastewater, and refuse collection are exempt from additional voting requirements of Proposition 218, provided the charges do not exceed the cost of providing service and are adopted pursuant to procedural requirements of Proposition 218.

2. Current Water Rates

Table 1 shows a summary of the current Casitas Municipal Water District monthly water rates. The District's last water rate increase went into effect July 1, 2021. Residential and Ag Domestic are billed at a flat rate by meter size plus a volumetric rate per hundred cubic feet (hcf) based on a three tier structure. Commercial, Agriculture, Resale, and Other are also billed at a flat rate by meter size plus a uniform volumetric rate per hcf. The volumetric rate varies depending on whether the customer receives pumped water service or gravity-fed water service.

Table 1
Casitas Municipal Water District
Current Water Rates

Existing Monthly Service Charge (FY 2021/22)

Meter Size	Residential ¹	Commercial/Industrial	Agriculture	Ag Domestic ¹	Other ²	Resale
5/8"-3/4"	\$45.24	\$36.15	-	-	\$32.31	\$39.76
1"	\$75.39	\$60.22	\$68.10	\$54.71	\$53.87	\$66.27
1-1/2"	\$150.77	\$120.47	\$136.20	\$109.47	\$107.74	\$132.55
2"	\$241.25	\$192.75	\$217.93	\$175.13	\$172.38	\$212.07
3"	\$527.70	\$421.65	\$476.74	\$383.12	\$377.09	\$463.93
4"	\$949.88	\$758.96	\$858.11	\$689.61	\$678.74	\$835.07
6"	\$1,960.09	\$1,566.11	\$1,770.72	\$1,423.00	\$1,400.62	\$1,723.14
12"	-	-	-	-	-	\$10,179.86
18"	-	-	-	-	-	\$18,923.76

Existing Volumetric Rates - per HCF* (FY 2021/22)

Monthly Tiers (per HCF)	Residential ¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic ¹ Pumped	Other ² Pumped	Resale Pumped
All Use		\$2.31	\$1.71		\$2.31	\$2.31
Tier 1 (0-10)	\$1.52			\$1.52		
Tier 2 (11-50)	\$2.31			\$2.31		
Tier 3 (51+)	\$3.72			\$1.71		

Monthly Tiers (per HCF)	Residential ¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic ¹ Gravity	Other ² Gravity	Resale Gravity
All Use		\$1.56	\$0.96		\$1.56	\$1.56
Tier 1 (0-10)	\$0.77			\$0.77		
Tier 2 (11-50)	\$1.56			\$1.56		
Tier 3 (51+)	\$2.97			\$0.96		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

3. Water Financial Plan

BWA developed a 10-year financial plan for the District’s water enterprise designed to fund operating and capital needs and maintain adequate fund reserves. The financial plan serves as a roadmap for funding operating and capital programs and maintaining long-term financial health and determines the revenue requirement for the water rates.

Cash Fund Reserves

Table 2 shows the District’s current cash reserves. The District divides its cash fund balance between restricted and unrestricted accounts. The unrestricted fund balance amounts to approximately \$18 MM as of July 1st, 2022. Cash fund balances have been drawn down over time due to drought conditions.

Table 2
Casitas Municipal Water District
Cash Reserves (July 1, 2022)

Restricted	
Capital Facilities	\$322,327
CFD 2013-1 Improvement Fund	6,819,665
Adjudication Fund	127,982
<u>OPEB</u>	<u>1,443,076</u>
Total Restricted	\$8,713,050
Un-Restricted (designated funds)	
Operating Reserve	\$4,408,985
Storm Damage	2,346,282
Variation in Water Sales	3,544,353
Capital Replacement	1,985,040
Conservation Penalty	4,577,607
<u>Alternate Water Supply</u>	<u>1,107,797</u>
Total Un-Restricted (designated funds)	\$17,970,064
Total Cash Reserves	\$26,683,114

Operating Expenses

Table 3 shows the District’s projected operating expenses. The District’s operating costs are projected to increase by 5% per year for most items based on estimated cost inflation. BWA projects that the District will begin to incur operating costs for intertie wheeling in FY 2027/28. The intertie wheeling costs are estimated based on 1,500 Acre Feet (AF) of water annually at an estimated cost of \$1,700 per AF.

Category*	FY 2022/23	Escalation %	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
District Maintenance	\$677,000	5%	\$711,000	\$747,000	\$784,000	\$823,000	\$864,000	\$907,000	\$952,000	\$1,000,000	\$1,050,000	\$1,103,000
Engineering	1,436,000	5%	1,508,000	1,583,000	1,662,000	1,745,000	1,832,000	1,924,000	2,020,000	2,121,000	2,227,000	2,338,000
Garage	65,000	5%	68,000	71,000	75,000	79,000	83,000	87,000	91,000	96,000	101,000	106,000
Information Technology	428,000	5%	449,000	471,000	495,000	520,000	546,000	573,000	602,000	632,000	664,000	697,000
Board of Directors	251,000	5%	264,000	277,000	291,000	306,000	321,000	337,000	354,000	372,000	391,000	411,000
Electrical & Mechanical	3,196,000	5%	3,356,000	3,524,000	3,700,000	3,885,000	4,079,000	4,283,000	4,497,000	4,722,000	4,958,000	5,206,000
Administration	1,190,000	5%	1,250,000	1,313,000	1,379,000	1,448,000	1,520,000	1,596,000	1,676,000	1,760,000	1,848,000	1,940,000
Fisheries	624,000	5%	655,000	688,000	722,000	758,000	796,000	836,000	878,000	922,000	968,000	1,016,000
Human Resources	547,000	5%	574,000	603,000	633,000	665,000	698,000	733,000	770,000	809,000	849,000	891,000
Management	1,663,000	5%	1,746,000	1,833,000	1,925,000	2,021,000	2,122,000	2,228,000	2,339,000	2,456,000	2,579,000	2,708,000
Safety	208,000	5%	218,000	229,000	240,000	252,000	265,000	278,000	292,000	307,000	322,000	338,000
Pipeline	1,736,000	5%	1,823,000	1,914,000	2,010,000	2,111,000	2,217,000	2,328,000	2,444,000	2,566,000	2,694,000	2,829,000
Retiree	353,000	5%	371,000	390,000	410,000	431,000	453,000	476,000	500,000	525,000	551,000	579,000
Water Quality	914,000	5%	960,000	1,008,000	1,058,000	1,111,000	1,167,000	1,225,000	1,286,000	1,350,000	1,418,000	1,489,000
Water Treatment	2,095,000	5%	2,200,000	2,310,000	2,426,000	2,547,000	2,674,000	2,808,000	2,948,000	3,095,000	3,250,000	3,413,000
Conservation	758,000	5%	796,000	836,000	878,000	922,000	968,000	1,016,000	1,067,000	1,120,000	1,176,000	1,235,000
Utilities Maintenance	889,000	5%	933,000	980,000	1,029,000	1,080,000	1,134,000	1,191,000	1,251,000	1,314,000	1,380,000	1,449,000
General O&M	605,000	5%	635,000	667,000	700,000	735,000	772,000	811,000	852,000	895,000	940,000	987,000
Intertie Wheeling Costs	0	5%	0	0	0	0	2,550,000	2,677,500	2,811,375	2,951,944	3,099,541	3,254,518
State Water Expense	1,136,000	0%	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000
Adjudication	577,000	0%	577,000	577,000	577,000	577,000	0	0	0	0	0	0
Total Operating Budget:	\$19,348,000		\$20,230,000	\$21,157,000	\$22,130,000	\$23,152,000	\$26,197,000	\$27,450,500	\$28,766,375	\$30,149,944	\$31,601,541	\$33,125,518
<i>Overall Escalation</i>			4.6%	4.6%	4.6%	4.6%	13.2%	4.8%	4.8%	4.8%	4.8%	4.8%
<i>*Excludes recreation</i>												

Existing Debt Service

Table 4 shows the District’s projected debt service expenses. Community Facilities District (CFD) related debt include the 2017 Special Tax Bonds and CFD 2013-1 (Ojai) Series C. The CFD related debt was issued to purchase the assets of the Golden State Water Company in the Ojai Service Area and the debt service is paid solely through customers of the Ojai Service Area.

Table 4
Casitas Municipal Water District
Water Enterprise Existing Debt

Debt Issuance	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
2017 Special Tax Bonds, CFD Series A & B	\$2,149,088	\$2,189,388	\$2,232,388	\$2,277,888	\$2,320,788	\$2,362,713	\$2,407,963	\$2,454,088	\$2,500,838	\$2,562,306	\$2,608,813
Casitas Dam Seismic Safety of Dam	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228
CFD 2013-1 (Ojai) Series C	<u>610,825</u>	<u>621,850</u>	<u>637,350</u>	<u>647,325</u>	<u>660,800</u>	<u>672,600</u>	<u>682,425</u>	<u>695,050</u>	<u>711,300</u>	<u>724,325</u>	<u>737,800</u>
Total Existing Debt Service	\$2,837,141	\$2,888,466	\$2,946,966	\$3,002,441	\$3,058,816	\$3,112,541	\$3,167,616	\$3,226,366	\$3,289,366	\$3,363,859	\$3,423,841

Capital Improvement Program

Table 5 shows a summary of the District’s 10-year capital improvement program for the water enterprise and the funding sources by fiscal year. The full detailed capital improvement program is shown in Appendix A. The capital improvement program includes about \$77M of capital improvement projects over the next 5 years and \$121M over the next 10 years. The District has identified various funding sources including reserves and rate revenue, CFD funds, grants and low interest loans and bonds. The District has obtained FEMA funding, which provides 75% grant, with a 25% District match. Bond financing for capital improvement projects is estimated to be for 30 years at 4% interest, with 1.66% issuance costs.

Table 5
Casitas Municipal Water District
Water Enterprise Capital Improvement Program Summary

Fiscal Year	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032	2032/2033	Total 10 Year
Total Capital Improvements	11,506,251	14,373,633	19,169,175	22,631,689	9,629,574	8,944,360	11,357,478	9,515,451	5,755,546	8,140,000	121,023,157
FUNDING SOURCE											
CMWD (Reserves or Rates)	2,327,596	4,473,633	4,639,175	3,583,189	2,265,874	2,394,360	2,032,478	1,794,451	2,255,546	1,640,000	27,406,302
CFD 2013-1	1,268,655	-	-	-	-	-	-	-	-	-	1,268,655
Grant/ Loan	6,500,000	5,000,000	10,000,000	-	-	-	-	-	-	-	21,500,000
Bonding	160,000	3,150,000	4,530,000	19,048,500	7,363,700	6,550,000	9,325,000	7,721,000	3,500,000	6,500,000	67,848,200
FEMA 75%; 25% match	1,250,000	1,750,000	-	-	-	-	-	-	-	-	3,000,000
Total	11,506,251	14,373,633	19,169,175	22,631,689	9,629,574	8,944,360	11,357,478	9,515,451	5,755,546	8,140,000	121,023,157

Non Rate Revenue

Table 6 shows the District’s non-rate revenue. Major sources of revenue include property taxes, CFD assessments, and operating revenues, which include state water project (SWP) water sales.

Table 6
Casitas Municipal Water District
Water Enterprise Non Rate Revenue

Category	FY 2022/23	Escalation	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Non Rate Revenue												
Operating Revenue*	\$580,113	Flat	\$580,113	\$580,113	\$580,113	\$580,113	\$205,113	\$205,113	\$205,113	\$205,113	\$205,113	\$205,113
Fire Charges	28,284	Flat	28,284	28,284	28,284	28,284	28,284	28,284	28,284	28,284	28,284	28,284
Interest Earnings	282,023	1.3% of Funds	177,000	179,000	169,000	182,000	222,000	238,000	261,000	272,000	289,000	303,000
Capital Facility Charge	44,040	Flat	44,040	44,040	44,040	44,040	44,040	44,040	44,040	44,040	44,040	44,040
SWP Property Tax	1,135,687	Flat	1,135,687	1,135,687	1,135,687	1,135,687	1,135,687	1,135,687	1,135,687	1,135,687	1,135,687	1,135,687
Property Tax (1% & other)	2,804,858	2.5% Growth	2,874,979	2,946,854	3,020,525	3,096,038	3,173,439	3,252,775	3,334,095	3,417,447	3,502,883	3,590,455
CFD Assessment	2,890,140	Flat	2,890,140	2,890,140	2,890,140	2,890,140	2,890,140	2,890,140	2,890,140	2,890,140	2,890,140	2,890,140
Allocation Penalty	400,000	Removed	0	0	0	0	0	0	0	0	0	0
Stand-By Fee	0	Flat	0	0	0	0	0	0	0	0	0	0
Adjudication Fee	577,000	End in 2026/27	577,000	577,000	577,000	577,000	0	0	0	0	0	0
Grants / FEMA/LCRA Revenue	750,000	Varies	2,690,988	2,661,337	2,697,674	0	0	0	0	0	0	0
Total Other Revenue	\$9,492,145		\$10,998,232	\$11,042,455	\$11,142,464	\$8,533,302	\$7,698,703	\$7,794,039	\$7,898,359	\$7,992,711	\$8,095,147	\$8,196,719

*Operating Revenue Includes SWP - Sale of Water (\$375,000 per year). Estimated to end in FY 2027/28.

Water Rate Revenue

Table 7 shows the projected full year of rate revenue based on each rate increase. The proposed rates are recommended to be increased by 9.5% beginning on September 1st, 2023, and each January 1st thereafter until January 1st, 2028. 6.28% annual increases are estimated to be required each year thereafter. “Fiscal Year Revenue (Prorated)” shows the estimated total rate revenue generated during each fiscal year. The implementation of water rate increases in January is intended to mitigate the impact of the rate increases on agricultural users.

Table 7
Casitas Municipal Water District
Projected Water Rate Revenue (13,000 Acre Feet)

	5- Year Projection						Extended Projection				
	9/1/2023	1/1/2024	1/1/2025	1/1/2026	1/1/2027	1/1/2028	1/1/2029	1/1/2030	1/1/2031	1/1/2032	1/1/2033
Calendar Year Phase In											
% Rate Revenue Increase	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%	6.28%	6.28%	6.28%	6.28%	6.28%
Calendar Year Revenue (Full Year)											
Rate Revenue	\$17,923,726	\$19,625,648	\$21,489,175	\$23,529,650	\$25,763,875	\$28,210,248	\$29,982,654	\$31,866,417	\$33,868,534	\$35,996,441	\$38,258,040
Fiscal Year Rate Revenue (Prorated)											
Rate Revenue	<u>2023/24</u>	<u>2024/25</u>	<u>2025/26</u>	<u>2026/27</u>	<u>2027/28</u>	<u>2028/29</u>	<u>2029/30</u>	<u>2030/31</u>	<u>2031/32</u>	<u>2032/33</u>	
	\$18,515,632	\$20,557,412	\$22,509,412	\$24,646,762	\$26,987,062	\$29,096,451	\$30,924,535	\$32,867,475	\$34,932,487	\$37,127,240	
% Rate Revenue Increase	13.11%	11.03%	9.50%	9.50%	9.50%	7.82%	6.28%	6.28%	6.28%	6.28%	

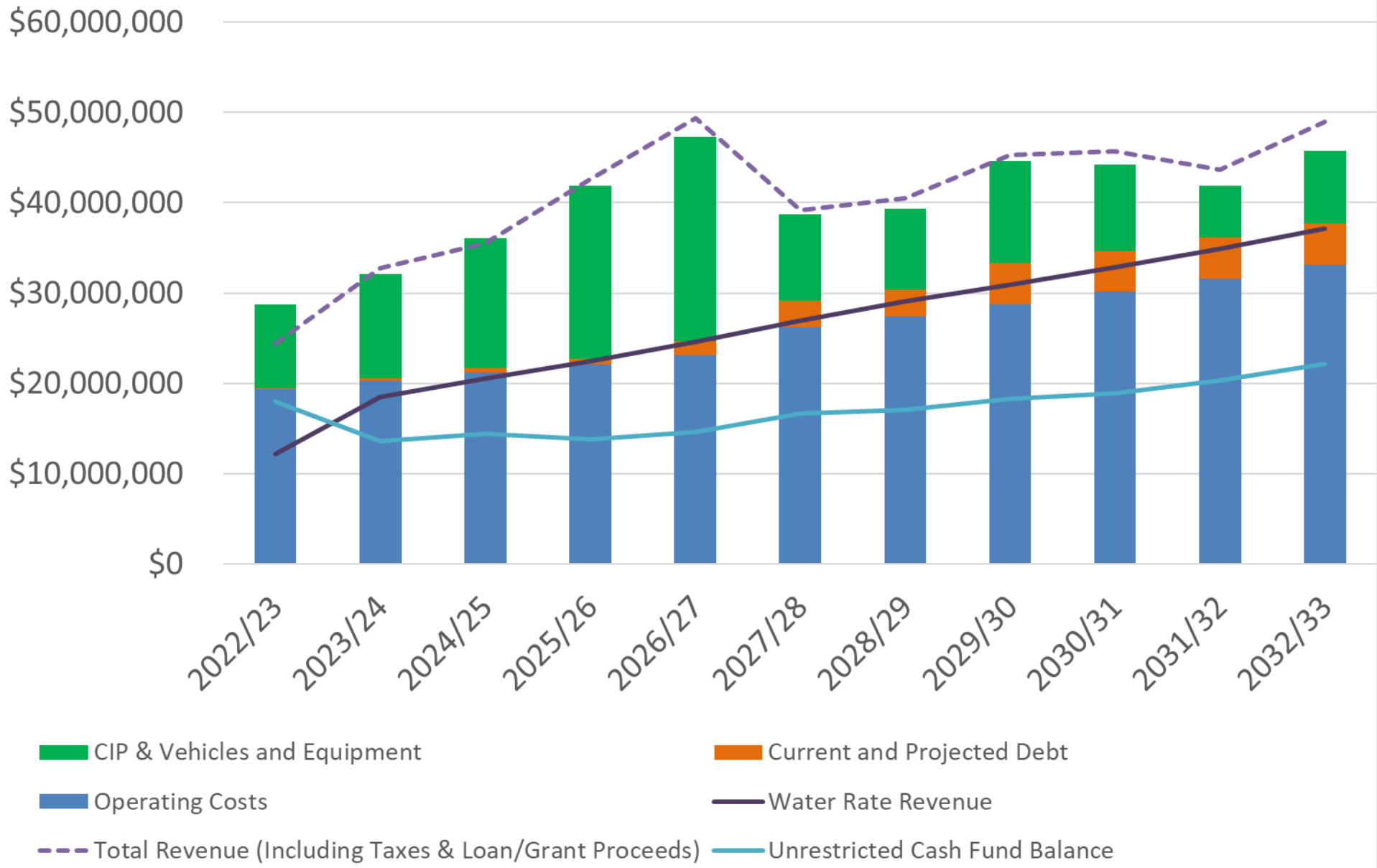
Water Cash Flow Projection

Table 8 shows the water cash flow projection based on the calendar year phase in and water usage of 13,000 acre feet throughout the projection period. Projections are designed to build up District unrestricted reserves to \$25 MM by FY 2032/33 and to maintain an adequate debt service coverage ratio (net revenues divided by annual debt service) of greater than 1.58 times debt service. The minimum required debt service coverage for a typical revenue bond is at least 1.25 times annual debt service. Chart A shows the 10-year financial plan graphically.

Table 8
Casitas Municipal Water District
Water Enterprise Cash Flow (September 1st 2023 & January 1st Thereafter Implementation)

	Current	5- Year Projection					Extended Projection				
	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33
Beginning Unrestricted Fund Balance	\$17,970,064	\$13,610,804	\$14,368,204	\$13,821,743	\$14,595,101	\$16,656,787	\$17,061,310	\$18,279,752	\$18,879,417	\$20,366,454	\$22,110,906
% Rate Revenue Increase*		13.11%	11.03%	9.50%	9.50%	9.50%	7.8%	6.3%	6.3%	6.3%	6.3%
<i>*Rate revenue increase based on usage of 13,000 AF in FY 2023/24</i>											
REVENUES											
Water Rate Revenue	\$12,210,289	\$18,515,632	\$20,557,412	\$22,509,412	\$24,646,762	\$26,987,062	\$29,096,451	\$30,924,535	\$32,867,475	\$34,932,487	\$37,127,240
Other Revenue											
Operating Revenue	\$580,000	\$580,000	\$580,000	\$580,000	\$580,000	\$205,000	\$205,000	\$205,000	\$205,000	\$205,000	\$205,000
Fire Charges	28,680	30,291	31,755	33,073	34,445	35,874	36,604	36,604	36,604	36,604	36,604
Interest Earnings	282,000	177,000	187,000	180,000	190,000	217,000	222,000	238,000	245,000	265,000	287,000
Capital Facility Charge	44,000	44,000	44,000	44,000	44,000	44,000	44,000	44,000	44,000	44,000	44,000
SWP Property Tax	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000
Property Tax (1% & other)	2,805,000	2,875,000	2,947,000	3,021,000	3,096,000	3,173,000	3,253,000	3,334,000	3,417,000	3,503,000	3,590,000
Adjudication Fee	577,000	577,000	577,000	577,000	577,000	0	0	0	0	0	0
Grants / FEMA/LCRA Revenue	<u>750,000</u>	<u>2,690,988</u>	<u>2,661,337</u>	<u>2,697,674</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
CFD Funds Transfer In	<u>5,550,000</u>	<u>1,268,655</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Intertie Loan	<u>0</u>	<u>4,746,512</u>	<u>3,651,163</u>	<u>7,302,326</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Bonding	<u>0</u>	<u>160,000</u>	<u>3,150,000</u>	<u>4,530,000</u>	<u>19,048,500</u>	<u>7,363,700</u>	<u>6,550,000</u>	<u>9,325,000</u>	<u>7,721,000</u>	<u>3,500,000</u>	<u>6,500,000</u>
Subtotal Non-Rate Revenues	\$12,152,680	\$14,285,446	\$14,965,255	\$20,101,073	\$24,705,945	\$12,174,574	\$11,446,604	\$14,318,604	\$12,804,604	\$8,689,604	\$11,798,604
Total Revenues	\$24,362,968	\$32,801,078	\$35,522,667	\$42,610,485	\$49,352,707	\$39,161,636	\$40,543,055	\$45,243,139	\$45,672,079	\$43,622,091	\$48,925,844
EXPENSES											
Operating Expenses											
District Maintenance	\$677,000	\$711,000	\$747,000	\$784,000	\$823,000	\$864,000	\$907,000	\$952,000	\$1,000,000	\$1,050,000	\$1,103,000
Engineering	1,436,000	1,508,000	1,583,000	1,662,000	1,745,000	1,832,000	1,924,000	2,020,000	2,121,000	2,227,000	2,338,000
Garage	65,000	68,000	71,000	75,000	79,000	83,000	87,000	91,000	96,000	101,000	106,000
Information Technology	428,000	449,000	471,000	495,000	520,000	546,000	573,000	602,000	632,000	664,000	697,000
Board of Directors	251,000	264,000	277,000	291,000	306,000	321,000	337,000	354,000	372,000	391,000	411,000
Electrical & Mechanical Administration	3,196,000	3,356,000	3,524,000	3,700,000	3,885,000	4,079,000	4,283,000	4,497,000	4,722,000	4,958,000	5,206,000
Fisheries	1,190,000	1,250,000	1,313,000	1,379,000	1,448,000	1,520,000	1,596,000	1,676,000	1,760,000	1,848,000	1,940,000
Human Resources	624,000	655,000	688,000	722,000	758,000	796,000	836,000	878,000	922,000	968,000	1,016,000
Management	547,000	574,000	603,000	633,000	665,000	698,000	733,000	770,000	809,000	849,000	891,000
Safety	1,663,000	1,746,000	1,833,000	1,925,000	2,021,000	2,122,000	2,228,000	2,339,000	2,456,000	2,579,000	2,708,000
Pipeline	208,000	218,000	229,000	240,000	252,000	265,000	278,000	292,000	307,000	322,000	338,000
Retiree	1,736,000	1,823,000	1,914,000	2,010,000	2,111,000	2,217,000	2,328,000	2,444,000	2,566,000	2,694,000	2,829,000
Water Quality	353,000	371,000	390,000	410,000	431,000	453,000	476,000	500,000	525,000	551,000	579,000
Water Treatment	914,000	960,000	1,008,000	1,058,000	1,111,000	1,167,000	1,225,000	1,286,000	1,350,000	1,418,000	1,489,000
Conservation	2,095,000	2,200,000	2,310,000	2,426,000	2,547,000	2,674,000	2,808,000	2,948,000	3,095,000	3,250,000	3,413,000
Utilities Maintenance	758,000	796,000	836,000	878,000	922,000	968,000	1,016,000	1,067,000	1,120,000	1,176,000	1,235,000
General O&M	889,000	933,000	980,000	1,029,000	1,080,000	1,134,000	1,191,000	1,251,000	1,314,000	1,380,000	1,449,000
Intertie Wheeling Costs	605,000	635,000	667,000	700,000	735,000	772,000	811,000	852,000	895,000	940,000	987,000
State Water Expense	0	0	0	0	0	2,550,000	2,677,500	2,811,375	2,951,944	3,099,541	3,254,518
Adjudication	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000
Total Operating Expenses	\$19,348,000	\$20,230,000	\$21,157,000	\$22,130,000	\$23,152,000	\$26,197,000	\$27,450,500	\$28,766,375	\$30,149,944	\$31,601,541	\$33,125,518
Net Revenues	\$5,014,968	\$12,571,078	\$14,365,667	\$20,480,485	\$26,200,707	\$12,964,636	\$13,092,555	\$16,476,764	\$15,522,135	\$12,020,550	\$15,800,326
Non Operating Expenses											
CIP	\$9,297,000	\$11,506,000	\$14,374,000	\$19,169,000	\$22,632,000	\$9,630,000	\$8,944,000	\$11,357,000	\$9,515,000	\$5,756,000	\$8,140,000
Existing Debt	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228	77,228
Santa Barbara Loan	0	0	0	0	0	454,198	454,198	454,198	454,198	454,198	454,198
Proposed Bonds (4%, 30 Yr, 1.66% Fees)	<u>0</u>	<u>230,450</u>	<u>460,899</u>	<u>460,899</u>	<u>1,429,793</u>	<u>2,398,687</u>	<u>2,398,687</u>	<u>3,988,672</u>	<u>3,988,672</u>	<u>3,988,672</u>	<u>3,988,672</u>
Total Non Operating Expenses	\$9,374,228	\$11,813,678	\$14,912,128	\$19,707,128	\$24,139,021	\$12,560,113	\$11,874,113	\$15,877,098	\$14,035,098	\$10,276,098	\$12,660,098
Net Income	(\$4,359,260)	\$757,400	(\$546,461)	\$773,357	\$2,061,686	\$404,523	\$1,218,442	\$599,666	\$1,487,037	\$1,744,452	\$3,140,228
Ending Fund Balance	\$13,610,804	\$14,368,204	\$13,821,743	\$14,595,101	\$16,656,787	\$17,061,310	\$18,279,752	\$18,879,417	\$20,366,454	\$22,110,906	\$25,251,134
Days O&M (Minimum >90 Days)	253	256	235	237	259	234	240	236	243	252	274
Debt Service Coverage (Min 1.25x)	-	12.04	9.11	11.06	4.75	1.91	2.23	1.58	1.73	1.89	2.06

Chart A: Casitas MWD: 10-Year Financial Plan



4. Cost Allocation

Water Enterprise Functional Cost Allocation

The functional cost allocation was calculated based on the fiscal year cash flow data from Appendix B. The proposed rates are based on the fiscal year implementation, but to mitigate impacts to customers the District has decided to phase rates by calendar year, which results in a reduction in rate revenue over the phase in period. Table 9 and Table 10 show the water enterprise functional cost allocation. BWA allocated the various categories of projected water enterprise costs in the final year of the rate study projection (FY 2027/28) to cost recovery components including:

- Customer Service: Costs related to billing customers and handling account specific issues.
- Readiness-to-Serve: Costs related to maintaining system readiness to deliver water.
- Pumping: Additional costs related to delivering pumped water versus gravity fed water.
- Source of Supply: Costs associated with water production and acquiring new sources of water supply.
- Treatment: Costs associated with water treatment.
- Conservation: Costs associated with the District's conservation program.
- Affordability: Tier 1 water usage subsidy.
- Separate Funding: The cost of the State Water Project (SWP) receives separate funding from property taxes and is not funded from water rates.

Non rate revenue sources are allocated to the various components to offset rate revenue requirements. Property taxes are allocated to offset the costs of water treatment for agricultural customers, reduce the cost of water supply for all customers, and reduce the cost of tier 1 water usage. Both capital facility charges and fire charges are allocated to offset the meter charge because capital facilities charges help offset the cost of debt service on capital projects associated with maintaining readiness-to-serve, while fire charges recover a portion of administrative costs associated with maintaining readiness-to-serve. The remaining non-rate revenue and use of reserves is allocated to each category based on a weighting of the category to the total expenditures.

Table 9
Casitas Municipal Water District
Water Enterprise Functional Cost Allocation (Percentage Allocation)

Budget Line Items	FY 2027/28 Budget	Percent Allocation to Revenue Recovery Components						Separate Funding
		Per Account Charge	Meter Charge	Water Usage Charge				
		Customer Service	Readiness-to-Serve	Pumping	Source of Supply	Treatment	Conservation	
DEPARTMENT OPERATING COSTS								
District Maintenance	\$864,000		80%		20%			
State Water Expense	\$1,136,000							100%
Engineering	\$1,832,000		70%		15%	15%		
Garage	\$83,000				50%	50%		
Information Technology	\$546,000				75%	25%		
Board of Directors	\$321,000				100%			
Electrical & Mechanical	\$4,079,000		10%	70%	10%	10%		
Administration	\$1,520,000	30%	70%					
Fisheries	\$796,000				100%			
Human Resources	\$698,000		100%					
Management	\$2,122,000				100%			
Safety	\$265,000				100%			
Pipeline	\$2,217,000		70%	10%	10%	10%		
Retiree	\$453,000		100%					
Water Quality	\$1,167,000				75%	25%		
Water Treatment	\$2,674,000					100%		
Conservation	\$968,000						100%	
Utilities Maintenance	\$1,134,000		80%		10%	10%		
General O&M	\$772,000		70%	10%	10%	10%		
Intertie Water Wheeling	\$2,550,000				100%			
NON-OPERATING COSTS								
Debt Service	\$2,930,113		53%			47%		
Cash-Funded Capital Spending	\$2,266,300				10%	90%		
SOURCES								
SWP Property Tax	(\$1,136,000)							100%
Property Tax (1% & other)	(\$3,173,000)					28%	57%	15%
Capital Facility Charge	(\$44,000)		100%					
Fire Charges	(\$36,604)		100%					
Non-Rate Revenue	(\$427,000)	2%	31%	12%	41%	14%		
Use of Reserves	\$1,633,439	2%	31%	12%	41%	14%		
Totals:	\$28,210,248							

Table 10
Casitas Municipal Water District
Water Enterprise Functional Cost Allocation (Revenue Recovery Components)

Budget Line Items	FY 2027/28 Budget	Cost Allocation to Revenue Recovery Components							Separate Funding	
		Per Account Charge	Meter Charge	Water Usage (Volumetric Rate)						
		Customer Service	Readiness-to-Serve	Pumping	Source of Supply	Treatment	Conservation	Affordability		
DEPARTMENT OPERATING COSTS										
District Maintenance	\$864,000		\$691,200		\$172,800					
State Water Expense	\$1,136,000								\$1,136,000	
Engineering	\$1,832,000		\$1,282,400		\$274,800	\$274,800				
Garage	\$83,000				\$41,500	\$41,500				
Information Technology	\$546,000				\$409,500	\$136,500				
Board of Directors	\$321,000				\$321,000					
Electrical & Mechanical	\$4,079,000		\$407,900		\$2,855,300	\$407,900	\$407,900			
Administration	\$1,520,000	\$456,000	\$1,064,000							
Fisheries	\$796,000				\$796,000					
Human Resources	\$698,000		\$698,000							
Management	\$2,122,000					\$2,122,000				
Safety	\$265,000					\$265,000				
Pipeline	\$2,217,000		\$1,551,900		\$221,700	\$221,700	\$221,700			
Retiree	\$453,000		\$453,000							
Water Quality	\$1,167,000					\$875,250	\$291,750			
Water Treatment	\$2,674,000						\$2,674,000			
Conservation	\$968,000							\$968,000		
Utilities Maintenance	\$1,134,000		\$907,200			\$113,400	\$113,400			
General O&M	\$772,000		\$540,400		\$77,200	\$77,200	\$77,200			
Intertie Water Wheeling	\$2,550,000					\$2,550,000				
NON-OPERATING COSTS										
Debt Service	\$2,930,113		\$1,566,073			\$1,364,040				
Cash-Funded Capital Spending	\$2,266,300				\$226,630	\$2,039,670				
SOURCES										
SWP Property Tax	(\$1,136,000)									(\$1,136,000)
Property Tax (1% & other)	(\$3,173,000)					(\$878,742)	(\$1,818,308)		(\$475,950)	
Capital Facility Charge	(\$44,000)		(\$44,000)							
Fire Charges	(\$36,604)		(\$36,604)							
Non-Rate Revenue	(\$427,000)	(\$6,648)	(\$133,571)		(\$49,288)	(\$175,698)	(\$61,795)			
Use of Reserves	\$1,633,439	\$25,431	\$510,959		\$188,545	\$672,114	\$236,390			
Totals:	\$28,210,248	\$474,800	\$9,458,900		\$3,520,100	\$11,669,400	\$2,595,000	\$968,000	(\$476,000)	\$0

Volumetric Rate Calculation

Table 11 shows a calculation of the rate components which compose the proposed volumetric rates, while Table 12 shows an allocation of the rate components to each usage rate category. The total volumetric revenue requirement amounts to \$18.3 MM in FY 2027/28.

The projected District water usage during the rate study projection period is 13,000 acre feet annually. The water usage is estimated based on an increase in pumped water usage of about 18.4% and a decrease in projected gravity usage of approximately 21%. The projected changes in usage result in a net increase in District water usage of about 1,000 acre feet from FY 2021/22 actuals. Gravity water usage is expected to fall overall due to substantial planned cutbacks from the City of Ventura (a major gravity resale customer), while pumped usage is expected to rise overall due to a reversion to historical norms. Water usage is highly uncertain, and usage may not rebound, which would result in a need for additional rate increases.

Costs from the functional cost allocation (Table 10) that are factored into the volumetric rate include: pumping, source of supply, treatment, conservation, and affordability.

- Pumping: These costs are allocated to pumped water.
- Source of Supply: Water supply costs are divided by all units of water.
- Treatment: Water treatment costs are divided by all units of water except for agricultural use, whose treatment cost is subsidized by a portion of property taxes.
- Conservation: Conservation costs are allocated based on the percentage of total water usage between tiered customers and uniform customers. Conservation costs are recovered by Tier 3 for tiered customers and all units of water for uniform customers.
- Tier 1 Subsidy (Affordability): Tier 1 water usage cost is subsidized by a portion of property taxes.

**Table 11
Casitas Municipal Water District
Volumetric Rate Components**

Projected Water Usage (hcf) - Estimated Based on 13,000 Acre Feet

Usage By Category		Usage Subtotals For Rate Calculations	
Gravity Tier 1	8,410	Uniform Sales	4,321,019
Gravity Tier 2	7,060	Tiered Water Sales	
Gravity Tier 3	1,982	Tier 1 Sales	561,166
Pumped Tier 1	552,756	Tier 2 Sales	556,994
Pumped Tier 2	549,934	Tier 3 Sales	<u>223,607</u>
Pumped Tier 3	221,625	Total Tiered Water Sales	1,341,768
Gravity Uniform	905,472	Non-Ag Water Sales	3,233,606
Pumped Uniform	986,366	Pumped Water	4,595,101
Gravity Ag	144,761		
Pumped Ag	<u>2,284,420</u>		
Total Usage	5,662,787		

Category	Pumping	Source of Supply		Conservation*		Tier 1 Subsidy
		Treatment		Tiered Rates	Uniform Rates	
Units of Service	4,595,101 HCF Pumped Water	5,662,787 HCF All Water	3,233,606 HCF Non-Ag Water	223,607 HCF Tier 3 Water	4,321,019 HCF Uniform Water	561,166 HCF Tier 1 Water
Revenue Requirement	\$3,520,100	\$11,669,400	\$2,595,000	\$229,363	\$738,637	-\$476,000
Unit Costs	\$0.77 per HCF	\$2.06 per HCF	\$0.80 per HCF	\$1.03 per HCF	\$0.17 per HCF	-\$0.85 per HCF

*Conservation costs allocated based on the percentage of total water usage between tiered customers and uniform customers.

Table 12
Casitas Municipal Water District
Volumetric Rates Calculation

<i>Proposed Water Use Rate (\$/HCF)</i>				
	Rate (\$/HCF)	Usage HCF (Rounded)	Annual Revenue	Note
Pumped Tier 1	\$2.78	552,800	\$1,537,363	Pumping + Supply + Treatment - Tier 1 Subsidy
Pumped Tier 2	\$3.63	549,900	\$1,995,742	Pumping + Supply + Treatment
Pumped Tier 3	\$4.66	221,600	\$1,031,552	Pumping + Supply + Treatment + Conservation (Tier)
Gravity Tier 1	\$2.01	8,400	\$16,926	Supply + Treatment - Tier 1 Subsidy
Gravity Tier 2	\$2.86	7,100	\$20,329	Supply + Treatment
Gravity Tier 3	\$3.89	2,000	\$7,778	Supply + Treatment + Conservation (Tier)
Pumped Uniform	\$3.80	986,400	\$3,748,539	Pumping + Supply + Treatment + Conservation (Uniform)
Gravity Uniform	\$3.03	905,500	\$2,747,438	Supply + Treatment + Conservation (Uniform)
Pumped Ag	\$3.00	2,284,400	\$6,847,974	Pumping + Supply + Conservation (Uniform)
Gravity Ag	\$2.23	144,800	\$323,144	Supply + Conservation (Uniform)
Totals		5,662,900	\$18,276,785	

Current and Proposed Meter Ratios

Table 13 shows the District’s current meter equivalent ratios and a calculation of proposed meter ratios. The District’s current meter equivalents are based on the maximum safe operating capacity in gallons per minute (gpm) for each meter size. BWA analyzed how these ratios compare with the ratio of the actual usage of each meter size. BWA found that the meter ratios were close in alignment for smaller meters (1.5” and below), however larger meter sizes use substantially more water than is reflected in the current meter ratios. For example, a 2” meter has 5.3 times the gpm of capacity than a ¾” meter, however, they use an average of 15.11 times the amount of water as an average ¾” meter.

BWA recommends that the District transition to meter ratios based on actual usage because Casitas customers with meters larger than 1.5” place a disproportionate level of demand on the water system than is suggested by the capacity of their meter size. The District incurs substantial costs associated with readiness-to-serve these demands.

BWA made an adjustment to the usage ratios to a major resale customer (City of Ventura) who notified the District that their usage is planned to decrease by approximately 710 AF and remain at that level for the next 5 year period. The City of Ventura meters are the only meters in both the 12” and 18” classification and the City several other meters of varying sizes. The 710 AF usage reduction was applied proportionally to City meters based on water usage in FY 2021/22. BWA recommends combining the 12” and 18” meters into one category: 12” and above. To ensure that the proposed meter ratios accurately reflect usage in future study updates, the District should incorporate planned consumption for customers who own greater than 50% of the meters in a particular category.

Table 13
Casitas Municipal Water District
New Meter Ratio Calculation - FY 2021/22 Usage Data

<u>Meter Size</u>	<u>Current Meter Equivalents</u>	<u>Consumption (AF/YR)</u>	<u>Count*</u>	<u>Average HCF Per</u>		<u>Proposed Meter Ratios</u>
				<u>Day by Meter Size</u>	<u>Ratio (HCF/Day)</u>	
3/4	1	531	1,371	0.46	1.00	1.00
1	1.7	900	1,109	0.97	2.10	2.10
1.5	3.3	100	76	1.57	3.41	3.41
2	5.3	2,124	363	6.98	15.11	15.11
3	11.7	1,610	77	24.95	53.99	53.99
4	21.0	2,647	46	68.67	148.61	148.61
6**	43.3	645	8	96.23	208.24	208.24
12 Inch & Above**	256-475.9	1,926	2	1,149.47	2,487.46	2487.46

*Count based on June 2022

**Reduced consumption estimate by ~710 AF per City of Ventura usage projections

Fixed Rate Calculation

Table 14 shows a calculation of the rate components which compose the fixed rates, while Table 15 shows an allocation of the rate components to each meter size category. The total customer service charge revenue requirement in FY 2027/28 amounts to \$474,800, while the meter charge revenue requirement amounts to \$9,458,900. The District has a total of 6,062 accounts and 30,197 ¾” meter equivalents based on the proposed meter ratios. Costs from the functional cost allocation (Table 10) that are factored into the fixed rate include: customer service and readiness-to-serve (meter).

- Customer Service: These costs are allocated as a fixed charge per account.
- Readiness-to-Serve (Meter): These costs are allocated as a fixed cost based on meter size. Larger meters use more water on average, and therefore pay proportionally more of the costs associated with maintaining readiness to provide water.

Table 14
Casitas Municipal Water District
Fixed Rate Components

Category	Customer Service	Meter
Units of Service	6,062 Accounts	30,197 Equivalent 3/4" Meters
Revenue Requirement	\$474,800	\$9,458,900
Unit Costs	\$6.53 per account per month	\$26.10 per 3/4" equivalent meter per month

Table 15
Casitas Municipal Water District
Meter Rates Calculation

Number of Customers By Meter Size	5/8" - 3/4"	1"	1 1/2"	2"	3"	4"	6"	12"	18"	Total
Residential	4,000	907	33	87	2	3	-	-	-	5,032
Residential Multi	142	67	22	22	1	5	-	-	-	259
Commercial	235	74	12	52	9	4	2	-	-	388
Industrial	2	3	1	2	1	4	-	-	-	13
Ag	-	4	-	36	17	6	1	-	-	64
Ag Domestic	-	13	2	119	32	15	-	-	-	181
Multi Ag Domestic	-	-	-	3	1	1	-	-	-	5
Other	30	16	7	29	2	3	-	-	-	87
District	2	1	-	-	5	1	-	-	-	9
Resale	-	1	-	6	3	7	5	1	1	24
Total Accounts	4,411	1,086	77	356	73	49	8	1	1	6,062
Proposed Meter Factors	1.00	2.10	3.41	15.11	53.99	148.61	208.24	2,487.46	2,487.46	
3/4" Equivalent Meters	4,411	2,281	263	5,379	3,941	7,282	1,666	2,487	2,487	30,197
Monthly Service Charge										
Meter Charge	\$26.10	\$54.82	\$89.01	\$394.42	\$1,409.30	\$3,879.17	\$5,435.69	\$64,930.23	\$64,930.23	
Customer Service Charge	\$6.53	\$6.53	\$6.53	\$6.53	\$6.53	\$6.53	\$6.53	\$6.53	\$6.53	
Total	\$32.63	\$61.34	\$95.54	\$400.94	\$1,415.83	\$3,885.70	\$5,442.22	\$64,936.76	\$64,936.76	
Customer Service Charge Revenue	\$345,487	\$85,060	\$6,031	\$27,883	\$5,718	\$3,838	\$627	\$78	\$78	\$474,800
Meter Charge Revenue	\$1,381,685	\$714,367	\$82,246	\$1,684,948	\$1,234,549	\$2,280,952	\$521,827	\$779,163	\$779,163	\$9,458,900

Proposed Water Rates

Table 16 shows the proposed rates in the final year of the rate study. The final proposed rates transition to a fixed rate structure that is consistent for meter sizes across all customer classes and maintain the current structure for the volumetric rates. The proposed cost of service changes by rate class are shown in Appendix C. The rate structure change is designed to keep the percentage of fixed versus volumetric revenue the same (35% fixed), however, the residential customer class fixed revenue would decrease, while all other classes would see an increase in the percentage of revenue collected from fixed charges.

**Table 16
Casitas Municipal Water District
Proposed Water Rates - Year 5**

Proposed Monthly Service Charge (1/1/2028)

Meter Size	All Customers
5/8"-3/4"	\$32.63
1"	\$61.34
1-1/2"	\$95.54
2"	\$400.94
3"	\$1,415.83
4"	\$3,885.70
6"	\$5,442.22
12"	\$64,936.76
18"	\$64,936.76

Proposed Volumetric Rates - per HCF* (1/1/2028)

Monthly Tiers (per HCF)	Residential¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic¹ Pumped	Other² Pumped	Resale Pumped
All Use		\$3.80	\$3.00		\$3.80	\$3.80
Tier 1 (0-10)	\$2.78			\$2.78		
Tier 2 (11-50)	\$3.63			\$3.63		
Tier 3 (51+)	\$4.66			\$3.00		
Monthly Tiers (per HCF)	Residential¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic¹ Gravity	Other² Gravity	Resale Gravity
All Use		\$3.03	\$2.23		\$3.03	\$3.03
Tier 1 (0-10)	\$2.01			\$2.01		
Tier 2 (11-50)	\$2.86			\$2.86		
Tier 3 (51+)	\$3.89			\$2.23		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

5. Basis for Rate Methodology

Yolo Ratepayers for Affordable Public Utility Services [YRAPUS] v. City of Davis, California, 2014

Consumption based fixed charges have legal precedent in California. The City of Davis proposed a rate structure which assessed fixed costs based on actual metered use of the system. A local organization representing taxpayers filed a lawsuit claiming that the City of Davis rates go against Proposition 218, which requires charges to be proportional. However, the Yolo County Superior Court heard the case and rejected the critique. They found that the method of assessing charges based on actual metered usage, rather than the capacity of the meter size, is constitutional, fair, and in compliance with Proposition 218.

Examples of Agencies that Base Fixed Charges on Metered Usage

In 2023, Marin Municipal Water District adopted base charges that reflect usage rather than capacity in their most recent rate study. Within this study, the meter equivalent unit ratios for the single-family and duplex classes were calculated based on a three-year average of the maximum bi-monthly billing period usage for each meter size relative to the maximum bi-monthly billing period usage of a 5/8" meter. The decision to base single-family and duplex meter equivalent unit ratios on actual water usage was to align their respective meter equivalent unit ratios more closely with their proportion of system capacity.

The Metropolitan Water District of Southern California (MWD) supplies water to numerous agencies within the region of Southern California. In their most recent water rate study, MWD implemented a consumption-based fixed rate for its readiness-to-serve charge – a fixed charge meant to recover the cost of the portion of system that is available to provide emergency service and available capacity during outages and hydrologic variability. This rate is allocated to member agencies based on each agency's share of a ten-year rolling average of all firm demands. MWD found that this rate design provides a better matching of costs and benefits through recovering and allocating the costs in a more efficient manner.

6. Proposed Water Rate Phase-In Schedule

Rate Phase-In Methodology

Table 17 shows the proposed six step phase-in schedule of the water rates based on the first increase on September 1st, 2023. The final proposed water rates shown in Table 16 are recommended to be phased in six steps to mitigate impacts to customers.

BWA calculated the phase in based on 9.5% rate revenue increases in each step. BWA escalated each rate based on the compound annual growth rate required to escalate each rate to the final rate over six periods. BWA then calculated the overall percentage shortfall between the revenue generated from the rates in each period and the rate revenue requirement in each period and applied the percentage difference to all rates proportionately in each period.

October Implementation

BWA calculated the impact of delaying the proposed rate increase to October 1st, 2023, to be approximately \$130,000 less rate revenue than projected in FY 2023/24. No changes are recommended to the proposed rates under this scenario, as the District is projected to meet all debt service coverage and reserve targets.

Proposed Fire Meter Rates

Appendix D shows the development of the proposed fire meter charges. BWA recalculated the new fire charges by using the ratio of the fire meter capacity based on the maximum flow in gallons per minute for each fire meter size. The proposed fire charges were escalated by 5% for inflation each fiscal year. To align with a calendar year phase-in, the final proposed fire meter charges were increased over 6 periods by 4.15% each period.

Table 17
Casitas Municipal Water District
Proposed Water Rates Phase In Schedule

Existing Monthly Service Charge

Meter Size	Residential¹	Commercial/Industrial	Agriculture	Ag Domestic¹	Other²	Resale
5/8"-3/4"	\$45.24	\$36.15	-	-	\$32.31	\$39.76
1"	\$75.39	\$60.22	\$68.10	\$54.71	\$53.87	\$66.27
1-1/2"	\$150.77	\$120.47	\$136.20	\$109.47	\$107.74	\$132.55
2"	\$241.25	\$192.75	\$217.93	\$175.13	\$172.38	\$212.07
3"	\$527.70	\$421.65	\$476.74	\$383.12	\$377.09	\$463.93
4"	\$949.88	\$758.96	\$858.11	\$689.61	\$678.74	\$835.07
6"	\$1,960.09	\$1,566.11	\$1,770.72	\$1,423.00	\$1,400.62	\$1,723.14
12"	-	-	-	-	-	\$10,179.86
18"	-	-	-	-	-	\$18,923.76

Existing Volumetric Rates - per HCF*

Monthly Tiers (per HCF)	Residential¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic¹ Pumped	Other² Pumped	Resale Pumped
All Use		\$2.31	\$1.71		\$2.31	\$2.31
Tier 1 (0-10)	\$1.52			\$1.52		
Tier 2 (11-50)	\$2.31			\$2.31		
Tier 3 (51+)	\$3.72			\$1.71		
Monthly Tiers (per HCF)	Residential¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic¹ Gravity	Other² Gravity	Resale Gravity
All Use		\$1.56	\$0.96		\$1.56	\$1.56
Tier 1 (0-10)	\$0.77			\$0.77		
Tier 2 (11-50)	\$1.56			\$1.56		
Tier 3 (51+)	\$2.97			\$0.96		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

Proposed Monthly Service Charge (9/1/2023)

Meter Size	Residential ¹	Commercial/Industrial	Agriculture	Ag Domestic ¹	Other ²	Resale
5/8"-3/4"	\$43.49	\$36.08	-	-	\$32.85	\$39.06
1"	\$73.95	\$61.32	\$67.94	\$56.61	\$55.88	\$66.41
1-1/2"	\$141.85	\$117.66	\$130.33	\$108.64	\$107.21	\$127.41
2"	\$266.55	\$221.08	\$244.90	\$204.11	\$201.43	\$239.40
3"	\$631.49	\$523.80	\$580.24	\$483.60	\$477.25	\$567.22
4"	\$1,219.48	\$1,011.50	\$1,120.48	\$933.87	\$921.59	\$1,095.35
6"	\$2,359.03	\$1,956.69	\$2,167.51	\$1,806.51	\$1,782.80	\$2,118.87
12"	-	-	-	-	-	\$14,073.65
18"	-	-	-	-	-	\$23,593.64

Proposed Volumetric Rates - per HCF* (9/1/2023)

Monthly Tiers (per HCF)	Residential ¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic ¹ Pumped	Other ² Pumped	Resale Pumped
All Use		\$2.55	\$1.91		\$2.55	\$2.55
Tier 1 (0-10)	\$1.71			\$1.71		
Tier 2 (11-50)	\$2.53			\$2.53		
Tier 3 (51+)	\$3.92			\$1.91		

Monthly Tiers (per HCF)	Residential ¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic ¹ Gravity	Other ² Gravity	Resale Gravity
All Use		\$1.77	\$1.12		\$1.77	\$1.77
Tier 1 (0-10)	\$0.92			\$0.92		
Tier 2 (11-50)	\$1.75			\$1.75		
Tier 3 (51+)	\$3.15			\$1.12		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

Proposed Monthly Service Charge (1/1/2024)

Meter Size	Residential ¹	Commercial/Industrial	Agriculture	Ag Domestic ¹	Other ²	Resale
5/8"-3/4"	\$41.57	\$35.79	-	-	\$33.21	\$38.14
1"	\$72.11	\$62.08	\$67.38	\$58.23	\$57.63	\$66.17
1-1/2"	\$132.68	\$114.25	\$123.99	\$107.18	\$106.05	\$121.76
2"	\$292.78	\$252.09	\$273.59	\$236.48	\$234.00	\$268.66
3"	\$751.26	\$646.90	\$702.08	\$606.86	\$600.48	\$689.45
4"	\$1,556.44	\$1,340.19	\$1,454.50	\$1,257.25	\$1,244.00	\$1,428.35
6"	\$2,822.53	\$2,430.36	\$2,637.68	\$2,279.95	\$2,255.98	\$2,590.21
12"	-	-	-	-	-	\$19,342.88
18"	-	-	-	-	-	\$29,243.64

Proposed Volumetric Rates - per HCF* (1/1/2024)

Monthly Tiers (per HCF)	Residential ¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic ¹ Pumped	Other ² Pumped	Resale Pumped
All Use		\$2.79	\$2.11		\$2.79	\$2.79
Tier 1 (0-10)	\$1.90			\$1.90		
Tier 2 (11-50)	\$2.75			\$2.75		
Tier 3 (51+)	\$4.11			\$2.11		

Monthly Tiers (per HCF)	Residential ¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic ¹ Gravity	Other ² Gravity	Resale Gravity
All Use		\$2.00	\$1.30		\$2.00	\$2.00
Tier 1 (0-10)	\$1.09			\$1.09		
Tier 2 (11-50)	\$1.96			\$1.96		
Tier 3 (51+)	\$3.33			\$1.30		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

Proposed Monthly Service Charge (1/1/2025)

Meter Size	Residential ¹	Commercial/Industrial	Agriculture	Ag Domestic ¹	Other ²	Resale
5/8"-3/4"	\$39.49	\$35.30	-	-	\$33.37	\$37.02
1"	\$69.90	\$62.47	\$66.43	\$59.55	\$59.09	\$65.53
1-1/2"	\$123.36	\$110.27	\$117.25	\$105.12	\$104.28	\$115.67
2"	\$319.67	\$285.74	\$303.83	\$272.37	\$270.22	\$299.72
3"	\$888.44	\$794.17	\$844.46	\$757.01	\$751.03	\$833.03
4"	\$1,974.69	\$1,765.12	\$1,876.88	\$1,682.55	\$1,669.23	\$1,851.51
6"	\$3,357.04	\$3,000.75	\$3,190.76	\$2,860.36	\$2,837.78	\$3,147.60
12"	-	-	-	-	-	\$26,426.94
18"	-	-	-	-	-	\$36,031.28

Proposed Volumetric Rates - per HCF* (1/1/2025)

Monthly Tiers (per HCF)	Residential ¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic ¹ Pumped	Other ² Pumped	Resale Pumped
All Use		\$3.05	\$2.33		\$3.05	\$3.05
Tier 1 (0-10)	\$2.11			\$2.11		
Tier 2 (11-50)	\$2.98			\$2.98		
Tier 3 (51+)	\$4.28			\$2.33		

Monthly Tiers (per HCF)	Residential ¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic ¹ Gravity	Other ² Gravity	Resale Gravity
All Use		\$2.24	\$1.50		\$2.24	\$2.24
Tier 1 (0-10)	\$1.28			\$1.28		
Tier 2 (11-50)	\$2.17			\$2.17		
Tier 3 (51+)	\$3.49			\$1.50		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

Proposed Monthly Service Charge (1/1/2026)

Meter Size	Residential ¹	Commercial/Industrial	Agriculture	Ag Domestic ¹	Other ²	Resale
5/8"-3/4"	\$37.29	\$34.60	-	-	\$33.33	\$35.72
1"	\$67.35	\$62.49	\$65.10	\$60.52	\$60.21	\$64.51
1-1/2"	\$114.00	\$105.79	\$110.21	\$102.46	\$101.92	\$109.21
2"	\$346.92	\$321.92	\$335.37	\$311.79	\$310.15	\$332.33
3"	\$1,044.30	\$969.06	\$1,009.54	\$938.59	\$933.64	\$1,000.42
4"	\$2,490.15	\$2,310.70	\$2,407.23	\$2,238.06	\$2,226.24	\$2,385.49
6"	\$3,968.56	\$3,682.55	\$3,836.41	\$3,566.78	\$3,547.98	\$3,801.73
12"	-	-	-	-	-	\$35,886.55
18"	-	-	-	-	-	\$44,125.22

Proposed Volumetric Rates - per HCF* (1/1/2026)

Monthly Tiers (per HCF)	Residential ¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic ¹ Pumped	Other ² Pumped	Resale Pumped
All Use		\$3.30	\$2.55		\$3.30	\$3.30
Tier 1 (0-10)	\$2.33			\$2.33		
Tier 2 (11-50)	\$3.20			\$3.20		
Tier 3 (51+)	\$4.43			\$2.55		

Monthly Tiers (per HCF)	Residential ¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic ¹ Gravity	Other ² Gravity	Resale Gravity
All Use		\$2.49	\$1.73		\$2.49	\$2.49
Tier 1 (0-10)	\$1.50			\$1.50		
Tier 2 (11-50)	\$2.40			\$2.40		
Tier 3 (51+)	\$3.64			\$1.73		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

Proposed Monthly Service Charge (1/1/2027)

Meter Size	Residential ¹	Commercial/Industrial	Agriculture	Ag Domestic ¹	Other ²	Resale
5/8"-3/4"	\$35.00	\$33.71	-	-	\$33.09	\$34.25
1"	\$64.48	\$62.11	\$63.40	\$61.13	\$60.97	\$63.11
1-1/2"	\$104.70	\$100.86	\$102.94	\$99.26	\$99.00	\$102.48
2"	\$374.16	\$360.42	\$367.87	\$354.71	\$353.77	\$366.20
3"	\$1,219.87	\$1,175.10	\$1,199.40	\$1,156.48	\$1,153.43	\$1,193.97
4"	\$3,120.64	\$3,006.09	\$3,068.24	\$2,958.46	\$2,950.64	\$3,054.35
6"	\$4,662.30	\$4,491.16	\$4,584.02	\$4,420.00	\$4,408.33	\$4,563.25
12"	-	-	-	-	-	\$48,429.14
18"	-	-	-	-	-	\$53,701.25

Proposed Volumetric Rates - per HCF* (1/1/2027)

Monthly Tiers (per HCF)	Residential ¹ Pumped	Commercial/Industrial Pumped	Agriculture Pumped	Ag Domestic ¹ Pumped	Other ² Pumped	Resale Pumped
All Use		\$3.55	\$2.77		\$3.55	\$3.55
Tier 1 (0-10)	\$2.55			\$2.55		
Tier 2 (11-50)	\$3.42			\$3.42		
Tier 3 (51+)	\$4.55			\$2.77		

Monthly Tiers (per HCF)	Residential ¹ Gravity	Commercial/Industrial Gravity	Agriculture Gravity	Ag Domestic ¹ Gravity	Other ² Gravity	Resale Gravity
All Use		\$2.76	\$1.97		\$2.76	\$2.76
Tier 1 (0-10)	\$1.74			\$1.74		
Tier 2 (11-50)	\$2.63			\$2.63		
Tier 3 (51+)	\$3.78			\$1.97		

*HCF = hundred cubic foot or approximately 748 gallons

1 - Residential and Ag Domestic include single family and multi-family residential uses.

2 - Other includes Institutional and Interdepartmental uses.

Proposed Monthly Fire Meter Rates

<u>Meter Size (Inches)</u>	<u>9/1/2023</u>	<u>1/1/2024</u>	<u>1/1/2025</u>	<u>1/1/2026</u>	<u>1/1/2027</u>	<u>1/1/2028</u>
2	\$4.88	\$5.09	\$5.30	\$5.52	\$5.75	\$5.99
3	\$10.69	\$11.13	\$11.59	\$12.07	\$12.57	\$13.09
4	\$19.23	\$20.03	\$20.86	\$21.73	\$22.63	\$23.57
6	\$39.69	\$41.34	\$43.05	\$44.84	\$46.70	\$48.64
8	\$48.85	\$50.88	\$52.99	\$55.19	\$57.48	\$59.86
10	\$70.22	\$73.13	\$76.17	\$79.33	\$82.62	\$86.05

Water Bill Impacts

Appendix E shows the bill impacts for various customers. As shown in Appendix E, Chart A, the bills for a typical gravity single family residential customer using 12 HCF per month with a ¾" meter would compare on the low side with other regional agencies. As shown in Appendix E, Chart B through Chart E, a typical single family residential customers would see a decrease in the proportion of the bill that is fixed, while a typical agricultural customer with a 2" meter would maintain the proportion of the bill that is fixed.

Appendix A – Capital Improvement Program

Table 1
Casitas Municipal Water District
Water Enterprise Capital Improvement Program

Fiscal Year	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032	2032/2033	Total 10 Year	Funding
4M Reservoir Recoating								3,000,000			3,000,000	Bonding
Camp Chafee System - Pipeline/Pump Station				150,000	2,350,000						2,500,000	Bonding
Casitas Dam & Outlet Works - Pipeline & Equipment Rehab/Replacement		75,000	100,000								175,000	Bonding
East Ojai Reservoir Recoating Project			2,000,000	2,000,000							4,000,000	Bonding
Fairview Reservoir Recoating							3,000,000				3,000,000	Bonding
Faria Beach Main Relocation			750,000	750,000							1,500,000	Bonding
Gardens System Modification		50,000	105,000								155,000	Bonding
Marion Walker WTP Piping Improvement/Replacement	60,000	300,000	325,000	350,000	375,000	400,000	425,000	471,000			2,706,000	Bonding
Mira Monte Well Replacement					100,000	500,000	500,000				1,100,000	Bonding
Oak View Reservoir #1 Recoating						2,500,000					2,500,000	Bonding
Oak View Reservoir #2 Recoating								2,500,000			2,500,000	Bonding
Oak View/ Miramonte Pipeline Valve Insertion		150,000									150,000	Bonding
Ojai Valley Pipeline Valve Insertion		150,000									150,000	Bonding
Ojai Valley Pump Station		420,000									420,000	Bonding
OWS Integration with Casitas Legacy System				400,000	2,200,000	150,000	400,000	250,000	2,500,000	1,000,000	6,900,000	Bonding
Rincon 2M Pipeline Replacement	100,000	200,000		9,000,000							9,300,000	Bonding
Rincon Balancing Reservoir #1 Recoating						1,500,000					1,500,000	Bonding
Rincon Balancing Reservoir #2 Recoating							1,500,000				1,500,000	Bonding
Rincon Control Reservoir Replacement		800,000									800,000	Bonding
Rincon Pipeline Vent Structure				250,000							250,000	Bonding
Robles Diversion Cleanout and Cutoff Wall Rehab				2,000,000			2,000,000			2,000,000	6,000,000	Bonding
Santa Ana Pipeline Valve Insertion		150,000									150,000	Bonding
Signal Booster Zone Hydraulic Improvements		205,000		2,898,500	1,338,700						4,442,200	Bonding
Transmission & Distribution Pipeline Replacements		500,000	500,000	500,000	1,000,000	1,500,000	1,500,000	1,500,000	1,000,000	1,000,000	9,000,000	Bonding
Upper Ojai Reservoir Recoating										2,500,000	2,500,000	Bonding
Upper Rincon Lateral Replacement			750,000	750,000							1,500,000	Bonding
Villanova Pipeline Valve Insertion		150,000									150,000	Bonding
Sub total Bonding	160,000	3,150,000	4,530,000	19,048,500	7,363,700	6,550,000	9,325,000	7,721,000	3,500,000	6,500,000	67,848,200	
Running Ridge/Foothill Pipeline Modification	300,000										300,000	CFD 2013-1
West and East Ojai Avenue Pipeline Replacement	968,655										968,655	CFD 2013-1
Sub total CFD 2013-1	1,268,655	-	-	-	-	-	-	-	-	-	1,268,655	
Admin Data Servers		20,000				20,000					40,000	CMWD (Reserves or Rates)
Anodes Replacement - Casitas Dam Inlet Structure		-			225,000						225,000	CMWD (Reserves or Rates)
Automation-Engineering Services		60,000									60,000	CMWD (Reserves or Rates)
Ave#1/2 Pump #4 Rehabilitation		300,000	325,000								625,000	CMWD (Reserves or Rates)
B.W. Residuals Drying Bed Rehabilitations		45,000									45,000	CMWD (Reserves or Rates)
Backwash Surge Tank "B" Coating and Restoration		160,000									160,000	CMWD (Reserves or Rates)
Casitas Dam Drainage Improvement/Rehabilitation		200,000									200,000	CMWD (Reserves or Rates)
Casitas Dam Hollow Jet Valve Replacement/Modification		250,000									250,000	CMWD (Reserves or Rates)
Casitas Dam Spillway Erosion Control		350,000									350,000	CMWD (Reserves or Rates)
Chemical Dosing Equipment Replacement		45,000	40,000	40,000	45,000						170,000	CMWD (Reserves or Rates)
Dam Intake Screen Maintenance	60,000										60,000	CMWD (Reserves or Rates)
Dam Intake Structure Restoration and Rehab		100,000									100,000	CMWD (Reserves or Rates)
Dam Spillway Drainage System / Stilling Basin Cleanout / Drainage Modifications		30,000	150,000	1,200,000							1,380,000	CMWD (Reserves or Rates)
DBP Reduction by Converting Fat Pipe to Chloramines	280,500										280,500	CMWD (Reserves or Rates)
Distribution System Vault Rehabilitation	55,000	57,000	60,000	63,000	66,000	69,000	72,000	75,000	78,000	81,000	676,000	CMWD (Reserves or Rates)
District Fleet Vehicle Replacement	221,121	163,133	524,175	469,189	390,874	574,360	531,478	349,451	382,546		3,606,327	CMWD (Reserves or Rates)

District Office Maintenance - Replace Admin Bldg. Roof			500,000									500,000	CMWD (Reserves or Rates)
District Water Facility Building Improvements		30,000	30,000	30,000	35,000	35,000	35,000	35,000				230,000	CMWD (Reserves or Rates)
Facility Paving	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	CMWD (Reserves or Rates)	
Filter Media Cleaning Filter	123,050	125,000	125,000	125,000	125,000	125,000	125,000	100,000	100,000	100,000	1,173,050	CMWD (Reserves or Rates)	
Fortress Reservoir Site Stability Improvements	50,000	250,000									300,000	CMWD (Reserves or Rates)	
Heidelberger Booster Station and Reservoir Slope Stability		100,000									100,000	CMWD (Reserves or Rates)	
Lab Renovation; incubator; backup power	28,401										28,401	CMWD (Reserves or Rates)	
Lake Casitas Bathymetric Survey							100,000				100,000	CMWD (Reserves or Rates)	
Lake Water Quality Department Vessel	101,182										101,182	CMWD (Reserves or Rates)	
Large Valve Replacement - Distribution System		150,000	157,000	164,000	171,000	179,000	187,000	195,000	204,000	213,000	1,620,000	CMWD (Reserves or Rates)	
Lower Rincon Main Crossing Replacements (2)	30,000										30,000	CMWD (Reserves or Rates)	
Marion Walker Treatment Plant Building Expansion		400,000									400,000	CMWD (Reserves or Rates)	
Matilija Conduit Abandonment Ojala Improvements	40,000										40,000	CMWD (Reserves or Rates)	
Meter Replacements	155,000	163,000	171,000	180,000	189,000	198,000	208,000	218,000	229,000	240,000	1,951,000	CMWD (Reserves or Rates)	
Mutual #7 Well Awning	17,000										17,000	CMWD (Reserves or Rates)	
MXU Battery Replacement			90,000	95,000	100,000	105,000	110,000	116,000	122,000	128,000	866,000	CMWD (Reserves or Rates)	
New Accounting System			250,000								250,000	CMWD (Reserves or Rates)	
New Ojai System Well - Design										105,000	105,000	CMWD (Reserves or Rates)	
Ojai Valley Pump Plant Improvements				350,000							350,000	CMWD (Reserves or Rates)	
Paint Exterior and Interior of Marion Walker Treatment Plant			45,000	200,000	125,000						370,000	CMWD (Reserves or Rates)	
Paving Marion Walker Treatment Plant	48,000										48,000	CMWD (Reserves or Rates)	
Pump Plant Control Valves		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	90,000	CMWD (Reserves or Rates)	
Pump Plant Motor Awnings		26,000	28,000								54,000	CMWD (Reserves or Rates)	
Pump Repairs and Mechanical Seal Installs	89,600	53,000	56,000	59,000	62,000	65,000	68,000	71,000	75,000	79,000	677,600	CMWD (Reserves or Rates)	
Replacement Pumps (Sludge Pump and Backwash Mix Pump)	11,200										11,200	CMWD (Reserves or Rates)	
Reservoir Cleaning and Inspections					50,000					50,000	100,000	CMWD (Reserves or Rates)	
Reservoir Mixers	41,042	43,000	45,000	47,000							176,042	CMWD (Reserves or Rates)	
Reservoir Seismic Upgrades	300,000		350,000		350,000		350,000		350,000		1,700,000	CMWD (Reserves or Rates)	
Rewind motors and rebuild pumps	16,000	52,000	54,000	56,000	58,000	61,000	64,000	67,000	70,000	73,000	571,000	CMWD (Reserves or Rates)	
Rincon Regulator vault improvements	25,000	25,000	25,000								75,000	CMWD (Reserves or Rates)	
Robles Canal Access Road Paving	300,000	300,000	300,000								900,000	CMWD (Reserves or Rates)	
Robles Crane System		100,000									100,000	CMWD (Reserves or Rates)	
Robles Diversion Canal Panel Replacement	104,000		109,000		114,000		119,000		124,000		570,000	CMWD (Reserves or Rates)	
Robles Diversion Fish Passage Improvements	100,000	300,000	300,000						-		700,000	CMWD (Reserves or Rates)	
Robles Forebay Restoration - Staff Executed Cleanouts			350,000			350,000			350,000		1,050,000	CMWD (Reserves or Rates)	
San Antonio Booster C Rehabilitation		20,000	150,000								170,000	CMWD (Reserves or Rates)	
San Antonio Filter Upgrade		85,000									85,000	CMWD (Reserves or Rates)	
Sludge Bed #3 Rehab	9,500										9,500	CMWD (Reserves or Rates)	
Small Tank Recoating - Various Sites		275,000		350,000		350,000		400,000		400,000	1,775,000	CMWD (Reserves or Rates)	
Turnout Piping Improvements		18,000	20,000	20,000	20,000	23,000	23,000	23,000	26,000	26,000	199,000	CMWD (Reserves or Rates)	
Upgrade Fortress Pump Plant		25,000	250,000								275,000	CMWD (Reserves or Rates)	
Upgrade Panel view on VFD at Rincon Pump Plant		18,500									18,500	CMWD (Reserves or Rates)	
Valve and Actuator Replacements (Marion Walker Treatment Plant)		25,000	25,000	25,000	30,000	30,000	30,000	35,000	35,000	35,000	270,000	CMWD (Reserves or Rates)	
Vertical Mast Light Tower (tow behind)	22,000										22,000	CMWD (Reserves or Rates)	
Sub total CMWD (Reserves or Rates)	2,327,596	4,473,633	4,639,175	3,583,189	2,265,874	2,394,360	2,032,478	1,794,451	2,255,546	1,640,000	27,406,302		
Robles Diversion/ Forebay FEMA REIMBURSEMENT - 2023 Storm Related	1,000,000	1,000,000									2,000,000	FEMA 75%; 25% match	
Emergency Generator at Rincon Pumping Plant	250,000	750,000									1,000,000	FEMA 75%; 25% match	
Ventura-Santa Barbara Counties Intertie	6,500,000	5,000,000	10,000,000								21,500,000	Grant/ Loan	
Sub total FEMA, Grant, and Loans	7,750,000	6,750,000	10,000,000	-	-	-	-	-	-	-	24,500,000		
Total Capital Improvements	11,506,251	14,373,633	19,169,175	22,631,689	9,629,574	8,944,360	11,357,478	9,515,451	5,755,546	8,140,000	121,023,157		
FUNDING SOURCE													
CMWD (Reserves or Rates)	2,327,596	4,473,633	4,639,175	3,583,189	2,265,874	2,394,360	2,032,478	1,794,451	2,255,546	1,640,000	27,406,302		
CFD 2013-1	1,268,655	-	-	-	-	-	-	-	-	-	1,268,655		
Grant/ Loan	6,500,000	5,000,000	10,000,000								21,500,000		
Bonding	160,000	3,150,000	4,530,000	19,048,500	7,363,700	6,550,000	9,325,000	7,721,000	3,500,000	6,500,000	67,848,200		
FEMA 75%; 25% match	1,250,000	1,750,000	-	-	-	-	-	-	-	-	3,000,000		
Total	11,506,251	14,373,633	19,169,175	22,631,689	9,629,574	8,944,360	11,357,478	9,515,451	5,755,546	8,140,000	121,023,157		

Appendix B – Fiscal Year Cash Flow

Table 1 assumes rate increases on September 1st, 2023, and each July 1st thereafter until July 1st, 2027.

Table 1
Casitas Municipal Water District
Water Enterprise Cash Flow (Fiscal Year)

	Current	5- Year Projection				
	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
Beginning Unrestricted Fund Balance	\$17,970,064	\$13,610,804	\$13,790,522	\$13,029,352	\$13,973,610	\$16,681,620
% Rate Revenue Increase*		11.50%	11.50%	11.50%	11.50%	11.50%
<i>*Rate revenue increase based on usage of 13,000 AF in FY 2023/24</i>						
REVENUES						
Water Rate Revenue	\$12,210,289	\$17,938,126	\$20,350,838	\$22,691,185	\$25,300,671	\$28,210,248
Other Revenue						
Operating Revenue*	\$580,000	\$580,000	\$580,000	\$580,000	\$580,000	\$205,000
Fire Charges	28,680	30,114	31,620	33,201	34,861	36,604
Interest Earnings	282,000	177,000	179,000	169,000	182,000	222,000
Capital Facility Charge	44,000	44,000	44,000	44,000	44,000	44,000
SWP Property Tax	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000
Property Tax (1% & other)	2,805,000	2,875,000	2,947,000	3,021,000	3,096,000	3,173,000
Allocation Penalty	400,000	0	0	0	0	0
Stand-By Fee	0	0	0	0	0	0
Adjudication Fee	577,000	577,000	577,000	577,000	577,000	0
Grants / FEMALCRA Revenue	750,000	2,690,988	2,661,337	2,697,674	0	0
CFD Funds Transfer In	5,550,000	1,268,655	0	0	0	0
Intertie Loan	0	4,746,512	3,651,163	7,302,326	0	0
Bonding	0	160,000	3,150,000	4,530,000	19,048,500	7,363,700
Subtotal Non-Rate Revenues	\$12,152,680	\$14,285,269	\$14,957,120	\$20,090,201	\$24,698,361	\$12,180,304
Total Revenues	\$24,362,968	\$32,223,395	\$35,307,958	\$42,781,385	\$49,999,032	\$40,390,552
EXPENSES						
Operating Expenses						
District Maintenance	\$677,000	\$711,000	\$747,000	\$784,000	\$823,000	\$864,000
Engineering	1,436,000	1,508,000	1,583,000	1,662,000	1,745,000	1,832,000
Garage	65,000	68,000	71,000	75,000	79,000	83,000
Information Technology	428,000	449,000	471,000	495,000	520,000	546,000
Board of Directors	251,000	264,000	277,000	291,000	306,000	321,000
Electrical & Mechanical	3,196,000	3,356,000	3,524,000	3,700,000	3,885,000	4,079,000
Administration	1,190,000	1,250,000	1,313,000	1,379,000	1,448,000	1,520,000
Fisheries	624,000	655,000	688,000	722,000	758,000	796,000
Human Resources	547,000	574,000	603,000	633,000	665,000	698,000
Management	1,663,000	1,746,000	1,833,000	1,925,000	2,021,000	2,122,000
Safety	208,000	218,000	229,000	240,000	252,000	265,000
Pipeline	1,736,000	1,823,000	1,914,000	2,010,000	2,111,000	2,217,000
Retiree	353,000	371,000	390,000	410,000	431,000	453,000
Water Quality	914,000	960,000	1,008,000	1,058,000	1,111,000	1,167,000
Water Treatment	2,095,000	2,200,000	2,310,000	2,426,000	2,547,000	2,674,000
Conservation	758,000	796,000	836,000	878,000	922,000	968,000
Utilities Maintenance	889,000	933,000	980,000	1,029,000	1,080,000	1,134,000
General O&M	605,000	635,000	667,000	700,000	735,000	772,000
Intertie Wheeling Costs	0	0	0	0	0	2,550,000
State Water Expense	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000	1,136,000
Adjudication	577,000	577,000	577,000	577,000	577,000	0
Total Operating Expenses	\$19,348,000	\$20,230,000	\$21,157,000	\$22,130,000	\$23,152,000	\$26,197,000
Net Revenues	\$5,014,968	\$11,993,395	\$14,150,958	\$20,651,385	\$26,847,032	\$14,193,552
Non Operating Expenses						
CIP	\$9,297,000	\$11,506,000	\$14,374,000	\$19,169,000	\$22,632,000	\$9,630,000
Existing Debt	77,228	77,228	77,228	77,228	77,228	77,228
Santa Barbara Loan	0	0	0	0	0	454,198
Proposed Bonds (4%, 30 Yr, 1.66% Fees)	0	230,450	460,899	460,899	1,429,793	2,398,687
Total Non Operating Expenses	\$9,374,228	\$11,813,678	\$14,912,128	\$19,707,128	\$24,139,021	\$12,560,113
Net Income	(\$4,359,260)	\$179,717	(\$761,170)	\$944,258	\$2,708,010	\$1,633,439
Ending Fund Balance	\$13,610,804	\$13,790,522	\$13,029,352	\$13,973,610	\$16,681,620	\$18,315,059
Days O&M (Minimum >90 Days)	253	245	222	227	259	252
Debt Service Coverage (Min 1.25x)	-	10.16	8.71	11.38	5.17	2.33

Appendix C – Cost of Service Comparisons

Table 1
Casitas Municipal Water District
Cost of Service Comparison - Revenue by Customer Class

Customer Class	Current		Total	Proposed CY 2028*			5- Year Change	Annualized Rate
	Fixed	Usage		Fixed	Usage	Total		
Residential	\$3,655,016	\$2,730,464	\$6,385,481	\$3,350,310	\$4,241,203	\$7,591,513	18.9%	3.5%
Commercial / Industrial	\$602,409	\$1,376,427	\$1,978,836	\$1,442,680	\$2,267,842	\$3,710,522	87.5%	13.4%
Ag	\$277,702	\$1,664,918	\$1,942,620	\$810,058	\$2,948,942	\$3,759,000	93.5%	14.1%
Ag Domestic	\$551,673	\$2,608,307	\$3,159,980	\$1,905,566	\$4,590,592	\$6,496,159	105.6%	15.5%
Other	\$32,192	\$161,060	\$193,252	\$133,097	\$264,962	\$398,059	106.0%	15.5%
Resale	\$555,543	\$2,153,555	\$2,709,099	\$2,291,988	\$3,962,959	\$6,254,947	130.9%	18.2%
Total	\$5,674,536	\$10,694,730	\$16,369,266	\$9,933,700	\$18,276,500	\$28,210,200	72.3%	11.5%

*Totals vary slightly from cost of service tables due to rounding.

Table 2
Casitas Municipal Water District
Cost of Service Comparison - % of Fixed Revenue by Customer Class

Customer Class	CURRENT (Based on 13,000 AF Projected Use)			PROPOSED (Based on 13,000 AF Projected Use)*						
	Fixed	Volumetric	Total	Fixed	Volumetric	Fixed	Volumetric	Total	Fixed	Volumetric
Residential	\$3,655,016	\$2,730,464	\$6,385,481	57%	43%	\$3,350,310	\$4,241,203	\$7,591,513	44%	56%
Commercial / Industrial	\$602,409	\$1,376,427	\$1,978,836	30%	70%	\$1,442,680	\$2,267,842	\$3,710,522	39%	61%
Ag	\$277,702	\$1,664,918	\$1,942,620	14%	86%	\$810,058	\$2,948,942	\$3,759,000	22%	78%
Ag Domestic	\$551,673	\$2,608,307	\$3,159,980	17%	83%	\$1,905,566	\$4,590,592	\$6,496,159	29%	71%
Other	\$32,192	\$161,060	\$193,252	17%	83%	\$133,097	\$264,962	\$398,059	33%	67%
Resale	\$555,543	\$2,153,555	\$2,709,099	21%	79%	\$2,291,988	\$3,962,959	\$6,254,947	37%	63%
Total	\$5,674,536	\$10,694,730	\$16,369,266	35%	65%	\$9,933,700	\$18,276,500	\$28,210,200	35%	65%

*Totals vary slightly from cost of service tables due to rounding.

Appendix D – Fire Meter Charge Calculation

Table 1
Casitas Municipal Water District
Proposed Fire Meter Rate Calculation

<u>Fire Meter</u>	<u>Meter Size</u>						<u>Recalculated</u>
<u>Count</u>	<u>(Inches)</u>	<u>Current Monthly Rate</u>	<u>Revenue</u>	<u>Est. Max Flow (GPM)</u>	<u>2" Meter Ratios</u>	<u>2" Meter Equivalents</u>	<u>Monthly Rate</u>
4	2	\$8.90	\$427	160	1.0	4	\$4.69
1	3	\$8.90	\$107	350	2.2	2	\$10.26
48	4	\$21.59	\$12,436	630	3.9	189	\$18.47
16	6	\$31.27	\$6,004	1,300	8.1	130	\$38.11
17	8	\$42.44	\$8,658	1,600	10.0	170	\$46.90
<u>1</u>	10	\$87.37	<u>\$1,048</u>	2,300	14.4	<u>14</u>	\$67.42
87			\$28,680			510	

<u>Meter Size</u>	<u>FY 2022/23</u>		<u>FY 2023/24</u>		<u>FY 2024/25</u>		<u>FY 2025/26</u>		<u>FY 2026/27</u>	<u>FY 2027/28</u>
<u>(Inches)</u>	<u>Monthly Rate</u>	<u>% Increase</u>	<u>Monthly Rate</u>		<u>Monthly Rate</u>		<u>Monthly Rate</u>		<u>Monthly Rate</u>	<u>Monthly Rate</u>
2	\$4.69	5%	\$4.92		\$5.17		\$5.43		\$5.70	\$5.99
3	\$10.26	5%	\$10.77		\$11.31		\$11.88		\$12.47	\$13.09
4	\$18.47	5%	\$19.39		\$20.36		\$21.38		\$22.45	\$23.57
6	\$38.11	5%	\$40.01		\$42.01		\$44.12		\$46.32	\$48.64
8	\$46.90	5%	\$49.25		\$51.71		\$54.30		\$57.01	\$59.86
10	\$67.42	5%	\$70.79		\$74.33		\$78.05		\$81.95	\$86.05

<u>Meter Size</u>	<u>Current</u>	<u>9/1/2023</u>	<u>1/1/2024</u>	<u>1/1/2025</u>	<u>1/1/2026</u>	<u>1/1/2027</u>	<u>1/1/2028</u>
<u>(Inches)</u>							
2	\$8.90	\$4.88	\$5.09	\$5.30	\$5.52	\$5.75	\$5.99
3	\$8.90	\$10.69	\$11.13	\$11.59	\$12.07	\$12.57	\$13.09
4	\$21.59	\$19.23	\$20.03	\$20.86	\$21.73	\$22.63	\$23.57
6	\$31.27	\$39.69	\$41.34	\$43.05	\$44.84	\$46.70	\$48.64
8	\$42.44	\$48.85	\$50.88	\$52.99	\$55.19	\$57.48	\$59.86
10	\$87.37	\$70.22	\$73.13	\$76.17	\$79.33	\$82.62	\$86.05

Appendix E – Water Bill Impacts

Chart A shows the regional water rate survey for a typical gravity single family user with a 3/4" meter using 12 HCF per month.

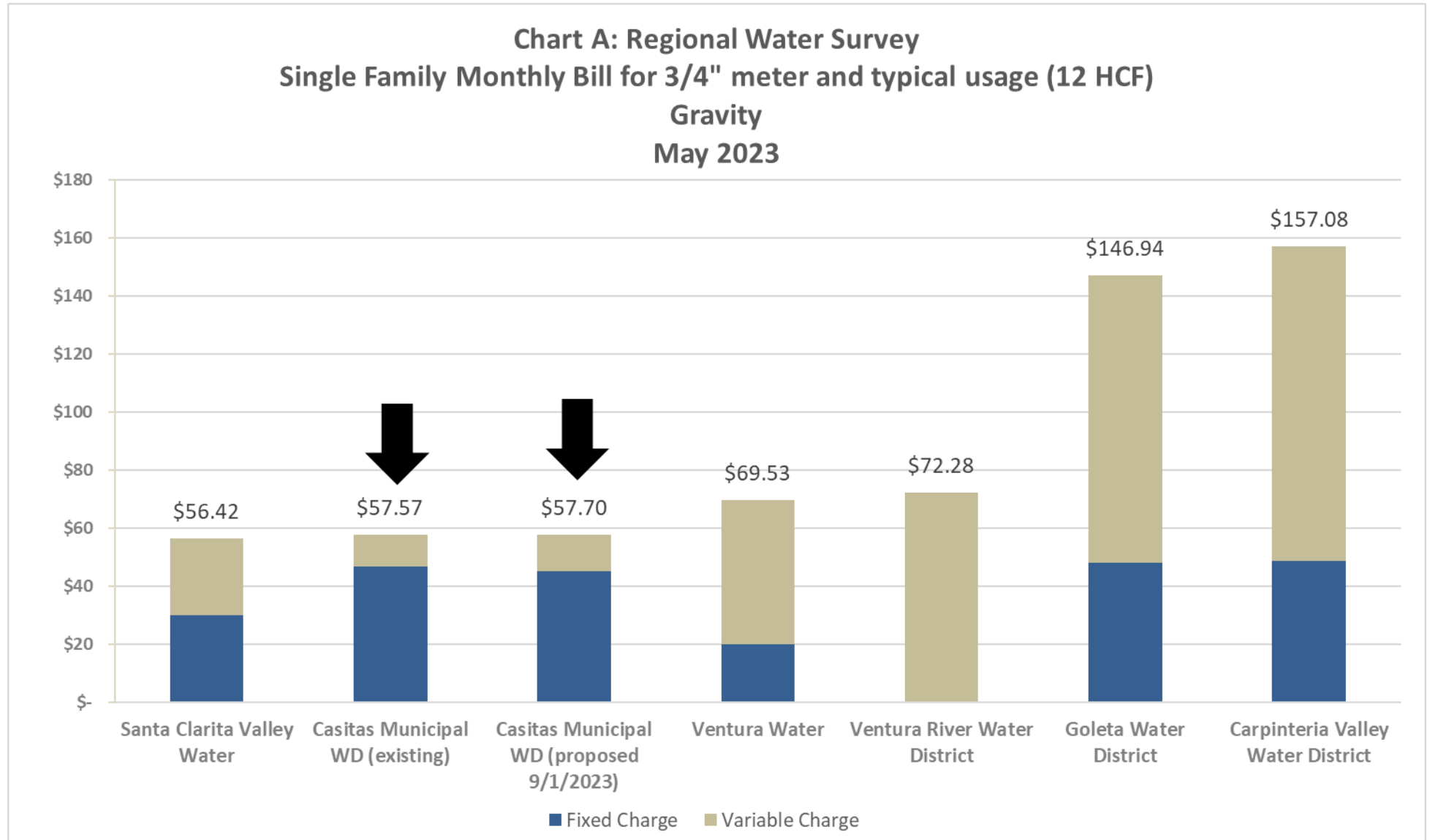


Chart B and Chart C show bill impacts for typical single family users with a 3/4" meter using 12 HCF per month.

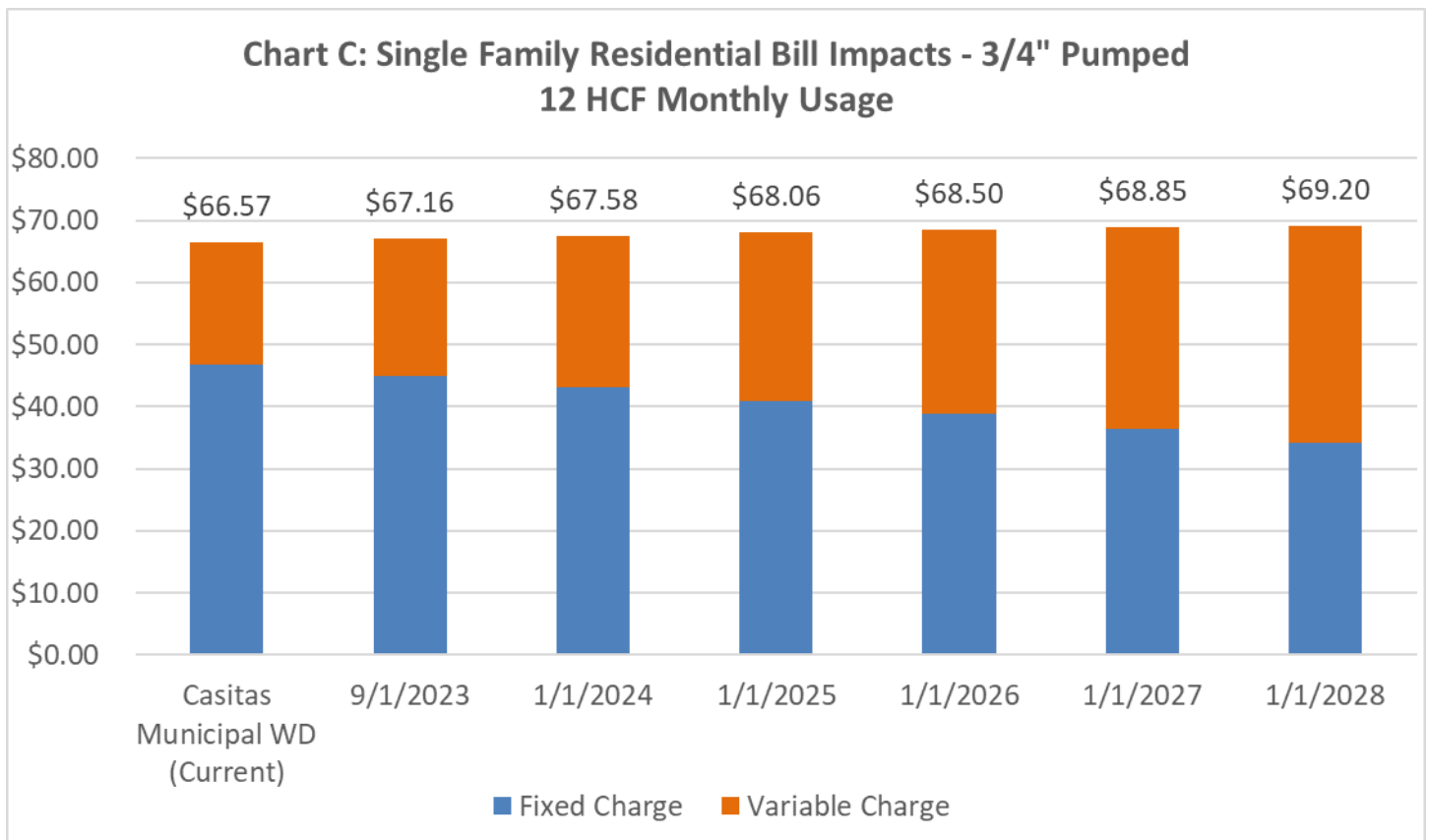
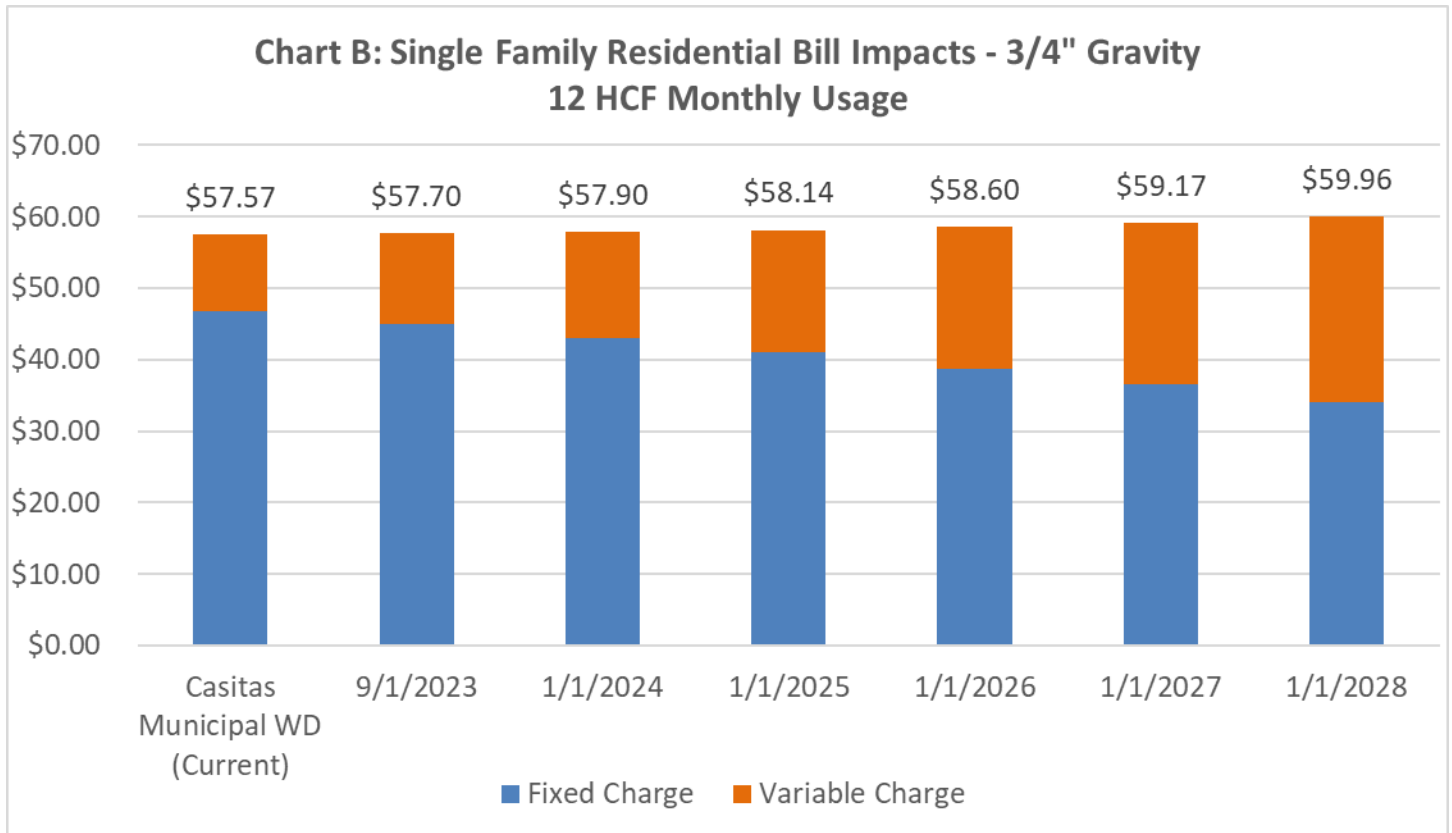
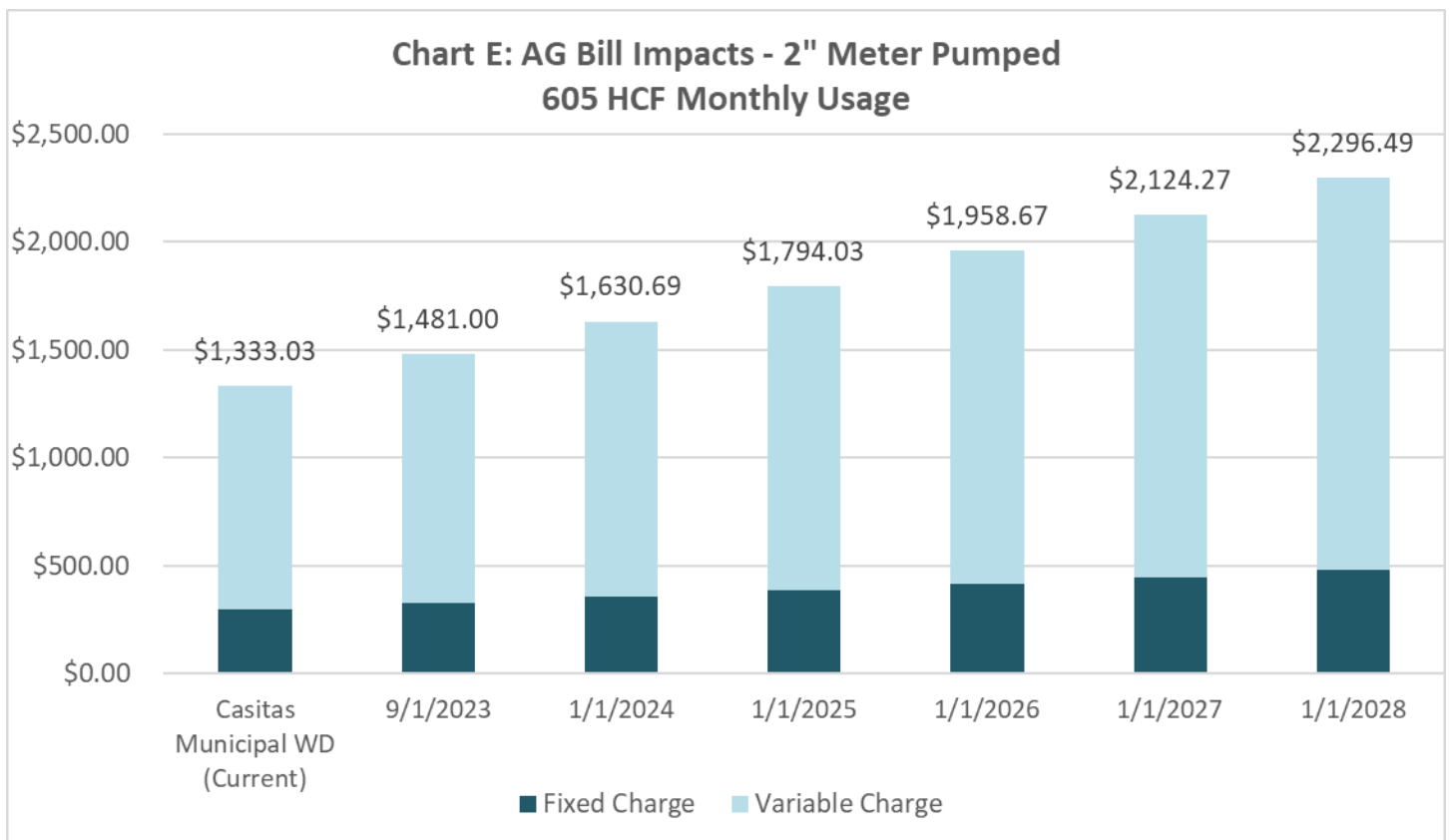
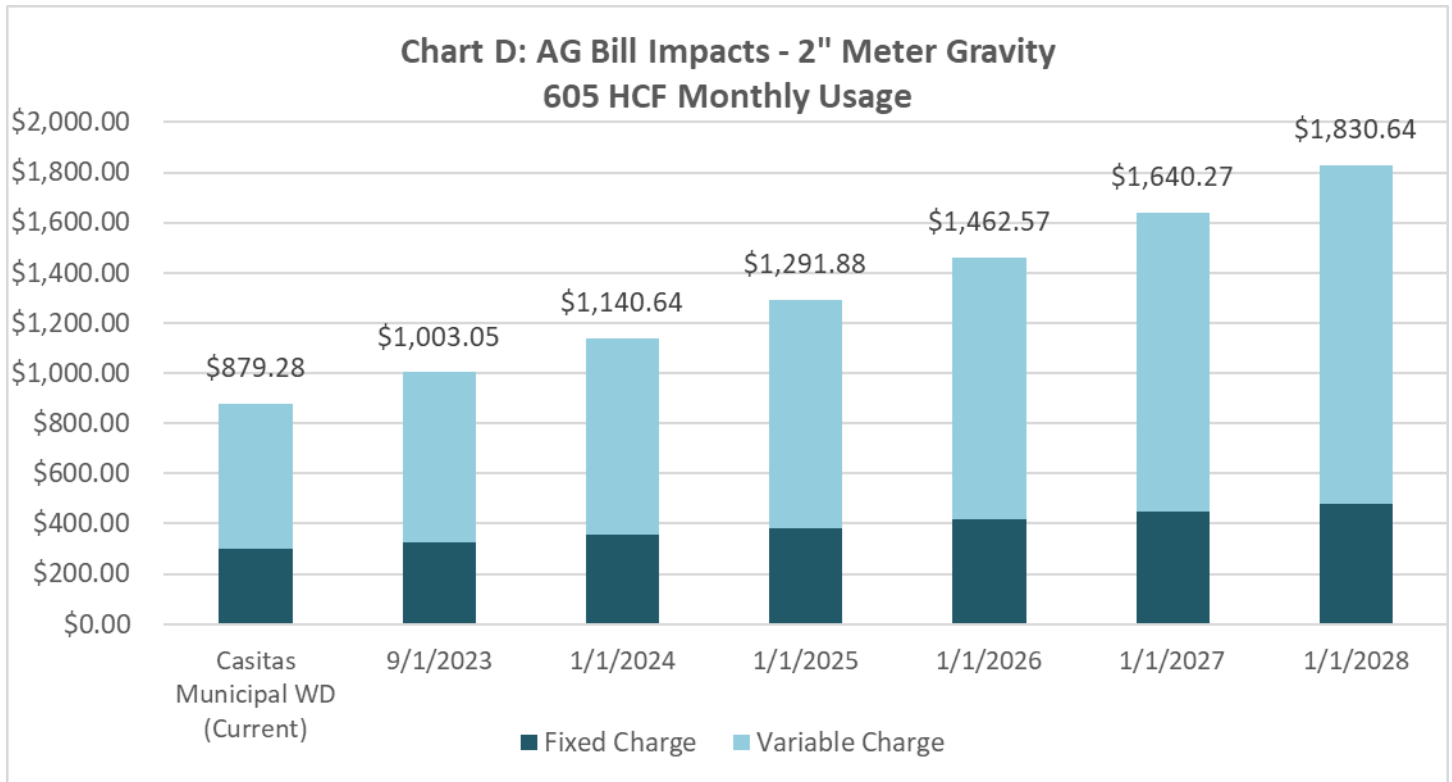


Chart D and Chart E show bill impacts for typical agricultural users with a 2" meter using 605 HCF per month.



NOTICE OF PUBLIC HEARING ON PROPOSED CHANGES TO WATER SERVICE RATES AND CHARGES



Date: Wednesday, October 11, 2023, 5:00 p.m.
Place: Casitas Municipal Water District, Board Room
1055 Ventura Avenue
Oak View, California 93022

PROPOSED WATER SERVICE RATES AND CHARGES

You are receiving this Notice because our records indicate that you are either a water customer or owner of a property receiving direct water service from the Casitas Municipal Water District.

The Board of Directors of the Casitas Municipal Water District (Casitas or District) will hold a public hearing at the date and location specified above to consider a proposed five-year schedule of changes to the District's water rates. This Notice describes proposed changes and explains how you can participate in the process.

As required by Proposition 218, the proposed water rate structure is based on a comprehensive rate study that used a rate model developed by an independent rate consultant to evaluate cost of service. If adopted, the water rates will become effective January 1 of the years 2024 through 2028, respectively.

Why are water rates increasing?

Casitas continually evaluates its infrastructure needs, programs, and operations and maintenance costs to store, treat, and deliver water to its customers. In order to ensure reliable water service and financial stability, the District has determined revenue requirements will increase over the next 5 years. The cost of service includes:

- **Replace and modernize aging infrastructure:** The proposed rates will allow Casitas to complete infrastructure maintenance and refurbishment of pipelines, tanks, and pump stations necessary to convey water to its customers. Most of the water system was constructed several decades ago and requires improvements to provide water quality, seismic, and fire protection.
- **Rising cost of external expenses:** Despite record high levels of inflation, Casitas has not increased its water rates since July 2021. The proposed rates assume 5% inflation annually for the next 5 years.
- **Replenish reserves to prepare for future emergencies:** Over the last five years, Casitas' financial reserves functioned as intended in response to drought, fire, storm damage, pandemic, and unexpected levels of inflation. However, financial reserves are below target levels and Casitas must replenish financial reserve accounts to be ready for the next emergency.
- **Strengthen water supply resiliency:** To mitigate droughts and emergencies, the proposed rates include construction of a regional intertie project known as the Ventura-Santa Barbara Counties Intertie. The project includes 1.3 miles of new pipeline and 2 booster pump stations.



How are costs being offset?

Casitas is committed to responsible financial stewardship and has identified alternative revenue sources to minimize the need for rate increases, where possible. In the last few years, Casitas successfully secured a range of outside funds for capital projects including:

- **\$1.5 million** in FEMA funding for emergency generators to ensure water service during power outages
- **\$10 million** in state and federal grants for the Ventura-Santa Barbara Counties Intertie project

What is changing about how water rates are calculated?

Water bills are made up of monthly fixed charges and a volumetric charge based on the amount of water used. While the majority of expenses to maintain water system infrastructure are fixed and do not vary based on the amount of water used by customers, a volumetric charge helps to encourage conservation efforts. The proposed rates reflect a transition to a rate structure in which all customers pay the same fixed monthly service charge based on the size of their meter. In accordance with Proposition 218, each customer group is responsible for paying for the cost of water service that relate directly to them.

How will the proposed changes impact my water bill?

Customers are encouraged to use the online water rate calculator to see how the new rates could impact their bill: <https://www.casitaswater.org/your-water/water-rate>. As an example, a single family home with 3/4" meter size and average water usage of 12 HCF would see a \$1.01 monthly increase in their bill for water use service starting January 1, 2024 and a \$2.63 monthly increase starting January 1, 2028.

CURRENT AND PROPOSED VOLUMETRIC CHARGES

All rates are in \$/HCF. (1 HCF [Hundred Cubic Feet]= 748 gallons)

Customer Class	Tiers	Current	Jan 1 2024	Jan 1 2025	Jan 1 2026	Jan 1 2027	Jan 1 2028	
Residential ¹	Pumped	First 10 HCF	\$1.52	\$1.90	\$2.11	\$2.33	\$2.55	\$2.78
		Next 40 HCF	\$2.31	\$2.75	\$2.98	\$3.20	\$3.42	\$3.63
		All other HCF	\$3.72	\$4.11	\$4.28	\$4.43	\$4.55	\$4.66
	Gravity	First 10 HCF	\$0.77	\$1.09	\$1.28	\$1.50	\$1.74	\$2.01
		Next 40 HCF	\$1.56	\$1.96	\$2.17	\$2.40	\$2.63	\$2.86
		All other HCF	\$2.97	\$3.33	\$3.49	\$3.64	\$3.78	\$3.89
Agricultural Domestic ¹	Pumped	First 10 HCF	\$1.52	\$1.90	\$2.11	\$2.33	\$2.55	\$2.78
		Next 40 HCF	\$2.31	\$2.75	\$2.98	\$3.20	\$3.42	\$3.63
		All other HCF	\$1.71	\$2.11	\$2.33	\$2.55	\$2.77	\$3.00
	Gravity	First 10 HCF	\$0.77	\$1.09	\$1.28	\$1.50	\$1.74	\$2.01
		Next 40 HCF	\$1.56	\$1.96	\$2.17	\$2.40	\$2.63	\$2.86
		All other HCF	\$0.96	\$1.30	\$1.50	\$1.73	\$1.97	\$2.23
Agriculture	Pumped	All HCF	\$1.71	\$2.11	\$2.33	\$2.55	\$2.77	\$3.00
	Gravity	All HCF	0.96	\$1.30	\$1.50	\$1.73	\$1.97	\$2.23
Commercial, Re-sale, & Other ²	Pumped	All HCF	\$2.31	\$2.79	\$3.05	\$3.30	\$3.55	\$3.80
	Gravity	All HCF	\$1.56	\$2.00	\$2.24	\$2.49	\$2.76	\$3.03

¹ Rate includes Single Family and Multi-Family Residential Uses

² Rate includes Industrial, Inter-Departmental, and Institutional Uses

PROPOSED FIXED MONTHLY PRIVATE FIRE SERVICE CHARGES (IF REQUIRED AND APPLICABLE)

Meter Size	Current	Jan 1, 2024	Jan 1, 2025	Jan 1, 2026	Jan 1, 2027	Jan 1, 2028
2"	\$8.90	\$5.09	\$5.30	\$5.52	\$5.75	\$5.99
3"	\$8.90	\$11.13	\$11.59	\$12.07	\$12.57	\$13.09
4"	\$21.59	\$20.03	\$20.86	\$21.73	\$22.63	\$23.57
6"	\$31.27	\$41.34	\$43.05	\$44.84	\$46.70	\$48.64
8"	\$42.44	\$50.88	\$52.99	\$55.19	\$57.48	\$59.86
10"	\$87.37	\$73.13	\$76.17	\$79.33	\$82.62	\$86.05

FIXED MONTHLY ADJUDICATION CHARGE

No changes are currently proposed for the monthly fixed adjudication charge adopted by the Board of Directors on June 24, 2020. Current charges are shown in the table below. For more information, visit:

<https://www.casitaswater.org/for-customers/adjudication-information>.

Meter Size	Residential	Agriculture Domestic	Agriculture	Commercial	Interdepartmental	Industrial	Other	Resale
5/8-3/4"	\$1.51			\$3.81	\$2.92	\$0.77	\$2.89	\$9.44
1"	\$2.52	\$15.79	\$25.17	\$6.36	\$4.87	\$1.29	\$4.81	\$15.73
1-1/2"	\$5.04	\$31.59	\$50.35	\$12.71	\$9.75	\$2.58	\$9.62	\$31.47
2"	\$8.07	\$50.54	\$80.55	\$20.34	\$15.60	\$4.13	\$15.39	\$50.35
3"	\$17.65	\$110.55	\$176.21	\$44.49	\$34.12	\$9.04	\$33.66	\$110.13
4"	\$31.77	\$199.00	\$317.17	\$80.09	\$61.41	\$16.27	\$60.59	\$198.24
6"		\$410.63	\$654.49	\$165.25	\$126.72	\$33.58	\$125.03	\$409.07
12"								\$2,416.65
18"								\$4,492.52

CURRENT AND PROPOSED FIXED MONTHLY SERVICE CHARGES

The new rates are proposed to take effect on the dates shown in the tables below.

	Meter Size	Current	Jan 1, 2024	Jan 1, 2025	Jan 1, 2026	Jan 1, 2027	Jan 1, 2028
RESIDENTIAL ¹	5/8-3/4"	\$45.24	\$41.57	\$39.49	\$37.29	\$35.00	\$32.63
	1"	\$75.39	\$72.11	\$69.90	\$67.35	\$64.48	\$61.34
	1-1/2"	\$150.77	\$132.68	\$123.36	\$114.00	\$104.70	\$95.54
	2"	\$241.25	\$292.78	\$319.67	\$346.92	\$374.16	\$400.94
	3"	\$527.70	\$751.26	\$888.44	\$1,044.30	\$1,219.87	\$1,415.83
	4"	\$949.88	\$1,556.44	\$1,974.69	\$2,490.15	\$3,120.64	\$3,885.70
COMMERCIAL & INDUSTRIAL	5/8-3/4"	\$36.15	\$35.79	\$35.30	\$34.60	\$33.71	\$32.63
	1"	\$60.22	\$62.08	\$62.47	\$62.49	\$62.11	\$61.34
	1-1/2"	\$120.47	\$114.25	\$110.27	\$105.79	\$100.86	\$95.54
	2"	\$192.75	\$252.09	\$285.74	\$321.92	\$360.42	\$400.94
	3"	\$421.65	\$646.90	\$794.17	\$969.06	\$1,175.10	\$1,415.83
	4"	\$758.96	\$1,340.19	\$1,765.12	\$2,310.70	\$3,006.09	\$3,885.70
OTHER ²	5/8-3/4"	\$32.31	\$33.21	\$33.37	\$33.33	\$33.09	\$32.63
	1"	\$53.87	\$57.63	\$59.09	\$60.21	\$60.97	\$61.34
	1-1/2"	\$107.74	\$106.05	\$104.28	\$101.92	\$99.00	\$95.54
	2"	\$172.38	\$234.00	\$270.22	\$310.15	\$353.77	\$400.94
	3"	\$377.09	\$600.48	\$751.03	\$933.64	\$1,153.43	\$1,415.83
	4"	\$678.74	\$1,244.00	\$1,669.23	\$2,226.24	\$2,950.64	\$3,885.70
AGRICULTURE DOMESTIC ¹	6"	\$1,400.62	\$2,255.98	\$2,837.78	\$3,547.98	\$4,408.33	\$5,442.22
	1"	\$54.71	\$58.23	\$59.55	\$60.52	\$61.13	\$61.34
	1-1/2"	\$109.47	\$107.18	\$105.12	\$102.46	\$99.26	\$95.54
	2"	\$175.13	\$236.48	\$272.37	\$311.79	\$354.71	\$400.94
	3"	\$383.12	\$606.86	\$757.01	\$938.59	\$1,156.48	\$1,415.83
	4"	\$689.61	\$1,257.25	\$1,682.55	\$2,238.06	\$2,958.46	\$3,885.70
AGRICULTURE	6"	\$1,423.00	\$2,279.95	\$2,860.36	\$3,566.78	\$4,420.00	\$5,442.22
	1"	\$68.10	\$67.38	\$66.43	\$65.10	\$63.40	\$61.34
	1-1/2"	\$136.20	\$123.99	\$117.25	\$110.21	\$102.94	\$95.54
	2"	\$217.93	\$273.59	\$303.83	\$335.37	\$367.87	\$400.94
	3"	\$476.74	\$702.08	\$844.46	\$1,009.54	\$1,199.40	\$1,415.83
	4"	\$858.11	\$1,454.50	\$1,876.88	\$2,407.23	\$3,068.24	\$3,885.70
RESALE	6"	\$1,770.72	\$2,637.68	\$3,190.76	\$3,836.41	\$4,584.02	\$5,442.22
	5/8-3/4"	\$39.76	\$38.14	\$37.02	\$35.72	\$34.25	\$32.63
	1"	\$66.27	\$66.17	\$65.53	\$64.51	\$63.11	\$61.34
	1-1/2"	\$132.55	\$121.76	\$115.67	\$109.21	\$102.48	\$95.54
	2"	\$212.07	\$268.66	\$299.72	\$332.33	\$366.20	\$400.94
	3"	\$463.93	\$689.45	\$833.03	\$1,000.42	\$1,193.97	\$1,415.83
	4"	\$835.07	\$1,428.35	\$1,851.51	\$2,385.49	\$3,054.35	\$3,885.70
	6"	\$1,723.14	\$2,590.21	\$3,147.60	\$3,801.73	\$4,563.25	\$5,442.22
	12"	\$10,179.86	\$19,342.88	\$26,426.94	\$35,886.55	\$48,429.14	\$64,936.76
18"	\$18,923.76	\$29,243.64	\$36,031.28	\$44,125.22	\$53,701.25	\$64,936.76	

¹ Rate includes Single Family and Multi-Family Residential Uses

² Rate includes Institutional and Inter-Departmental Uses

**CHECK OUT THE WATER RATE CALCULATOR AT:
WWW.CASITASWATER.ORG/YOUR-WATER/WATER-RATE**



1055 Ventura Avenue
Oak View, California 93022

www.casitaswater.org
(805) 649-2251



NOTICE OF PUBLIC HEARING FOR PROPOSED RATE CHANGES

The Board of Directors of the Casitas Municipal Water District will hold a public hearing to consider a proposed five-year schedule of increases to the District's water charges.

How can I participate?

- **Call** If you have any questions about how proposed water rates will affect your bill, please contact District staff at (805) 649-2251. Para información en Español, llame al (805) 649-2251.
- **Write** If you wish to protest any of the water rate changes, please submit a written protest per the instructions below.
- **Attend** the public hearing scheduled for **October 11, 2023 at 5:00 p.m.** at Casitas Municipal Water District, Board Room, 1055 Ventura Avenue, Oak View, CA 93022.

How do I protest?

Formal protests must be received **in writing and signed** no later than the close of the public hearing on **October 11, 2023** and may be hand delivered during the hearing, mailed or delivered to Casitas Municipal Water District, Attn: Clerk to the Board, 1055 Ventura Avenue, Oak View, CA, 93022. Written protests must: 1) provide the name of the protestor, 2) identify if they are the owner or tenant of the property, 3) identify the service address, 4) provide either the water account number or assessor's parcel number, and 5) be legible. Protests are public records. Protests submitted by email or other electronic means do not count as formal written protests. Oral comments do not qualify as formal protest unless accompanied by a written protest. Only one protest per affected parcel will be considered.

Pursuant to California Government Code 53759, there is a 120-day statute of limitations for challenging any new, increased, or extended fees. This statute of limitations applies to the water service rates proposed in this notice.

**CASITAS MUNICIPAL WATER DISTRICT
MEMORANDUM**

TO: BOARD OF DIRECTORS
FROM: MICHAEL FLOOD, GENERAL MANAGER
SUBJECT: EMERGENCY GENERATOR AT RINCON PUMP PLANT, SPECIFICATION NO. 21-447, CHANGE ORDER NO. 1
DATE: 07/26/2023

RECOMMENDATION:

- Authorize the General Manager to sign Change Order No. 1 for Emergency Generator at Rincon Pump Plant, Specification No. 21-447, to Taft Electric Company in the amount of \$153,204.00.

BACKGROUND:

The Emergency Generator at Rincon Pump Plant, Specification No. 21-447, includes installation of an emergency generator to mitigate power loss during natural disasters or power outages. The Board awarded the Rincon Pump Plant Emergency Generator to Taft Electric Company (Taft) on June 22, 2022, in the amount of \$1,551,500.00.

During the equipment submittal process, it was found the approved generator has a larger platform than originally designed, which requires a redesign of the concrete foundation. Modifications include increasing the pad and adding a retaining wall at the site. Taft submitted a change order in the amount of \$153,204.00 for the additional scope. The table below shows the contract amount and change order.

Description	Amount
Original Contract	\$1,551,500
Change Order No. 1	\$153,204
TOTAL	\$1,704,704
Change Orders as percentage	9.8%

The emergency generator is a long lead item and the estimate procurement time is two years; the current expected delivery date is July 2024.

FUNDING SOURCE:

The budget for fiscal year 2023-24 includes \$250,000 for the project. FEMA reimbursement for 75 percent of project costs is requested on a quarterly basis.

Attachment:

- Change Order No.1 Request



CHANGE ORDER #1

July 26, 2023

PROJECT: Emergency Generator at Rincon Pump Plant Specification 21-447
CONTRACTOR: Taft Electric Company
ADDRESS: 1694 Eastman Ave., Ventura CA 93003

ITEM	DESCRIPTION OF WORK	TOTAL
1	<ul style="list-style-type: none"> COR 1.1 related to earthwork, backfill, and subdrain portion for added CMU retaining wall – Includes mass excavation into existing hillside, 4" perforated PVC subdrain with filter fabric, excavation for new foundation wall with stem wall, backfill. Concrete CMU wall foundation - Place and finish foundation CMU wall masonry - Install new CMU retaining wall. Haul off and disposal of all earth spoils generated by new CMU retaining wall. Generator pad size increased by approximately 237 SF due to generator platforms. 	\$ 153,204.00

TOTAL AMOUNT OF CHANGE ORDER NO. 1 \$153,204.00

ORIGINAL CONTRACT AMOUNT \$1,551,500.00

PREVIOUS APPROVED CHANGE ORDER AMOUNT \$ 0.00

NEW CONTRACT AMOUNT \$1,704,704.00

EXTENSION OF CONTRACT TIME (N/A) DAYS

CASITAS MUNICIPAL WATER DISTRICT

By: _____

MICHAEL L. FLOOD
GENERAL MANAGER

DATE: _____

TAFT ELECTRIC COMPANY

By: _____

DATE: _____

Taft Electric
 1694 Eastman Avenue
 Ventura, California 93003
 Phone: (805) 642-0121

Project: 20-2346 – Emergency Generator at Rincon Pump Plant
 1892 Casitas Vista Rd Ventura, California 93001

Change Order Request #001R3: GENERATOR PAD CHANGE/RETAINING WALL/ELECTRICAL CHANGES

TO:	Casitas Municipal Water District 1055 N Ventura Ave Oak View California, 93022	FROM:	Taft Electric Company 1694 Eastman Avenue Ventura California, 93003
PCO NUMBER/REVISION:		CONTRACT:	Emergency Generator at Rincon Pump Plant
REQUEST RECEIVED FROM:		CREATED BY:	Brian Stamper (Taft Electric Company)
STATUS:	Pending - In Review – NOT PROCEEDING	CREATED DATE:	3/16/23
REFERENCE:	RFI 009	FIELD CHANGE:	No
SCHEDULE IMPACT: Calendar Days		LOCATION:	
		TOTAL AMOUNT:	\$153,204.00

CHANGE REASON: Design Development

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

This change proposal is based on the usual cost elements such as labor, materials, and markup and does not include any amounts for impacts such as interference, trade stacking, disruptions, rescheduling, changes in the sequence of work, delays, and/or associated acceleration costs. We expressly reserve our right to submit our request for any of these items should we be faced with performing work under any of these conditions. This cost proposal supersedes all previously submitted cost proposals relating to this same work. The work of other trades which may be required to complete this change order is not part of this proposal.

Due to extreme volatility with commodity pricing & markets, quoted prices are good for no more than 30 days from date of RFI or proposal and may be repriced if approval takes longer and/or vendor quote expires. In order to lock pricing on certain items, an order must be placed within the timeframe allowed by the quoting vendor. Future extreme fluctuations in material/commodity pricing & availability are outside of the control of Taft and may require future price adjustments.

Qualifications/Exclusions:

Price includes changes to the following:

1. All work to be done during normal working hours. No overtime or premium time is included.
2. DJS COR 1.1 related to EARTHWORK, BACKFILL, AND SUBDRAIN PORTION FOR ADDED CMU RETAINING WALL - Includes mass excavation into existing hillside, 4" perforated PVC subdrain with filter fabric, excavation for new foundation wall with stem wall, backfill.
3. DJS COR 1.2 for CONCRETE CMU WALL FOUNDATION - Place and finish foundation
4. DJS COR 1.3 for CMU WALL MASONRY - Install new CMU retaining wall.
5. DJS COR 1.4 for HAULOFF AND DISPOSAL OF ALL EARTH SPOILS GENERATED BY NEW CMU RETAINING WALL
6. DJS COR 3 for Generator pad size increased by approximately 237 SF due to generator platforms.
7. Excludes waterproofing of masonry block and shoring of existing structures, ie utility poles on berm.
8. Excludes any additional permit or fees if required by utility to excavate berm.
9. Additional grounding and electrical changes shown are included.

ATTACHMENTS:

See Attachments

Job ID: 20-2346 BGS CORS
 Project: CASITAS CORS



Summary Cost Codes Report

Vendor: COST		Labor Level: LABOR 1		15 Mar 2023 16:36:24					
Cost Code	CC 220, UG FEEDERS	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
		180.00	FT			0.00% of Job Total	0.0700	1.000	30.16% of Job Total
10061	PVC SCH 40 1 1/2	-20.00	FT				0.0800	1.000	12.60
10062	PVC SCH 40	20.00	FT				0.1600	1.000	-1.60
10066	PVC SCH 40	40.00	FT				0.1660	1.000	3.20
10082	PVC SCH 40 10' LAID IN TRENCH LBR.	2.00	EA				0.3200	1.000	6.64
20003	PVC SCH 40 90-DEG ELBOW	2.00	EA				1.0000	1.000	0.64
20009	PVC SCH 40 90-DEG ELBOW	2.00	EA				0.2000	1.000	2.00
30261	PVC COUPLING	2.00	EA				0.8000	1.000	0.40
30267	PVC COUPLING	4.00	EA				0.2000	1.000	3.20
30303	PVC FEMALE ADAPTER	2.00	EA				0.2000	1.000	0.40
30309	PVC FEMALE ADAPTER	4.00	EA				0.8000	1.000	3.20
Cost Code CC 220, UG FEEDERS totals:						\$0.00			30.68

Cost Code	CC 231, EMT FEEDERS	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
		10.00	FT			0.00% of Job Total	0.3000	1.000	19.27% of Job Total
10009	GRC	4.00	EA				1.4500	1.000	3.00
10223	CONDUIT CUT & THREAD	8.00	EA				0.8000	1.000	5.80
40124	LOCKNUT	4.00	EA				1.1000	1.000	6.40
40230	GROUNDING BUSHING								4.40
Cost Code CC 231, EMT FEEDERS totals:						\$0.00			19.60

Cost Code	CC 234, OCAL FEEDERS	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
		10.00	FT			0.00% of Job Total	0.3800	1.000	3.74% of Job Total
10134	PVC COATED GRC 40MIL								3.80
Cost Code CC 234, OCAL FEEDERS totals:						\$0.00			3.80

Cost Code	CC 310, UG BRANCH	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
		-320.00	FT			0.00% of Job Total	0.0600	1.000	-16.02% of Job Total
10060	PVC SCH 40	10.00	FT				0.1200	1.000	-19.20
10128	PVC COATED GRC 40MIL	4.00	EA				0.2500	1.000	1.20
40118	LOCKNUT	2.00	EA				0.3500	1.000	1.00
40224	GROUNDING BUSHING								0.70
Cost Code CC 310, UG BRANCH totals:						\$0.00			3.80

Taft Electric Company
 1694 Eastman Avenue
 Ventura, CA 93003
 Phone: 805-642-0121
 Web: www.taftelectric.com

Cost Code CC 310, UG BRANCH totals: \$0.00 -16.30

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	0.88% of Job Total
10217	1 1/4	CONDUIT CUT & THREAD	2.00	EA				0.4500	1.000	0.90	

Cost Code CC 330, CEILING BRANCH totals: \$0.00

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	23.49% of Job Total
70178	4/0	BARE CU (STR)	140.00	FT				0.0350	1.000	4.90	
850215	4/0	CROSS SPLICE CADWELD	10.00	EA				1.9000	1.000	19.00	

Cost Code CC 370, GROUNDING totals: \$0.00

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	-6.87% of Job Total
70029	12	THHN/THWN CU (SOL)	-1,420.00	FT				0.0060	1.000	-8.52	
70035	8	THHN/THWN CU (STR)	170.00	FT				0.0090	1.000	1.53	

Cost Code CC 400, BRANCH WIRE 600V totals: \$0.00 -6.99

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	12.92% of Job Total
70039	2.	THHN/THWN CU (STR)	-90.00	FT				0.0170	1.000	-1.53	
70040	1.	THHN/THWN CU (STR)	600.00	FT				0.0190	1.000	11.40	
70041	1/0	THHN/THWN CU (STR)	30.00	FT				0.0220	1.000	0.66	
70044	4/0	THHN/THWN CU (STR)	90.00	FT				0.0290	1.000	2.61	

Cost Code CC 410, FEEDER WIRE 600V totals: \$0.00

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	32.44% of Job Total
110021	4/0	5KV XLP SHIELD CABLE	50.00	FT				0.0360	1.000	1.80	
110022	250	5KV XLP SHIELD CABLE	150.00	FT				0.0480	1.000	7.20	
310826		#4/0 5KV HV TERMINATION	8.00	EA				3.0000	1.000	24.00	

Cost Code CC 420, MEDIUM VOLTAGE WIRE totals: \$0.00

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	0.00% of Job Total
110021	4/0	5KV XLP SHIELD CABLE	50.00	FT							
110022	250	5KV XLP SHIELD CABLE	150.00	FT							
310826		#4/0 5KV HV TERMINATION	8.00	EA							

Cost Code CC B50, MV CABLE totals: \$2,743.00

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	0.00% of Job Total
10061	1 1/2	PVC SCH 40	180.00	FT							

Cost Code CC M11, SCHD 40 PVC FEEDER

Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result	8.58% of Job Total
10061	1 1/2	PVC SCH 40	180.00	FT							

Taft Electric Company

1694 Eastman Avenue
Ventura, CA 93003

Phone: 805-642-0121
Web: www.taftelectric.com

Cost Code CC M11, SCHD 40 PVC FEEDER		8.58% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
10062	2	PVC SCH 40	-20.00	FT	3.1818	1.000	-63.64			
10066	4	PVC SCH 40	20.00	FT	8.7110	1.000	174.22			
10082	4	PVC SCH 40 10' LAID IN TRENCH LBR.	40.00	FT	8.7110	1.000	348.44			
Cost Code CC M11, SCHD 40 PVC FEEDER totals:					\$939.81					0.00
Cost Code CC M22, OCAL CONDUIT FEEDER		5.92% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
10134	4	PVC COATED GRC 40MIL	10.00	FT	64.7772	1.000	647.77			
Cost Code CC M22, OCAL CONDUIT FEEDER totals:					\$647.77					0.00
Cost Code CC M31, SCHD 40 PVC BRANCH		-5.95% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
10060	1 1/4	PVC SCH 40	-320.00	FT	2.4974	1.000	-799.16			
10128	1 1/4	PVC COATED GRC 40MIL	10.00	FT	14.8186	1.000	148.19			
Cost Code CC M31, SCHD 40 PVC BRANCH totals:					-\$650.97					0.00
Cost Code CC M35, EMT CONDUIT BRANCH		3.51% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
10009	4	GRC	10.00	FT	38.4384	1.000	384.38			
10217	1 1/4	CONDUIT CUT & THREAD	2.00	EA	0.0000	1.000	0.00			
10223	4	CONDUIT CUT & THREAD	4.00	EA	0.0000	1.000	0.00			
Cost Code CC M35, EMT CONDUIT BRANCH totals:					\$384.38					0.00
Cost Code CC M36, EMT SS FITT BRANCH		3.50% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
40118	1 1/4	LOCKNUT	4.00	EA	1.3693	1.000	5.48			
40124	4	LOCKNUT	8.00	EA	42.6075	1.000	340.86			
40224	1 1/4	GROUNDING BUSHING	2.00	EA	1.7892	1.000	3.58			
40230	4	GROUNDING BUSHING	4.00	EA	8.3947	1.000	33.58			
Cost Code CC M36, EMT SS FITT BRANCH totals:					\$383.49					0.00
Cost Code CC M40, GRC CONDUIT BRANCH		1.93% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
20009	4	PVC SCH 40 90-DEG ELBOW	2.00	EA	81.2584	1.000	162.52			
30267	4	PVC COUPLING	4.00	EA	5.4826	1.000	21.93			
30309	4	PVC FEMALE ADAPTER	4.00	EA	6.7274	1.000	26.91			
Cost Code CC M40, GRC CONDUIT BRANCH totals:					\$211.36					0.00
Cost Code CC M42, OCAL CONDUIT BRANCH		0.21% of Job Total			0.00% of Job Total					
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
20003	1 1/4	PVC SCH 40 90-DEG ELBOW	2.00	EA	9.7444	1.000	19.49			

Cost Code CC M42, OCAL CONDUIT BRANCH			0.21% of Job Total			0.00% of Job Total				
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
30261	1 1/4	PVC COUPLING	2.00	EA	0.6965	1.000	1.39			
30303	1 1/4	PVC FEMALE ADAPTER	2.00	EA	1.1922	1.000	2.38			

Cost Code CC M42, OCAL CONDUIT BRANCH totals: \$23.27 0.00

Cost Code CC M70, COPPER THHN FEEDER			24.72% of Job Total			0.00% of Job Total				
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
70039	2.	THHN/THWN CU (STR)	-90.00	FT	3.2373	1.000	-291.36			
70040	1.	THHN/THWN CU (STR)	600.00	FT	3.5238	1.000	2,114.26			
70041	1/0	THHN/THWN CU (STR)	30.00	FT	4.3142	1.000	129.43			
70044	4/0	THHN/THWN CU (STR)	90.00	FT	8.3720	1.000	753.48			

Cost Code CC M70, COPPER THHN FEEDER totals: \$2,705.81 0.00

Cost Code CC M80, COPPER THHN BRANCH			-2.11% of Job Total			0.00% of Job Total				
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
70029	12	THHN/THWN CU (SOL)	-1,420.00	FT	0.2565	1.000	-364.28			
70035	8	THHN/THWN CU (STR)	170.00	FT	0.7838	1.000	133.25			

Cost Code CC M80, COPPER THHN BRANCH totals: -\$231.03 0.00

Cost Code CC M92, GROUNDING			34.62% of Job Total			0.00% of Job Total				
Item #	Size	Description	Quantity	U/M	Mat Unit	M-Fact	Mat Result	Lab Unit	L-Fact	Lab Result
70178	4/0	BARE CU (STR)	140.00	FT	9.4322	1.000	1,320.50			
850215	4/0	CROSS SPLICE CADWELD	10.00	EA	246.9800	1.000	2,469.80			

Cost Code CC M92, GROUNDING totals: \$3,790.30 0.00

Job totals: \$10,947.20 101.73



GENERAL CONTRACTING, INC
COMMERCIAL CONCRETE SPECIALISTS

4615 Industrial Street Unit 1G
Simi Valley, CA 93063
P: (805)584-2714 F: (805)584-2023
C/L #776402
DIR#1000012744

CHANGE ORDER REQUEST

Date	5/23/23
DJS COR#	3R

General Contractor: Taft Electric

Job: Rincon Pump
Lake Casitas, CA

DJS#774-22

Description:	Additional cost to add 237 sqft of additional concrete pad, including 14.5 yds concrete, 25 tons excavation, and 1,980 lbs of rebar.
	***Includes projected July 1st union labor rate increases and ready mix company increases.
	Proposal

LABOR CHARGES

DATE	CLASSIFICATION	DESCRIPTION	NO.	TYPE	HRS	TOT. HRS	RATE	TOTAL
	Carpenter Foreman	Coordinate, supervise, layout, schedule	1	ST	8.00	8.00	\$ 87.43	\$ 699.44
	Labor / Operator	Excavate for new pad subgrade	1	ST	4.00	4.00	\$ 87.43	\$ 349.72
	Labor / Operator	Move spoils from excavation	1	ST	2.00	2.00	\$ 87.43	\$ 174.86
	Labor	Excavation of 14.5 yards neat tons for foundation - shovel	1	ST	4.00	4.00	\$ 76.06	\$ 304.24
	Labor	Grade check	1	ST	4.00	4.00	\$ 76.06	\$ 304.24
	Carpenter Journeyman	Place 1,980 lbs reinforcing steel	2	ST	6.00	12.00	\$ 83.95	\$ 1,007.40
	Carpenter Journeyman	Formwork - 14 lft	1	ST	2.00	2.00	\$ 83.95	\$ 167.90
	Cement Finisher	Place and finish 14.5 yards concrete	1	ST	8.00	8.00	\$ 80.88	\$ 647.04
	Labor	Place and finish 14.5 yards concrete - pull hose	1	ST	4.00	4.00	\$ 76.06	\$ 304.24
				ST		0.00	\$ -	\$ -
								\$ 3,959.08

EQUIPMENT & MATERIALS

DATE	CLASSIFICATION	DESCRIPTION	QTY	RATE	AMOUNT
	Equipment	DJS Skidsteer (day rate): foundation excavation	0.50	\$ 550.00	\$ 275.00
	Equipment	DJS Excavator (day rate): foundation excavation	0.25	\$ 550.00	\$ 137.50
	Materials	Reinforcing steel: 1980 lbs additional reinforcing steel	1,980.00	\$ 0.74	\$ 1,465.20
	Materials	Associated Ready Mix: 14.5 yards concrete (with waste, AB219 fees, return fees, standby, etc)	14.50	\$ 219.50	\$ 3,182.75
	Equipment	JLS Pump: concrete pump (1 day)	0.25	\$ 1,844.00	\$ 461.00
	Equipment	J Meza: haul off 25 tons of spoils with 20% fluff - 3 loads	3.00	\$ 337.33	\$ 1,011.99
	Equipment	J Meza: dump fees	3.00	\$ 100.00	\$ 300.00
TOTAL MATERIALS					\$ 6,833.44

SUMMARY

TOTAL LABOR COSTS	\$ 3,959.08
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	Overhead and Profit	10%	\$395.91
			Sub Total: \$ 4,354.99
TOTAL MATERIAL & EQUIP. COSTS			\$ 6,833.44
	Overhead and Profit	10%	\$ 683.34
			Sub Total: \$ 7,516.78
TOTAL FOR LABOR, MATERIAL AND EQUIPMENT			\$ 11,871.77
	Bond	0%	\$0.00
CHANGE ORDER TOTAL		\$	11,871.77

TAFT ELECTRIC CHANGE ORDER REQUEST

PROJECT: CASITAS EM GENERATOR JOB# 20-2346

TEC COR#: 001C

CUST RFP#: RFI 9

COR DESCRIPTION: RFI 009 GENERATED DRAWING CHANGES

DATE: 3/15/2023

ADDITIONAL GRADING, CONCRETE FOUNDATION, RETAINING WALL, HAULOFF

TAKE OFF		
DESCRIPTION	MATERIAL	HOURS
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
	\$0.00	0.00
TOTAL	\$0.00	0.00

LABOR EXPENSES			
TYPE	HOURS	RATE	AMOUNT
CREW RATE	0.00	\$90.10	\$0.00
	0.00	\$0.00	\$0.00
	0.00	\$0.00	\$0.00
	0.00	\$0.00	\$0.00
	0.00	\$0.00	\$0.00
	0.00	\$0.00	\$0.00
SUBTOTAL LABOR			\$0.00
0.00%			\$0.00
0.00%			\$0.00
0.00%			\$0.00
0.00%			\$0.00
0.00%			\$0.00
0.00%			\$0.00
0.00%			\$0.00
0.00%			\$0.00
SUBTOTAL LABOR			\$0.00
10.00%	OVERHEAD & PROFIT		\$0.00
TOTAL LABOR			\$0.00

TAKEOFF MATERIAL		
%	DESCRIPTION	AMOUNT
3.00%	CONSUMABLES	\$0.00
7.75%	SALES TAX	\$0.00
3.00%	MATERIAL HANDLING	\$0.00
0.00%		\$0.00
SUBTOTAL MATERIAL		\$0.00
10.00%	OVERHEAD & PROFIT	\$0.00
TOTAL TAKEOFF MATERIAL		\$0.00

DIRECT JOB EXPENSES		
%	DESCRIPTION	AMOUNT
0.00%	AS BUILTS / O&M'S	\$0.00
0.00%	PERMIT FEES	\$0.00
0.00%	ESTIMATING	\$0.00
0.00%	CAD / DRAFTING	\$0.00
0.00%	REPRODUCTION COSTS	\$0.00
0.00%	FUEL SURCHARGE	\$0.00
0.00%	EQUIPMENT RENTAL	\$0.00
0.00%	CRANE / FORKLIFT	\$0.00
0.00%	JOB TRUCK	\$0.00
0.00%	MANLIFTS	\$0.00
1.50%	ADDITIONAL SURVEY	\$1,621.42
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
0.00%		\$0.00
3.00%	WARRANTY	\$3,242.85
0.00%		\$0.00
SUBTOTAL DJE		\$4,864.27
10.00%	OVERHEAD & PROFIT	\$486.43
TOTAL DJE		\$5,350.70

QUOTED MATERIAL		
VENDOR	DESCRIPTION	AMOUNT
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
SUBTOTAL QUOTES		\$0.00
8.25%	SALES TAX	\$0.00
3.00%	MATERIAL HANDLING	\$0.00
0.00%		\$0.00
0.00%		\$0.00
SUBTOTAL QUOTES		\$0.00
10.00%	OVERHEAD & PROFIT	\$0.00
TOTAL QUOTES		\$0.00

SUBCONTRACTORS		
VENDOR	DESCRIPTION	AMOUNT
DJS	1.1R-ADD'L EARTHWORK AND PREP FOR	\$0.00
DJS	CMU RETAINING WALL	\$21,572.14
DJS	1.2R-CMU RETAINING WALL FOUNDATION	\$37,562.36
DJS	1.3R-CMU MASONRY WALL	\$24,143.03
DJS	1.4R-HAULOFF/DISPOSE OF SPOILS	\$19,670.00
		\$0.00
SUBTOTAL SUBCONTRACTS		\$102,947.53
5.00%	OVERHEAD & PROFIT	\$5,147.38
TOTAL SUBCONTRACTS		\$108,094.91

CHANGE REQUEST SUMMARY		
	TAKEOFF MATERIAL \$0.00	
	QUOTED MATERIAL \$0.00	
	SUBCONTRACTORS \$108,094.91	
	LABOR EXPENSES \$0.00	
	DIRECT JOB EXPENSES \$5,350.70	
SUBTOTAL CHANGE REQUEST		\$113,445.60
0.00%		\$0.00
0.00%		\$0.00
1.00%	BOND COSTS	\$1,134.46
CHANGE PROPOSAL TOTAL		\$114,580



GENERAL CONTRACTING, INC
COMMERCIAL CONCRETE SPECIALISTS

4615 Industrial Street Suite # 1G
Simi Valley CA 93063
Phone # 805 584-2714 Fax # 805 584-2023
- DIR#100012744 - SBE#2004935
C/L # 776402 A,B,C-8

Taft Electric

3/8/23

Rincon Pump
Lake Casitas, CA

Change Order Request #1R

Reference: Added Retaining Wall

We hereby request a Change Order to our contract by reason of the following:

Additional retaining wall scope:

- Mass excavation to cut back existing slope for new retaining wall
- Installation of 4" perforated PVC subdrain and filter fabric per detail 4 on sheet C-03
- Backfill of new retaining wall with ¾" drain rock wrapped in filter fabric, with top layer recompacted existing soils
- Excavate for new retaining wall foundation with stem wall
- Place and finish of reinforced retaining wall foundation per detail D-D on S-05
- Installation of 93 lft of 5'4 max 8" standard grey medium weight precision block per detail DD on sheet S-05
- Haul off of earth spoils

*Excludes waterproofing, shoring of existing structures, locating/protecting of existing utilities

This change order has INCREASED our contract by:

Mass Excavation, Backfill, Subdrain:	\$21,572.14
CMU Concrete Foundation:	\$37,562.36
CMU Masonry:	\$24,143.03
Haul Off Earth Spoils:	\$19,670.00
<u>Total Cost:</u>	\$102,947.53

Please respond to this change order at your earliest convenience so that we can proceed with scheduling this work. you have any questions or concerns, please contact us.

Sincerely,
DJS Team



GENERAL CONTRACTING, INC
COMMERCIAL CONCRETE SPECIALISTS

4615 Industrial Street Unit 1G
Simi Valley, CA 93063
P: (805)584-2714 F: (805)584-2023
C/L #776402
DIR#1000012744

CHANGE ORDER REQUEST

Date	5/23/23
DJS COR#	1.1R

General Contractor: Taft Electric

Job: Rincon Pump
Lake Casitas, CA

DJS#774-22

Description:	Additional cost to add 93 lft of 5'4 max 8" standard grey medium weight precision block per detail D-D on S-05.
	Includes mass excavation into existing hillside, 4" perforated PVC subdrain with filter fabric, excavation for new foundation wall with stem wall, backfill, place and finish foundation, install new wall, and haul off earth spoils
	***Includes projected July 1st union labor rate increases and ready mix company increases.
	CHANGE ORDER FOR EARTHWORK, BACKFILL, AND SUBDRAIN PORTION:

LABOR CHARGES

DATE	CLASSIFICATION	DESCRIPTION	NO.	TYPE	HRS	TOT. HRS	RATE	TOTAL
	Carpenter Foreman	Coordinate, supervise, layout, schedule	1	ST	24.00	24.00	\$ 87.43	\$ 2,098.32
	Labor / Operator	Mass excavation of 248 tons of existing subgrade to cut hill - operate equipment (skidsteer and excavator)	2	ST	16.00	32.00	\$ 87.43	\$ 2,797.76
	Labor	Mass excavation of 248 tons of existing subgrade to cut hill	3	ST	16.00	48.00	\$ 76.06	\$ 3,650.88
	Labor	Grade check throughout excavation process	1	ST	16.00	16.00	\$ 76.06	\$ 1,216.96
	Labor / Operator	44 tons of 3/4" rock fill placement and backfill - operate equipment	1	ST	16.00	16.00	\$ 87.43	\$ 1,398.88
	Labor	45 tons of 3/4" rock fill placement and backfill	2	ST	16.00	32.00	\$ 76.06	\$ 2,433.92
	Labor	Installation of drainage system	2	ST	8.00	16.00	\$ 76.06	\$ 1,216.96
				ST		0.00	\$ -	\$ -
				ST		0.00	\$ -	\$ -
								\$ 14,813.68

EQUIPMENT & MATERIALS

DATE	CLASSIFICATION	DESCRIPTION	QTY	RATE	AMOUNT
	Equipment	DJS Truck with small tool and fuel allowance	4.00	\$ 80.00	\$ 320.00
	Equipment	DJS Skidsteer (day rate): mass excavation	2.00	\$ 400.00	\$ 800.00
	Equipment	DJS Excavator (day rate): mass excavation	2.00	\$ 400.00	\$ 800.00
	Materials	3/4" rock fill 48 tons	50.00	\$ 33.24	\$ 1,662.00
	Materials	Base under asphalt 14 tons	14.00	\$ 33.24	\$ 465.36
	Equipment	DJS Excavator (day rate): rock placement	1.00	\$ 400.00	\$ 400.00
	Materials	Drainage materials: pipe and fabric 70lft	70.00	\$ 5.00	\$ 350.00
TOTAL MATERIALS					\$ 4,797.36

SUMMARY

TOTAL LABOR COSTS			\$ 14,813.68
	Overhead and Profit	10%	\$1,481.37
			Sub Total: \$ 16,295.05
TOTAL MATERIAL & EQUIP. COSTS			\$ 4,797.36
	Overhead and Profit	10%	\$ 479.74
			Sub Total: \$ 5,277.10
TOTAL FOR LABOR, MATERIAL AND EQUIPMENT			\$ 21,572.14
	Bond	0%	\$0.00
	CHANGE ORDER TOTAL	\$	21,572.14

WESTERN MATERIALS INC.

**25350 Magic Mountain Parkway, Suite 300
Valencia, CA 91355**

INVOICE

DATE	INVOICE #
4/11/2023	23-0272

CUSTOMER
DJS General Contracting, Inc. 4615 Industrial St., Unit 1G Simi Valley, CA 93063

Job Location
Thousand Oaks, CA

PO #	Job #	Job Name	
805		2495 Teller Road	
Delivery Slip #	Scale Ticket #	QUANTITY	DESCRIPTION
180921	80472	25.66 25.66 1 1	3/4" CR WM TRUCK # 05 FUEL SURCHARGE Environmental Fee

Sales Tax (7.25%)	\$26.28
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TOTAL AMOUNT DUE	\$853.68
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TERMS	DUE DATE
Net 30	5/11/2023

TERMS: Please Pay By Due Date. This Invoice is due within 30 days of this Invoice date. A Financial Charge of 1.5% per month may apply for all accounts over 10 days past due date. Buyer is responsible for all attorney fees and other collection costs. Please reference the Scale Ticket Number(s) that you are paying when sending a check. Otherwise, the check will applied to the entire balance; not to the specific invoice & scale ticket number(s).

Phone #	Fax #	E-mail	Web Site
(888) 944-9994		admin@westernmaterials.net	www.westernmaterials.net



GENERAL CONTRACTING, INC
COMMERCIAL CONCRETE SPECIALISTS

4615 Industrial Street Unit 1G
Simi Valley, CA 93063
P: (805)584-2714 F: (805)584-2023
C/L #776402
DIR#1000012744

CHANGE ORDER REQUEST

Date	5/23/23
DJS COR#	1.2R

General Contractor: Taft Electric

Job: Rincon Pump
Lake Casitas, CA

DJS#774-22

Description:	Additional cost to add 93 lft of 5'4 max 8" standard grey medium weight precision block per detail D-D on S-05.
	Includes mass excavation into existing hillside, 4" perforated PVC subdrain with filter fabric, excavation for new foundation wall with stem wall, backfill, place and finish foundation, install new wall, and haul off earth spoils
	***Includes projected July 1st union labor rate increases and ready mix company increases.
	CHANGE ORDER FOR CONCRETE CMU WALL FOUNDATION:

LABOR CHARGES

DATE	CLASSIFICATION	DESCRIPTION	NO.	TYPE	HRS	TOT. HRS	RATE	TOTAL
	Carpenter Foreman	Coordinate, supervise, layout, schedule	1	ST	48.00	48.00	\$ 87.43	\$ 4,196.64
	Labor / Operator	Excavate for new foundation: 5'8" wide 1' thick with 1'2" key footing approx 1' below grade	1	ST	12.00	12.00	\$ 87.43	\$ 1,049.16
	Labor / Operator	Move spoils from excavation	1	ST	8.00	8.00	\$ 87.43	\$ 699.44
	Labor	Excavation of 154 neat tons for foundation - shovel	2	ST	16.00	32.00	\$ 76.06	\$ 2,433.92
	Labor	Grade check	1	ST	16.00	16.00	\$ 76.06	\$ 1,216.96
	Carpenter Journeyman	Fabricate and place 6,921 lbs reinforcing steel	3	ST	16.00	48.00	\$ 83.95	\$ 4,029.60
	Carpenter Journeyman	Formwork for rebar template	2	ST	4.00	8.00	\$ 83.95	\$ 671.60
	Cement Finisher	Place and finish 34 yards concrete	2	ST	8.00	16.00	\$ 80.88	\$ 1,294.08
	Labor	Place and finish 34 yards concrete - pull hose	2	ST	8.00	16.00	\$ 76.06	\$ 1,216.96
	Carpenter Journeyman	Strip rebar template formwork	1	ST	2.00	2.00	\$ 83.95	\$ 167.90
				ST		0.00	\$ -	\$ -
								\$ 16,976.26

EQUIPMENT & MATERIALS

DATE	CLASSIFICATION	DESCRIPTION	QTY	RATE	AMOUNT
	Equipment	DJS Truck with small tool and fuel allowance	4.00	\$ 80.00	\$ 320.00
	Equipment	DJS Skidsteer (day rate): foundation excavation	1.00	\$ 550.00	\$ 550.00
	Equipment	DJS Excavator (day rate): foundation excavation	2.00	\$ 550.00	\$ 1,100.00
	Materials	Reinforcing steel: 6921 lbs additional reinforcing steel	6,921.00	\$ 0.74	\$ 5,121.54
	Materials	Trucking for reinforcing steel	1.00	\$ 350.00	\$ 350.00
	Materials	Rebar shop drawings for submittal	1.00	\$ 250.00	\$ 250.00
	Materials	Associated Ready Mix: 34 yards concrete (with waste, AB219 fees, return fees, standby, etc)	34.00	\$ 219.50	\$ 7,463.00

Equipment	JLS Pump: concrete pump (1 day)	1.00	\$ 1,844.00	\$ 1,844.00
Materials	Formwork material - 2x4x16 (240 feet)	240.00	\$ 0.72	\$ 172.80
TOTAL MATERIALS				\$ 17,171.34

SUMMARY				
	TOTAL LABOR COSTS			\$ 16,976.26
	Overhead and Profit		10%	\$1,697.63
	Sub Total:			\$ 18,673.89
	TOTAL MATERIAL & EQUIP. COSTS			\$ 17,171.34
	Overhead and Profit		10%	\$ 1,717.13
	Sub Total:			\$ 18,888.47
	TOTAL FOR LABOR, MATERIAL AND EQUIPMENT			\$ 37,562.36
	Bond		0%	\$0.00
	CHANGE ORDER TOTAL			\$ 37,562.36



392 S. Del Norte Blvd., Oxnard, CA 93030
 To place your order, call: 805-485-4155

Job Quote Date: Jul 15, 2022

Customer: DJS CONTRACTING INC
Attn: Lauren Simington

We Are Pleased To Submit The Following Quotation:

JOB QUOTATION

Note: Quotation expires sixty (60) days after job quote date.

See "Acceptance" clause below

Bid Date: Jul 15, 2022

Bid Number: MQ0029890_

Phone #:

Fax #:

Customer #: 46618

PO/JOB #:

Rincon Pump Station - Oak View		1892 Casitas Vista Road, Ventura, CA 93001	
Product Code	Product Description	EST. QTY	Price
66431	66431 - 4000 PSI .50 WCR 1" 3" LINE PUMP	30.00	\$133.50
AB219	AB219 - AB219 FEE PER LOAD	1.00	\$250.00

Please Add Appropriate Sales Tax to all items applicable by State Law.

- 1) Environmental fee shall apply, regardless of size, of \$40.00 Per Load.
- 2) Energy surcharge, regardless of size, will apply of \$50.00 Per Load.
- 3A) A fee based on our current price list will apply to any load delivered less than a full load of 10.00 Cubic Yards.
- 3B) One short load will be allowed daily with a minimum full loads of 2.00 Each.
- 4A) Total minutes allowed for each individual load for waiting and unloading is 4.00 Per Cubic Yard.
- 4B) Additional time per minute will be charged at a rate of \$2.50 Each.
- 4C) Standing time per minute for Prevailing wage jobs will be \$3.50 Each.
- 5) Optional off-site washout (pump jobs only) for an additional \$50.00 Per Load.
- 6A) Buyer must inform Seller if this job is an AB219 prevailing wage job and will incur fee of \$250.00 Per Load.
- 6B) If LCP Tracker is required, please add \$50.00 Per Load.

Escalations: Please add \$ _____ per yard Prices (including any escalations) expire on Dec 31, 2022.

Delivery: All deliveries are subject to availability of materials, trucking and labor. There is no guarantee as to time or rate of delivery. Seller is not responsible for any costs which might be incurred by Buyer due to delays. Please order by mix number. Additional mixes with different cement content and materials will be priced accordingly. Prices subject to change due to drastic cost changes of the major components of concrete.

After Normal Delivery Hours: Concrete delivered between 3 PM and 6 PM weekdays or 6 AM to 3 PM Saturday will be charged an additional \$125.00 per load. Concrete delivered 6 PM to 6 AM weekdays or between 3 PM Saturday and 6 AM Monday will be charged an additional \$1,500.00 service charge, includes 2 trucks. Add \$650 for each additional truck per shift.

Disposal: All full loads returned will be charged \$250.00. All partial loads returned will be charged \$200.00

Plans & Specs: This job quotation is not bid as per plans and specs. The mixes quoted are not warranted for any particular use, purpose, application or with regards to any particular type of soils environment. Concrete is a product made of natural materials, therefore seller cannot be responsible for variations in color, surface discoloration, popouts, variations or variations in the finished product caused by finishing techniques or job site conditions. Buyer's selection of the quoted mix, unless otherwise acknowledged in writing by Seller, is without the advice, consultation, recommendation or suggestion of Seller, and Buyer assumes all risks related to the selection of the quoted mix for any particular application.

Buyer's Duties: Buyer's duties include, but are not limited to, testing and inspecting the concrete, if necessary; provide a safe ingress and egress for the delivery truck(s) as well as a safe work site; and providing a proper washout station. Buyer is responsible for all qualifying testing costs to achieve acceptance of mix designs.

Break Data: Per ASTM C94, Section 6.6: The purchaser shall ensure that the manufacturer (Associated) is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specification requirements. Reports shall be provided on a timely basis.

Temperature: Prices listed are for concrete delivered at the ambient temperature, heating or chilling is an additional itemized charge at buyer's request. **Concrete mix is designed, batched and delivered per ACI 305R-10 and ASTM C94/C94M-18. Concrete that retains workability and does not exceed 120 minutes and or 95 degrees is within tolerance. These standards regarding workability, concrete temperature and time are accepted unless Contractor specifically notifies Supplier in writing.**

Materials: Seller is not obligated to a single source materials unless agreed to in writing. Alternative mixes may be used due to unavailability of quoted materials at market price.

Quality Control: Seller will not participate in any back charges, repairs, replacement costs or remedies without prior opportunity to evaluate concrete placement for quality or performance prior to removal or repair.

Service Charge: Buyer agrees to pay a service charge of 1 1/2 percent per month on any and all invoices which are not paid in full on or before the last day of the month following the date of delivery. Additional charges may apply for orders cancelled or orders placed and then put on hold.

Cancelations: Orders of 150 yards or more canceled within 48 hours of original start time will be charged \$10.00 per yard ordered. Concrete scheduled outside normal business hours will incur a \$2,000.00 fee plus four hours of truck time per truck for orders canceled within 48 hours of scheduled delivery time.

Acceptance: For this job quotation to be effective, we must receive your written acceptance no later than sixty (60) days after the job quote date, otherwise the quotation expires at seller's option. Orders placed on this project constitute acceptance of this agreement.

Public Works Sect. 1720.9 (AB 219): Customer shall notify the Companies if any concrete ordered by Customer is to be delivered to a project that is a public works project as defined in Section 1720.9 of the Labor Code ("AB 219"). Said AB 219 notification shall be made by Customer prior to the first delivery of concrete. If Customer fails to provide the AB 219 notification as required herein, the Customer agrees to pay to the Companies the additional sum of \$250 for each load of concrete provided to the AB 219 project. In addition, Customer agrees to reimburse the Companies for all damages and costs incurred due to Customer's failure to provide timely AB 219 notification to the Companies. These damages and costs shall include, but are not limited to, any fines, penalties, attorney's fees and costs incurred by the Companies.

EPD's: Environmental Product Declarations. Available May 1, 2022. \$250.00 per mix design per project. Please contact your Sales Representative for details.

Buyer Acceptance: _____

Seller Acceptance _____

Name and Title: _____

Date: _____

Sales Agent: Brad Hicks 760-419-9781

Additional \$8 per yard increase since quote (\$4 dec 22, \$4 July 23)
9.5 yds x \$141.5 = \$1344.25
AB219 fee = \$250
Return Fee = \$200 (accrued on every ticket in lieu of \$850 washout)
Standby Time = \$60 (assume 24 mins)
Energy and Envior = \$90
Tax 7.25%
Total = \$2085 / 9.5 = \$219.50

MERLI CONCRETE PUMPING

1230 W. 130TH St. Gardena, California 90247-1582

(310) 323-0404 Fax (310) 327-7690

March 17, 2023

DJS General Contracting
4615 Industrial Street Ste. 1G
Simi Valley, CA. 93063

Job Name / Address:

All Projects

e-mail: djs@djscontracting.com

Attn: Don

We are pleased to quote you our pump rates. Labor is not included and must be added at the amounts listed below.

Trailer Pump 2000:		\$ 50.00 /hour plus	\$ 2.00 /yard
	** \$ 1.75 per foot for pipes and hose over 100 feet	**	
28 Meter	- 92' Boom:	\$ 55.00 /hour plus	\$ 2.00 /yard
32 Meter	- 105' Boom:	\$ 60.00 /hour plus	\$ 2.00 /yard
36 Meter	- 118' Boom:	\$ 70.00 /hour plus	\$ 2.00 /yard
39 Meter	- 138' Boom:	\$ 85.00 /hour plus	\$ 2.25 /yard
47 Meter	- 155' Boom:	\$ 100.00 /hour plus	\$ 2.35 /yard
56 Meter Z	- 181' Boom: 5 Section	\$ 170.00 /hour plus	\$ 3.00 /yard
58 Meter	- 188' Boom:	\$ 170.00 /hour plus	\$ 3.00 /yard
61 Meter	- 197' Boom:	\$ 180.00 /hour plus	\$ 3.00 /yard
65 Meter RZ	- 212' Boom:5 Section	\$ 240.00 /hour plus	\$ 3.75 /yard
28 Meter Z	- 92' Boom 4 Section	\$ 75.00 /hour plus	\$ 2.00 /yard
32 Meter ZZ	- 103' Boom 5 Section	\$ 80.00 /hour plus	\$ 2.00 /yard

4 hour minimum on T.P., 28M, 32M, 5 hour minimum on 32ZZ, 36M,
39M, 47M, 8 hour minimum on 56Z, 58M, 61M, 65M.

LABOR	STRAIGHT TIME	OVERTIME	DOUBLETIME
Operator:	\$ 157.00	\$ 221.00	\$ 261.00
Oiler:	\$ 152.00	\$ 208.00	\$ 249.00

There is a four or eight hour minimum on labor, including set-up, clean-up, and travel time.

One-half hour set-up and one hour wash-out will be charged. On booms 32MZZ and larger, the set-up will be charged one hour.

All set-up and clean-up times are based on normal conditions. Washout time starts when all perishable product (concrete) is out of the boom and hoses.

All overtime will be billed at applicable rates.

Work performed between 4:00 PM and 4:00 AM will be billed at overtime rates on labor.

Travel time will be charged at applicable rates, minimum one hour each way on operator.

Permit fees and related costs will be added to the invoice.

Contractor is required to provide a safe area for pumps to set-up and operate from and also provide a wash-out area.

Oiler is required on 47M and larger or when the operator cannot see the pour from the pump.

A one hour grace period will apply to any mechanical failure prior to any cost or back charge to Merli for loss of time or material. Backup pumps are recommended and available for critical pours at above quoted rates.

Above labor rates are subject to change each year on July 1.

A CARB compliance fee of \$ 40.00 will be added to the invoice.

A 8% environmental surcharge will be applied to the invoice.

We do not accept retention.

This quotation is good for 30 days.

Very truly yours,

Bob Petty
(310) 345-7142

8 hours for pump = \$400

\$2.00 per yard = \$64

8 hours for operator = \$1256

tax 7.25%

total per day \$1844 (includes travel time)

Interstate Rebar, Inc

Price Change

2/28/2023

3/16/23

#4 20-0
150 CMC
152 Cascade
154 Nucor

#3 20-0
280
264

Bar Size	Length		\$ per Bar	Bars pr Ton-Ron's	WT per Bar	Cost pr Ton	Wt pr Ft	Diameter
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20' STOCK								
3	20'-0"		\$ 5.09	270	7.52	1,375.60	0.376	0.375
4	20'-0"		\$ 8.55	154	13.36	1,316.76	0.668	0.500
5	20'-0"		\$ 13.35	96	20.86	1,281.64	1.043	0.625

Bars come in 30'-0" need to be cut to 20'-0" but the price contains the cut cost								
6	20'-0"		\$ 19.83	67	30.04	1,328.37	1.502	0.75
7	20'-0"		\$ 26.98	49	40.88	1,322.06	2.044	0.875

30' STOCK								
4	30'-0"		\$ 12.83	100	20.04	1,282.56	0.668	0.5
5	30'-0"		\$ 20.03	64	31.29	1,281.64	1.043	0.625

Bars come in 60'-0" lengths; need to be cut to 30'-0" but the price contains the cut cost								
6	30'-0"		\$ 29.74	45	45.06	1,338.28	1.502	0.75
7	30'-0"		\$ 40.47	33	61.32	1,335.55	2.044	0.875
8	30'-0"		\$ 52.87	25	80.10	1,321.65	2.67	1.00
9	30'-0"		\$ 67.32	20	102.0	1,346.40	3.4	1.128

\$.69 per lb

tax = \$.74

Pr lb

(Epoxy coating - doubles the cost of regular rebar)

(Our price is our cost + 20%)

Tie Wire Box 16.5 Gauge	\$110.00	(20 rolls pr box-40 lbs)
Roll of Tire Wire	\$5.50	(2 lb ea roll)
Dobies CCD250 1-1/2x2x2-1/2	\$0.30	Pr bag 64 pc)
CCD300 2-1/2x3x3-1/2x4	\$0.45	pallet
CDD500 3x4x5	\$0.65	pallet
CWD200	\$0.40	(80 pr bag)
CWD300	\$0.50	pallet

Tower Chairs

PTC - (box=100)(275=.57; 300=.58; 325=.58; 350=.61; 375=.61)

Plastic Chairs

OG200	\$0.52	(box 400)
OG250	\$0.55	(box 350)
OG300	\$0.60	(box 288)
EZ Lok Wheel 3"PLW300/4HD	\$1.82	(box 50)
EZ Lok Wheel 4"PLW400/4HD	\$2.20	

Space Wheels 1-1/2" = 1 box 138.62; PSW300 = 3" = .85 ea OG=On Grade

Price for Cages=Wt x \$1.50 a lb + Tax

\$1.25 for rush orders

\$1.45 for Taft

Accessories in volume add 20% off

our list cost

There is no CCD200 - use CCD250

Bend/Cut Prices

Cut Charge-straight	\$0.66
Rt Angles-Cut & Bend	\$0.69
Hoops	\$0.74
Stirrups/Ties	\$0.74
Spiral	\$0.74

1 ton of #4 = 150 pc

Cascade	1 ton	152 pc
CMC	1 ton	150 pc
Nucor	1 ton	154 pc

Epoxy Coated

#3 20-0	\$19.90
#4 20-0	\$18.64
#4 30-0	\$28.05
#5 20-0	\$29.20
#6 20-0	\$42.00

Epoxy Spray Paint	\$15.00
Box Epoxy Tie Wire	\$ 200.00
1 roll Epoxy Tie Wire	\$ 10.00

11/15/21 \$1.50 a lb for Cut Epoxy



GENERAL CONTRACTING, INC
COMMERCIAL CONCRETE SPECIALISTS

4615 Industrial Street Unit 1G
Simi Valley, CA 93063
P: (805)584-2714 F: (805)584-2023
C/L #776402
DIR#1000012744

CHANGE ORDER REQUEST

Date	5/23/23
DJS COR#	1.3R

General Contractor: Taft Electric

Job: Rincon Pump
Lake Casitas, CA

DJS#774-22

Description:	Additional cost to add 93 lft of 5'4 max 8" standard grey medium weight precision block per detail D-D on S-05.
	Includes mass excavation into existing hillside, 4" perforated PVC subdrain with filter fabric, excavation for new foundation wall with stem wall, backfill, place and finish foundation, install new wall, and haul off earth spoils
	***Includes projected July 1st union labor rate increases and ready mix company increases.
	CHANGE ORDER FOR CONCRETE CMU WALL MASONRY:

LABOR CHARGES

DATE	CLASSIFICATION	DESCRIPTION	NO.	TYPE	HRS	TOT. HRS	RATE	TOTAL
	Carpenter Foreman	Coordinate, supervise, layout, schedule	1	ST	48.00	48.00	\$ 87.43	\$ 4,196.64
	Bricklayer Foreman	Place and grout CMU	1	ST	16.00	16.00	\$ 75.21	\$ 1,203.36
	Bricklayer	Place and grout CMU	3	ST	16.00	48.00	\$ 71.73	\$ 3,443.04
	Labor	Place and grout CMU	2	ST	16.00	32.00	\$ 76.06	\$ 2,433.92
				ST		0.00	\$ -	\$ -
				ST		0.00	\$ -	\$ -
				ST		0.00	\$ -	\$ -
								\$ 11,276.96

EQUIPMENT & MATERIALS

DATE	CLASSIFICATION	DESCRIPTION	QTY	RATE	AMOUNT
	Equipment	DJS Truck with small tool and fuel allowance	3.00	\$ 80.00	\$ 240.00
	Materials	8" CMU block	1.00	\$ 2,244.00	\$ 2,244.00
	Materials	Spec Mix	1.00	\$ 270.00	\$ 270.00
	Materials	Associated Ready Mix: 14 yards	14.00	\$ 210.00	\$ 2,940.00
	Materials	Reinforcing steel: 5303 lbs	5,303.00	\$ 0.75	\$ 3,977.25
	Equipment	JLS Pump: concrete pump (1 day)	1.00	\$ 1,000.00	\$ 1,000.00
					\$ -
TOTAL MATERIALS					\$ 10,671.25

SUMMARY			
TOTAL LABOR COSTS			\$ 11,276.96
Overhead and Profit		10%	\$ 1,127.70
		Sub Total:	\$ 12,404.66
TOTAL MATERIAL & EQUIP. COSTS			\$ 10,671.25
Overhead and Profit		10%	\$ 1,067.17

		Sub Total:	\$	11,738.38
	TOTAL FOR LABOR, MATERIAL AND EQUIPMENT		\$	24,143.03
	Bond		0%	\$0.00
	CHANGE ORDER TOTAL		\$	24,143.03



GENERAL CONTRACTING, INC
COMMERCIAL CONCRETE SPECIALISTS

4615 Industrial Street Unit 1G
Simi Valley, CA 93063
P: (805)584-2714 F: (805)584-2023
C/L #776402
DIR#1000012744

CHANGE ORDER REQUEST

Date	5/23/23
DJS COR#	1.4

General Contractor: Taft Electric

Job: Rincon Pump
Lake Casitas, CA

DJS#774-22

Description:	Additional cost to add 93 lft of 5'4 max 8" standard grey medium weight precision block per detail D-D on S-05.
	Includes mass excavation into existing hillside, 4" perforated PVC subdrain with filter fabric, excavation for new foundation wall with stem wall, backfill, place and finish foundation, install new wall, and haul off earth spoils
	***Includes projected July 1st union labor rate increases and ready mix company increases.
	CHANGE ORDER FOR EARTHWORK, BACKFILL, AND SUBDRAIN PORTION:

LABOR CHARGES

DATE	CLASSIFICATION	DESCRIPTION	NO.	TYPE	HRS	TOT. HRS	RATE	TOTAL
	Carpenter Foreman	Coordinate, supervise, layout, schedule	1	ST	8.00	8.00	\$ 87.43	\$ 699.44
	Labor / Operator	Load trucks for haul off: 133 yards mass ex and 92 yards ftg ex = 375.75 tons	1	ST	8.00	8.00	\$ 87.43	\$ 699.44
				ST		0.00	\$ -	\$ -
				ST		0.00	\$ -	\$ -
								\$ 1,398.88

EQUIPMENT & MATERIALS

DATE	CLASSIFICATION	DESCRIPTION	QTY	RATE	AMOUNT
	Equipment	DJS Truck with small tool and fuel allowance	1.00	\$ 80.00	\$ 80.00
	Equipment	J Meza Trucking: 38 loads of dirt	38.00	\$ 337.33	\$ 12,818.54
	Equipment	Dump Fees: 38 loads of dirt	38.00	\$ 100.00	\$ 3,800.00
	Equipment	DJS Skidsteer (onsite already)	0.00	\$ 550.00	\$ -
					\$ -
					\$ -
TOTAL MATERIALS					\$ 16,698.54

SUMMARY

TOTAL LABOR COSTS			\$ 1,398.88
	Overhead and Profit	10%	\$139.89
		Sub Total:	\$ 1,538.77
TOTAL MATERIAL & EQUIP. COSTS			\$ 16,698.54
	Overhead and Profit	10%	\$ 1,669.85
		Sub Total:	\$ 18,368.39
TOTAL FOR LABOR, MATERIAL AND EQUIPMENT			\$ 19,907.16
	Bond	0%	\$0.00
CHANGE ORDER TOTAL			\$ 19,907.16



Meza Trucking

11593 E. Butter Creek Rd.
Moorpark, CA 93021
(805)209-7392
j.meza trucking80@yahoo.com

Invoice #: 015
Invoice Date: 4/14/23
Invoice Due Date: 5/15/23

Bill To:
DJS General Contracting Inc.
4615 Industrial St. #1G
Simi Valley CA. 93063
karen@djscontracting.com

751

Job Address: Las Virgenes water
5320 Jed Smith Rd.
Hidden Hills CA. 91302

Ticket Date:	Truck#:	Ticket#:	Job Information:	Rate:	Hours:	Amount:
4/14/23	M80	9862525	3 Dirt Loads	\$115.00	8.0	\$920.00

Note:
Dump Fee Covered By Don Thru Zelle
To J. Meza Trucking A Total Of \$300.00
For 3 Loads @ \$100.00 Per Load on 4/18/23

SubTotal: \$920.00

Plus 10% Fuel Sur/Charge: \$92.00

Invoice Total: \$1,012.00

Thank You

\$1012 / 3 loads = \$337.33 per load
with \$100 per load dump fee

**CASITAS MUNICIPAL WATER DISTRICT
MEMORANDUM**

TO: BOARD OF DIRECTORS
FROM: MICHAEL FLOOD, GENERAL MANAGER
SUBJECT: WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT, SPECIFICATION NO. 19-411, CHANGE ORDER NO. 5
DATE: 07/26/2023

RECOMMENDATION:

- Authorize the General Manager to sign Change Order No. 5 for West and East Ojai Avenue Pipeline Replacement, Specification No. 19-411, to Burns Pacific Construction in the amount of \$138,234.37.

BACKGROUND AND DISCUSSION:

The West and East Ojai Avenue Pipeline Replacement, Specification No. 19-411, includes installation of approximately 5,610 feet of 8-inch water line in Ojai Avenue in several segments between Bristol Road and Gridley Road.

The Board awarded the contract to Burns Pacific Construction in the amount of \$3,876,088.00 on March 9, 2022. During construction, unforeseen underground conditions necessitated redesign. There were also District-directed change orders issued to the contractor to address existing field conditions, optimize operational needs, and incorporate new customer-requested and funded services. Four change orders were administratively approved as shown in the following table.

West and East Ojai Ave. Pipeline Replacement, Spec No 19-411

Description	Status	Amount	Percentage
Original Contract	Awarded	\$3,876,088.00	-
Change Order No. 1	Administratively approved 10/14/22	\$21,948.77	0.57%
Change Order No. 2	Administratively approved 12/12/22	\$17,687.07	0.46%
Change Order No. 3	Administratively approved 01/27/23	\$41,094.94	1.06%
Change Order No. 4	Administratively approved 04/18/23	\$10,239.56	0.26%
Change Order No. 5	Submitted for Board approval	\$138,234.37	3.57%
Total		\$4,105,292.71	5.90%

Change Order No. 5 (attached) includes 13 items for a total of \$138,234.37. Three of the items (Items 3, 4, and 5) were paid by others for a total of \$40,770.00.

BUDGET IMPACT:

The approved Fiscal Year 2023-24 budget for the West and East Ojai Avenue Pipeline Replacement project has sufficient funds to complete this work.

Attachment: Change Order No. 5



CHANGE ORDER #5

July 26, 2023

PROJECT: West & East Ojai Ave. Pipeline Replacement Specification 19-411
CONTRACTOR: Burns Pacific Construction Inc.
ADDRESS: 505 Thousand Oaks Blvd., Thousand Oaks, CA 91360

ITEM	DESCRIPTION OF WORK	TOTAL
1	RFI No. 25 at Station 10+12.83; move the tie-in point closer to the existing Tee at the proposed elevation. – 2 days	N/A
2.	Sta. 63+55.64 Existing Fiber Optic Conduit in Path of Fire Hydrant at Whispering Oaks, Ojai Ave. – 2 days	\$ 5,382.10
3.	Additional material cost to change from 18” steel casing to 24” casing to allow room for 4” conduit requested by the City of Ojai to go through the bore and jack casing with the 8” waterline (Will be reimbursed by the City)	\$ 8,000.00
4	Work Change Directive No. 3, 510 East Ojai Ave. Installation of two 2-inch service lines (Sta 46+98.14 and Sta 46+99.66; installation of reducers and fittings to accommodate 5/8-inch meter; Installation of 6-inch fire service at Sta. 47+66. See markup of sheet C-11. – 2 days (paid by customer)	\$ 17,160.00
5	Work Change Directive No. 4, 125 Fairview Lane. Installation of one 2-inch service line, meter box @ Sta 77+31; and installation of 6-inch fire services @ Sta. 77+31; terminate at 12 inch above grade and install bland flange. See markup of Sheet C-19. – 8 days (paid by customer)	\$ 15,610.00
6	RFI No. 27 – Additional Paving by Caltrans revised requirement.	\$67,141.93
7	RFI No. 28 – COR No.1 scope was approved, but it missed time extension request: 8 days	N/A
8	Bryant Street tie-in point valve removal and installation of 22 degree fitting (to make tie-in to the existing pipe). (BP COR 14) – 2 days	\$4,356.50
9	Faulty valve for Fairway Lane tie-in: 1 day extension (BP COR 15)	\$2,174.54
10	Golden West Tie-in fitting– 8”/6” Reducer (BP COR 16)	\$ 1,086.15
11	RFI No.29 – Rain event missing claim 12/29/22; consecutive rain event 12/24, 12/25, 12/31/22, 1/1/23, 1/7/23, 1/8, 1/14, 1/15/23. - 9 days	N/A
12	RFI No 31 - No construction for 4 th of July holiday required by Caltran– 6/30/23 and 7/3/2023 – 2 days	N/A
13	Fire Hydrant installation @ 12+87.58 Ojai Ave., installation crossing multiple utilities. (BP COR 18)- 4 days	\$17,323.15

TOTAL AMOUNT OF CHANGE ORDER NO. 5 \$ 138,234.37
ORIGINAL CONTRACT AMOUNT \$3,876,088.00
PREVIOUS APPROVED CHANGE ORDER AMOUNT \$ 90,970.34
NEW CONTRACT AMOUNT \$ 4,105,292.71

EXTENSION OF CONTRACT TIME, (40) DAYS, Revised Completion Date is August 1, 2023.

CASITAS MUNICIPAL WATER DISTRICT

By: _____
MICHAEL L. FLOOD
GENERAL MANAGER

DATE: _____

BURNS PACIFIC CONSTRUCTION, INC.

By: _____

DATE: _____

DRAFT



REQUEST FOR INFORMATION

NO: 25

Project: West and East Ojai Avenue Pipeline **Date Issued:** 5/5/2023
Specification Number: 19-411
Engineer: Water Works Engineers **Priority:** Routine
Contractor: Burns Pacific Expedite
Urgent

Drawing Sheet(s): C-2 **Specification Section(s)/Paragraph(s):** 19-411

Submitted By: John Hale
Cost Impact: Additional Pipe Fitting
Schedule Time Impact: 2 days

Description: At Bristol Road tie in location the end of the steel casing for the existing pipe is 10 feet deep from finished surface to top of pipe. From the end of the casing there is a 45 degree elbow to a second elbow 4 feet from the existing Tee at 4.5 feet from finished surface to top of pipe. It would make installation of the new Tee difficult to align and require more fittings to get back to proposed elevation if installed at the plan location.

Proposed Resolution: Burns-Pacific would like to move the tie in point closer to the existing Tee at the proposed elevation. Attached are copies of sheet C-2 with notes and a sketch of the existing conditions.

Engineer's Response: The proposed tie-in point is acceptable provided that the Detail on C-2A is used to make the connection to existing pipe.

Signature

Water Works Engineers

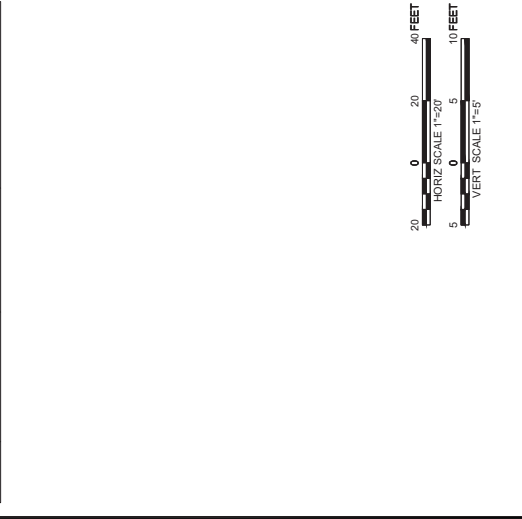
Company

5/9/2023

Date

- CONSTRUCTION NOTES:**
 (NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)
- 1 ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.
 - 2 COVER EXISTING WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMWD SPECIFICATIONS.
 - 3 CONNECT TO (EX) WATER MAIN PER DETAIL.
 - 4 RELOCATE (EX) WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - 5 CONNECT WATER SERVICE TO (EX) WATER METER PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - 6 RELOCATE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. INSTALL NEW VALVE BOX AND COVER AT NEW MAIN.
 - 7 INSTALL NEW LATERAL HYDRANT VALVE AND BURY PER CMWD STANDARD DETAIL SD-109. REUSE EXISTING HYDRANT. NEW HYDRANT LOCATION TO BE COORDINATED WITH CMWD.
 - 8 REPLACE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. REMOVE AND REPLACE (EX) VALVE BOX AND COVER AT NEW MAIN.
 - 9 CONNECT FIRE SERVICE PIPE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-103. REPLACE EXISTING VALVE PER CMWD STANDARD DETAIL SD-103.
 - 10 CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - 11 CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.
 - 12 INSTALL BLOW OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.
 - 13 INSTALL CARRY OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.
 - 14 NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. NEW METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
12+85.31	3/8"	502 W OJAI AVE	REPAIR CONCRETE AS NEEDED
12+87.58	FIRE HYDRANT 30		REPAIR ASPHALT AS NEEDED
12+85.00	2" FIRE SERVICE	410 W OJAI AVE	REPAIR CONCRETE AS NEEDED



CONSTRUCTION NOTES:
 (NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)

1 ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.

2 COVER EXISTING WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMWD SPECIFICATIONS.

3 CONNECT TO (EX) WATER MAIN PER DETAIL.

4 RELOCATE (EX) WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

5 CONNECT WATER SERVICE TO (EX) WATER METER PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

6 RELOCATE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. INSTALL NEW VALVE BOX AND COVER AT NEW MAIN.

7 INSTALL NEW LATERAL HYDRANT VALVE AND BURY PER CMWD STANDARD DETAIL SD-109. REUSE EXISTING HYDRANT. NEW HYDRANT LOCATION TO BE COORDINATED WITH CMWD.

8 REPLACE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. REMOVE AND REPLACE (EX) VALVE BOX AND COVER AT NEW MAIN.

9 CONNECT FIRE SERVICE PIPE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-103. REPLACE EXISTING VALVE PER CMWD STANDARD DETAIL SD-103.

10 CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

11 CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.

12 INSTALL BLOW OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.

13 INSTALL CARRY OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.

14 NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. NEW METER BOX AND ADD NEW CUSTOMER SIDE VALVE.



PROJECT INFORMATION

PROJECT NUMBER: 18-049
 DRAWING NUMBER: C-2
 SHEET NUMBER: 8 OF 42

CASITAS MUNICIPAL WATER DISTRICT
 WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

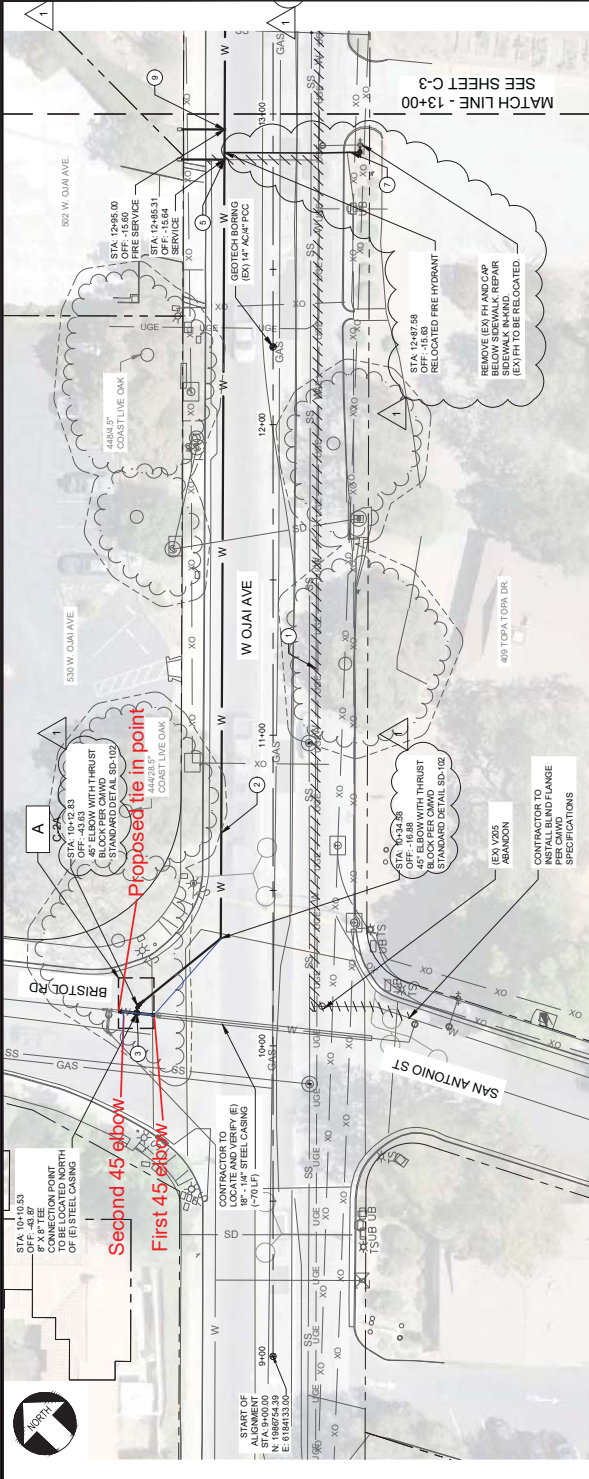
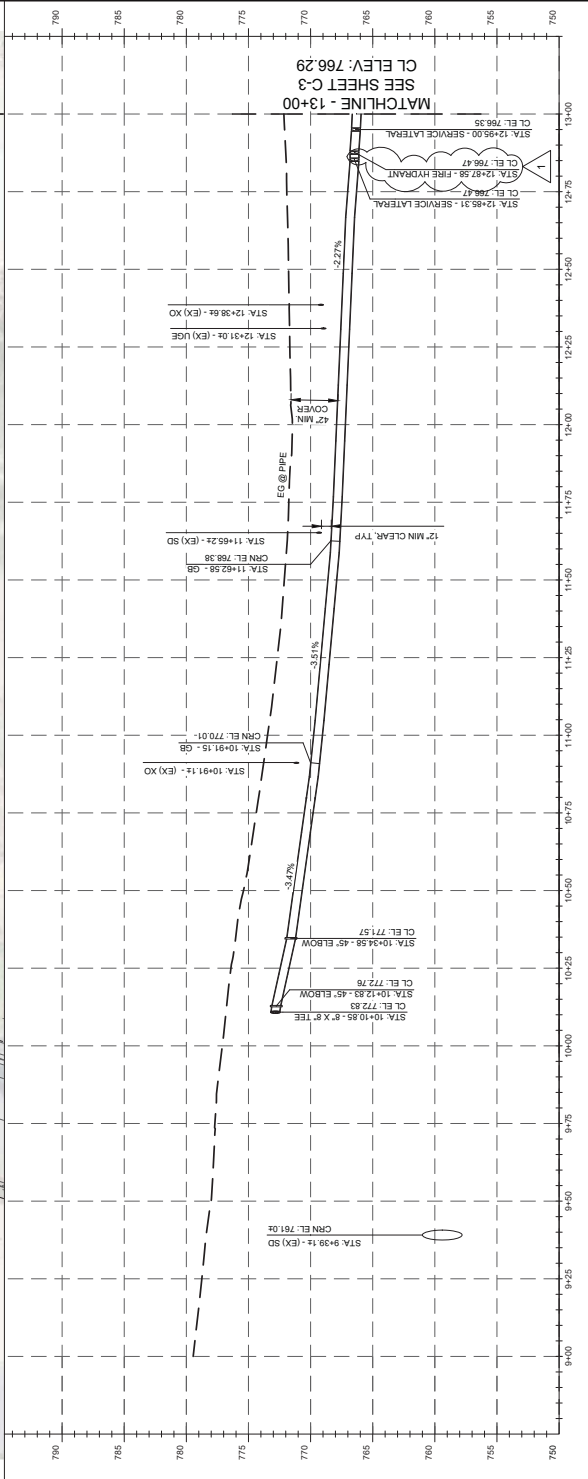
PLAN AND PROFILE STA 9+00 TO 13+00

WATERWORKS ENGINEERS

DESIGNED BY: K. ALACON
 DRAWN BY: D. LOUGHNEY
 CHECKED BY: A. BORCIC
 QUOTE BY: T. DURBIN

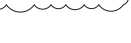
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CASITAS Municipal Water District

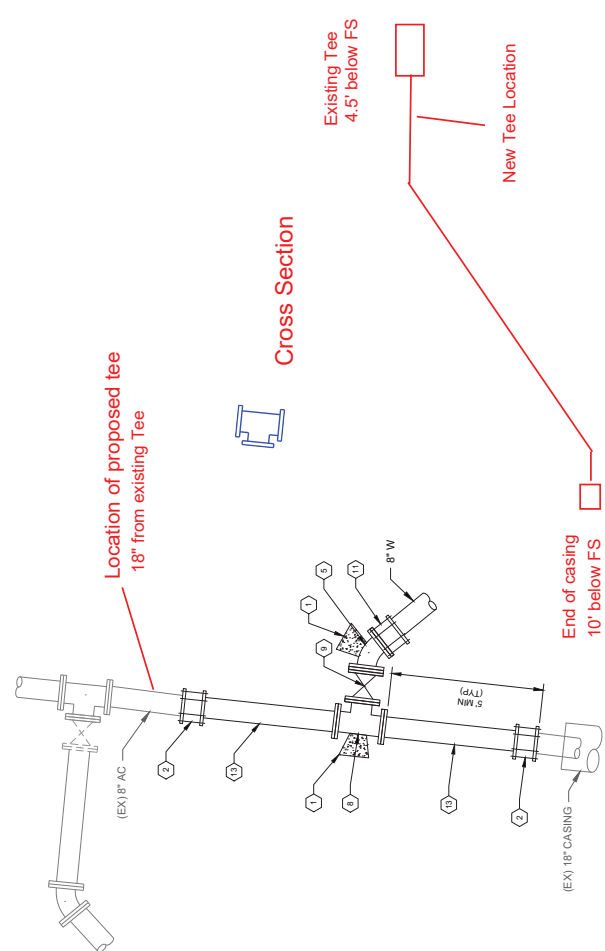




ITEM NO.	ITEM DESCRIPTION**
(1)	THRUST BLOCK PER CMWD STANDARD DETAIL SD-102
(2)	COUPLING
(3)	11.25" ELBOW (FL X FL)
(4)	22.5" ELBOW (FL X FL)
(5)	45° ELBOW (FL X FL)
(6)	90° ELBOW (FL X FL)
(7)	CROSS (FL X FL)
(8)	TEE (FL X FL)
(9)	GATE VALVE (FL X FL)
(10)	GATE VALVE (FL X FL) RESTRAINED MJ GLAND
(11)	RF GASKET
(12)	REDUCER
(13)	DIP
(14)	SOLID SLEEVE MJ COUPLING WITH (2) RESTRAINED GLANDS



**SEE CMWD SPECIFICATIONS SECTION 5.3, 5.4 AND 5.5



Cross Section

Existing Tee
4.5' below FS

New Tee Location

End of casing
10' below FS

A DETAIL
C-2 NIS

REV DATE BY 1 01/22 KA	DESCRIPTION ADDENDUM NO. 3		DESIGNED: K. ALACON DRAWN: D. LOUGHNEY CHECKED: A. BORGIC QA/QC: T. DURBIN CONSTRUCTION:		SCALE: VARS:	0 1/2 1 2 1" = 10'-0" 1/2" = 5'-0" 1/4" = 2'-0" 3/16" = 1'-0" 1/8" = 6" 1/16" = 3" 1/32" = 1.5" 1/64" = 0.75" 1/128" = 0.375" 1/256" = 0.1875" 1/512" = 0.09375" 1/1024" = 0.046875" 1/2048" = 0.0234375" 1/4096" = 0.01171875" 1/8192" = 0.005859375" 1/16384" = 0.0029296875" 1/32768" = 0.00146484375" 1/65536" = 0.000732421875" 1/131072" = 0.0003662109375" 1/262144" = 0.00018310546875" 1/524288" = 9.1552734375E-05	PROJECT NUMBER 18-049
							DRAWING NUMBER C-2A
CASITAS MUNICIPAL WATER DISTRICT WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT							
STA 9+00 TO 13+00 CONNECTION DETAILS							

CHANGE ORDER REQUEST WORKSHEET

BID FOR: Fiberoptic conduit in path of Fire Hydrant Service
LOCATION: Whispering Oaks and Ojai Ave. STA. 63+55.64

BID NO: 5832
COR NO: 12
PO or RFI NO:
JOB NO: 22-10
PREVAILING WAGE:
BID DATE: 04/19/23

CONTACT: Casitas Municipal Water District
 1055 N. Ventura Ave.
 Oak View, CA. 93022

SCOPE OF WORK: Install 4 - 45 degree elbows and concrete thrust blocks to route 6" fire hydrant service under communications duct bank

ITEM NO.	QTY	UM	UNIT PRICE	TOTAL
----------	-----	----	------------	-------

WORK ITEMS:

1	Excavation by hand	2	HRS	
2	Install 45 degree elbows	2	HRS	
3	Pour concrete thrust blocks	2	EA	
4				
5	Request two days added to overall schedule			
6				
7				
8				
9				
10				

LABOR & EQUIPMENT COST:

1	FOREMAN		HRS	\$130.89	\$0.00
2	OPERATOR	4	HRS	\$126.55	\$506.20
3	LABORERS	8	HRS	\$98.03	\$784.24
4	TEAMSTER		HRS	\$99.72	\$0.00
				LABOR TOTAL	\$1,290.44

1	MOBILIZATION			\$200.00	\$0.00
2	CAT 314 EXCAVATOR			\$80.00	\$0.00
3	CAT 420 BACKHOE	4	HRS	\$60.00	\$240.00
4	JOHN DEERE SKIP LOADER			\$80.00	\$0.00
5	WATER TRUCK			\$40.00	\$0.00
6	CREW TRUCK W/TOOLS	4	HRS	\$40.00	\$160.00
7	FLATBED DUMP TRUCK			\$40.00	\$0.00
8	FOREMAN TRUCK			\$25.00	\$0.00
9	T-29 3-AXLE DUMP TRUCK			\$50.00	\$0.00
10	T-31 4-AXLE DUMP TRUCK			\$60.00	\$0.00
11	VIBRATORY ROLLER			\$200.00	\$0.00
12	AIR COMPRESSOR			\$50.00	\$0.00
13	(6) TRENCH PLATES			\$30.00	\$0.00
				EQUIPMENT TOTAL	\$400.00

MATERIAL COST

1	6" 45 degree elbows	4	EA	\$138.00	\$552.00
2	Concrete	1	CY	\$120.00	\$120.00
3					\$0.00
4					\$0.00
5					\$0.00

	MATERIAL	\$2,880.00
	TAX 7.25%	\$208.80
	MATERIAL & TAX TOTAL	\$3,088.80

DIRECT COSTS SUBTOTAL		\$4,779.24
EQUIP & MATERIAL MARKUP	15%	<u>\$523.32</u>
DIRECT COSTS TOTAL		\$5,302.56
BOND FEE	1.50%	<u>\$79.54</u>
GRAND TOTAL		<u><u>\$5,382.10</u></u>

GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE HAULED OFF.
2. BID IS BASED UPON PLANS BY WATERWORKS ENGINEERING.
3. BID WORKING NORMAL WORK HOURS 8AM TO 3PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE).
6. PRICE VALID FOR 30 DAYS.

- CONSTRUCTION NOTES:**
(NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)
- ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.
 - CONNECT (EX) WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMWD SPECIFICATIONS.
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 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.
 - INSTALL BLOW OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.
 - INSTALL CARV PER CMWD STANDARD DETAIL SD-105.
 - NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. NEW METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

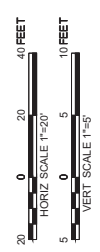
LATERAL TABLE

STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
61+27.52	5/8" (83202462)	942 E OJAI AVE	REPAIR CONCRETE AS NEEDED
61+77.23	5/8" (83202431)	952 E OJAI AVE	REPAIR CONCRETE AS NEEDED
61+78.45	5/8" (83203515)	967 E OJAI AVE	REPAIR CONCRETE AS NEEDED
63+44.55	5/8" (83202475)	960 E OJAI AVE	REPAIR ASPHALT AS NEEDED
63+46.36	2" SERVICE	960 E OJAI AVE	REPAIR ASPHALT AS NEEDED
63+53.72	2" (89380429)	989 E OJAI AVE	REPAIR CONCRETE AS NEEDED
63+55.64	2" (89380435)	989 E OJAI AVE	REPAIR CONCRETE AS NEEDED
63+57.59	* 8" FIRE SERVICE	989 E OJAI AVE	REPAIR CONCRETE AS NEEDED
63+71.84	FIRE HYDRANT 320	999 E OJAI AVE	REPAIR CONCRETE AS NEEDED

*DIRECT TO RELOCATE METER 83203514 TO 8" FIRE SERVICE BACKFLOW DEVICE

NOTES:

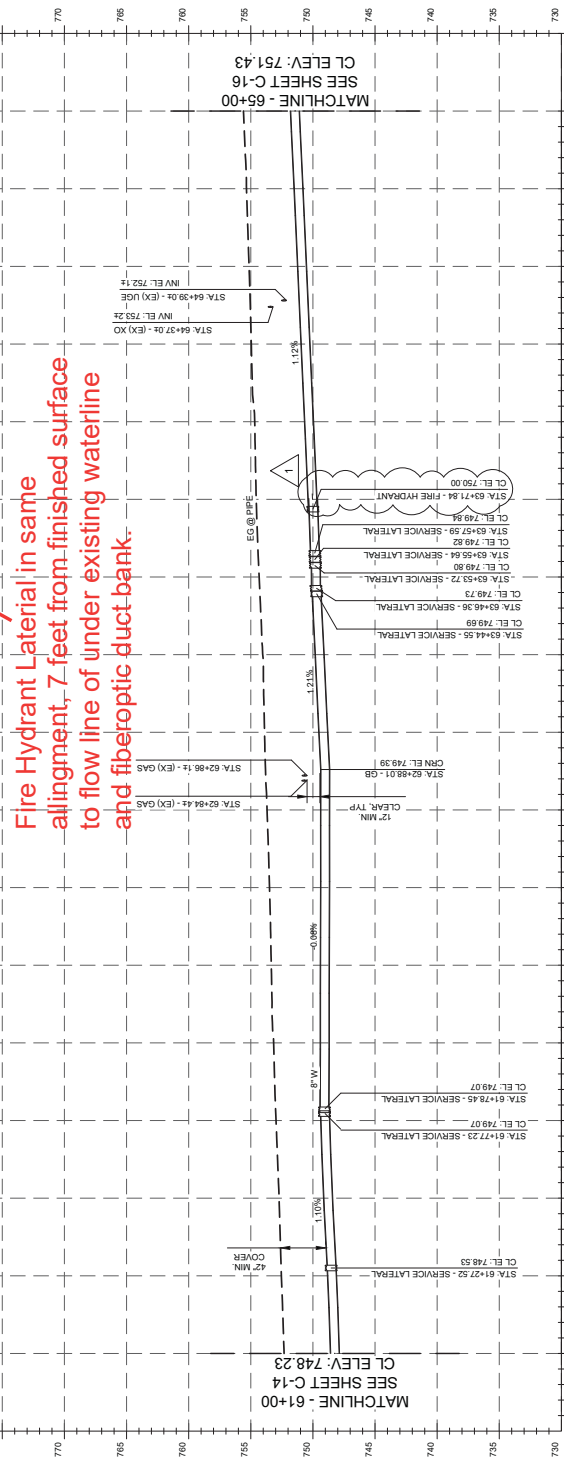
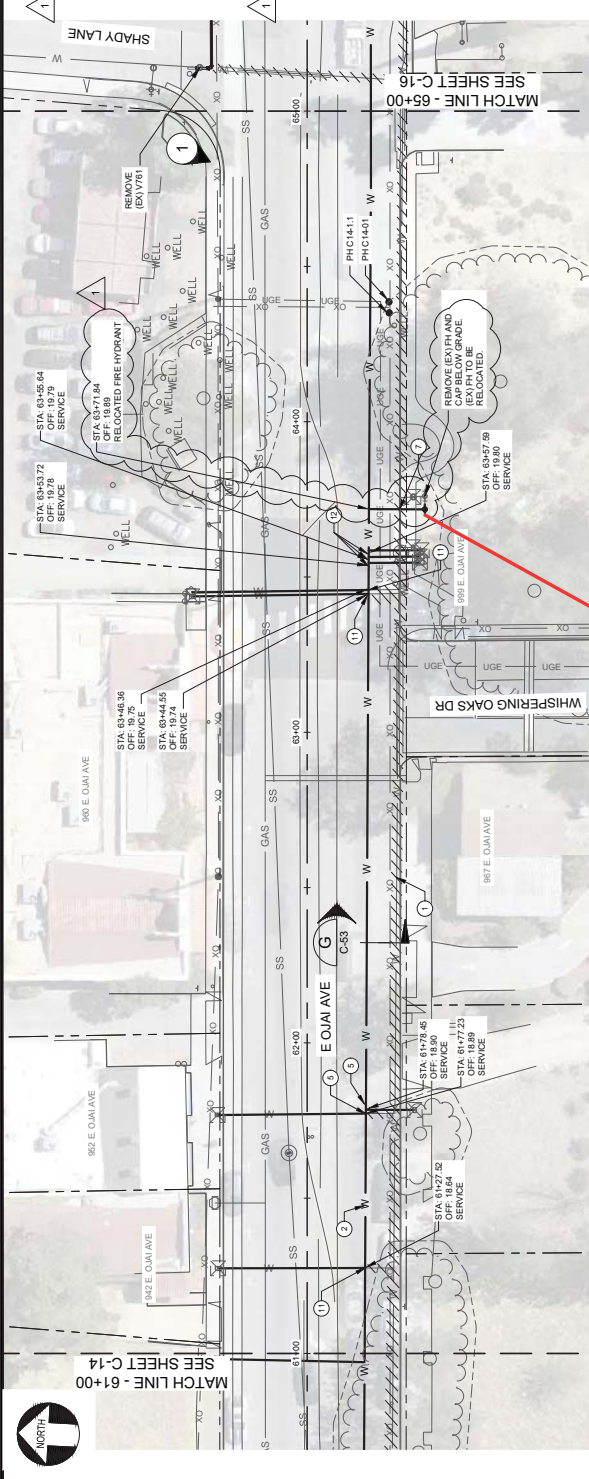
- REPORTED CONTAMINATED PLUME WEST OF SHADY LANE. FLOW IS NORTHEAST TO SOUTHWEST. CONTRACTOR TO REFERENCE SOIL & GROUNDWATER CONTAMINATION INVESTIGATION REPORT & MANAGEMENT PLAN.



CASITAS MUNICIPAL WATER DISTRICT
WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

PROJECT NUMBER: 18-049
DRAWING NUMBER: C-15
SHEET NUMBER: 30 OF 42

PLAN AND PROFILE STA 61+00 TO 65+00



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	01/22	KA	ADDENDUM NO. 3

DESIGNED: K. ALACON
DRAWN: D. LOUGHNEY
CHECKED: A. BORGIC
QA/QC: T. DURBIN
CONSTRUCTION: XXX

WATERWORKS ENGINEERS

CASITAS Municipal Water District

SCALE: AS SHOWN
DRAWING NOT TO SCALE UNLESS OTHERWISE NOTED

COR FOR: Upsize Jack and Bore Casing for City Fiberoptic Conduit
LOCATION: 46+00 to 47+00 Ojai Ave. at Bald Street
FIRM: Casitas Muncipal Water District
ADDRESS: 1055 North Ventura Ave.
 Oak View, CA. 93022
CONTACT: Lindsay Cao
OFFICE: 805-649-2251
CELL: 805-765-7967
EMAIL: lcao@casitaswater.com

BID NO: 5832
COR NO: 19
PO or RFI NO:
JOB NO:
BID DATE: 07/18/23

BY: John Hale
OFFICE: 805-371-4171
CELL: 805-201-8152
FAX: 805-495-6014
EMAIL: jhale@burnspacific.com

SCOPE OF WORK: Additional Material cost to change from 18" steel casing to 24" casing to allow room for 4" conduit requested by the City of Ojai to go through the bore and jack casing with the 8" waterline.

ITEM NO.		QTY	UM	TOTAL
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WORK ITEMS:

Additional Cost for Bore and Jack Casing

Golden State Boring & Pipe Jacking original quote	1	LS	\$ 69,400.00
Golden State Boring & Pipe Jacking revised quote	1	LS	\$ 77,400.00
Total			\$ 8,000.00

LABOR	
SUBCONTRACTOR COST	\$ 8,000.00
DIRECT COSTS SUBTOTAL	\$ 8,000.00
EQUIPMENT & MATERIAL MARKUP 0%	\$ -
DIRECT COSTS TOTAL	\$ 8,000.00
BOND FEE 0.0%	\$ -
GRAND TOTAL	\$ 8,000.00

GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE HAULED OFF.
2. BID IS BASED UPON PLANS BY WATER WORKS ENGINEERING
3. BID WORKING NORMAL WORK HOURS 7AM TO 4PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE)
6. PRICE VALID FOR 30 DAYS.

Golden State Boring & Pipe Jacking, Inc.

7000 Merrill Ave., Box 40 - Chino, CA 91710

(909) 930-5811 Office (909) 930-5813 Fax

****California Contractors License #678500****

****Arizona Contractors License #125204****

****Nevada Contractors License #0054905****

****DIR # 1000005788****

PROPOSAL

February 9, 2022

Attention: Estimating

Reference: West and East Ojai Ave. Pipeline Replacement

GOLDEN STATE BORING & PIPE JACKING, INC. will furnish and install casing, load contractor supplied carrier pipe, furnish and install insulators and end seals and fill the annular space for the following:

80' X 18" Steel Casing @ \$680.00 per lineal foot

Mobilization: \$15,000.00

Total Bid: \$69,400.00

- CONTRACTOR, or others, to dig, barricade and shore bore pit and retrieve pit to the dimensions required by GSB&PJ.
- Contractor to remove and dispose of spoil from pit area.
- Contractor to provide a handrail around the jacking and receiving pits per OSHA requirements.
- Contractor to provide permissible egress to the tunnel portals including ladders and ladder landings.
- Contractor to protect pits and working area from storm.
- Contractor shall supply hubs at the front and rear of the pits on line.
- Contractor to furnish a cut sheet to our foreman before work commences.
- Contractor to dig pits, to 2/10 of a foot on the required subgrade of the jacked crossing.
- Contractor to dig a receiving pit ahead of tunneling.
- Extra work or standby time will be charged at \$950.00 /hr.
- Contractor to provide dewatering for the bore pit and the receiving pit.
- Pit depth 18" below flow line for casing 36" and below
- If groundwater exists, Contractor to provide 24" of crushed rock in the bottom of the bore pit, otherwise Contractor to provide 18".
- If groundwater exists, boring must be performed uphill.
- Contractor provide erosion control if required.
- Contractor to furnish GSB&PJ with a level crane pad for jacking pit and receiving pit.

- Contractor to supply a vertical back-up capable of withstanding the necessary jacking forces required to complete the crossing.
- Contractor to provide traffic control.
- Contractor to provide dust control.
- Contractor to provide restroom facilities.
- Contractor to locate all substructures and pipelines.
- Contractor to supply water and water truck if required
- GSB&PJ will be held harmless from damages, of any kind caused by contractors, engineers, or owner's failure to properly locate such substructures or pipelines.
- Contractor to supply the tunnel/bore entry portal and exit portal.
- Contractor to provide Dig Alert Ticket Number prior to mobilization.
- Contractor shall supply pipe fitter when carrier pipe is installed.
- Contractor to finish and test carrier pipe for leakage and fill with water prior to annular space backfill.
- Contractor to weld carrier when required.
- Contractor to supply a minimum of 2 welders for carrier pipe.
- Additional training that is required by the Agency/Owner and/or General Contractor will be billed at a flat rate of \$950.00/hr.
- GSB&PJ will perform project based upon a mutually agreed upon schedule.
- This bid amount is based on 1 mobilization/demobilization. Any additional mobilization/demobilization will be based on a time and material basis.
- CONTRACTOR, or others, to supply all permits, engineering costs, inspection fees, or any special insurance--such as railroad insurance. GSB&PJ shall supply a certificate of insurance for proof of \$1 million general liability coverage; excess insurance coverage will be the responsibility of the contractor. If a waiver of subrogation is required, a fee of 3% of the payroll will be added. Should a bond be statutorily required as set forth in Section 4108 of the Public Contracts Code, a fee of 2.5% of the contract price will be added. If you desire to be named additional insured, please contact our office. Contractor agrees to make timely progress payments. Should legal matters arise concerning this project, with regards to payments and/or extra work; the subcontractor will be entitled to recover court costs and legal fees.
- This price is based on machine boreable ground with the above stated casing diameter and does not include rock conditions. If rock, foreign, or man made material are encountered additional charges will be on a time and material basis. If any backcharges are incurred by GSB&PJ they shall be signed for at the time of occurrence on the jobsite by our superintendent.
- Upon acceptance of our Proposal it is to be signed and returned to our office before material and/or work can be scheduled. This Proposal may be withdrawn by us if not accepted within 10 working days.

Golden State Boring & Pipe Jacking appreciates this opportunity to prepare a proposal for your company, and we look forward to working together.

Contractor _____ **Golden State Boring & Pipe Jacking, Inc.**

Burns Pacific Construction Inc.

By John Hale By _____
 Name Title Name Title

Contractor's State License No. _____ Contractor's State License No. 678500

John Hale, Estimator-Project Manager

Golden State Boring & Pipe Jacking, Inc.

7000 Merrill Ave., Box 40 - Chino, CA 91710

(909) 930-5811 Office (909) 930-5813 Fax

****California Contractors License #678500****

****Arizona Contractors License #125204****

****Nevada Contractors License #0054905****

****DIR # 1000005788****

PROPOSAL

June 8, 2023

Attention: Estimating

Reference: West and East Ojai Ave. Pipeline Replacement

GOLDEN STATE BORING & PIPE JACKING, INC. will furnish and install casing, load contractor supplied carrier pipe, furnish and install insulators and end seals and fill the annular space for the following:

80' X 24" Steel Casing @ \$780.00 per lineal foot

includes installation of 8" and 4" carrier pipe

Mobilization: \$15,000.00

Total Bid: \$77,400.00

- CONTRACTOR, or others, to dig, barricade and shore bore pit and retrieve pit to the dimensions required by GSB&PJ.
- Contractor to remove and dispose of spoil from pit area.
- Contractor to provide a handrail around the jacking and receiving pits per OSHA requirements.
- Contractor to provide permissible egress to the tunnel portals including ladders and ladder landings.
- Contractor to protect pits and working area from storm.
- Contractor shall supply hubs at the front and rear of the pits on line.
- Contractor to furnish a cut sheet to our foreman before work commences.
- Contractor to dig pits, to 2/10 of a foot on the required subgrade of the jacked crossing.
- Contractor to dig a receiving pit ahead of tunneling.
- Extra work or standby time will be charged at \$950.00 /hr.
- Contractor to provide dewatering for the bore pit and the receiving pit.
- Pit depth 18" below flow line for casing 36" and below
- If groundwater exists, Contractor to provide 24" of crushed rock in the bottom of the bore pit, otherwise Contractor to provide 18".
- If groundwater exists, boring must be performed uphill.
- Contractor provide erosion control if required.
- Contractor to furnish GSB&PJ with a level crane pad for jacking pit and receiving pit.

- Contractor to supply a vertical back-up capable of withstanding the necessary jacking forces required to complete the crossing.
- Contractor to provide traffic control.
- Contractor to provide dust control.
- Contractor to provide restroom facilities.
- Contractor to locate all substructures and pipelines.
- Contractor to supply water and water truck if required
- GSB&PJ will be held harmless from damages, of any kind caused by contractors, engineers, or owner's failure to properly locate such substructures or pipelines.
- Contractor to supply the tunnel/bore entry portal and exit portal.
- Contractor to provide Dig Alert Ticket Number prior to mobilization.
- Contractor shall supply pipe fitter when carrier pipe is installed.
- Contractor to finish and test carrier pipe for leakage and fill with water prior to annular space backfill.
- Contractor to weld carrier when required.
- Contractor to supply a minimum of 2 welders for carrier pipe.
- Additional training that is required by the Agency/Owner and/or General Contractor will be billed at a flat rate of \$950.00/hr.
- GSB&PJ will perform project based upon a mutually agreed upon schedule.
- This bid amount is based on 1 mobilization/demobilization. Any additional mobilization/demobilization will be based on a time and material basis.
- CONTRACTOR, or others, to supply all permits, engineering costs, inspection fees, or any special insurance--such as railroad insurance. GSB&PJ shall supply a certificate of insurance for proof of \$1 million general liability coverage; excess insurance coverage will be the responsibility of the contractor. If a waiver of subrogation is required, a fee of 3% of the payroll will be added. Should a bond be statutorily required as set forth in Section 4108 of the Public Contracts Code, a fee of 2.5% of the contract price will be added. If you desire to be named additional insured, please contact our office. Contractor agrees to make timely progress payments. Should legal matters arise concerning this project, with regards to payments and/or extra work; the subcontractor will be entitled to recover court costs and legal fees.
- This price is based on machine boreable ground with the above stated casing diameter and does not include rock conditions. If rock, foreign, or man made material are encountered additional charges will be on a time and material basis. If any backcharges are incurred by GSB&PJ they shall be signed for at the time of occurrence on the jobsite by our superintendent.
- Upon acceptance of our Proposal it is to be signed and returned to our office before material and/or work can be scheduled. This Proposal may be withdrawn by us if not accepted within 10 working days.

Golden State Boring & Pipe Jacking appreciates this opportunity to prepare a proposal for your company, and we look forward to working together.

Contractor **Golden State Boring & Pipe Jacking, Inc.**

By _____ By _____
 Name Title Name Title

Contractor's State License No. _____ Contractor's State License No. 678500



WORK CHANGE DIRECTIVE NO. 3

May 5, 2023

PROJECT:	West & East Ojai Avenue Pipeline Replacement
SPEC. NO.:	19-411
CONTRACTOR:	Burns Pacific Construction Inc.
ENGINEER/ARCHITECT:	Water Works Engineers
SHEET/SPECIFICATION SECTION REFERENCE:	C-11

Contractor is directed to proceed with the following change(s):			
510 East Ojai Avenue. Install two 2-inch service lines instead of two 1-inch service lines (STA 46+98.14 and STA 46+99.99); install reducers and fittings to accommodate 5/8-inch meter. Install 6-inch fire service at STA 47+66. Please refer to the attached markup of Sheet C-11. Record drawing of storm drain provided for reference. Pothole storm drain at proposed service line locations. Two-inch services may be required to cross under the storm drain. Six-inch fire service line shall be below the storm drain, using a full stick of pipe to cross the storm drain so any joint is closer to the new water line.			
If a claim is made the above change(s) have affected the Contract Price or Contract Duration, any claim for a Change Order based thereon will involve one or more methods of determining the effect of such change(s):			
Method of determining change in Contract Price:		Method of determining change in Contract Duration:	
Unit Price (Bid Item 27 & 28)	X	Contractor's records	
Lump Sum (Bid Item 33)	X	Owner's records	
Other (Specify)		Other (Specify)	
Estimated increase (decrease) in Contract Price		Estimated increase (decrease) in Contract Duration	
		Substantial Completion	2 Days
	\$17,160.00	Final Completion	Days
If the change involves an increase, the estimated amount is not to be exceeded without further authorization		If the change involves an increase in duration, the estimated time is not to be exceeded without further authorization	

AUTHORIZED
ENGINEERING MANAGER

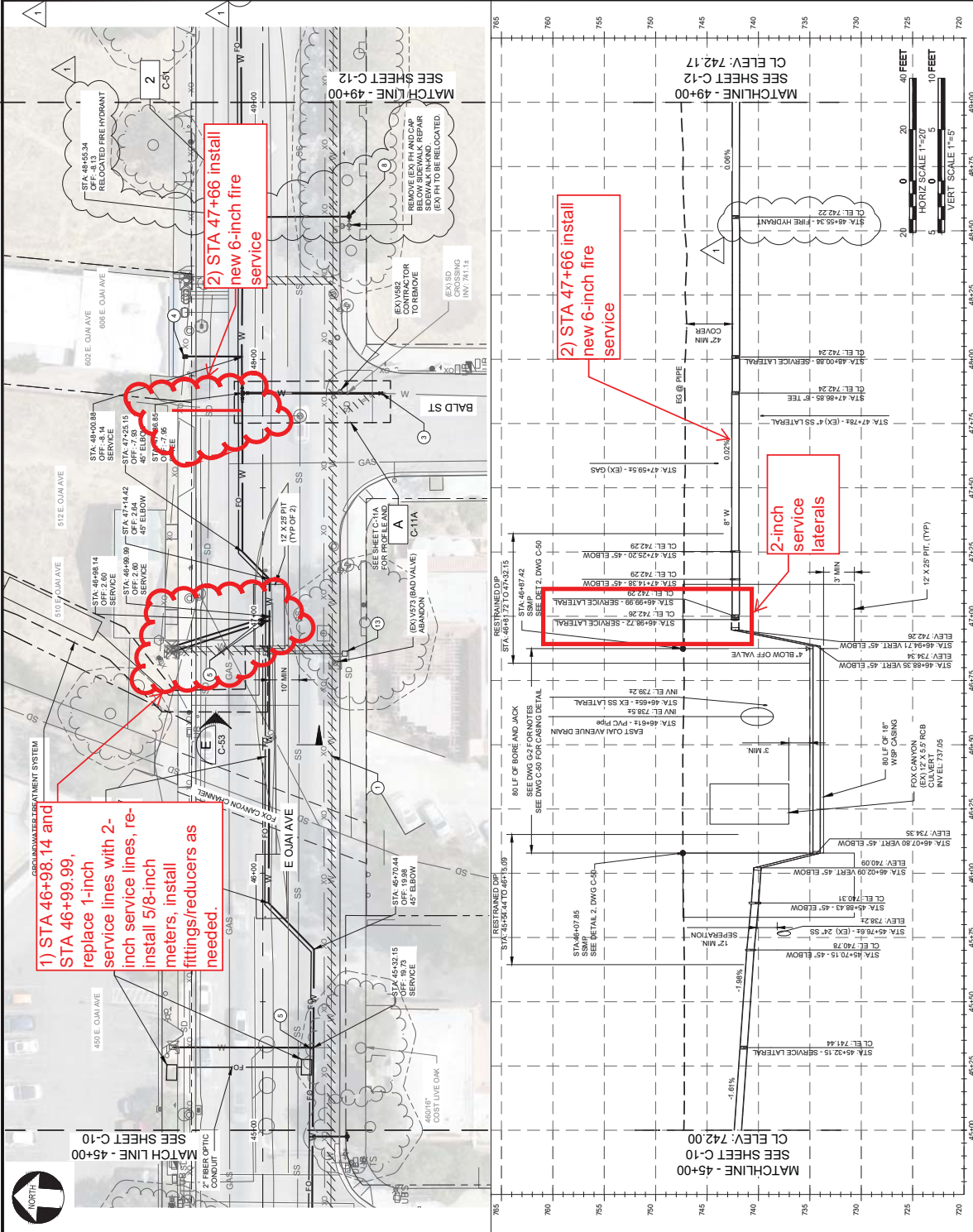
Attachment(s): Revised Sheet C-11
 Drainage Detail Plan 607VC66

510 East Ojai Ave

Description	Bid Item No.	Qty	Unit	Unit Price	Cost/Credit
6-inch Fire Service	33	1	LS	\$ 13,560.00	\$ 13,560.00
Two 2-inch Domestic Service Lines	28	80	LF	\$ 145.00	\$ 11,600.00
Two 1-inch Domestic Service Lines	27	80	LF	\$ 100.00	\$ (8,000.00)
				TOTAL	\$ 17,160.00

- CONSTRUCTION NOTES:**
(NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)
- 1) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 2) STA 47+66 install new 6-inch fire service
 - 3) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 4) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 5) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 6) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 7) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 8) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 9) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 10) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 11) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 12) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 13) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 14) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.
 - 15) STA 46+98.14 and STA 46+99.99, replace 1-inch service lines with 2-inch service lines, install 5/8-inch meters, install fittings/reducers as needed.

STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
45+32.15	5/8" (83203882)	480 E. OJAI AVE	REPLACE EX. 2" WITH 1" REPAIR CONCRETE AS NEEDED
46+98.14	5/8" (83203469)	510 E. OJAI AVE	REPAIR CONCRETE AS NEEDED
46+99.99	5/8" (83203473)	512 E. OJAI AVE	REPAIR CONCRETE AS NEEDED
48+00.08	3/8" (83203467)	602 E. OJAI AVE	REPAIR CONCRETE AS NEEDED
48+20.32	NOT REPLACING SERVICE	606 E. OJAI AVE	
48+55.34	FIRE HYDRANT		REPLACE HYDRANT IN-KIND, REPAIR CONCRETE AS NEEDED



CASITAS MUNICIPAL WATER DISTRICT
WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

PROJECT NUMBER: 18-049
DRAWING NUMBER: C-11
SHEET NUMBER: 22 OF 42

PLAN AND PROFILE STA 45+00 TO 49+00

DESIGNED BY: K. ALACON
DRAWN BY: D. LOUGHNEY
CHECKED BY: A. BORGIC
QA/QC: T. DURBIN

CONTRACT NUMBER: 01222 KA ADDENDUM NO. 3

DATE: 01/22/21

DESCRIPTION: WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT



REV	DATE	BY	DESCRIPTION



WORK CHANGE DIRECTIVE NO. 4

May 8, 2023

PROJECT:	West & East Ojai Avenue Pipeline Replacement
SPEC. NO.:	19-411
CONTRACTOR:	Burns Pacific Construction Inc.
ENGINEER/ARCHITECT:	Water Works Engineers
SHEET/SPECIFICATION SECTION REFERENCE:	C-19

Contractor is directed to proceed with the following change(s):			
125 Fairway Lane. Install one 2-inch service line (STA 77+29.00) and meter box. Install 6-inch fire service at STA 77+31; terminate at 12 inches above grade and install blind flange. Please refer to the attached markup of Sheet C-19. Coordinate meter box and fire service termination locations with Inspector and property owner in field.			
If a claim is made the above change(s) have affected the Contract Price or Contract Duration, any claim for a Change Order based thereon will involve one or more methods of determining the effect of such change(s):			
Method of determining change in Contract Price:		Method of determining change in Contract Duration:	
Unit Price (Bid Item 28 & 29)	X	Contractor's records	
Lump Sum (Bid Item 33)	X	Owner's records	
Other (Specify)		Other (Specify)	
Estimated increase (decrease) in Contract Price		Estimated increase (decrease) in Contract Duration	
		Substantial Completion	8 Days
\$15,610.00		Final Completion	Days
If the change involves an increase, the estimated amount is not to be exceeded without further authorization		If the change involves an increase in duration, the estimated time is not to be exceed without further authorization	

AUTHORIZED
ENGINEERING MANAGER

Attachment(s): Cost Estimate
Revised Sheet C-19

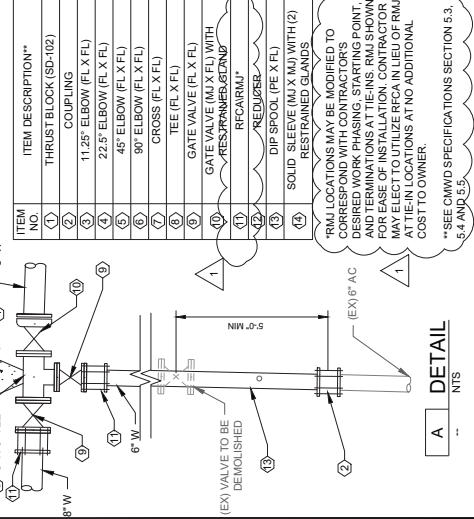
APN 024-0-071-02, 125 Fairway Lane

Description	Bid Item No.	Qty	Unit	Unit Price	Cost/Credit
6-inch Fire Service	33	1	LS	\$ 13,560.00	\$ 13,560.00
2-inch Domestic Service Line	28	10	LF	\$ 145.00	\$ 1,450.00
New Meter Box	29	1	EA	\$ 600.00	\$ 600.00
				TOTAL	\$ 15,610.00

CONSTRUCTION NOTES:
 (NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)
 1 ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.
 2 CONNECT (EX) WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMMWD SPECIFICATIONS.
 3 CONNECT TO (EX) WATER MAIN PER DETAIL.
 4 RELOCATE (EX) WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 5 CONNECT WATER SERVICE TO (EX) WATER METER PER CMMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 6 RELOCATE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-109. INSTALL NEW VALVE BOX AND COVER AT NEW MAIN.
 7 INSTALL NEW LATERAL HYDRANT VALVE AND BURY PER CMMWD STANDARD DETAIL SD-109. REUSE EXISTING HYDRANT. NEW HYDRANT LOCATION TO BE COORDINATED WITH CMMWD.
 8 REPLACE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-109. REMOVE AND REPLACE (EX) VALVE BOX AND COVER AT NEW MAIN.
 9 CONNECT FIRE SERVICE PIPE TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-110.
 10 REPLACE EXISTING VALVE PER CMMWD STANDARD DETAIL SD-103.
 11 CONNECT WATER SERVICE TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 12 CONNECT WATER SERVICE TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.
 13 INSTALL BLOW OFF PER CMMWD STANDARD DETAIL SD-108, TYPE A.
 14 INSTALL BLOW OFF PER CMMWD STANDARD DETAIL SD-105.
 15 NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMMWD STANDARD DETAIL SD-111. NEW METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

LATERAL TABLE

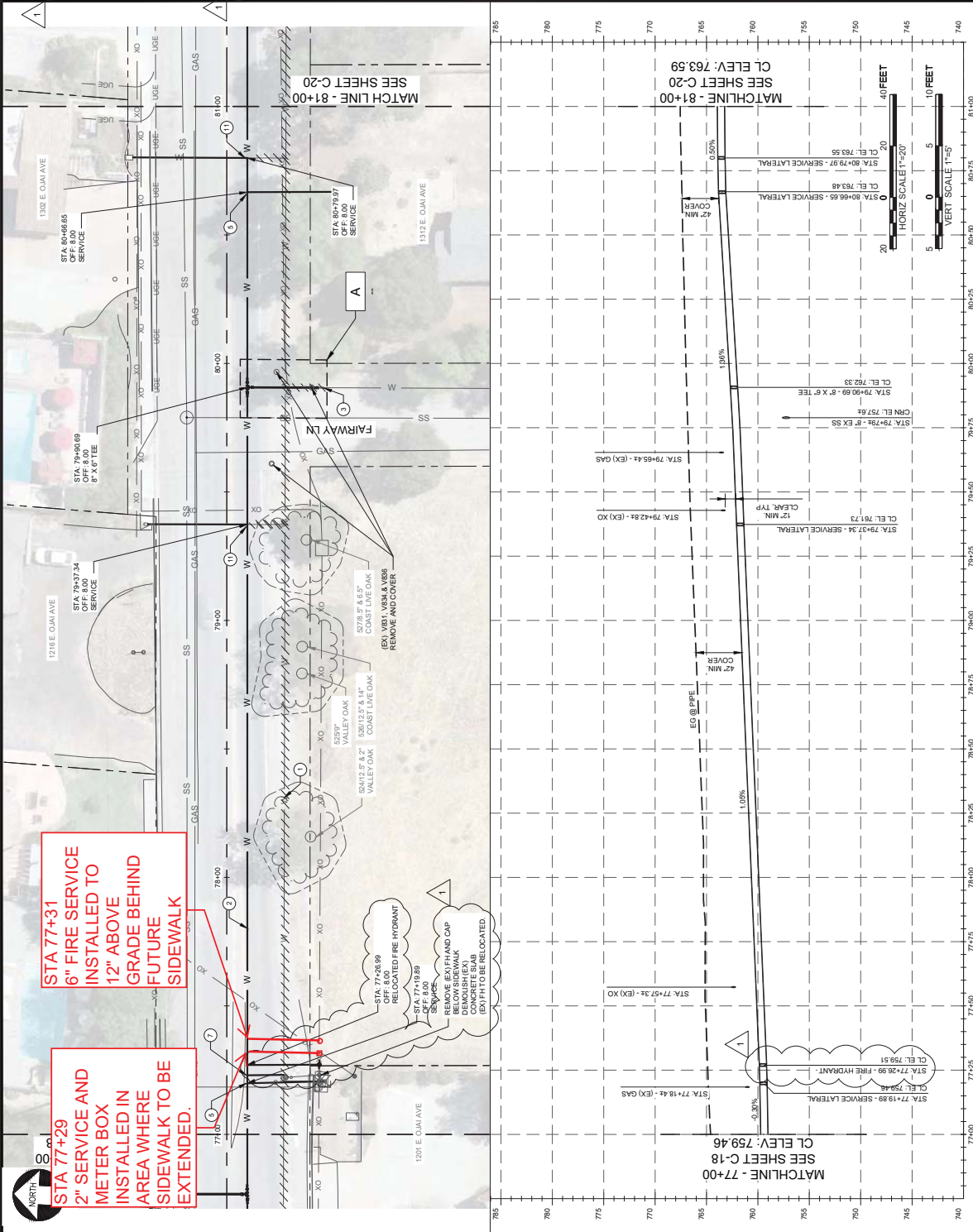
STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
77+19.89	1.5" (8930370)	1201 E OJAI AVE	
77+26.99	FIRE HYDRANT 185		REPAIR ASPHALT AS NEEDED
79+37.34	58" (83203517)	1218 E OJAI AVE	REPAIR CONCRETE AS NEEDED
80+68.65	58" (83203221)	1312 E OJAI AVE	
80+79.97	2" (8930442)	1302 E OJAI AVE	



PROJECT INFORMATION
 PROJECT NUMBER: 18-049
 DRAWING NUMBER: C-19
 SHEET NUMBER: 36 OF 42

CASITAS MUNICIPAL WATER DISTRICT
 WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

PLAN AND PROFILE STA 77+00 TO 81+00



STA 77+29
 2" SERVICE AND METER BOX INSTALLED IN AREA WHERE SIDEWALK TO BE EXTENDED.

STA 77+31
 6" FIRE SERVICE INSTALLED TO 12" ABOVE GRADE BEHIND FUTURE SIDEWALK

WATERWORKS ENGINEERS

DESIGNED: K. ALACON
 DRAWN: D. LOUGHNEY
 CHECKED: A. BORGIC
 QA/QC: T. DURBIN

CONTRACT NO. 01222 KA ADDENDUM NO. 3

DATE: 01/22/22

SCALE: HORIZ SCALE 1"=50'
 VERT SCALE 1"=5'

VARIES

CHANGE ORDER REQUEST WORKSHEET

BID FOR: Additional Finish Paving
LOCATION: Bald Street to Gridley Road

CONTACT: Casitas Municipal Water District
 1055 North Ventura Ave.
 Oak View, CA. 93022

BID NO: 5832
COR NO: 17
PO or RFI NO:
JOB NO: 22-10
PREVAILING WAGE:
BID DATE: 07/10/23

SCOPE OF WORK: Bid Item 38 list 33,000 square feet of pavement restoration. Due to Caltrans requirement of the whole lane being paved the square footage will be over the bid item amount. The following information and attachments are for the paving from Bald St. to Gridley Rd.

ITEM NO.		QTY	UM	UNIT PRICE	TOTAL
WORK ITEMS:					
1	Hardy and Harper field ticket dated 6/22/23	38,884	SF	\$ 3.76	
2	Hardy and Harper field ticket dated 6/23/23	11,709	SF	\$ 3.76	
3	Total	50,593	SF	\$ 3.76	\$ 190,229.68
4					
5	Bid Item 38 Total	33,000	SF	\$ 3.76	\$ 124,080.00
6					
7					
8	Total Requested for this Change Order Request	17,593	SF	\$ 3.76	\$ 66,149.68
9				BOND FEE	992.25
10					\$ 67,141.93

ESTIMATED LABOR & EQUIPMENT COST:

OVERTIME

1	FOREMAN	HRS	\$171.92	\$0.00
2	OPERATOR	HRS	\$167.59	\$0.00
3	LABORERS	HRS	\$128.28	\$0.00
4	TEAMSTER	HRS	\$126.07	\$0.00
			LABOR TOTAL	\$0.00

1	MOBILIZATION		\$200.00	\$0.00
2	CAT 305 MINI EXCAVATOR		\$80.00	\$0.00
3	CAT 420 BACKHOE		\$60.00	\$0.00
4	CAT 289D LOADER		\$80.00	\$0.00
5	WATER TRUCK		\$40.00	\$0.00
6	CREW TRUCK W/TOOLS		\$40.00	\$0.00
7	FLATBED DUMP TRUCK		\$40.00	\$0.00
8	FOREMAN TRUCK		\$25.00	\$0.00
9	T-29 3-AXLE DUMP TRUCK		\$50.00	\$0.00
10	T-31 4-AXLE DUMP TRUCK		\$60.00	\$0.00
11	4" PUMP		\$200.00	\$0.00
12	AIR COMPRESSOR		\$50.00	\$0.00
13	(6) TRENCH PLATES		\$30.00	\$0.00
			EQUIPMENT TOTAL	\$0.00

ESTIMATED MATERIAL COST

1				\$0.00
2				\$0.00
3				\$0.00
4				\$0.00
5				\$0.00

TAX MATERIAL 9.50% \$0.00 **119**

MATERIAL & TAX TOTAL		\$0.00
DIRECT COSTS SUBTOTAL		\$66,149.68
EQUIP & MATERIAL MARKUP	15%	\$0.00
DIRECT COSTS TOTAL		\$66,149.68
BOND FEE	1.50%	\$992.25
GRAND TOTAL		\$67,141.93

GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE LEVELED IN PLACE ONSITE WITH NO HAUL OFF.
2. BID IS BASED UPON UNSIGNED, PRELIMINARY PLANS.
3. BID WORKING NORMAL WORK HOURS 7AM TO 4PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE).
6. PRICE VALID FOR 30 DAYS.



REQUEST FOR INFORMATION

NO: 25

Project: West and East Ojai Avenue Pipeline Date Issued: 5/5/2023
Specification Number: 19-411
Engineer: Water Works Engineers Priority: Routine []
Contractor: Burns Pacific Expedite [x]
Urgent []

Drawing Sheet(s): C-2 Specification Section(s)/Paragraph(s): 19-411

Submitted By: John Hale
Cost Impact: Additional Pipe Fitting
Schedule Time Impact: 2 days

Description: At Bristol Road tie in location the end of the steel casing for the existing pipe is 10 feet deep from finished surface to top of pipe. From the end of the casing there is a 45 degree elbow to a second elbow 4 feet from the existing Tee at 4.5 feet from finished surface to top of pipe. It would make installation of the new Tee difficult to align and require more fittings to get back to proposed elevation if installed at the plan location.

Proposed Resolution: Burns-Pacific would like to move the tie in point closer to the existing Tee at the proposed elevation. Attached are copies of sheet C-2 with notes and a sketch of the existing conditions.

Engineer's Response: The proposed tie-in point is acceptable provided that the Detail on C-2A is used to make the connection to existing pipe.

Signature Date: 5/9/2023
Water Works Engineers
Company



REQUEST FOR INFORMATION

NO: 28

Project: West and East Ojai Avenue Pipeline Date Issued: 6/7/2023
Specification Number:
Engineer: Water Works Engineers Priority: Routine [checked]
Contractor: Burns Pacific Construction, Inc. Expedite []
Urgent []

Drawing Sheet(s): None Specification Section(s)/Paragraph(s): 19-411 Part C

Submitted By: Lisa Burns
Cost Impact: none
Schedule Time Impact: 8 days

Description: We are asking for corrections to CO# 1 due to clerical errors; we apologize for the delay and the inconvenience:
Item # 1 gave change to cost, but did not give the 2 day time extension that this installation took on Ventura St/Ojai Ave. See dailies for 8/9 & 8/10
Item #2 -see COR #3 worksheet saying 2 days total time, but was not added to CO# 1
Item #3 States "extra time" but none was added. the extra time to relocate due to the Edison Vault actually took 3 days - See dailies for 9/13,9/14 & 9/15/22
Item #4 states "extra time" but none was added. Requesting 1 day

Proposed Resolution: Extension of contract time 8 days

Eight (8) days of time extension will be added to the CMWD COR No. 5

Engineer's Response:

Lindsay Cao

June 9, 2023

Signature

Date

CMWD

Company

BURNS PACIFIC CONSTRUCTION, INC.

DAILY WORK REPORT

Contractors License No. 394798

505 E. Thousand Oaks Blvd.
 Thousand Oaks, CA 91360
 Office: 805-371-4171 Fax: 805-495-6014

EWT: _____

Job No: 22-10
 Daily No: _____

Date: 8-09-22
 Day: Tuesday

Weather: _____

For: Casitas

Project: West and East Ojai Ave Pipeline

Foreman's Signature: _____

Ed Rivera

Unit No.	Equipment	Hours	Rate	Total	Straight Time			Overtime			Double Time			Inv. Amt.
					Hrs	Rate	Amount	Hrs	Rate	Amount	Hrs	Rate	Amount	
P-14	Foreman Pickup	6.0												
C-17	Crew Truck	8.0												
C-22	Flatbed Dump Truck	8.0												
E-7	CAT Mini X	8.0												
	CAT 314	8.0												
				Equipment Subtotal										
				Vendor Subtotal										
				Vendor Total										
				15%										
				Equipment Subtotal										
				Vendor Subtotal										
				Vendor Total										
				Labor Subtotal										

WORK DESCRIPTION: _____

Setup traffic control. Pulled Trench plates and fabricated inverted section of 8" main line for CO# 1 to go under concrete encasement. Brought new main line back up to existing grade and tied into existing line. Fabricated and poured concrete thrust block on 45 degree fittings. Cleaned work area and reset plates over trench on open road.

BURNS PACIFIC CONSTRUCTION, INC.

DAILY WORK REPORT

Contractors License No. 394798

505 E. Thousand Oaks Blvd.

Thousand Oaks, CA 91360

Office: 805-371-4171 Fax: 805-495-6014

For: Casitas

Project: West and East Ojai Ave Pipeline

Job No: 22-10

EWT: _____

Daily No: _____

Date: 9-14-22

Day: Wednesday

Weather: _____

Foreman's Signature: _____

Ed Rivera

Unit No.	Equipment	Hours	Rate	Total	Straight Time			Overtime			Double Time			Inv. Amt.
					Hrs	Rate	Amount	Hrs	Rate	Amount	Hrs	Rate	Amount	
P-14	Foreman Pickup	7.0												
C-17	Crew Truck	9.0												
E-11	CAT 305 mini X	9.0												
T-31	Super 10 Dump Truck	9.0												
B-9	CAT 420 Backhoe	4.0												
L-8	289 CAT skst/grinder	3.0												
Equipment Subtotal														
Vendor Subtotal														
Vendor Total														
15%														
DAILY REPORT TOTAL														

Materials / Sub-Contractors / Suppliers

Labor Subtotal

WORK DESCRIPTION:

Set up tc. Removed trench plates and continued to excavate and locate marked and unmarked utilities. Shored up trench. Installed pipe under all utilities. Upon excavation, hit unmarked edison conduit (not live, but with rope for future line); Todd from CMWD said to put a clam shell repair cuppling. Bolted 2-45 degree fittings in order to get line under existing utilities. Reset shores, elaned up work area. Reset trench plates. Picked up tc and opened road. Shuttled equipment to yard and maintained dust control by watering.

CHANGE ORDER REQUEST WORKSHEET

BID FOR: Valves in path of tie in location, pipe not in plan location
LOCATION: Bryant Street

CONTACT: Casitas Municipal Water District
 1055 North Ventura Ave.
 Oak View, CA. 93022

BID NO: 5832
COR NO: 14
PO or RFI NO:
JOB NO: 22-10
PREVAILING WAGE:
BID DATE: 06/12/23

SCOPE OF WORK: Existing water line was not in the same alignment as on the plans. Valve had to be removed and 22 degree elbow installed the make tie-in the existing pipe. This resulted in the postponement of Gridley tie-in which had already been notified. See attached as-built plan.

ITEM NO.	QTY	UM	UNIT PRICE	TOTAL
----------	-----	----	------------	-------

WORK ITEMS:

- 1 Re-align excavation
- 2 Cut and remove valve
- 3 Add 22 degree elbow
- 4
- 5 2 Days Additional Time to Schedule Requested
- 6 Due to Gridley Schedule Change
- 7
- 8
- 9
- 10

ESTIMATED LABOR & EQUIPMENT COST:

1	FOREMAN	8	HRS	\$130.89	\$1,047.12
2	OPERATOR		HRS	\$126.55	\$0.00
3	LABORERS	16	HRS	\$98.03	\$1,568.48
4	TEAMSTER		HRS	\$99.72	\$0.00
				LABOR TOTAL	\$2,615.60
1	MOBILIZATION			\$200.00	\$0.00
2	CAT 305 MINI EXCAVATOR	8		\$80.00	\$640.00
3	CAT 420 BACKHOE			\$60.00	\$0.00
4	CAT 289D LOADER			\$80.00	\$0.00
5	WATER TRUCK			\$40.00	\$0.00
6	CREW TRUCK W/TOOLS	8		\$40.00	\$320.00
7	FLATBED DUMP TRUCK			\$40.00	\$0.00
8	FOREMAN TRUCK	8		\$25.00	\$200.00
9	T-29 3-AXLE DUMP TRUCK			\$50.00	\$0.00
10	T-31 4-AXLE DUMP TRUCK			\$60.00	\$0.00
11	4" PUMP			\$200.00	\$0.00
12	AIR COMPRESSOR			\$50.00	\$0.00
13	(6) TRENCH PLATES			\$30.00	\$0.00
				EQUIPMENT TOTAL	\$1,160.00

ESTIMATED MATERIAL COST

1	22 Degree Ductile Iron Elbow	1	EA	\$138.00	\$138.00
2	Mega Lug Kit	2	EA	\$67.00	\$134.00
3					\$0.00
4					\$0.00
5					\$0.00
				MATERIAL	\$272.00
				TAX 9.50%	\$25.84
				MATERIAL & TAX TOTAL	\$297.84

	DIRECT COSTS SUBTOTAL	\$4,073.44
EQUIP & MATERIAL MARKUP	15%	<u>\$218.68</u>
	DIRECT COSTS TOTAL	\$4,292.12
BOND FEE	1.50%	<u>\$64.38</u>
	GRAND TOTAL	<u><u>\$4,356.50</u></u>

GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE LEVELED IN PLACE ONSITE WITH NO HAUL OFF.
2. BID IS BASED UPON UNSIGNED, PRELIMINARY PLANS.
3. BID WORKING NORMAL WORK HOURS 7AM TO 4PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE).
6. PRICE VALID FOR 30 DAYS.

- CONSTRUCTION NOTES:**
(NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)
- ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.
 - COVER (EX) EXISTING WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMWD SPECIFICATIONS.
 - CONNECT TO (EX) WATER MAIN PER DETAIL.
 - RELOCATE (EX) WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - CONNECT WATER SERVICE TO (EX) WATER METER PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - RELOCATE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. INSTALL NEW VALVE BOX AND COVER AT NEW MAIN.
 - INSTALL NEW LATERAL HYDRANT VALVE AND BURY PER CMWD STANDARD DETAIL SD-109. REUSE EXISTING HYDRANT. NEW HYDRANT LOCATION TO BE COORDINATED WITH CMWD.
 - REPLACE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. REMOVE AND REPLACE (EX) VALVE BOX AND COVER AT NEW MAIN.
 - CONNECT FIRE SERVICE PIPE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-110. REPLACE EXISTING VALVE PER CMWD STANDARD DETAIL SD-103.
 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.
 - INSTALL BLOW OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.
 - INSTALL CARRY OFF PER CMWD STANDARD DETAIL SD-105.
 - NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. NEW METER BOX AND VALVE BOX CUSTOMER SIDE VALVE.

LATERAL TABLE

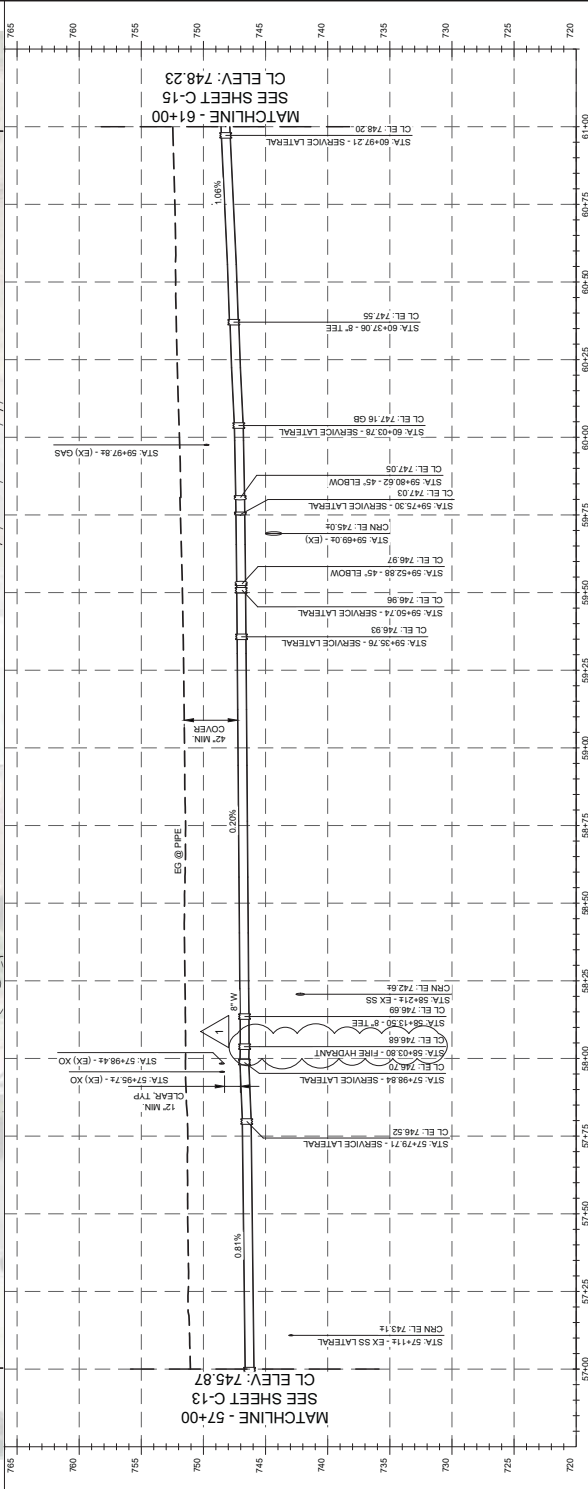
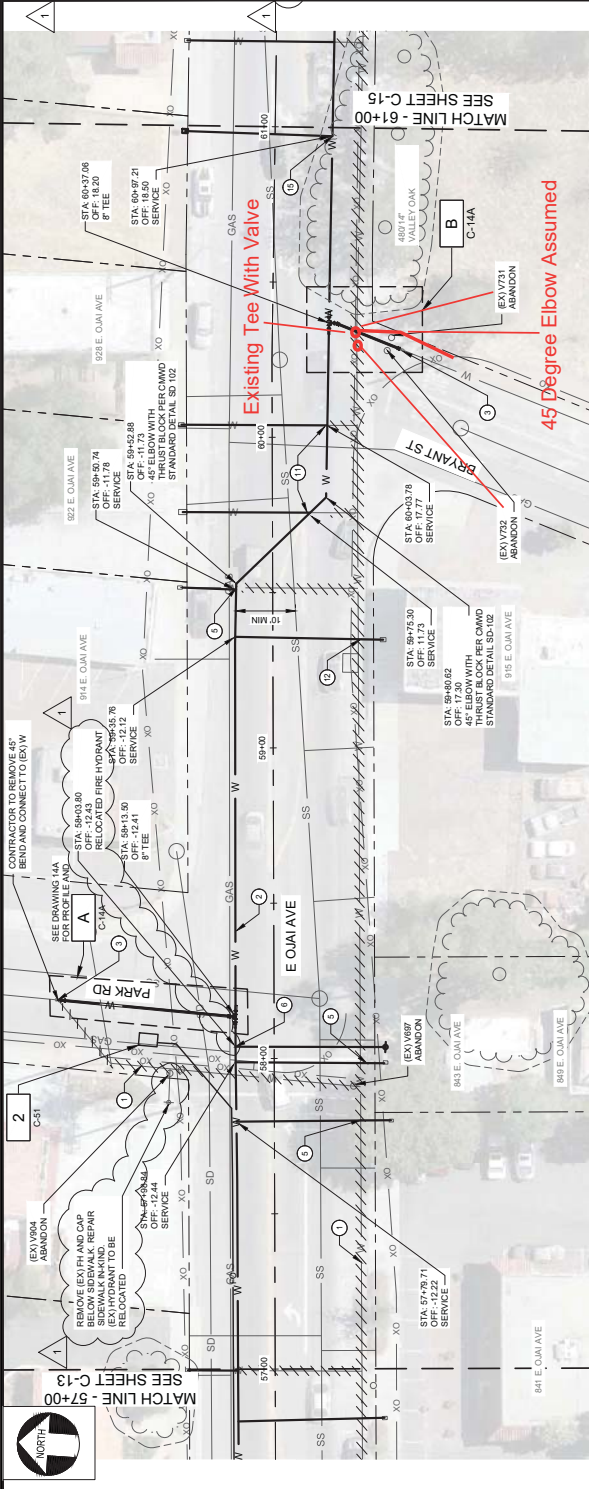
STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
57+79.71	5/8" (83203471)	843 E OJAI AVE	REPAIR CONCRETE AS NEEDED
57+98.84	5/8" (83203520)	848 E OJAI AVE	REPAIR CONCRETE AS NEEDED
58+03.80	FIRE HYDRANT 40		REPAIR ASPHALT AS NEEDED
58+35+76	5/8" (83203518)	916 E OJAI AVE	REPAIR CONCRETE AS NEEDED
59+50.74	5/8" (83202471)	914 E OJAI AVE	REPAIR CONCRETE AS NEEDED
59+75.30	5/8" (83202522)	922 E OJAI AVE	REPAIR CONCRETE AS NEEDED
60+03.78	5/8" (83202478)	928 E OJAI AVE	REPAIR CONCRETE AS NEEDED
60+97.21	NEW 2" SERVICE	928-942 OJAI AVE	REPAIR CONCRETE AS NEEDED



CASITAS MUNICIPAL WATER DISTRICT
WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

PROJECT NUMBER: 18-049
DRAWING NUMBER: C-14
SHEET NUMBER: 28 OF 42

PLAN AND PROFILE STA 57+00 TO 61+00



WATERWORKS ENGINEERS

DESIGNED BY: K. ALACON
DRAWN BY: D. LOUGHNEY
CHECKED BY: A. BORGIC
QA/QC BY: T. DURBIN

CASITAS Municipal Water District

DESCRIPTION: 01222 KA ADDENDUM NO. 3

DATE: 01/22/22

CHANGE ORDER REQUEST WORKSHEET

BID FOR: Overtime due to faulty valve, unable to get full shut off
LOCATION: Fairway Lane

CONTACT: Casitas Municipal Water District
 1055 North Ventura Ave.
 Oak View, CA. 93022

BID NO: 5832
COR NO: 15
PO or RFI NO:
JOB NO: 22-10
PREVAILING WAGE:
BID DATE: 06/12/23

SCOPE OF WORK: Due to faulty valve at Fairway Lane which would not shut completely off CMWS was forced to turn off the valve near Shady Lane. As a result Burns-Pacific needed to switch the services at Capri Hotel, Ranger Station and Fire Station which were not switched over to the new waterline. We are requesting overtime.

ITEM NO.	QTY	UM	UNIT PRICE	TOTAL
----------	-----	----	------------	-------

WORK ITEMS:

- 1 Overtime Rates
- 2
- 3 1 Day Additional Time Added To Schedule
- 4
- 5
- 6
- 7
- 8
- 9
- 10

ESTIMATED LABOR & EQUIPMENT COST:

OVERTIME

1	FOREMAN	5	HRS	\$171.92	\$859.60
2	OPERATOR		HRS	\$167.59	\$0.00
3	LABORERS	10	HRS	\$128.28	\$1,282.80
4	TEAMSTER		HRS	\$126.07	\$0.00
				LABOR TOTAL	\$2,142.40

1	MOBILIZATION			\$200.00	\$0.00
2	CAT 305 MINI EXCAVATOR			\$80.00	\$0.00
3	CAT 420 BACKHOE			\$60.00	\$0.00
4	CAT 289D LOADER			\$80.00	\$0.00
5	WATER TRUCK			\$40.00	\$0.00
6	CREW TRUCK W/TOOLS			\$40.00	\$0.00
7	FLATBED DUMP TRUCK			\$40.00	\$0.00
8	FOREMAN TRUCK			\$25.00	\$0.00
9	T-29 3-AXLE DUMP TRUCK			\$50.00	\$0.00
10	T-31 4-AXLE DUMP TRUCK			\$60.00	\$0.00
11	4" PUMP			\$200.00	\$0.00
12	AIR COMPRESSOR			\$50.00	\$0.00
13	(6) TRENCH PLATES			\$30.00	\$0.00
				EQUIPMENT TOTAL	\$0.00

ESTIMATED MATERIAL COST

1					
2					
3					\$0.00
4					\$0.00
5					\$0.00
				MATERIAL	\$0.00
				TAX	9.50%
					\$0.00

MATERIAL & TAX TOTAL		\$0.00
DIRECT COSTS SUBTOTAL		\$2,142.40
EQUIP & MATERIAL MARKUP	15%	\$0.00
DIRECT COSTS TOTAL		\$2,142.40
BOND FEE	1.50%	\$32.14
GRAND TOTAL		\$2,174.54

GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE LEVELED IN PLACE ONSITE WITH NO HAUL OFF.
2. BID IS BASED UPON UNSIGNED, PRELIMINARY PLANS.
3. BID WORKING NORMAL WORK HOURS 7AM TO 4PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE).
6. PRICE VALID FOR 30 DAYS.

CHANGE ORDER REQUEST WORKSHEET

BID FOR: 6" TO 8" Adapter installation
LOCATION: Golden West Ave.
CONTACT: Casitas Municipal Water District
 1055 North Ventura Ave.
 Oak View, CA. 93022

BID NO: 5832
COR NO: 16
PO or RFI NO:
JOB NO: 22-10
PREVAILING WAGE:
BID DATE: 06/13/23

SCOPE OF WORK: The plans call for a six inch pipe to tie in to the existing at Golden West Ave. The pipe was actually 8 inch on Golden West so a reducer was installed to match the existing pipe. Attached is an as-built plan.

ITEM NO.	QTY	UM	UNIT PRICE	TOTAL
----------	-----	----	------------	-------

WORK ITEMS:

- 1 Addition of 8" to 6" reducer
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

ESTIMATED LABOR & EQUIPMENT COST:

OVERTIME

1	FOREMAN	2	HRS	\$171.92	\$343.84
2	OPERATOR		HRS	\$167.59	\$0.00
3	LABORERS	2	HRS	\$128.28	\$256.56
4	TEAMSTER		HRS	\$126.07	\$0.00
				LABOR TOTAL	\$600.40

1	MOBILIZATION			\$200.00	\$0.00
2	CAT 305 MINI EXCAVATOR			\$80.00	\$0.00
3	CAT 420 BACKHOE			\$60.00	\$0.00
4	CAT 289D LOADER			\$80.00	\$0.00
5	WATER TRUCK			\$40.00	\$0.00
6	CREW TRUCK W/TOOLS			\$40.00	\$0.00
7	FLATBED DUMP TRUCK			\$40.00	\$0.00
8	FOREMAN TRUCK			\$25.00	\$0.00
9	T-29 3-AXLE DUMP TRUCK			\$50.00	\$0.00
10	T-31 4-AXLE DUMP TRUCK			\$60.00	\$0.00
11	4" PUMP			\$200.00	\$0.00
12	AIR COMPRESSOR			\$50.00	\$0.00
13	(6) TRENCH PLATES			\$30.00	\$0.00
				EQUIPMENT TOTAL	\$0.00

ESTIMATED MATERIAL COST

1	8" x 6" Ductile Iron Reducer	1	EA	\$101.00	\$101.00
2	8" Mega -lug kit	2	EA	\$67.00	\$134.00
3	8" 45 Degree Ductile Iron Elbow	1	EA	\$138.00	\$138.00
4					\$0.00
5					\$0.00

			MATERIAL	\$373.00
			TAX 9.50%	\$35.44
			MATERIAL & TAX TOTAL	\$408.44

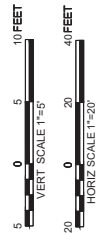
	DIRECT COSTS SUBTOTAL	\$1,008.84
EQUIP & MATERIAL MARKUP	15%	<u>\$61.27</u>
	DIRECT COSTS TOTAL	\$1,070.10
BOND FEE	1.50%	<u>\$16.05</u>
	GRAND TOTAL	<u><u>\$1,086.15</u></u>

GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE LEVELED IN PLACE ONSITE WITH NO HAUL OFF.
2. BID IS BASED UPON UNSIGNED, PRELIMINARY PLANS.
3. BID WORKING NORMAL WORK HOURS 7AM TO 4PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE).
6. PRICE VALID FOR 30 DAYS.

- CONSTRUCTION NOTES:**
(IND) ALL NOTES ARE REFERENCED ON EACH DRAWING!
- ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.
 - COVER (IND) AND WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMWD SPECIFICATIONS.
 - CONNECT TO (EX) WATER MAIN PER DETAIL.
 - RELOCATE (EX) WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - CONNECT WATER SERVICE TO (EX) WATER METER PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - RELOCATE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. INSTALL NEW VALVE BOX AND COVER AT NEW MAIN.
 - INSTALL NEW LATERAL HYDRANT VALVE AND BURY PER CMWD STANDARD DETAIL SD-109. REUSE EXISTING HYDRANT. NEW HYDRANT LOCATION TO BE COORDINATED WITH CMWD.
 - REPLACE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. REMOVE AND REPLACE (EX) VALVE BOX AND COVER AT NEW MAIN.
 - CONNECT FIRE SERVICE PIPE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-103.
 - REPLACE EXISTING VALVE PER CMWD STANDARD DETAIL SD-103.
 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.
 - INSTALL BLOW OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.
 - INSTALL CARRY PER CMWD STANDARD DETAIL SD-105.
 - NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. NEW METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

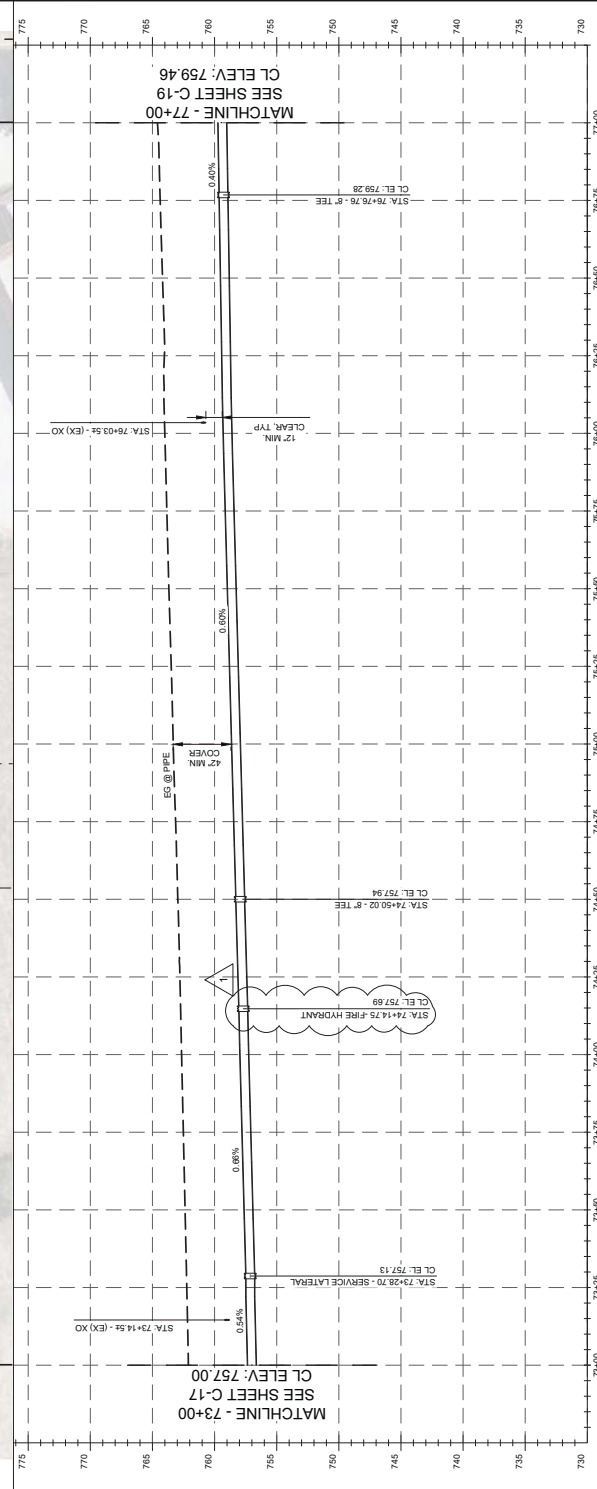
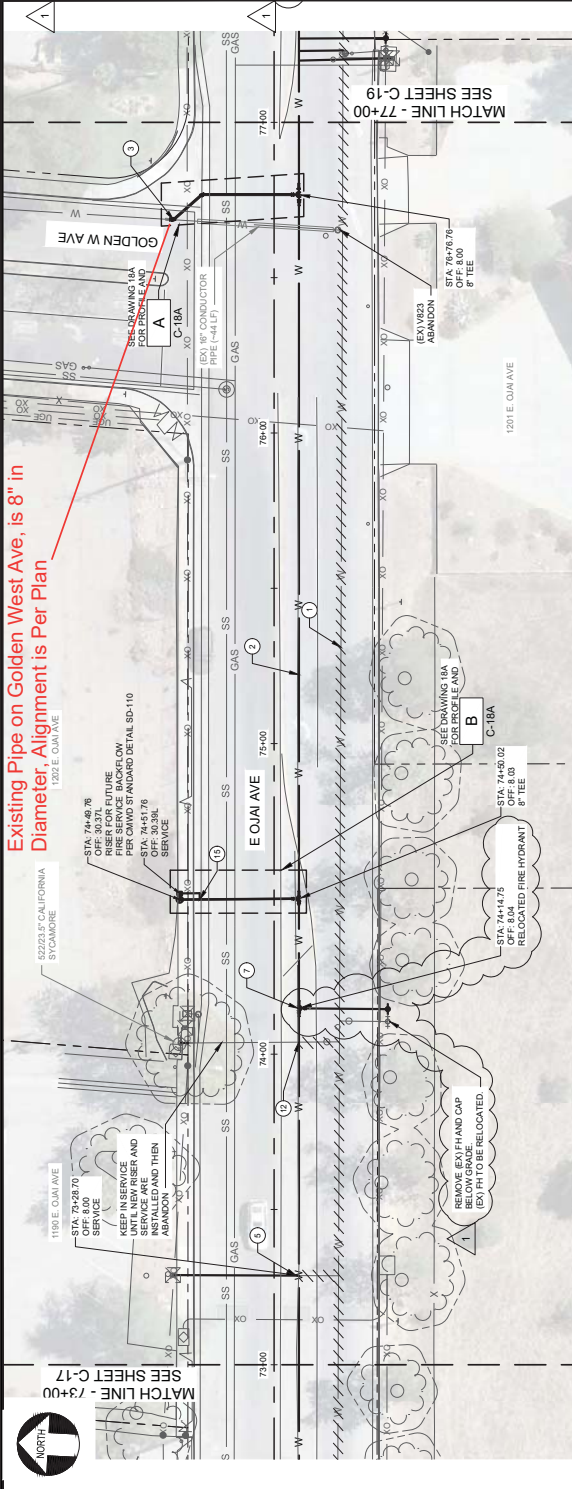
STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
73+28.70	1" (83210106)	1190 E OJAI AVE	REPAIR CONCRETE AS NEEDED
74+14.75	FIRE HYDRANT 138		RELOCATE HYDRANT
74+49.76	NEW RISER	1202 E OJAI AVE	FIRE SERVICE RELOCATED
74+51.76	NEW 2" METER	1202 E OJAI AVE	RELOCATED



CASITAS MUNICIPAL WATER DISTRICT
WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

PROJECT NUMBER: 18-049
DRAWING NUMBER: C-18
SHEET NUMBER: 34 OF 42

PLAN AND PROFILE STA 73+00 TO 77+00



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	01/22	KA	ADDENDUM NO. 3

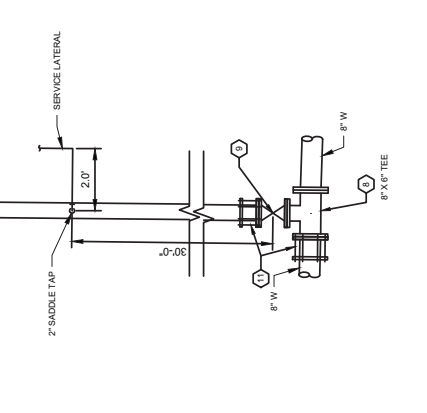
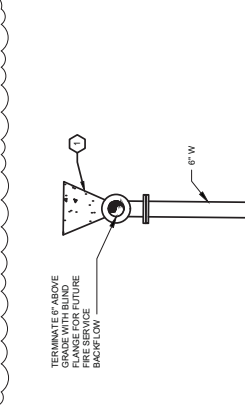
DESIGNED: K. ALACON
DRAWN: D. LOUGHNEY
CHECKED: A. BORGIC
QA/QC: T. DURBIN

SCALE: AS SHOWN
SCALE ACCORDINGLY

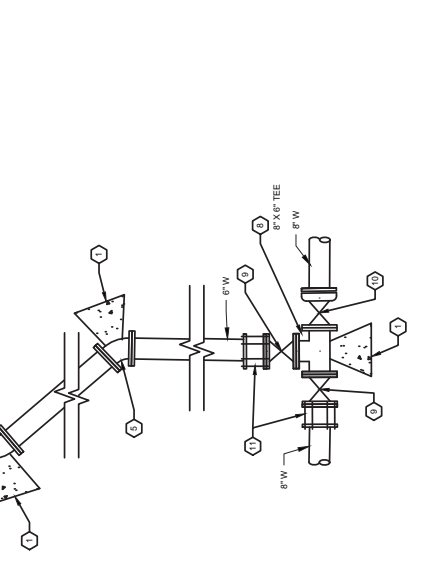
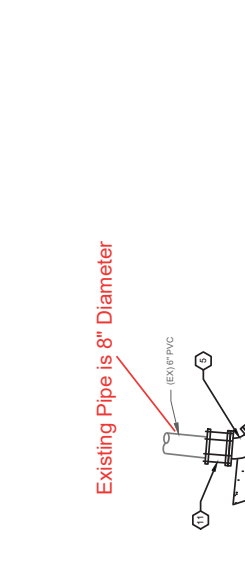
WATERWORKS ENGINEERS

CASITAS Municipal Water District

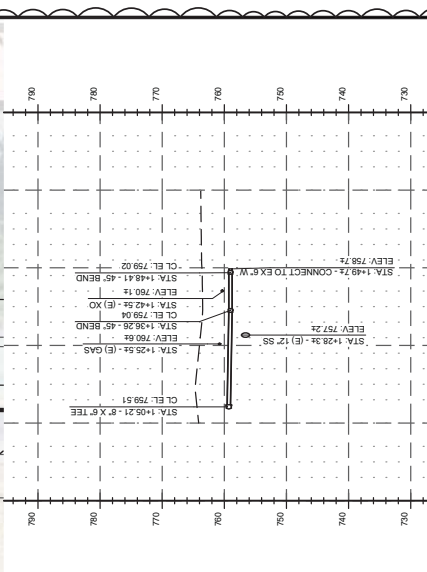
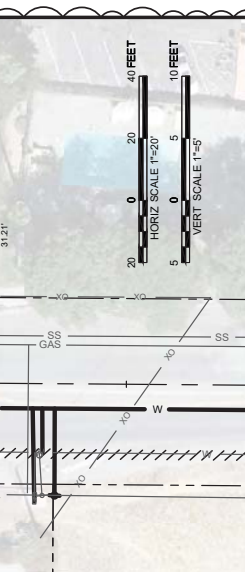
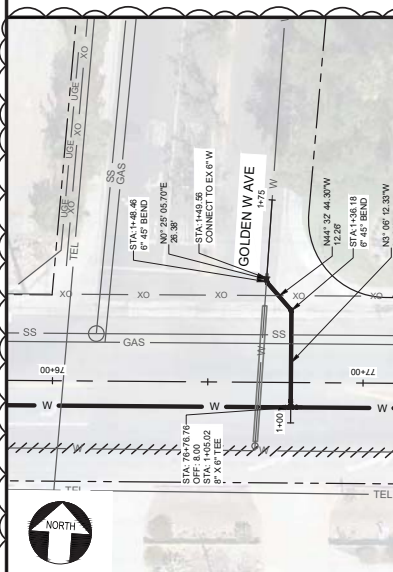
ITEM NO.	ITEM DESCRIPTION**
1	THRUST BLOCK PER CMMWD STANDARD DETAIL SD-102
2	COUPLING
3	11.25" ELBOW (FL X FL)
4	22.5" ELBOW (FL X FL)
5	45" ELBOW (FL X FL)
6	90" ELBOW (FL X FL)
7	CROSS (FL X FL)
8	TEE (FL X FL)
9	GATE VALVE (FL X FL)
10	REF. CARTRIDGE
11	SOLID SLEEVE MJ COUPLING WITH (2) RESTRAINED GLANDS
12	DIP
13	*RMJ LOCATIONS MAY BE MODIFIED TO CORRESPOND WITH CONTRACTOR'S DESIRED WORK PHASING, STARTING POINT, AND TERMINATIONS AT TIE-INS. RMJ SHOWN FOR EASE OF INSTALLATION. CONTRACTOR MAY ELECT TO UTILIZE RECA IN LIEU OF RMJ AT TIE-IN LOCATIONS AT NO ADDITIONAL COST TO OWNER.
14	**SEE CMMWD SPECIFICATIONS SECTION 5.3, 5.4 AND 5.5



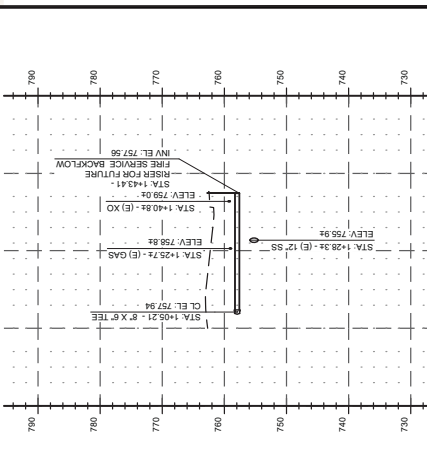
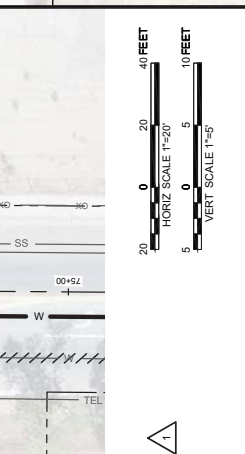
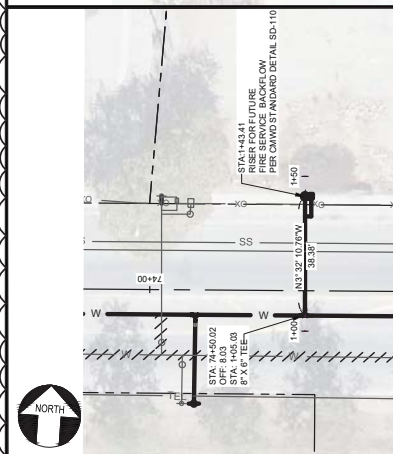
A DETAIL
C-18 NTS



B DETAIL
C-18 NTS



C DETAIL
C-18 NTS



D DETAIL
C-18 NTS

01222 KA ADDENDUM NO. 3

CONTRACT NUMBER

DESIGNED: K. ALACON
DRAWN: D. LOUGHNEY
CHECKED: A. BORGIC
DATE: T. DURBIN

PROJECT NUMBER: 18-049
DRAWING NUMBER: C-18A
SHEET NUMBER: 35 OF 42

CASITAS MUNICIPAL WATER DISTRICT
WEST PICO BLVD. CUM. ANHUIE. PUEBLO, TEXAS

STA 73+00 TO 77+00
CONNECTION DETAILS

THIS DRAWING IS 2 INCHES AT FULL SCALE UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND SPACING SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.

SCALE: VARIES

WATERWORKS ENGINEERS

CONSTRUCTIONABILITY

CASITAS
Municipal Water District

01222 KA ADDENDUM NO. 3



REQUEST FOR INFORMATION

NO: 29

Project: West and East Ojai Avenue Pipeline **Date Issued:** 6/14/2023
Specification Number: 19-411
Engineer: Water Works Engineers **Priority:** Routine
Contractor: Burns Pacific Expedite
Urgent

Drawing Sheet(s): None **Specification Section(s)/Paragraph(s):** 19-411 Part C

Submitted By: Lisa Burns
Cost Impact: _____
Schedule Time Impact: 13 days

Description: We are asking for corrections to CO# 3 due to clerical errors and misunderstanding of calendar days used for time extensions; we apologize for the delay and the inconvenience.
Item 6 gave 4 days extension for 11/10/22 (not in dispute for this RFI), 12/27/22, 12/28/22, and 12/30/22. Please see the attached daily which shows our error in not claiming 12/29/22. Please also note that we should have claimed 12/23 as local caltrans office required us to take this off as part of their Friday through Monday rule. Please see attached for continued description to this RFI.

Proposed Resolution: Extension of contract time 13 days

Engineer's Response:
Approved days for time extension: 12/24, 12/25, 12/29, 12/31/2022, 1/1/23, 1/7, 1/8, 1/14 and 1/15. Total days 9 days.
Not approved days: 12/23, 12/26/22, 1/2/23, 1/16/23 (These are the district holidays)

Lindsay Cao

Signature

7/10/2023

Date

Casitas Municipal Water District

Company

Therefore, the dates from 12/23/22 through 1/17/23 are 26 consecutive, calendar days that BPC could not work. We are taking away the 13 days that were granted in CO#3 (for these dates from 12/23/22-1/17/23) from this 26 which is why we are requesting 13 days to be added to contract. We appreciate your consideration of this request.

December 2022

November 2022
 S M T W T F S
 1 2 3 4 5
 6 7 8 9 10 11 12
 13 14 15 16 17 18 19
 20 21 22 23 24 25 26
 27 28 29 30

December 2022
 S M T W T F S
 1 2 3
 4 5 6 7 8 9 10
 11 12 13 14 15 16 17
 18 19 20 21 22 23 24
 25 26 27 28 29 30 31

January 2023
 S M T W T F S
 1 2 3 4 5 6 7
 8 9 10 11 12 13 14
 15 16 17 18 19 20 21
 22 23 24 25 26 27 28
 29 30 31

- Calendar
- Home
- United States holidays
- Siri Suggestions
- Birthdays
- US Holidays
- Calendar
- Birthdays

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Handwritten notes in the calendar grid:

- Monday, Dec 19:** Hindu Kush (1st day)
- Monday, Dec 26:** Christmas Holiday (Observed), Christmas Day (Observed), Christmas Day (Observed), Nwintara. Calendar day... District Holiday
- Tuesday, Dec 27:** Rain day off. Approved on Item 6 CO# 3
- Wednesday, Dec 28:** Rain day. Approved on Item 4 CO # 3
- Thursday, Dec 29:** Clerical error. See attached daily. Roads wet
- Friday, Dec 30:** Rain day. Approved on Item 6 CO # 3. Raj office off requires off due to holiday on Monday. District Holiday
- Saturday, Dec 31:** Christmas Eve, Christmas Eve. Calendar day confirmed. Of no work. New Year's Eve, New Year's Eve. Calendar day...

January 2023

December 2022

S	M	T	W	T	F	S
			1	2	3	4
	4	5	6	7	8	9
	10	11	12	13	14	15
	16	17	18	19	20	21
	22	23	24	25	26	27
	28	29	30	31		

January 2023

S	M	T	W	T	F	S
			1	2	3	4
	5	6	7	8	9	10
	11	12	13	14	15	16
	17	18	19	20	21	22
	23	24	25	26	27	28
	29	30	31			

February 2023

S	M	T	W	T	F	S
			1	2	3	4
	5	6	7	8	9	10
	11	12	13	14	15	16
	17	18	19	20	21	22
	23	24	25	26	27	28

- Calendar
- Home
- United States holidays
- Birthdays
- Siri Suggestions
- US Holidays
- Birthdays
- Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 New Year's Day Calendar day... District Holiday	2 New Year's Day observed Calendar day... District Holiday	3 Rain day Approved on Item 7 CO# 3	4 Rain day Approved on Item 7 CO# 3	5 Rain day Approved on Item 7 CO# 3	6 Rain day Approved on Item 7 CO# 3	7 Calendar day...
8 Calendar day...	9 Rain day Approved on Item 7 CO# 3	10 Rain day Approved on Item 7 CO# 3	11 Rain day Approved on Item 7 CO# 3	12 Rain day Approved on Item 7 CO# 3	13 Rain day Approved on Item 7 CO# 3	14 Calendar day...
15 Calendar day...	16 Martin Luther King Jr. Day Calendar day... District Holiday	17 Rain day Approved on Item 7 CO# 3	18	19	20 *circled days were already given (=13) however, because rain, holiday, + Raj office requirements we were off 12/23/22 thru 1/17/23 which is 26 consecutive calendar days, subtract 13 days* COR#3 already gave us and we get 13 days we are	21 Calendar continued
22	23	24	25	26	27	28
29	30	31				

BUKINS PACIFIC CO. CONSTRUCTION, INC.

DAILY WORK REPORT

Contractor's License No. 394798

805 E. Thousand Oaks Blvd.
 Thousand Oaks, CA 91360
 Office: 805-371-4171 Fax: 805-495-6014

Job No: 22-10
 Daily No: _____
 Date: 12-29-22
 Day: Thursday
 Weather: _____

For: Casitas

Project: West and East Ojai Ave Pipeline

Foreman's Signature: Ed Rivera

Init No.	Equipment	Hours	Rate	Straight Time		Overtime		Double Time		Total
				Hrs	Amount	Hrs	Amount	Hrs	Amount	
17	Crew Truck	12.0		8.0		2.0				
8	CAT 289 SkStR sweeper	3.0		8.0		4.0				
				Labor Subtotal						
				Materials / Sub-Contractors / Suppliers						Inv. Amt.
				United Rentals - stake bed truck for traffic control - open ticket						
				Vendor Subtotal						
						15%				Vendor Total
DAILY REPORT TOTAL										

WORK DESCRIPTION:

rain day no contract work. Rain and wet streets required checking SWPPTS, sweeping street and repairing cold patched plates.

CHANGE ORDER REQUEST WORKSHEET

BID FOR: Bristol Road Fire Hydrant Lateral
LOCATION: 12+87.58 Ojai Ave.

CONTACT: Casitas Municipal Water District
1055 North Ventura Ave.
Oak View, CA. 93022

BID NO: 5832
COR NO: 18
PO or RFI NO:
JOB NO: 22-10
PREVAILING WAGE:
BID DATE: 07/11/23

SCOPE OF WORK: The Fire Hydrant lateral off the main line went over the existing sewer line with enough cover but had to go under the existing water line, an unknown pipe, edison line and fiber optic. Addition hand excavation was requires and addition 45 degree elbows installed with megalugs.

ITEM NO.	QTY	UM	UNIT PRICE	TOTAL
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WORK ITEMS:

- 1 Excavate under water, edison, fiberoptic and unknown
- 2 pipes, some digging by hand.
- 3 Install additional 45 degree elbows
- 4
- 5 As-built plan attached
- 6
- 7
- 8
- 9 **Requesting 4 additional days added to schedule.**
- 10

ESTIMATED LABOR & EQUIPMENT COST:

OVERTIME

1	FOREMAN	16	HRS	\$171.92	\$2,750.72
2	OPERATOR	32	HRS	\$167.59	\$5,362.88
3	2 LABORERS	32	HRS	\$128.28	\$4,104.96
4	TEAMSTER		HRS	\$126.07	\$0.00
				LABOR TOTAL	\$12,218.56

1	MOBILIZATION			\$200.00	\$0.00
2	CAT 305 MINI EXCAVATOR			\$80.00	\$0.00
3	CAT 420 BACKHOE	32		\$60.00	\$1,920.00
4	CAT 289D LOADER			\$80.00	\$0.00
5	WATER TRUCK			\$40.00	\$0.00
6	CREW TRUCK W/TOOLS	32		\$40.00	\$1,280.00
7	FLATBED DUMP TRUCK			\$40.00	\$0.00
8	FOREMAN TRUCK			\$25.00	\$0.00
9	T-29 3-AXLE DUMP TRUCK			\$50.00	\$0.00
10	T-31 4-AXLE DUMP TRUCK			\$60.00	\$0.00
11	4" PUMP			\$200.00	\$0.00
12	AIR COMPRESSOR			\$50.00	\$0.00
13	(6) TRENCH PLATES			\$30.00	\$0.00
				EQUIPMENT TOTAL	\$3,200.00

ESTIMATED MATERIAL COST

1					\$0.00
2	6" Mega -lug kit	8	EA	\$60.00	\$480.00
3	6" 45 Degree Ductile Iron Elbow	4	EA	\$112.00	\$448.00
4					\$0.00
5					\$0.00
				MATERIAL	\$928.00
				TAX	9.50%
					\$88.16

	MATERIAL & TAX TOTAL	\$1,016.16
	DIRECT COSTS SUBTOTAL	\$16,434.72
EQUIP & MATERIAL MARKUP	15%	<u>\$632.42</u>
	DIRECT COSTS TOTAL	\$17,067.14
BOND FEE	1.50%	<u>\$256.01</u>
	GRAND TOTAL	<u><u>\$17,323.15</u></u>

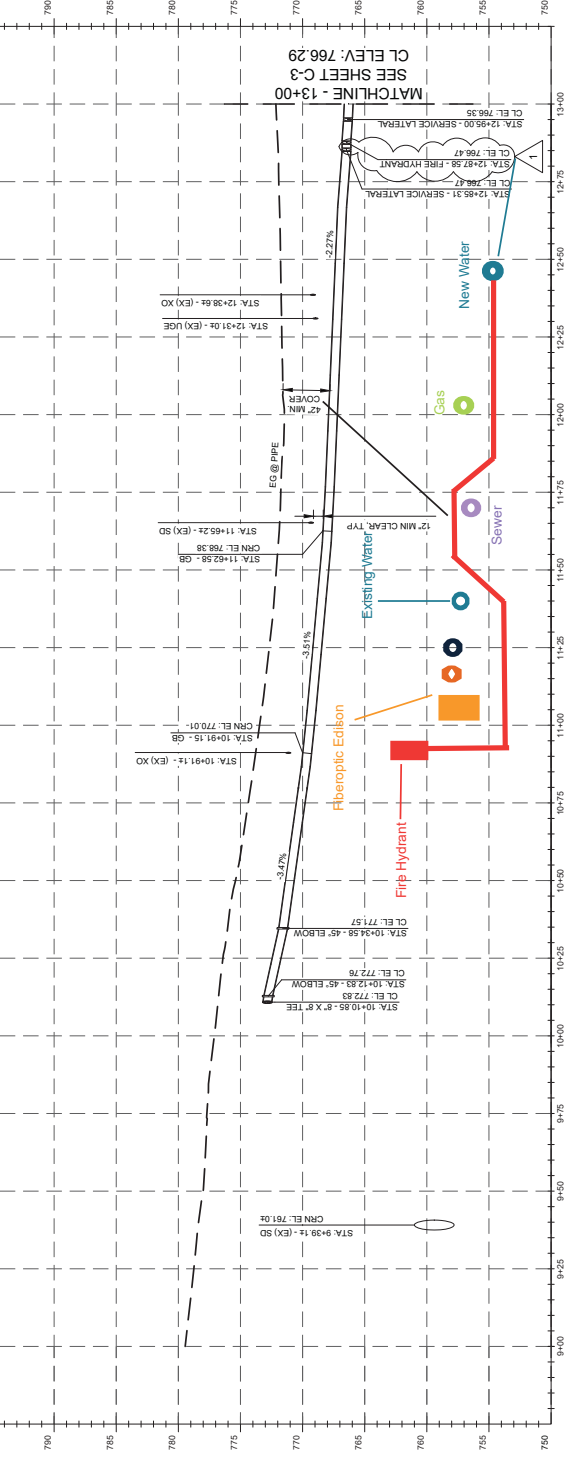
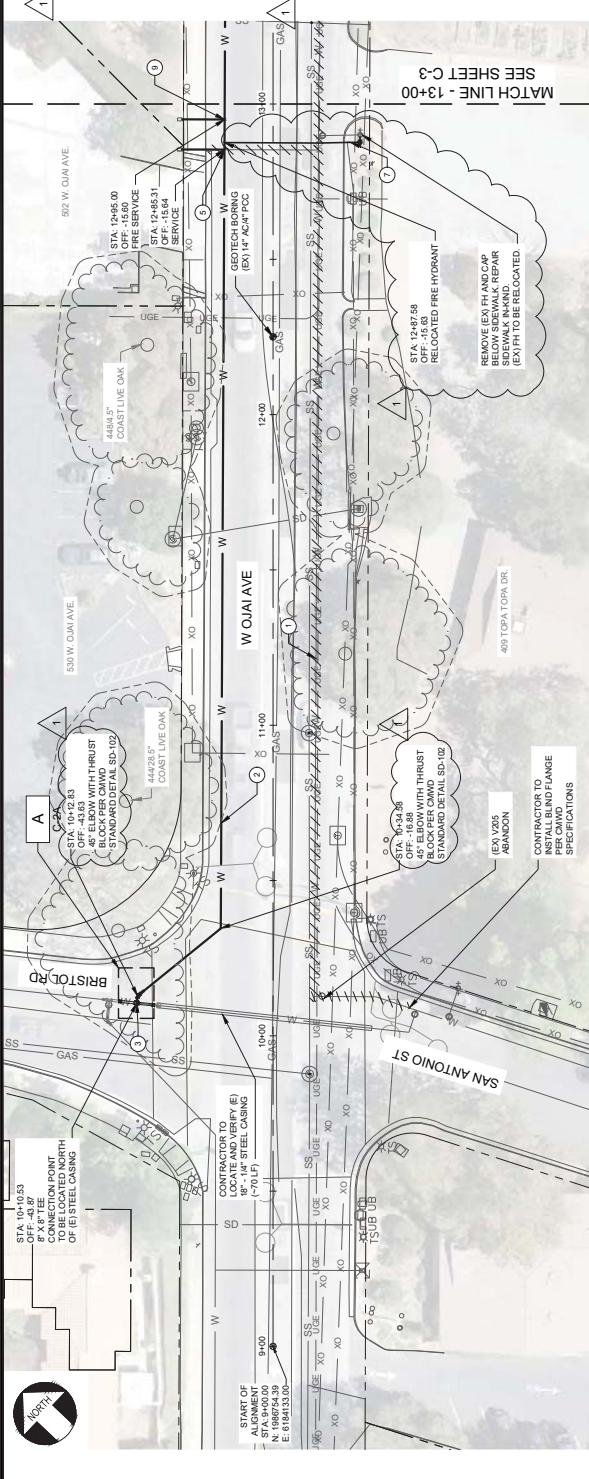
GENERAL EXCLUSIONS, QUALIFICATIONS & REMARKS:

1. ALL SPOILS GENERATED FROM EXCAVATION WILL BE LEVELED IN PLACE ONSITE WITH NO HAUL OFF.
2. BID IS BASED UPON UNSIGNED, PRELIMINARY PLANS.
3. BID WORKING NORMAL WORK HOURS 7AM TO 4PM
4. BID EXCLUDES PERMITS, FEES, ENGINEERING, SOIL TESTING AND BONDS.
5. BOND RATE 1.5% (IF APPLICABLE).
6. PRICE VALID FOR 30 DAYS.

- CONSTRUCTION NOTES:**
 (NOT ALL NOTES ARE REFERENCED ON EACH DRAWING)
- ABANDON (EX) WATER MAIN AND VALVES IN PLACE PER CALTRANS NOTE 4 ON DRAWING C-6.
 - COVER (EX) EXISTING WATER MAIN PIPING, FITTINGS, VALVES AND OTHER APPURTENANCES PER CMWD SPECIFICATIONS.
 - CONNECT TO (EX) WATER MAIN PER DETAIL.
 - RELOCATE (EX) WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - CONNECT WATER SERVICE TO (EX) WATER METER PER CMWD STANDARD DETAIL SD-111. REPLACE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - RELOCATE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. INSTALL NEW VALVE BOX AND COVER AT NEW MAIN.
 - INSTALL NEW LATERAL HYDRANT VALVE AND BURY PER CMWD STANDARD DETAIL SD-109. REUSE EXISTING HYDRANT. NEW HYDRANT LOCATION TO BE COORDINATED WITH CMWD.
 - REPLACE (EX) HYDRANT AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-109. REMOVE AND REPLACE (EX) VALVE BOX AND COVER AT NEW MAIN.
 - CONNECT FIRE SERVICE PIPE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-110. REPLACE EXISTING VALVE PER CMWD STANDARD DETAIL SD-103.
 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX AND ADD NEW CUSTOMER SIDE VALVE.
 - CONNECT WATER SERVICE TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. REUSE (EX) METER BOX.
 - INSTALL BLOW OFF PER CMWD STANDARD DETAIL SD-108, TYPE A.
 - INSTALL CARV PER CMWD STANDARD DETAIL SD-105.
 - NEW WATER SERVICE AND CONNECT TO NEW WATER MAIN PER CMWD STANDARD DETAIL SD-111. NEW METER BOX AND ADD NEW CUSTOMER SIDE VALVE.

STATION	METER SIZE (NUMBER)	PROPERTY ADDRESS	NOTES
12+85.31	3/8"	502 W OJAI AVE	REPAIR CONCRETE AS NEEDED
12+87.55	FIRE HYDRANT 30		REPAIR ASPHALT AS NEEDED
12+85.00	2" FIRE SERVICE	410 W OJAI AVE	REPAIR CONCRETE AS NEEDED

LATERAL TABLE



CASITAS MUNICIPAL WATER DISTRICT
 WEST AND EAST OJAI AVENUE PIPELINE REPLACEMENT

PLAN AND PROFILE STA 9+00 TO 13+00

PROJECT NUMBER
18-049

DRAWING NUMBER
C-2

SHEET NUMBER
8 OF **42**



DESIGNED: K. ALACON
 DRAWN: D. LOUGHNEY
 CHECKED: A. BORJIC
 QADC: T. DURBIN



REV	DATE	BY	DESCRIPTION
1	01/22/21	KA	ADDENDUM NO. 3

**CASITAS MUNICIPAL WATER DISTRICT
MEMORANDUM**

TO: BOARD OF DIRECTORS

FROM: Michael Flood, General Manager

SUBJECT: Declaration of Casitas MWD items (welder & pumps) and four vehicles (Unit #19, Unit #35, Unit #54 & Unit #72) as surplus and direct staff to dispose of the same.

DATE: 07/21/2023

RECOMMENDATION:

It is recommended that the Board of Directors declare the noted items and vehicles as surplus and direct staff to dispose of the same.

DISCUSSION:

The following items are no longer being used by operations and should be declared surplus:

- Unit #125 – 1998 Lincoln Arc Welder
- Portable Junk Pumps – Wacker Neuson PT2 (eight pumps)

The following vehicles are also no longer needed by staff due to replacements being received or significant repair/safety issues:

The vehicles consist of:

- Unit #19 – 1997 Ford 3/4 Ton Utility (replaced)
- Unit #35 – 2001 Chevy 1/2 Ton Pickup (replaced)
- Unit #54 – 1998 Chevy 1 Ton Dump Truck (cost of fuel system repairs exceed value of the unit)
- Unit #72 – 1981 Chevy Man Lift Truck (boom unsafe for tree trimming use)

Based on internet searches for similar equipment, the estimated amount that the District could receive through an online auction are:

- Lincoln Arc Welder - \$500 - \$2,500
- (Eight) Wacker Neuson Pumps - \$400 - \$3,200 total (\$50 - \$400 each)

The vehicles are anticipated to generate the following amount of revenue via an online auction:

- Unit #19 – 1997 Ford 3/4 Ton Utility - \$1,000 - \$2,000
- Unit #35 – 2001 Chevy 1/2 Ton Pickup - \$700 - \$1,500
- Unit 54 – 1998 Chevy 1 Ton Dump Truck - \$100 - \$500
- Unit 72 – 1981 Chevy Man Lift Truck - \$500 - \$1,000

Range of Estimated Total Proceeds: \$3,200 to \$10,700

Staff expects to dispose of the items and vehicles through an online auction through GovDeals.



CASITAS MUNICIPAL WATER DISTRICT

HYDROLOGY REPORT

WATER YEAR 2022

July 2023

Prepared by Virgil Clary, PE, Senior Project Manager



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Appendix A – Rainfall Data

Appendix B – Streamflow Gaging Station Data

Appendix C – Fisheries Storm Peak Logs

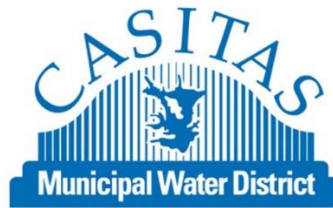
Appendix D – Casitas Reservoir Operational Data

Appendix E – Reservoir Elevation Data

Appendix F – System Delivery Data for Mira Monte Well and Ojai Water System

Appendix G – Ambient Air Temperature Data

Appendix H – Historical Hydrology Data



1. INTRODUCTION

Casitas Municipal Water District (CMWD or Casitas), in cooperation with the Ventura County Watershed Protection District (VCWPD) and the U.S. Geological Service (USGS), collects hydrology data on the Ventura River system. Figure 1-1 shows the watershed boundaries including drainage areas, stream gaging stations, and weather stations. The hydrology data is a valuable asset for developing an understanding of the water resources of the Ventura River system. Since 1981, CMWD has summarized the data into a series of annual reports. This report presents information and data for the 2021–2022 Water Year (WY 2022). Data is also presented for Calendar Year 2022 for comparison to historical data.

Casitas acquired the Ojai Water System in June 2017 which serves a population of 6,801 as of December 31, 2020. The main water source for this system is a wellfield which draws from the Ojai Valley Groundwater Basin, located within the San Antonio Creek Watershed, a sub-basin to the Ventura River Watershed. The Ojai Water System is supplemented by surface water deliveries from Casitas Reservoir (also referred to as Lake Casitas herein), particularly in times of drought and/or high demand when aquifers are typically depleted and well production is reduced or limited.

Ventura County experienced a major fire (the Thomas Fire) in WY 2018 which burned nearly the entire watershed, as shown in Figure 1-2. Hydrologic impacts from the Thomas Fire are subsiding with fewer impacts observed in WY 2022 than in previous affected years.

Streamflow monitoring was negligibly impacted by the Thomas Fire as minimal scouring occurred in WY 2022 at Santa Ana/Coyote Creeks. Data from gaging stations continue to be impacted by heavy sediment loads deposited during post-fire storm events. Further discussion of the impacts and corrective actions taken is included in Section 2.2 herein.

Data from an additional rainfall station located on Ojai's East End and a San Antonio Creek gaging station are included in this report to reflect hydrologic conditions within the San Antonio Creek Watershed. Ojai Water System Sources and Deliveries are also included in this report.

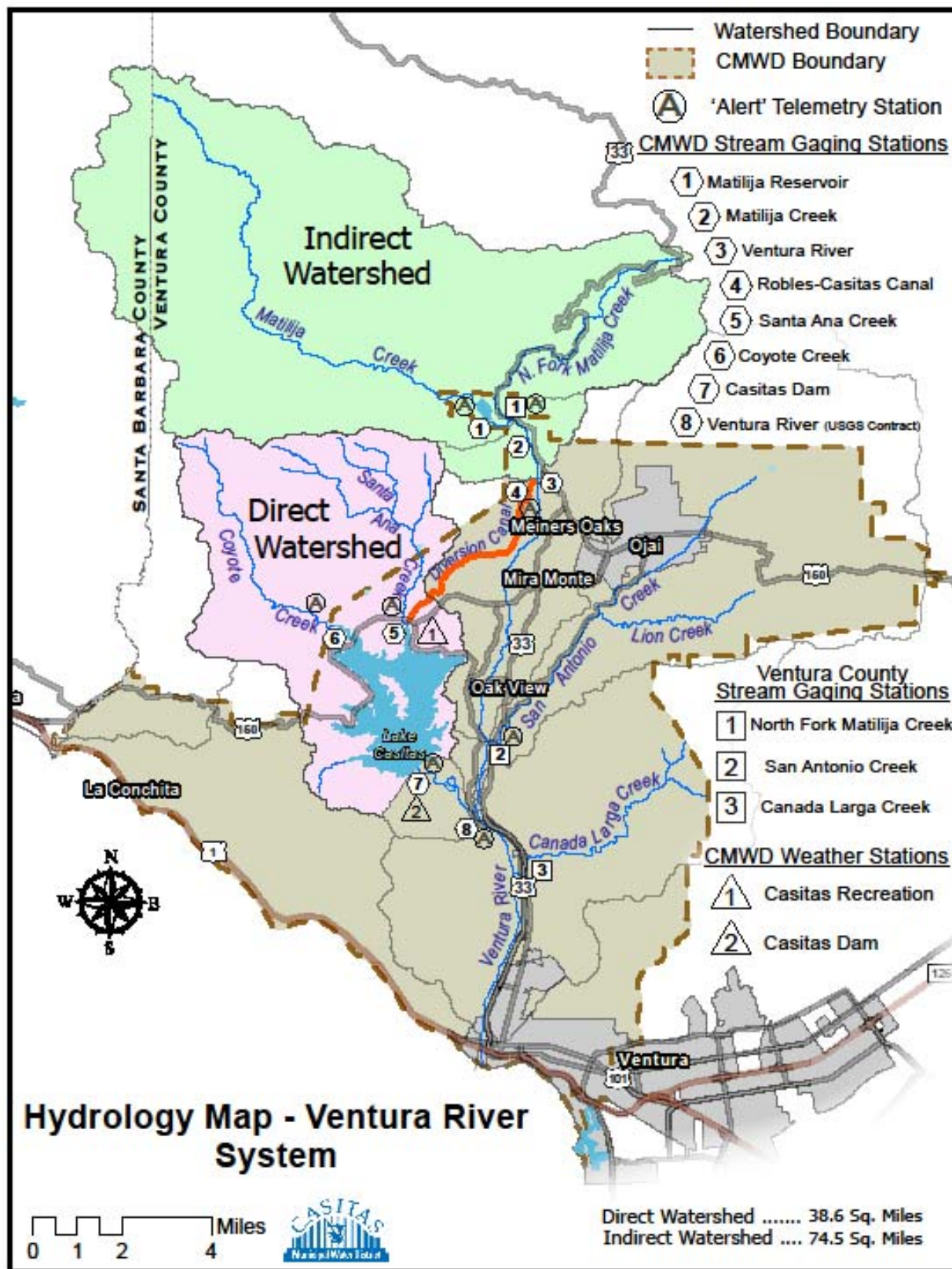


FIGURE 1-1 – Watershed of Lake Casitas

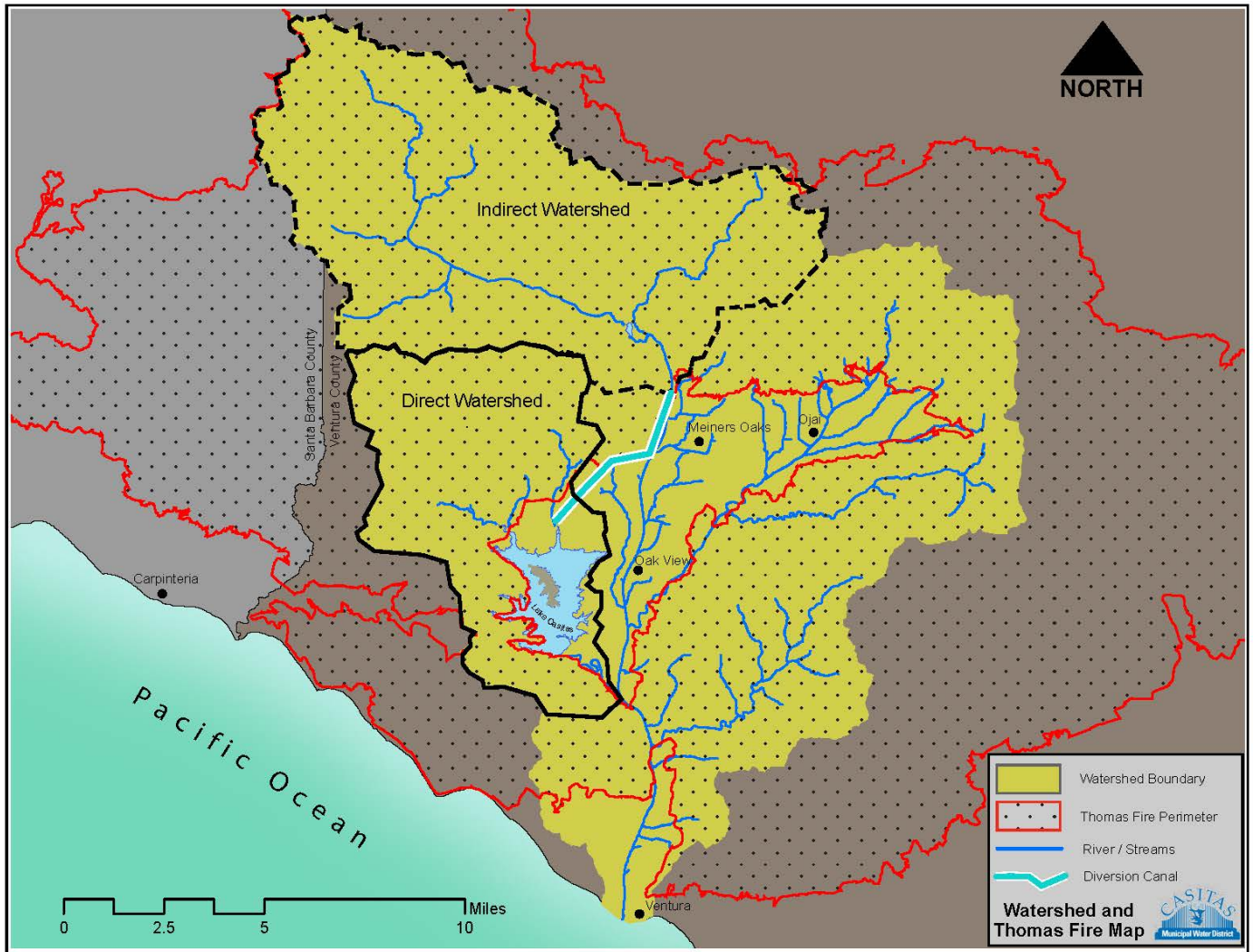


FIGURE 1-2 – Thomas Fire Boundary

2. WATER YEAR 2022 SUMMARY

The Water Year (WY) is a standard used for reporting hydrological cycles. It begins on October 1 of the preceding year and ends September 30 of the named water year. For this report:

- WY 2022 began on October 1, 2021 and ended September 30, 2022

There are four key elements of collected data evaluated this report: 1) rainfall, 2) streamflow conditions, 3) lake storage and system deliveries and 4) ambient air temperatures. Each of these elements are monitored and recorded by CMWD on a daily basis. The following subsections are summaries of the hydrologic characteristics of WY 2022.

2.1.Rainfall

Rainfall and evaporation data are collected on a daily basis by Casitas at two stations, one at the Casitas Dam and one at the Lake Casitas Recreational Area (LCRA). The methods for data collection are standardized for consistency. Rainfall data for Matilija Dam and Thacher School are obtained from VCWPD. Raw data is provided in Appendix A.

2.1.1. WY 2022

The average of the four rainfall stations was 18.71 inches for WY 2022. This is below the long-term average of 23.75 inches. Casitas Dam received 19.33 inches, Lake Casitas Recreation received 17.15 inches, Matilija Dam received 22.19 inches, and Thacher School received 16.15 inches.

The bulk of precipitation at Casitas Dam fell in the months of October, December, and March when cumulative monthly rainfall was 1.96, 14.30, and 2.61 inches, respectively. The highest daily rainfall was recorded on December 14, 2021 with 5.64 inches of rainfall measured at Matilija Dam.

2.2.Streamflow Conditions

Streamflow conditions are assessed by collecting data at key points in the Ventura River system. Gage station locations are shown in Figure 1-1. Mean daily stream flow data is included in Appendix B.

2.2.1. WY 2022

Due to the ongoing drought, streamflow conditions were below average across the basin. Preliminary data provided by VCWPD indicates discharge from North Fork Matilija Creek totaled 3,158 acre-feet (AF) between October 1, 2021 and September 30, 2022. Discharge from Matilija Dam measured at the Matilija Hot Springs gage totaled 5,257 AF with a peak mean daily flow of approximately 125 cubic feet per second (cfs) on December 24, 2021¹.

Surface flow at the measurement weir at Robles was present October 25 and 26, 2021 and then again from December 14, 2021 through June 7, 2022. During that period, 3,225 AF was released downstream².

Diversions to the Casitas Reservoir began on December 14, 2021. Prior to December 14, all inflow was released downstream to allow for aquifer levels to rise to the extent that would be expected under natural conditions for the

¹ Matilija Dam measurement from data compiled by CMWD based on instantaneous readings shown as an average daily flow in Appendix B.

² Robles weir measurement from data compiled by CMWD based on instantaneous readings shown as an average daily flow in Appendix B.

time of year and type of year (*Trial Operating Criteria for Robles Casitas Diversion Facilities, 1959*). The diversion canal was operated for 27 days and 2,521 AF was diverted during WY 2022 as shown in Table 2-1³.

Table 2-1
WY 2022 Diversions

Month	Days	Volume Diverted (AF)
October 2021	0	0
November 2021	0	0
December 2021	12	2,000
January 2022	14	516
February 2022	0	0
March 2022	1	5
April 2022	0	0
May 2022	0	0
June 2022	0	0
July 2022	0	0
August 2022	0	0
September 2022	0	0
TOTAL	27	2,521

There were no storm peaks that met the Biological Opinion parameters to initiate supplemental downstream releases for fish passage. All flow was released downstream when inflow was less than the required supplemental release.

Coyote Creek and Santa Ana Creek drainage areas contribute directly to Lake Casitas storage. Coyote Creek and to a lesser extent Santa Ana Creek gaging station continues to be impacted by sediment transport and re-channelization following the Thomas Fire, rendering poor quality flow data. Direct inflow into Lake Casitas, which is reported in the Casitas Reservoir Operation data (Appendix C), was used as a surrogate for Coyote and Santa Ana creeks as the major tributaries, but also accounts for other direct runoff including smaller tributaries such as Ayers, Chismahoo, Willow, and Poplin Creeks. Direct inflow is a zero-sum calculation and accounts for change in Lake Casitas storage not accounted for by precipitation, Ventura River Diversions, evaporation, precipitation, and releases to the Marion Walker Water Treatment Plant. This value may be negative at times which is attributed to approximation in evaporation coefficients and water loss to infiltration. Only months with a positive direct inflow value are considered as a surrogate for true direct inflow into Lake Casitas and totaled 4,184 AF for WY 2022 with December 2021 accounting for 2,408 AF of total direct inflow as shown in Table 2-2⁴.

³ Robles canal measurement from data compiled by CMWD based on instantaneous readings shown as an average in Appendix B.

⁴ Direct inflow into Lake Casitas is shown in Appendix D.

Table 2-2
WY 2022 Casitas Reservoir Direct Inflow

Month	Direct Flow Volume (AF) ⁵
October 2021	N/A
November 2021	21
December 2021	2,408
January 2022	905
February 2022	101
March 2022	207
April 2022	119
May 2022	171
June 2022	90
July 2022	48
August 2022	66
September 2022	48
TOTAL	4,184

2.3.Lake Storage and System Deliveries

Water storage volumes for system reservoirs, Casitas Dam and Matilija Dam, were ascertained by the daily recording of the reservoir elevation and applying the elevation number to a storage table for each reservoir. Casitas Reservoir data is included in Appendix C and Matilija Reservoir Data is provided in Appendix E. Casitas did not exercise water rights to divert water released from Matilija Dam. System delivery data for Mira Monte Well and the Ojai Water System can be found in Appendix F.

2.3.1. WY 2022

Lake Casitas Reservoir had a net decrease in water storage for WY 2022. Lake elevation was 487.15 feet above mean sea level (MSL) on October 1, 2021 and ended on September 30, 2022 at 481.69 feet above MSL, corresponding to 72,973 AF of storage in Lake Casitas at the end of the WY. The reservoir’s 5.46-foot decrease in elevation resulted in a net loss of 6,648 AF. Storage increased by 6,924 AF during a forty-day period from December 13, 2021 to January 21, 2022; net monthly storage losses occurred outside of that period.

A new Casitas Reservoir storage rating table was adopted after completion of a LIDAR and bathymetric study resulting in a recalculated reservoir capacity of 237,761 acre-feet (down from 254,000 acre-feet). This table was implemented on October 1, 2017 (start of WY 2018) and Casitas Reservoir storage reported from that date forward will reflect this adjustment.

Water deliveries from the reservoir to the main conveyance system totaled 9,118 AF for the Calendar Year. This is down 27 percent from 2021 and down 37 percent from the average deliveries during the previous ten years. Mira Monte well production was 179 AF during WY 2022. Deliveries within the Ojai Water System totaled 1,692 AF during WY 2022; 1,277 AF of which was sourced from the Ojai Water System Wellfield with the additional 414 AF coming from Lake Casitas.

⁵ N/A indicates the month is not applicable because the value was negative.

2.4.Ambient Air Temperatures

Data was recorded by CMWD staff at two locations, Casitas Dam and LCRA. These measurements are made on a daily basis and include the maximum and minimum ambient air temperatures and wind speed. This data is included in Appendix G.

2.4.1. WY 2022

One temperature record dating back to 1960 was tied during the 2022 calendar year: highest monthly maximum (September for Casitas Recreation Area).

3. HYDROLOGY STATIONS

Table 3-1 shows responsible agencies for various hydrology stations throughout the watershed.

**Table 3-1
Hydrology Stations**

Type	Location	Agency
Reservoir	Casitas Dam	Casitas
Reservoir	Matilija Dam	VCWPD
Rainfall and Evaporation	LCRA	Casitas
Rainfall and Evaporation	Casitas Dam	Casitas
Rainfall	Matilija Dam	VCWPD
Rainfall	Thacher School	VCWPD
Streamflow	Matilija Creek at Matilija Hot Springs	Casitas/VCWPD
Streamflow	Ventura River Near Meiners Oaks	Casitas
Streamflow	Robles-Casitas Canal	Casitas
Streamflow	Ventura River near Ventura (Foster Park)	USGS
Streamflow	North Fork Matilija at Matilija Hot Springs	VCWPD
Streamflow	San Antonio Creek at Old Creek Road	VCWPD
Streamflow	Santa Ana Creek near Oak View	Casitas/VCWPD
Streamflow	Coyote Creek near Oak View	Casitas/VCWPD

3.1.Historical Hydrology Period 1959 through 2022

The historical data was updated for the reporting period and is presented in Figure 3-1 for the period from 1959 through 2022. The historical data includes summaries for the Casitas Reservoir operation, Robles Diversion, rainfall, and ambient air temperature. Storage volume, represented by a solid line, is reservoir storage at the start of each calendar year (elevation measured on last day of previous calendar year). Rainfall, represented by data points with drop lines, is the three-station water year average for Casitas Dam, LCRA, and Matilija Dam rain gages. Reservoir volume prior to 1970 (not shown) represents initial filling period after Casitas Dam completion in 1959⁶.

⁶ Historical hydrology data is provided in Appendix H.

The change in Casitas Reservoir capacity was made due to performance of a bathymetric survey in 2017 which decreased the previously used 254,000 AF to 237,761 AF. Calendar year 2022 provided a net decrease in the storage volume as shown in Figure 3-1.

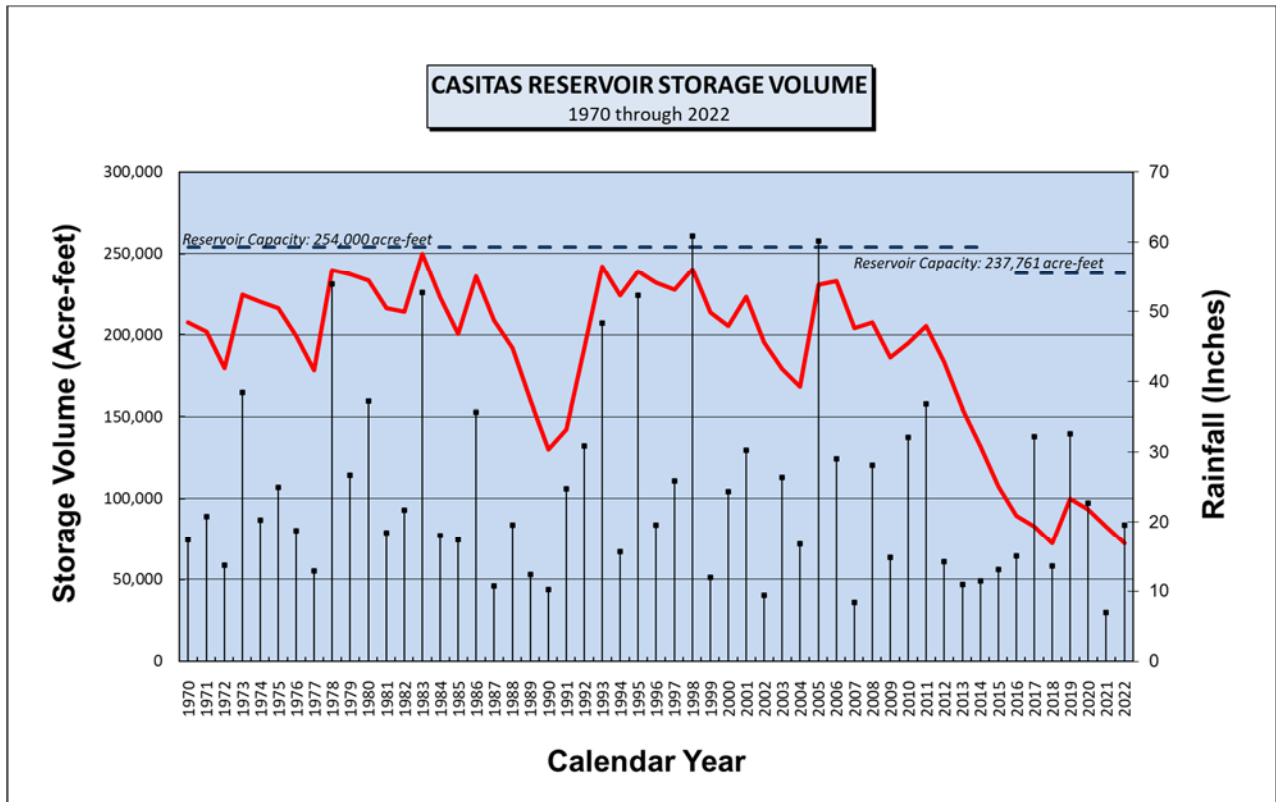


FIGURE 3-1 – Casitas Reservoir Storage Volume 1970-2022

3.2. Trends

The historical section of this summary report contains data tables and figures to illustrate trends experienced by CMWD pertaining to rainfall and water use.

3.2.1. Ten-Year Moving Average of Mean Precipitation

The trend presented in Figure 3-2 is a ten-year moving average of precipitation from 1880 to present and was created by calculating an average of a water year’s three-station average rainfall combined with the previous nine years. The ten-year moving average is represented by the solid line traversing across the overall average for the period (24.3 inches). Rainfall data for all three stations are available since 1959, rainfall prior to 1959 was assembled using comparable nearby stations and/or correlation factors with other available stations within the watershed. The trend has resulted in what appears to be a somewhat sinusoidal curve, illustrating reoccurring periods of wet and dry conditions.

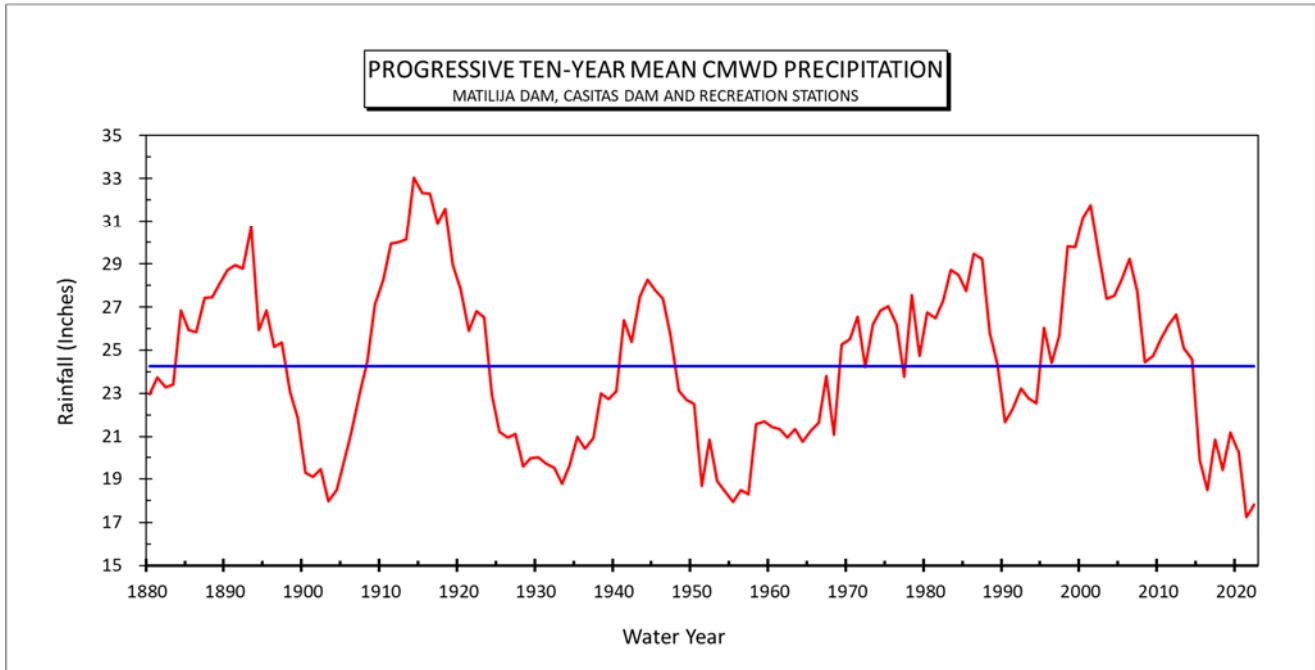


FIGURE 3-2 – Progressive Ten-Year Mean Precipitation

Appendix A

Rainfall Data

VENTURA COUNTY, CALIFORNIA
WATER SURVEY
DAILY RAINFALL RECORD

STATION: **Casitas Dam**
 OBSERVER: CMWD Damtender
 AUTHORITY: Casitas Municipal Water District
 ADDRESS: P.O. Box 37, Oak View, CA 93022
 COMPILED: V. Clary

NUMBER: 4
 OBSER. TIME: 0800
 LATITUDE: 34d22m
 LONGITUDE: 119d20m
 ELEV:

2021-2022

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0.01								
2				0.01								
3												
4												
5	0.03	0.02										
6		0.01										
7			0.04									
8	0.12		0.01									
9			0.01									
10			0.02									0.05
11			0.03									
12												
13												
14			4.36									
15			0.41									
16												
17			0.03	0.02								
18				0.09								
19												
20		0.02				0.02						
21												
22							0.23					
23			1.33									
24			3.59									
25	0.14		0.10									
26	1.66		0.99									
27	0.01		0.02									
28			0.54			1.89						
29			0.08			0.70						
30			1.97									
31			0.77									
Mo Total	1.96	0.05	14.30	0.13	0	2.61	0.23	0	0	0	0	0.05
Yr Total	1.96	2.01	16.31	16.44	16.44	19.05	19.28	19.28	19.28	19.28	19.28	19.33

Rainfall in inches

G:\Shared drives\Hydrology\Rainfall\Daily\DailyRain2021-22.xlsx\CASITAS DAM

VENTURA COUNTY, CALIFORNIA
WATER SURVEY
DAILY RAINFALL RECORD

STATION: **Lake Casitas Recreation Area**
OBSERVER: CMWD Recreation staff
AUTHORITY: Casitas Municipal Water District
ADDRESS: P.O. Box 37, Oak View, CA 93022
COMPILED: V. Clary

NUMBER: 204
OBSER. TIME: 0800
LATITUDE: 34d25m
LONGITUDE: 119d20m
ELEV: 592

2021-2022

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5	0.10											
6												
7			0.05									
8	0.15											
9			0.05									
10			0.03									0.05
11												
12					0.03							
13												
14			4.00									
15			0.20									
16												
17												
18				0.07								
19												
20												
21												0.10
22												
23			1.15									
24			4.00									
25	1.25		0.10									
26			0.85									
27												
28			0.47									
29			0.10			1.90						
30			2.00									
31			0.50									
Mo Total	1.5	0	13.50	0.07	0.03	1.90	0	0	0	0	0	0.15
Yr Total	1.5	1.5	15	15.07	15.1	17	17	17	17	17	17	17.15

Casitas Dam data used as a surrogate due to missing data

Rainfall in inches

VENTURA COUNTY, CALIFORNIA
WATER SURVEY
DAILY RAINFALL RECORD

STATION: **Matilija Dam**

NUMBER: 134

OBSERVER: Automated

OBSER. TIME: 0800

AUTHORITY: Ventura County Watershed Protection District

LATITUDE: 34°29' N

ADDRESS: 800 S. Victoria Ave, Ventura, CA 93009

LONGITUDE: 119°18' W

COMPILED: Hydrologist

ELEV: 1060 ft

2021-22

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5	0.14											
6												
7			0.01									
8	0.26											
9												
10			0.05									0.01
11												
12												0.07
13												0.04
14			5.64									
15			0.19									
16			0.01	0.01								
17												
18				0.03								
19				0.01								
20												0.05
21												
22							0.19					
23			1.04									
24			5.15									
25	0.86		0.07									
26	2.20		1.14									
27	0.01											
28			0.22			1.67						
29			0.03			0.48						
30			2.09									
31			0.52									
Mo Total	3.47	0.00	16.16	0.05	0.00	2.15	0.19	0.00	0.00	0.00	0.00	0.17
Yr Total	3.47	3.47	19.63	19.68	19.68	21.83	22.02	22.02	22.02	22.02	22.02	22.19

Estimated distribution correlated with nearby station(s)

Rainfall in inches

*Data is preliminary and subject to revision - VCWPD

VENTURA COUNTY, CALIFORNIA
WATER SURVEY
DAILY RAINFALL RECORD

STATION:	Ojai - Thacher School	NUMBER:	059
OBSERVER:	Automated	OBSER. TIME:	0800
AUTHORITY:	Ventura County Watershed Protection District	LATITUDE:	34°28' N
ADDRESS:	800 S. Victoria Ave, Ventura, CA 93009	LONGITUDE:	119°10' W
COMPILED:	Hydrologist	ELEV:	1440 ft

2021-22

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2							0.01					
3							0.01					
4												
5	0.03											
6												
7			0.02									
8	0.23											
9			0.09									
10			0.06									0.07
11												
12												0.01
13												0.14
14			3.36									
15			0.26									
16				0.02								
17												
18				0.04								
19												
20								0.04				
21								0.10				
22							0.20					
23			1.23									
24			3.30									
25	0.21		0.10									
26	1.04		0.78									
27												
28			0.21			1.16						
29			0.03			0.67						
30			2.03									
31			0.68			0.02						
Mo Total	1.51	0.00	12.15	0.06	0.00	1.85	0.22	0.14	0.00	0.00	0.00	0.22
Yr Total	1.51	1.51	13.66	13.72	13.72	15.57	15.79	15.93	15.93	15.93	15.93	16.15

Rainfall in inches

**Data is preliminary and subject to revision - VCWPD*

Appendix B
Streamflow Gaging Station Data

Matilija Creek at Matilija Hot Springs

USGS #: 11115500
 VCWPD #: 602
 DATE INSTALLED: 10/1927
 MAINTAINED BY: CMWD/VCWPD

LATITUDE: 34°28'58" N
 LONGITUDE: 119°18'7" W
 ELEVATION: 900 ft
 DRAINAGE AREA: 54 sq mi

WATER YEAR OCTOBER 2021 TO SEPTEMBER 2022
 Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	6	2	83	11	6	6	3	2	0.7	0.7	0.4
2	1	6	2	81	11	7	6	3	2	0.7	0.7	0.5
3	1	5	2	57	11	6	6	3	2	0.7	0.6	0.5
4	1	5	2	37	10	6	5	3	2	0.7	0.5	0.4
5	1	5	2	32	11	6	5	3	2	0.7	0.6	0.4
6	2	5	2	28	10	7	5	3	2	0.7	0.5	0.4
7	2	5	2	26	10	7	4	3	2	0.7	0.5	0.4
8	3	6	2	24	10	7	4	3	2	0.7	0.5	0.4
9	3	6	2	22	10	6	4	3	1	0.7	0.5	0.5
10	3	6	2	21	9	6	4	3	1	0.7	0.5	0.5
11	3	5	2	19	9	6	4	3	1	0.7	0.5	0.5
12	3	5	2	18	9	5	4	3	1	0.7	0.5	0.5
13	3	5	2	18	9	5	4	2	1	1.0	0.5	0.4
14	3	5	105	19	8	5	4	2	1	1.1	0.5	0.5
15	3	6	71	16	8	5	4	2	1	1.0	0.5	0.5
16	3	6	31	16	9	5	4	2	1	0.9	0.5	0.5
17	3	6	9	15	8	5	4	2	1	0.8	0.5	0.6
18	3	6	7	15	9	5	4	2	1	0.7	0.5	0.6
19	3	6	7	15	8	5	4	2	1	0.6	0.5	0.6
20	3	6	6	14	8	5	4	3	0.9	0.6	0.5	0.6
21	4	6	6	14	8	5	4	3	0.8	0.6	0.5	0.6
22	4	6	5	13	8	5	4	2	0.8	0.6	0.5	0.5
23	4	6	34	13	8	5	4	2	0.8	0.6	0.5	0.5
24	4	6	125	13	8	5	4	2	0.7	0.7	0.5	0.5
25	12	6	86	13	8	4	3	2	0.7	0.7	0.5	0.5
26	5	6	81	13	7	4	3	2	0.7	0.7	0.5	0.5
27	5	6	68	12	7	4	3	2	0.6	0.7	0.5	0.4
28	5	6	39	12	7	16	3	2	0.7	0.7	0.5	0.4
29	5	6	38	11	----	10	3	2	0.7	0.7	0.5	0.4
30	5	4	86	11	----	7	3	2	0.7	0.7	0.5	0.5
31	5	----	114	11	----	6	----	2	----	0.7	0.5	----
TOTAL	107	166	944	712	247	185	127	76	35	22	15	14
MEAN	3	6	30	23	9	6	4	2	1	0.72	0	0
MAX	12	6	125	83	11	16	6	3	2	1	1	1
MIN	1	4	2	11	7	4	3	2	1	1	0	0
ACRE FT	212	329	1873	1412	489	368	252	151	69	44	31	29

Estimated daily data

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North Fork Matilija Creek at Matilija Hot Springs

USGS #: 11116000
 VCWPD #: 604
 DATE INSTALLED: 01/1934
 MAINTAINED BY: VCWPD

LATITUDE: 34°29'34" N
 LONGITUDE: 119°18'23" W
 ELEVATION: 1142 ft
 DRAINAGE AREA: 15.8 sq mi

WATER YEAR OCTOBER 2021 TO SEPTEMBER 2022
 Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.5	0.6	0.7	16	7	15	3	2	0.9	0.4	0.3	0.2
2	0.5	0.6	0.7	14	9	14	2	2	0.8	0.4	0.3	0.2
3	0.5	0.6	0.7	13	10	9	2	2	0.9	0.4	0.3	0.2
4	0.5	0.6	0.7	12	10	5	2	2	0.9	0.4	0.3	0.2
5	0.5	0.6	0.7	12	12	7	2	1	0.9	0.4	0.3	0.2
6	0.5	0.6	0.7	12	14	7	2	1	0.9	0.4	0.3	0.2
7	0.5	0.6	0.7	11	14	6	2	1	0.8	0.4	0.3	0.2
8	0.5	0.6	0.7	12	13	6	2	1	0.8	0.4	0.3	0.2
9	0.5	0.6	0.7	11	13	6	2	1	0.8	0.3	0.3	0.2
10	0.5	0.6	0.7	10	12	6	2	1	0.8	0.3	0.3	0.2
11	0.5	0.6	0.7	7	12	5	2	1	0.8	0.3	0.3	0.2
12	0.5	0.6	0.7	5	11	5	2	1	0.8	0.3	0.3	0.3
13	0.5	0.6	3	6	10	5	2	1	0.8	0.3	0.3	0.4
14	0.5	0.6	87	12	12	5	2	1	0.8	0.3	0.3	0.3
15	0.5	0.6	13	9	15	4	2	1	0.8	0.3	0.3	0.3
16	0.5	0.6	12	13	15	4	2	1	0.8	0.3	0.3	0.3
17	0.5	0.6	12	12	15	4	2	1	0.8	0.2	0.3	0.3
18	0.5	0.6	12	13	13	4	2	1	0.8	0.2	0.2	0.3
19	0.5	0.6	12	14	12	3	2	1	0.8	0.2	0.2	0.3
20	0.6	0.6	11	12	12	3	2	1	0.7	0.2	0.2	0.4
21	0.6	0.6	11	11	15	3	2	1	0.6	0.2	0.2	0.4
22	0.6	0.6	11	12	23	3	2	1	0.6	0.3	0.2	0.3
23	0.6	0.6	85	10	25	2	2	1	0.5	0.3	0.2	0.3
24	0.6	0.7	54	8	16	2	2	1	0.5	0.3	0.2	0.3
25	6	0.7	23	9	18	2	2	1	0.5	0.3	0.2	0.3
26	0.6	0.7	27	10	20	2	2	1	0.5	0.3	0.2	0.3
27	0.6	0.7	19	11	20	1	2	1	0.5	0.3	0.2	0.3
28	0.6	0.7	18	11	16	1	2	1	0.5	0.3	0.3	0.3
29	0.6	0.7	28	11	---	3	2	0.9	0.4	0.3	0.3	0.3
30	0.6	0.7	59	10	---	3	2	0.9	0.4	0.3	0.2	0.3
31	0.6	---	27	9	---	3	---	0.9	---	0.3	0.2	---
TOTAL	22	19	532	338	394	148	56	37	21	10	8	8
MEAN	1	1	17	11	14	5	2	1	1	0	0	0
MAX	6	1	87	16	25	15	3	2	1	0	0	0
MIN	1	1	1	5	7	1	2	1	0	0	0	0
ACRE FT	44	37	1056	671	781	293	111	73	42	19	16	16

Estimated daily data

These data are preliminary and subject to change until checked and evaluated by Ventura County. Unverified data may contain errors that have not been checked by Hydrology staff. Ventura County does not guarantee the accuracy of these data; please note that flows may vary considerably during each day and from day to day.

Ventura River near Meiners Oaks (Robles)

USGS #: 11116550
 VCWPD #: 607
 DATE INSTALLED: 05/1959
 MAINTAINED BY: CMWD

LATITUDE: 34°27'49" N
 LONGITUDE: 119°17'26" W
 ELEVATION: 740 ft
 DRAINAGE AREA: 74 sq mi

WATER YEAR OCTOBER 2021 TO SEPTEMBER 2022
 Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	26	14	8	6	2	1	0	0	0
2	0	0	0	26	12	7	6	2	0.9	0	0	0
3	0	0	0	21	12	7	6	2	0.01	0	0	0
4	0	0	0	20	12	7	5	2	1	0	0	0
5	0	0	0	20	11	7	5	2	1	0	0	0
6	0	0	0	20	11	7	4	2	0.4	0	0	0
7	0	0	0	20	11	6	4	2	0.1	0	0	0
8	0	0	0	20	10	5	4	2	0	0	0	0
9	0	0	0	20	9	5	3	2	0	0	0	0
10	0	0	0	20	9	5	3	2	0	0	0	0
11	0	0	0	20	8	4	3	2	0	0	0	0
12	0	0	0	20	8	4	3	2	0	0	0	0
13	0	0	0	20	8	4	3	1	0	0	0	0
14	0	0	71	20	9	4	3	1	0	0	0	0
15	0	0	20	20	8	4	3	1	0	0	0	0
16	0	0	19	19	9	4	4	1	0	0	0	0
17	0	0	10	19	8	4	3	1	0	0	0	0
18	0	0	7	20	10	4	3	1	0	0	0	0
19	0	0	4	19	11	3	3	1	0	0	0	0
20	0	0	2	18	10	3	3	1	0	0	0	0
21	0	0	5	17	9	3	3	1	0	0	0	0
22	0	0	4	16	9	3	3	1	0	0	0	0
23	0	0	127	16	9	2	3	1	0	0	0	0
24	0	0	30	15	10	3	3	1	0	0	0	0
25	5	0	20	16	10	3	3	1	0	0	0	0
26	1	0	20	15	10	3	3	1	0	0	0	0
27	0	0	20	15	10	3	2	1	0	0	0	0
28	0	0	20	14	9	12	3	1	0	0	0	0
29	0	0	22	14	---	15	2	1	0	0	0	0
30	0	0	25	14	---	8	2	1	0	0	0	0
31	0	---	26	14	---	7	---	1	---	0	0	---
TOTAL	6	0	452	576	277	165	103	43	4	0	0	0
MEAN	0	0	15	19	10	5	3	1	0	0	0	0
MAX	5	0	127	26	14	15	6	2	1	0	0	0
MIN	0	0	0	14	8	2	2	1	0	0	0	0
ACRE FT	12	0	896	1142	549	327	204	86	9	0	0	0

Data is provisional and subject to revision

Robles-Casitas Canal (First Bridge)

USGS #: N/A
 VCWPD #: N/A
 DATE INSTALLED: 1958
 MAINTAINED BY: CMWD

LATITUDE: 34°27'43" N
 LONGITUDE: 119°17'34" W
 ELEVATION: 770 ft
 DRAINAGE AREA: N/A

WATER YEAR OCTOBER 2021 TO SEPTEMBER 2022
 Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	69	0	0	0	0	0	0	0	0
2	0	0	0	60	0	0	0	0	0	0	0	0
3	0	0	0	41	0	0	0	0	0	0	0	0
4	0	0	0	21	0	0	0	0	0	0	0	0
5	0	0	0	15	0	0	0	0	0	0	0	0
6	0	0	0	15	0	0	0	0	0	0	0	0
7	0	0	0	9	0	0	0	0	0	0	0	0
8	0	0	0	7	0	0	0	0	0	0	0	0
9	0	0	0	6	0	0	0	0	0	0	0	0
10	0	0	0	5	0	0	0	0	0	0	0	0
11	0	0	0	4	0	0	0	0	0	0	0	0
12	0	0	0	3	0	0	0	0	0	0	0	0
13	0	0	0	2	0	0	0	0	0	0	0	0
14	0	0	119	2	0	0	0	0	0	0	0	0
15	0	0	43	0	0	0	0	0	0	0	0	0
16	0	0	10	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	80	0	0	0	0	0	0	0	0	0
24	0	0	229	0	0	0	0	0	0	0	0	0
25	0	0	70	0	0	0	0	0	0	0	0	0
26	0	0	80	0	0	0	0	0	0	0	0	0
27	0	0	51	0	0	0	0	0	0	0	0	0
28	0	0	22	0	0	3	0	0	0	0	0	0
29	0	0	35	0	---	0	0	0	0	0	0	0
30	0	0	150	0	---	0	0	0	0	0	0	0
31	0	---	118	0	---	0	---	0	---	0	0	---
TOTAL	0	0	1008	261	0	3	0	0	0	0	0	0
MEAN	0	0	33	8	0	0.09	0	0	0	0	0	0
MAX	0	0	229	69	0	3	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
ACRE FT	0	0	2000	517	0	5	0	0	0	0	0	0

Data is provisional and subject to revision.

Ventura River near Ventura (Foster Park)

USGS #: 11118500
 VCWPD #: 608
 DATE INSTALLED: 10/1929
 MAINTAINED BY: USGS, Water Resources Division

LATITUDE: 34°21'09" N
 LONGITUDE: 119°18'29" W
 ELEVATION: 205 ft
 DRAINAGE AREA: 187 sq mi

WATER YEAR OCTOBER 2021 TO SEPTEMBER 2022

Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.99	0.63	0.40	27	9	7	8	6	6	5	4	3
2	0.98	0.61	0.40	17	9	7	8	6	6	5	4	3
3	0.96	0.59	0.40	14	9	7	8	6	6	5	3	3
4	0.98	0.58	0.39	12	9	7	8	6	6	5	3	3
5	1	0.58	0.39	11	9	8	7	6	6	5	3	3
6	1	0.58	0.39	10	9	8	7	6	6	5	3	3
7	1	0.57	0.37	9	9	8	7	6	6	4	3	3
8	1	0.56	0.37	8	9	8	7	6	6	4	3	3
9	1	0.55	0.38	8	8	8	7	6	5	4	3	3
10	0.93	0.54	0.39	8	8	8	8	6	5	4	3	3
11	0.89	0.51	0.39	8	8	8	8	6	5	4	3	3
12	0.85	0.49	0.39	8	8	8	8	6	5	4	4	3
13	0.84	0.47	0.41	8	8	8	8	6	5	4	4	3
14	0.81	0.46	121	8	7	7	8	6	5	4	4	3
15	0.76	0.47	3	8	7	7	7	6	5	4	4	2
16	0.74	0.48	2	8	7	7	7	6	5	4	5	2
17	0.73	0.47	2	8	7	7	7	6	5	4	5	2
18	0.72	0.44	2	8	7	7	7	6	5	4	5	2
19	0.71	0.44	2	8	7	7	7	6	5	4	5	2
20	0.70	0.45	2	8	8	7	7	6	5	4	5	2
21	0.67	0.44	2	8	7	7	7	6	5	4	5	2
22	0.67	0.45	1	8	7	7	7	6	5	4	4	3
23	0.66	0.45	530	8	7	7	7	6	5	4	4	3
24	0.65	0.45	373	8	8	7	7	6	5	4	4	2
25	0.93	0.44	19	9	8	7	7	6	5	4	4	2
26	0.76	0.44	93	9	7	7	7	6	5	4	4	2
27	0.71	0.43	13	9	7	7	7	6	5	4	4	2
28	0.66	0.42	9	9	7	27	7	6	5	4	4	2
29	0.64	0.41	72	9	---	10	7	6	5	4	4	2
30	0.65	0.42	571	9	---	8	7	6	5	4	3	2
31	0.65	---	118	9	---	8	---	6	---	4	3	---
TOTAL	25	15	1938	295	224	251	218	189	154	130	118	74
MEAN	0.82	0.49	63	10	8	8	7	6	5	4	4	2
MAX	1	0.63	571	27	9	27	8	6	6	5	5	3
MIN	0.64	0.41	0.37	8	7	7	7	6	5	4	3	2
ACRE FT	51	29	3844	585	444	497	433	374	305	257	235	147

San Antonio Creek at Old Creek Rd

USGS #: 11117500
 VCWPD #: 605A
 DATE INSTALLED: 10/1949
 MAINTAINED BY: VCWPD

LATITUDE: 34°22'57" N
 LONGITUDE: 119°18'10" W
 ELEVATION: 312 ft
 DRAINAGE AREA: 51.2 sq mi

WATER YEAR OCTOBER 2021 THROUGH SEPTEMBER 2022 Daily Mean Discharge, cubic feet per second

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	21	6	1	10	0.01	0.02	0	0	0
2	0	0	0	14	6	1	10	0.01	0.01	0	0	0
3	0	0	0	11	6	3	10	0.01	0.01	0	0	0
4	0	0	0	10	5	3	9	0.08	0.01	0	0	0
5	0	0	0	6	5	3	8	0.01	0	0	0	0
6	0	0	0	10	5	2	8	0.10	0	0	0	0
7	0	0	0	10	4	1	7	0.13	0	0	0	0
8	0	0	0	10	4	1	6	0.06	0	0	0	0
9	0	0	0	10	4	1	6	0.06	0	0	0	0
10	0	0	0	9	3	1	5	0.30	0	0	0	0
11	0	0	0	9	3	1	5	0.17	0	0	0	0
12	0	0	0	9	3	1	4	0.13	0	0	0	0
13	0	0	0	9	3	0.93	3	0.07	0	0	0	0
14	0	0	74	8	2	1	3	0.01	0	0	0	0
15	0	0	3	8	2	2	3	0.01	0	0	0	0
16	0	0	0	8	2	0.99	2	0.02	0	0	0	0
17	0	0	0	8	2	0.67	2	0.02	0	0	0	0
18	0	0	0	8	2	0.81	1	0.02	0	0	0	0
19	0	0	0	8	1	0.71	0.23	0.01	0	0	0	0
20	0	0	0	7	1	0.64	0.14	0.03	0	0	0	0
21	0	0	0	7	1	0.62	0.11	0.03	0	0	0	0
22	0	0	0	7	1	0.28	0.13	0.13	0	0	0	0
23	0	0	247	6	1	0.39	0.29	0.23	0	0	0	0
24	0	0	188	6	1	1	0.16	0.36	0	0	0	0
25	0.16	0	24	6	1	0.67	0.17	0.05	0	0	0	0
26	0	0	62	7	1	0.82	0.22	0.05	0	0	0	0
27	0	0	11	7	1	1	0.12	0.04	0	0	0	0
28	0	0	9	7	1	27	0.01	0.04	0	0	0	0
29	0	0	54	7	-----	14	0.01	0.03	0	0	0	0
30	0	0	456	7	-----	12	0.01	0.03	0	0	0	0
31	0	-----	105	7	-----	11	-----	0.02	-----	0	0	-----
TOTAL	0.16	0	1233	264	77	96	102	2	0.05	0	0	0
MEAN	0.01	0	40	9	3	3	3	0.07	0	0	0	0
MAX	0.16	0	456	21	6	27	10	0.36	0.02	0	0	0
MIN	0	0	0	6	1	0.28	0.01	0.01	0	0	0	0
ACRE FT	0.32	0	2445	523	152	190	202	4	0.09	0	0	0

Estimated daily data

These data are preliminary and subject to change until checked and evaluated by Ventura County. Unverified data may contain errors that have not been checked by Hydrology Staff. Ventura County does not guarantee the accuracy of these data; please note that flows may vary considerably during each day and from day to day.

Appendix C
Fisheries Storm Peak Logs

(NO FISHERIES STORM PEAK LOGS)

Appendix D
Casitas Reservoir Operational Data

**CASITAS RESERVOIR WATER INVENTORY SUMMARY
2021 - 2022 WATER YEAR**

figures in acre-feet except where otherwise noted

MONTH	RESERVOIR (last of previous month)		RESERVOIR INFLOW				RESERVOIR RELEASES			
	ELEV (ft)	STORAGE	DIRECT	VENTURA RIVER DIVERSIONS	TOTAL	PRECIP	EVAP	TO MAIN SYSTEM	SPILL	CHANGE IN STORAGE
OCT 2021	487.20	79683	-183	0	-183	196	324	1059	0	-1370
NOV 2021	486.10	78313	21	0	21	3	244	951	0	-1171
DEC 2021	485.15	77142	2408	2000	4408	1588	89	466	0	5441
JAN 2022	489.48	82583	905	516	1421	12	180	319	0	934
FEB 2022	490.20	83517	200	0	200	2	319	584	0	-701
MAR 2022	489.66	82816	207	5	212	265	442	693	0	-658
APR 2022	489.15	82158	119	0	119	13	524	605	0	-997
MAY 2022	488.37	81161	171	0	171	0	607	841	0	-1277
JUN 2022	487.36	79884	90	0	90	0	696	966	0	-1571
JUL 2022	486.10	78313	48	0	48	0	734	1060	0	-1747
AUG 2022	484.68	76566	66	0	66	0	721	1197	0	-1852
SEP 2022	483.15	74714	48	0	48	11	562	1238	0	-1741
OCT 2022	481.69	72973	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL			4100	2522	6622	2090	5442	9979	0	-6710

reservoir capacity = 237,761 a.f. @ 567 ft.

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CASITAS RESERVOIR OPERATION
OCTOBER 2021

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	Sep 30 th Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	Spill	
1	487.15	79621	1376	4	0	4	0.16	0.30	20	0	0	0	47	0	0	-62
2	487.08	79533	1374	-15	0	-15	0.18	0.20	16	0	0	0	57	0	0	-88
3	487.03	79470	1374	-12	0	-12	0.08	0.10	8	0	0	0	43	0	0	-63
4	486.97	79395	1372	-11	0	-11	0.14	0.42	24	0	0	0	40	0	0	-75
5	486.92	79333	1372	-8	0	-8	0.03	0.18	9	0.03	0.1	7	52	0	0	-62
6	486.87	79270	1371	5	0	5	0.07	0.20	12	0	0	0	56	0	0	-63
7	486.85	79245	1371	34	0	34	0.02	0.20	9	0	0	0	50	0	0	-25
8	486.81	79196	1371	-11	0	-11	0.24	0.00	10	0.12	0.15	15	43	0	0	-49
9	486.74	79108	1369	-53	0	-53	0.17	0.21	16	0	0	0	19	0	0	-88
10	486.72	79083	1369	5	0	5	0.10	0.15	11	0	0	0	20	0	0	-25
11	486.69	79046	1368	-4	0	-4	0.06	0.11	7	0	0	0	26	0	0	-37
12	486.66	79008	1368	12	0	12	0.06	0.32	16	0	0	0	34	0	0	-38
13	486.60	78934	1368	-17	0	-17	0.08	0.12	9	0	0	0	49	0	0	-74
14	486.54	78859	1366	-17	0	-17	0.04	0.10	6	0	0	0	52	0	0	-75
15	486.48	78784	1364	-7	0	-7	0.14	0.25	17	0	0	0	51	0	0	-75
16	486.42	78710	1364	-9	0	-9	0.10	0.25	15	0	0	0	50	0	0	-74
17	486.38	78660	1363	0	0	0	0.09	0.25	14	0	0	0	36	0	0	-50
18	486.33	78598	1363	-30	0	-30	0.01	0.07	3	0	0	0	29	0	0	-62
19	486.28	78536	1361	-16	0	-16	0.07	0.11	8	0	0	0	39	0	0	-62
20	486.24	78486	1361	9	0	9	0.17	0.09	11	0	0	0	48	0	0	-50
21	486.20	78437	1361	10	0	10	0.19	0.10	12	0	0	0	47	0	0	-49
22	486.17	78399	1360	13	0	13	0.22	0.10	14	0	0	0	37	0	0	-38
23	486.13	78350	1360	-12	0	-12	0.08	0.10	8	0	0	0	30	0	0	-49
24	486.11	78325	1360	-2	0	-2	0.00	0.10	4	0	0	0	19	0	0	-25
25	486.10	78313	1360	-75	0	-75	0.00	0.00	0	0.14	1.25	79	15	0	0	-12
26	486.22	78461	1361	69	0	69	0.16	0.00	7	1.66	0	94	8	0	0	148
27	486.20	78437	1361	-2	0	-2	0.00	0.21	9	0.01	0	1	13	0	0	-24
28	486.18	78412	1360	-9	0	-9	0.00	0.10	4	0	0	0	12	0	0	-25
29	486.14	78362	1360	-23	0	-23	0.00	0.25	11	0	0	0	16	0	0	-50
30	486.12	78337	1360	-9	0	-9	0.00	0.15	6	0	0	0	10	0	0	-25
31	486.10	78313	1360	-2	0	-2	0.09	0.10	8	0	0	0	14	0	0	-24
TOTAL				-183	0	-183	2.75	4.84	324	1.96	1.50	196	1059	0	0	-1370

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

**CASITAS RESERVOIR OPERATION
NOVEMBER 2021**

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation	Oct 31 st Storage	Surface Area	Direct	Ventura River	Total	Pan @Dam	Pan @Rec	Lake Total	at Dam	at Rec	Lake Total	To Main	To River	To Spill	
	(ft MSL)	78313	(acres)				(in)	(in)	(af)	(in)	(in)	(af)				
1	486.08	78288	1358	-1	0	-1	0.04	0.08	5	0.00	0.00	0.00	19.04	0.00	0.00	-25
2	486.06	78263	1358	8	0	8	0.12	0.07	8	0.00	0.00	0.00	25.42	0.00	0.00	-25
3	486.04	78238	1358	5	0	5	0.19	0.05	10	0.00	0.00	0.00	20.13	0.00	0.00	-25
4	486.02	78214	1358	11	0	11	0.02	0.05	3	0.00	0.00	0.00	32.21	0.00	0.00	-24
5	485.99	78176	1357	-8	0	-8	0.14	0.05	8	0.02	0.00	1.13	23.61	0.00	0.00	-38
6	485.96	78139	1357	0	0	0	0.10	0.10	8	0.01	0.00	0.57	29.45	0.00	0.00	-37
7	485.95	78127	1357	18	0	18	0.06	0.10	7	0.00	0.00	0.00	23.84	0.00	0.00	-12
8	485.93	78102	1357	3	0	3	0.04	0.05	4	0.00	0.00	0.00	24.14	0.00	0.00	-25
9	485.88	78040	1355	-17	0	-17	0.11	0.13	10	0.00	0.00	0.00	35.26	0.00	0.00	-62
10	485.85	78003	1355	4	0	4	0.09	0.10	8	0.00	0.00	0.00	32.91	0.00	0.00	-37
11	485.82	77966	1355	5	0	5	0.06	0.02	3	0.00	0.00	0.00	38.75	0.00	0.00	-37
12	485.76	77892	1354	-22	0	-22	0.17	0.17	14	0.00	0.00	0.00	38.04	0.00	0.00	-74
13	485.73	77855	1354	19	0	19	0.16	0.16	13	0.00	0.00	0.00	42.57	0.00	0.00	-37
14	485.71	77830	1354	7	0	7	0.13	0.13	11	0.00	0.00	0.00	21.23	0.00	0.00	-25
15	485.68	77793	1352	0	0	0	0.12	0.26	15	0.00	0.00	0.00	22.01	0.00	0.00	-37
16	485.64	77744	1352	1	0	1	0.08	0.07	6	0.00	0.00	0.00	44.23	0.00	0.00	-49
17	485.61	77707	1352	15	0	15	0.10	0.15	10	0.00	0.00	0.00	41.95	0.00	0.00	-37
18	485.58	77670	1351	-1	0	-1	0.00	0.07	3	0.00	0.00	0.00	32.73	0.00	0.00	-37
19	485.55	77633	1351	-4	0	-4	0.05	0.03	3	0.00	0.00	0.00	29.81	0.00	0.00	-37
20	485.51	77584	1351	-5	0	-5	0.12	0.00	5	0.02	0.00	1.13	40.60	0.00	0.00	-49
21	485.48	77547	1350	-6	0	-6	0.10	0.11	9	0.00	0.00	0.00	22.54	0.00	0.00	-37
22	485.45	77510	1350	-14	0	-14	0.09	0.08	7	0.00	0.00	0.00	16.15	0.00	0.00	-37
23	485.42	77473	1350	15	0	15	0.08	0.19	11	0.00	0.00	0.00	41.23	0.00	0.00	-37
24	485.39	77436	1348	23	0	23	0.08	0.17	10	0.00	0.00	0.00	49.97	0.00	0.00	-37
25	485.35	77387	1348	6	0	6	0.07	0.11	7	0.00	0.00	0.00	48.19	0.00	0.00	-49
26	485.30	77326	1348	-21	0	-21	0.09	0.18	11	0.00	0.00	0.00	28.81	0.00	0.00	-61
27	485.25	77264	1347	-22	0	-22	0.08	0.11	8	0.00	0.00	0.00	32.41	0.00	0.00	-62
28	485.21	77215	1347	-18	0	-18	0.07	0.11	7	0.00	0.00	0.00	23.88	0.00	0.00	-49
29	485.18	77178	1345	-4	0	-4	0.13	0.07	8	0.00	0.00	0.00	25.27	0.00	0.00	-37
30	485.15	77142	1345	23	0	23	0.25	0.11	15	0.00	0.00	0.00	44.72	0.00	0.00	-36
TOTAL				21	0	21	2.94	3.08	244	0.05	0.00	3	951	0	0	-1171

*Evaporation and Precipitation data from LCRA not logged; Casitas Dam data substituted

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION
DECEMBER 2021

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation	Nov 30 th Storage	Surface Area	Ventura River			Pan @Dam	Pan @Rec	Lake Total	at Dam	at Rec	Lake Total	To Main System	To River	Spill	
	(ft MSL)		(acres)	Direct	Divers'n	Total	(in)	(in)	(af)	(in)	(in)	(af)				
1	485.10	77080	1345	-17	0	-17	0.05	0.12	6	0	0	0	39	0	0	-62
2	485.06	77031	1344	-3	0	-3	0.04	0.11	6	0	0	0	40	0	0	-49
3	485.04	77007	1344	8	0	8	0.02	0.04	2	0	0	0	30	0	0	-24
4	485.01	76970	1344	1	0	1	0.14	0	5	0	0	0	33	0	0	-37
5	484.99	76945	1342	9	0	9	0.10	0.09	7	0	0	0	27	0	0	-25
6	484.96	76909	1342	-12	0	-12	0.10	0.07	6	0	0	0	17	0	0	-36
7	484.94	76884	1342	2	0	2	0	0	0	0.04	0.05	5	32	0	0	-25
8	484.90	76835	1342	-13	0	-13	0.09	0.16	9	0.01	0	0.56	27	0	0	-49
9	484.88	76811	1341	-11	0	-11	0	0	0	0.01	0.05	3	16	0	0	-24
10	484.86	76786	1341	-17	0	-17	0.02	0.01	1	0.02	0.03	3	10	0	0	-25
11	484.84	76762	1341	-8	0	-8	0.04	0.08	4	0.03	0	2	13	0	0	-24
12	484.83	76750	1341	8	0	8	0.05	0.14	7	0	0	0	13	0	0	-12
13	484.82	76737	1341	2	0	2	0.08	0.02	4	0	0	0	12	0	0	-13
14	485.28	77301	1347	-129	236	107	0	0	0	4	4	469	12	0	0	564
15	485.62	77719	1352	307	85	391	0	0	0	0.41	0.20	34	8	0	0	418
16	485.70	77818	1354	93	20	113	0.10	0	4	0	0	0	10	0	0	99
17	485.69	77806	1352	0	0	0	0.10	0.03	5	0.03	0	2	9	0	0	-12
18	485.68	77793	1352	6	0	6	0.13	0.15	10	0	0	0	9	0	0	-13
19	485.67	77781	1352	-4	0	-4	0.02	0	0.74	0	0	0	8	0	0	-12
20	485.66	77769	1352	-3	0	-3	0.02	0.01	1	0	0	0	8	0	0	-12
21	485.65	77756	1352	-1	0	-1	0.03	0.07	4	0	0	0	8	0	0	-13
22	485.64	77744	1352	-1	0	-1	0.02	0.05	3	0	0	0	8	0	0	-12
23	485.76	77892	1354	-145	161	16	0	0	0	1	1	140	8	0	0	148
24	487.02	79458	1374	685	454	1139	0	0	0	4	4	435	7	0	0	1566
25	487.55	80123	1382	523	138	661	0	0	0	0.10	0.10	12	8	0	0	665
26	487.90	80565	1388	184	159	343	0	0	0	0.99	0.85	106	7	0	0	442
27	488.07	80780	1390	130	101	232	0.11	0	4	0.02	0	1	14	0	0	215
28	488.24	80996	1393	122	45	167	0	0	0	0.54	0.47	59	9	0	0	216
29	488.30	81072	1395	1	71	72	0	0	0	0.08	0.10	10	6	0	0	76
30	488.88	81812	1403	220	298	518	0	0	0	2	2	232	10	0	0	740
31	489.48	82583	1412	469	234	703	0	0	0	0.77	0.50	75	7	0	0	771
TOTAL				2408	2000	4408	1.26	1.15	89	14.30	13.50	1588	466	0	0	5441

*Data from LCRA not logged; Casitas Dam data substituted

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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CASITAS RESERVOIR OPERATION
JANUARY 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)		INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE	
	Elevation	82583 Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total	at Dam (in)	at Rec (in)	Lake Total	To Main System	To River		Spill
1	489.70	82868	1417	160	137	296	0	0.07	3	0.01	0	1	9	0	0	285
2	489.70	82868	1417	-101	119	18	0.15	0.08	9	0.01	0	1	10	0	0	0
3	489.88	83101	1419	161	82	243	0.01	0.06	3	0	0	0	8	0	0	233
4	490.00	83257	1422	131	42	173	0.09	0.04	5	0	0	0	12	0	0	156
5	490.00	83257	1422	-16	30	14	0.03	0.15	7	0	0	0	7	0	0	0
6	490.08	83361	1422	93	30	123	0.17	0.05	8	0	0	0	10	0	0	104
7	490.16	83465	1424	97	19	116	0.05	0.03	3	0	0	0	9	0	0	104
8	490.18	83491	1424	21	15	36	0.01	0.06	3	0	0	0	7	0	0	26
9	490.21	83530	1425	36	12	49	0	0.06	2	0	0	0	7	0	0	39
10	490.22	83544	1425	18	9	27	0	0.10	4	0	0	0	9	0	0	14
11	490.26	83596	1425	60	8	68	0.20	0.04	9	0	0	0	7	0	0	52
12	490.26	83596	1425	13	6	19	0.16	0.1	10	0	0	0	9	0	0	0
13	490.30	83648	1427	64	4	68	0	0.06	2	0	0	0	13	0	0	52
14	490.29	83635	1425	0	4	4	0.13	0.08	8	0	0	0	9	0	0	-13
15	490.28	83622	1425	4	0	4	0.13	0.09	8	0	0	0	9	0	0	-13
16	490.30	83648	1427	34	0	34	0.05	0	2	0	0	0	6	0	0	26
17	490.31	83661	1427	21	0	21	0.03	0.05	3	0.02	0	1	6	0	0	13
18	490.30	83648	1427	-16	0	-16	0	0	0	0.09	0.07	10	6	0	0	-13
19	490.31	83661	1427	28	0	28	0.11	0.11	9	0	0	0	6	0	0	13
20	490.31	83661	1427	12	0	12	0.08	0.06	5	0	0	0	7	0	0	0
21	490.31	83661	1427	12	0	12	0.08	0.08	6	0	0	0	6	0	0	0
22	490.29	83635	1425	-6	0	-6	0.11	0.16	10	0	0	0	10	0	0	-26
23	490.28	83622	1425	-2	0	-2	0.07	0.04	4	0	0	0	7	0	0	-13
24	490.29	83635	1425	28	0	28	0.12	0.11	9	0	0	0	6	0	0	13
25	490.29	83635	1425	19	0	19	0.07	0.15	8	0	0	0	11	0	0	0
26	490.27	83609	1425	2	0	2	0.05	0.07	5	0	0	0	23	0	0	-26
27	490.26	83596	1425	15	0	15	0.08	0.06	5	0	0	0	23	0	0	-13
28	490.24	83570	1425	0	0	0	0.09	0.08	7	0	0	0	20	0	0	-26
29	490.22	83544	1425	0	0	0	0.05	0.05	4	0	0	0	22	0	0	-26
30	490.21	83530	1425	8	0	8	0.05	0.14	7	0	0	0	15	0	0	-14
31	490.20	83517	1425	9	0	9	0.12	0.15	10	0	0	0	12	0	0	-13
TOTAL				905	516	1421	2.29	2.38	180	0.13	0.07	12	319	0	0	934

*Data from LCRA not logged; Casitas Dam data substituted

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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CASITAS RESERVOIR OPERATION
FEBRUARY 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	Jan 31 st Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	Spill	
1	490.18	83491	1424	3	0	3	0.05	0.20	11	0	0	0	17	0	0	-26
2	490.16	83465	1424	2	0	2	0.04	0.10	6	0	0	0	21	0	0	-26
3	490.16	83465	1424	24	0	24	0.10	0.10	9	0	0	0	15	0	0	0
4	490.15	83452	1424	11	0	11	0.06	0.13	9	0	0	0	15	0	0	-13
5	490.13	83426	1424	-6	0	-6	0.03	0.06	4	0	0	0	16	0	0	-26
6	490.11	83400	1424	-7	0	-7	0.02	0.13	7	0	0	0	12	0	0	-26
7	490.08	83361	1422	-7	0	-7	0.14	0.12	12	0	0	0	20	0	0	-39
8	490.08	83361	1422	40	0	40	0.13	0.07	9	0	0	0	31	0	0	0
9	490.06	83335	1422	9	0	9	0.12	0.15	12	0	0	0	23	0	0	-26
10	490.02	83283	1422	-1	0	-1	0.09	0.29	17	0	0	0	34	0	0	-52
11	490.00	83257	1422	15	0	15	0.10	0.15	11	0	0	0	30	0	0	-26
12	489.99	83244	1420	29	0	29	0.19	0.25	20	0	0	2	24	0	0	-13
13	489.98	83231	1420	18	0	18	0.12	0.07	9	0	0	0	23	0	0	-13
14	489.96	83205	1420	-1	0	-1	0.10	0.25	16	0	0	0	9	0	0	-26
15	489.94	83179	1420	8	0	8	0.12	0.10	10	0	0	0	24	0	0	-26
16	489.90	83127	1420	-12	0	-12	0.15	0.19	15	0	0	0	24	0	0	-52
17	489.88	83101	1419	11	0	11	0.16	0.09	11	0	0	0	25	0	0	-26
18	489.86	83075	1419	6	0	6	0.11	0.17	13	0	0	0	19	0	0	-26
19	489.84	83049	1419	18	0	18	0.21	0.15	16	0	0	0	28	0	0	-26
20	489.82	83023	1419	0	0	0	0.10	0.08	8	0	0	0	18	0	0	-26
21	489.80	82997	1419	-1	0	-1	0.15	0.07	10	0	0	0	15	0	0	-26
22	489.79	82984	1417	17	0	17	0.10	0.16	12	0	0	0	18	0	0	-13
23	489.76	82945	1417	3	0	3	0.12	0.22	15	0	0	0	26	0	0	-39
24	489.74	82919	1417	12	0	12	0.12	0.19	14	0	0	0	24	0	0	-26
25	489.72	82893	1417	7	0	7	0.10	0.12	10	0	0	0	23	0	0	-26
26	489.69	82855	1416	-11	0	-11	0.07	0.17	11	0	0	0	16	0	0	-38
27	489.67	82829	1416	3	0	3	0.11	0.15	12	0	0	0	18	0	0	-26
28	489.66	82816	1416	9	0	9	0.04	0.12	7	0	0	0	14	0	0	-13
TOTAL				200	0	200	2.95	4.05	319	0.00	0.03	2	584	0	0	-701

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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CASITAS RESERVOIR OPERATION
MARCH 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	Feb 28 th Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	To Spill	
1	489.62	82764	1416	-17	0	-17	0.13	0.07	9	0	0	0	26	0	0	-52
2	489.59	82725	1414	10	0	10	0.18	0.31	22	0	0	0	28	0	0	-39
3	489.57	82699	1414	13	0	13	0.23	0.09	14	0	0	0	25	0	0	-26
4	489.55	82674	1414	9	0	9	0.05	0.18	10	0	0	0	23	0	0	-25
5	489.53	82648	1414	10	0	10	0.05	0.13	8	0	0	0	28	0	0	-26
6	489.48	82583	1412	-37	0	-37	0.07	0.15	10	0	0	0	18	0	0	-65
7	489.46	82557	1412	-4	0	-4	0.10	0.12	10	0	0	0	12	0	0	-26
8	489.44	82532	1412	10	0	10	0.19	0	8	0	0	0	27	0	0	-25
9	489.40	82480	1412	-6	0	-6	0.12	0.16	13	0	0	0	34	0	0	-52
10	489.38	82454	1411	21	0	21	0.24	0.13	17	0	0	0	31	0	0	-26
11	489.36	82428	1411	6	0	6	0.12	0.12	11	0	0	0	21	0	0	-26
12	489.34	82403	1411	20	0	20	0.12	0.19	14	0	0	0	31	0	0	-25
13	489.32	82377	1411	4	0	4	0.11	0.19	13	0	0	0	17	0	0	-26
14	489.30	82351	1411	9	0	9	0.16	0.19	16	0	0	0	19	0	0	-26
15	489.27	82312	1409	1	0	1	0.29	0.09	17	0	0	0	23	0	0	-39
16	489.24	82274	1409	5	0	5	0.18	0.13	14	0	0	0	29	0	0	-38
17	489.22	82248	1409	32	0	32	0.25	0.30	25	0	0	0	33	0	0	-26
18	489.20	82222	1409	13	0	13	0.12	0.20	14	0	0	0	25	0	0	-26
19	489.18	82197	1408	22	0	22	0.32	0.20	23	0	0	0	24	0	0	-25
20	489.14	82145	1408	-14	0	-14	0.20	0.20	18	0.02	0	1	21	0	0	-52
21	489.10	82094	1408	-15	0	-15	0.15	0.30	20	0	0	0	16	0	0	-51
22	489.08	82068	1406	14	0	14	0.17	0.12	13	0	0	0	27	0	0	-26
23	489.06	82043	1406	30	0	30	0.35	0.38	33	0	0	0	22	0	0	-25
24	489.02	81991	1406	4	0	4	0.18	0.20	17	0	0	0	39	0	0	-52
25	489.00	81966	1406	11	0	11	0.10	0.20	13	0	0	0	22	0	0	-25
26	488.97	81927	1404	10	0	10	0.24	0.20	20	0	0	0	29	0	0	-39
27	489.12	82120	1408	221	0	221	0.10	0.20	13	0	0	0	15	0	0	193
28	489.16	82171	1408	-50	5	-45	0	0	0	2	0	111	9	0	0	51
29	489.16	82171	1408	-150	0	-150	0	0	0	0.70	2	152	8	0	0	0
30	489.15	82158	1408	2	0	2	0.05	0.15	9	0	0	0	6	0	0	-13
31	489.15	82158	1408	25	0	25	0.33	0.10	19	0	0	0	6	0	0	0
TOTAL				207	5	212	4.90	5.00	442	2.61	1.90	265	693	0	0	-658

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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CASITAS RESERVOIR OPERATION
APRIL 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	Mar 31 st 82158 Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	Spill	
1	489.15	82158	1408	24	0	24	0.09	0.29	18	0	0	0	6	0	0	0
2	489.15	82158	1408	39	0	39	0.38	0.33	33	0	0	0	6	0	0	0
3	489.15	82158	1408	13	0	13	0.01	0.15	8	0	0	0	5	0	0	0
4	489.14	82145	1408	5	0	5	0.10	0.15	12	0	0	0	6	0	0	-13
5	489.13	82132	1408	8	0	8	0.11	0.16	13	0	0	0	8	0	0	-13
6	489.12	82120	1408	22	0	22	0.21	0.21	20	0	0	0	14	0	0	-12
7	489.08	82068	1406	-14	0	-14	0.19	0.17	17	0	0	0	21	0	0	-52
8	489.07	82055	1406	30	0	30	0.35	0.20	26	0	0	0	17	0	0	-13
9	489.06	82043	1406	24	0	24	0.06	0.21	13	0	0	0	23	0	0	-12
10	489.05	82030	1406	31	0	31	0.15	0.21	17	0	0	0	27	0	0	-13
11	488.96	81914	1404	-85	0	-85	0.11	0.20	15	0	0	0	16	0	0	-116
12	488.92	81863	1404	0	0	0	0.41	0.14	26	0	0	0	26	0	0	-51
13	488.88	81812	1403	-8	0	-8	0.22	0.01	11	0	0	0	32	0	0	-51
14	488.84	81761	1403	-14	0	-14	0.05	0.11	7	0	0	0	29	0	0	-51
15	488.82	81735	1403	27	0	27	0.27	0.20	22	0	0	0	31	0	0	-26
16	488.78	81684	1401	-13	0	-13	0.09	0.11	9	0	0	0	28	0	0	-51
17	488.76	81658	1401	12	0	12	0.15	0.30	21	0	0	0	17	0	0	-26
18	488.73	81620	1401	-6	0	-6	0.14	0.20	16	0	0	0	17	0	0	-38
19	488.70	81582	1401	13	0	13	0.33	0.31	30	0	0	0	21	0	0	-38
20	488.68	81556	1400	20	0	20	0.19	0.26	21	0	0	0	25	0	0	-26
21	488.67	81543	1400	28	0	28	0.31	0.23	25	0	0	0	15	0	0	-13
22	488.66	81531	1400	2	0	2	0.00	0.14	7	0	0	13	21	0	0	-12
23	488.64	81505	1400	2	0	2	0.20	0.12	15	0	0	0	14	0	0	-26
24	488.58	81428	1398	-49	0	-49	0.21	0.11	15	0	0	0	13	0	0	-77
25	488.54	81377	1398	-13	0	-13	0.26	0.10	17	0	0	0	21	0	0	-51
26	488.49	81314	1396	-17	0	-17	0.16	0.09	12	0	0	0	35	0	0	-63
27	488.46	81276	1396	9	0	9	0.19	0.11	14	0	0	0	33	0	0	-38
28	488.42	81225	1396	-2	0	-2	0.28	0.20	22	0	0	0	27	0	0	-51
29	488.40	81199	1396	22	0	22	0.10	0.30	19	0	0	0	30	0	0	-26
30	488.37	81161	1395	11	0	11	0.29	0.28	27	0	0	0	23	0	0	-38
0																
TOTAL				119	0	119	5.61	5.60	524	0.23	0.00	13	605	0	0	-997

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION
MAY 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation	Apr 30 th Storage	Surface Area	Ventura River			Pan @Dam	Pan @Rec	Lake Total	at Dam	at Rec	Lake Total	To Main System	To River	Spill	
	(ft MSL)	81161	(acres)	Direct	Divers'n	Total	(in)	(in)	(af)	(in)	(in)	(af)				
1	488.37	81161	1395	46	0	46	0.20	0.30	24	0	0	0	22	0	0	0
2	488.36	81148	1395	7	0	7	0.14	0.04	8	0	0	0	11	0	0	-13
3	488.34	81123	1395	29	0	29	0.17	0.44	29	0	0	0	25	0	0	-25
4	488.32	81097	1395	27	0	27	0.26	0.24	24	0	0	0	29	0	0	-26
5	488.26	81021	1393	-33	0	-33	0.09	0.21	14	0	0	0	29	0	0	-76
6	488.23	80983	1393	15	0	15	0.12	0.32	21	0	0	0	32	0	0	-38
7	488.20	80945	1393	13	0	13	0.19	0.31	24	0	0	0	28	0	0	-38
8	488.17	80907	1392	-3	0	-3	0.19	0.03	10	0	0	0	25	0	0	-38
9	488.14	80869	1392	1	0	1	0.32	0.19	24	0	0	0	15	0	0	-38
10	488.10	80818	1392	-2	0	-2	0.20	0.22	20	0	0	0	29	0	0	-51
11	488.04	80742	1390	-18	0	-18	0.36	0.08	21	0	0	0	37	0	0	-76
12	488.01	80704	1390	7	0	7	0.15	0.12	13	0	0	0	33	0	0	-38
13	487.97	80653	1388	13	0	13	0.48	0.22	33	0	0	0	31	0	0	-51
14	487.94	80615	1388	12	0	12	0.15	0.15	14	0	0	0	36	0	0	-38
15	487.88	80540	1387	-26	0	-26	0.37	0.15	24	0	0	0	25	0	0	-75
16	487.86	80514	1387	16	0	16	0.29	0.11	19	0	0	0	23	0	0	-26
17	487.83	80476	1387	6	0	6	0.22	0.10	15	0	0	0	29	0	0	-38
18	487.80	80438	1387	6	0	6	0.20	0.14	16	0	0	0	28	0	0	-38
19	487.74	80363	1385	-29	0	-29	0.19	0.23	20	0	0	0	26	0	0	-75
20	487.72	80337	1385	20	0	20	0.17	0.12	14	0	0	0	32	0	0	-26
21	487.69	80300	1384	0	0	0	0.04	0.34	18	0	0	0	19	0	0	-37
22	487.67	80274	1384	4	0	4	0.11	0.14	12	0	0	0	18	0	0	-26
23	487.62	80211	1384	-16	0	-16	0.42	0.25	31	0	0	0	15	0	0	-63
24	487.58	80161	1382	0	0	0	0.04	0.18	10	0	0	0	40	0	0	-50
25	487.54	80111	1382	30	0	30	0.23	0.47	33	0	0	0	47	0	0	-50
26	487.50	80060	1382	13	0	13	0.36	0.24	28	0	0	0	36	0	0	-51
27	487.45	79997	1380	-15	0	-15	0.20	0.18	18	0	0	0	30	0	0	-63
28	487.44	79985	1380	40	0	40	0.26	0.19	21	0	0	0	31	0	0	-12
29	487.41	79947	1380	2	0	2	0.19	0.18	17	0	0	0	22	0	0	-38
30	487.39	79922	1379	7	0	7	0.24	0.16	19	0	0	0	14	0	0	-25
31	487.36	79884	1379	2	0	2	0.16	0.20	17	0	0	0	23	0	0	-38
TOTAL				171	0	171	6.71	6.25	607	0.00	0.00	0	841	0	0	-1277

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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CASITAS RESERVOIR OPERATION
JUNE 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	May 31 st 79884 Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	To Spill	
1	487.32	79834	1379	-4	0	-4	0.32	0.10	20	0	0	0	27	0	0	-50
2	487.28	79784	1377	-11	0	-11	0.10	0.17	13	0	0	0	27	0	0	-50
3	487.25	79746	1377	18	0	18	0.15	0.18	16	0	0	0	40	0	0	-38
4	487.22	79709	1377	2	0	2	0.12	0.14	12	0	0	0	27	0	0	-37
5	487.19	79671	1376	1	0	1	0.25	0.15	19	0	0	0	20	0	0	-38
6	487.16	79633	1376	11	0	11	0.18	0.24	20	0	0	0	29	0	0	-38
7	487.11	79571	1376	-17	0	-17	0.21	0.22	20	0	0	0	25	0	0	-62
8	487.07	79521	1374	5	0	5	0.15	0.11	12	0	0	0	43	0	0	-50
9	487.02	79458	1374	8	0	8	0.49	0.21	33	0	0	0	39	0	0	-63
10	486.98	79408	1372	0	0	0	0.12	0.26	18	0	0	0	33	0	0	-50
11	486.95	79370	1372	31	0	31	0.37	0.33	33	0	0	0	36	0	0	-38
12	486.93	79345	1372	28	0	28	0.25	0.29	25	0	0	0	28	0	0	-25
13	486.88	79283	1371	-27	0	-27	0.16	0.19	16	0	0	0	19	0	0	-62
14	486.84	79233	1371	3	0	3	0.16	0.24	19	0	0	0	34	0	0	-50
15	486.78	79158	1369	-11	0	-11	0.35	0.26	29	0	0	0	36	0	0	-75
16	486.74	79108	1369	15	0	15	0.30	0.38	32	0	0	0	33	0	0	-50
17	486.69	79046	1368	0	0	0	0.30	0.24	25	0	0	0	36	0	0	-62
18	486.66	79008	1368	12	0	12	0.11	0.17	13	0	0	0	37	0	0	-38
19	486.63	78971	1368	2	0	2	0.21	0.23	21	0	0	0	18	0	0	-37
20	486.60	78934	1368	6	0	6	0.44	0.04	22	0	0	0	20	0	0	-37
21	486.52	78834	1366	-43	0	-43	0.21	0.40	28	0	0	0	29	0	0	-100
22	486.48	78784	1364	24	0	24	0.24	0.40	30	0	0	0	44	0	0	-50
23	486.44	78735	1364	24	0	24	0.19	0.36	26	0	0	0	48	0	0	-49
24	486.38	78660	1363	-5	0	-5	0.40	0.25	30	0	0	0	40	0	0	-75
25	486.33	78598	1363	10	0	10	0.34	0.30	30	0	0	0	43	0	0	-62
26	486.28	78536	1361	-13	0	-13	0.29	0.28	27	0	0	0	23	0	0	-62
27	486.24	78486	1361	4	0	4	0.37	0.23	28	0	0	0	26	0	0	-50
28	486.20	78437	1361	19	0	19	0.32	0.30	29	0	0	0	39	0	0	-49
29	486.16	78387	1360	11	0	11	0.10	0.41	24	0	0	0	37	0	0	-50
30	486.10	78313	1360	-13	0	-13	0.34	0.26	28	0	0	0	33	0	0	-74
TOTAL				90	0	90	7.54	7.34	696	0.00	0.00	0	966	0	0	-1571

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

CASITAS RESERVOIR OPERATION
JULY 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	Jun 30 th Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	Spill	
1	486.08	78288	1358	40	0	40	0.39	0.25	29	0	0	0	35	0	0	-25
2	486.03	78226	1358	-11	0	-11	0.09	0.25	16	0	0	0	35	0	0	-62
3	485.99	78176	1357	0	0	0	0.22	0.22	20	0	0	0	29	0	0	-50
4	485.96	78139	1357	8	0	8	0.28	0.12	18	0	0	0	26	0	0	-37
5	485.90	78065	1357	-28	0	-28	0.42	0.15	26	0	0	0	20	0	0	-74
6	485.87	78028	1355	34	0	34	0.21	0.49	32	0	0	0	39	0	0	-37
7	485.80	77942	1355	-16	0	-16	0.40	0.26	30	0	0	0	39	0	0	-86
8	485.76	77892	1354	13	0	13	0.30	0.23	24	0	0	0	38	0	0	-50
9	485.70	77818	1354	-16	0	-16	0.22	0.27	22	0	0	0	36	0	0	-74
10	485.66	77769	1352	7	0	7	0.20	0.19	18	0	0	0	38	0	0	-49
11	485.61	77707	1352	-22	0	-22	0.28	0.08	16	0	0	0	24	0	0	-62
12	485.56	77646	1351	-7	0	-7	0.23	0.15	17	0	0	0	37	0	0	-61
13	485.52	77596	1351	18	0	18	0.35	0.21	26	0	0	0	43	0	0	-50
14	485.47	77535	1350	-14	0	-14	0.11	0.22	15	0	0	0	31	0	0	-61
15	485.42	77473	1350	-4	0	-4	0.29	0.19	22	0	0	0	36	0	0	-62
16	485.39	77436	1348	36	0	36	0.49	0.38	40	0	0	0	33	0	0	-37
17	485.34	77375	1348	-4	0	-4	0.27	0.29	25	0	0	0	31	0	0	-61
18	485.30	77326	1348	6	0	6	0.35	0.25	27	0	0	0	27	0	0	-49
19	485.25	77264	1347	-4	0	-4	0.24	0.26	23	0	0	0	36	0	0	-62
20	485.22	77227	1347	36	0	36	0.38	0.30	31	0	0	0	42	0	0	-37
21	485.15	77142	1345	-22	0	-22	0.27	0.19	21	0	0	0	42	0	0	-85
22	485.10	77080	1345	12	0	12	0.20	0.51	32	0	0	0	42	0	0	-62
23	485.05	77019	1344	-4	0	-4	0.18	0.26	20	0	0	0	37	0	0	-61
24	485.01	76970	1344	-8	0	-8	0.21	0.16	17	0	0	0	24	0	0	-49
25	484.98	76933	1342	21	0	21	0.41	0.36	35	0	0	0	23	0	0	-37
26	484.92	76860	1342	-18	0	-18	0.31	0.14	20	0	0	0	34	0	0	-73
27	484.87	76799	1341	-13	0	-13	0.05	0.24	13	0	0	0	35	0	0	-61
28	484.82	76737	1341	14	0	14	0.34	0.34	31	0	0	0	45	0	0	-62
29	484.74	76640	1339	-38	0	-38	0.25	0.24	22	0	0	0	37	0	0	-97
30	484.72	76615	1339	35	0	35	0.37	0.20	26	0	0	0	34	0	0	-25
31	484.68	76566	1338	-1	0	-1	0.18	0.24	19	0	0	0	29	0	0	-49
TOTAL				48	0	48	8.49	7.64	734	0.00	0.00	0	1060	0	0	-1747

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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CASITAS RESERVOIR OPERATION
August 2022

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation	Jul 31 st Surface	Area	Ventura River		Total	Pan @Dam	Pan @Rec	Lake Total	at Dam	at Rec	Lake Total	To Main System	To River	Spill	
	(ft MSL)	76566 Storage	(acres)	Direct	Divers'n		(in)	(in)	(af)	(in)	(in)	(af)				
1	484.66	76542	1338	14	0	14	0.13	0.29	19	0	0	0	19	0	0	-24
2	484.61	76481	1338	1	0	1	0.25	0.31	25	0	0	0	37	0	0	-61
3	484.56	76420	1336	18	0	18	0.44	0.30	33	0	0	0	45	0	0	-61
4	484.50	76347	1336	-17	0	-17	0.13	0.24	17	0	0	0	39	0	0	-73
5	484.46	76298	1334	21	0	21	0.43	0.28	32	0	0	0	38	0	0	-49
6	484.43	76262	1334	25	0	25	0.27	0.29	25	0	0	0	36	0	0	-36
7	484.39	76213	1333	0	0	0	0.25	0.25	22	0	0	0	27	0	0	-49
8	484.34	76152	1333	-15	0	-15	0.15	0.32	21	0	0	0	25	0	0	-61
9	484.29	76091	1331	3	0	3	0.28	0.25	24	0	0	0	40	0	0	-61
10	484.26	76055	1331	24	0	24	0.29	0.22	23	0	0	0	37	0	0	-36
11	484.18	75958	1330	-30	0	-30	0.24	0.28	23	0	0	0	43	0	0	-97
12	484.12	75885	1330	10	0	10	0.64	0.28	41	0	0	0	41	0	0	-73
13	484.07	75824	1328	3	0	3	0.22	0.27	22	0	0	0	42	0	0	-61
14	484.04	75788	1328	36	0	36	0.45	0.34	35	0	0	0	37	0	0	-36
15	483.99	75727	1326	-19	0	-19	0.30	0.16	21	0	0	0	21	0	0	-61
16	483.92	75642	1326	-19	0	-19	0.08	0.36	20	0	0	0	46	0	0	-85
17	483.87	75582	1325	8	0	8	0.23	0.23	21	0	0	0	48	0	0	-60
18	483.80	75497	1325	-8	0	-8	0.34	0.22	25	0	0	0	52	0	0	-85
19	483.73	75412	1323	-21	0	-21	0.16	0.17	15	0	0	0	50	0	0	-85
20	483.68	75352	1322	12	0	12	0.50	0.12	28	0	0	0	44	0	0	-60
21	483.64	75304	1322	7	0	7	0.16	0.28	20	0	0	0	35	0	0	-48
22	483.60	75255	1322	-14	0	-14	0.12	0.14	12	0	0	0	23	0	0	-49
23	483.55	75195	1320	0	0	0	0.20	0.20	18	0	0	0	42	0	0	-60
24	483.49	75123	1318	-6	0	-6	0.36	0.17	24	0	0	0	42	0	0	-72
25	483.45	75075	1318	12	0	12	0.11	0.21	14	0	0	0	46	0	0	-48
26	483.39	75002	1317	1	0	1	0.42	0.26	30	0	0	0	44	0	0	-73
27	483.34	74942	1317	4	0	4	0.38	0.19	25	0	0	0	39	0	0	-60
28	483.30	74894	1317	7	0	7	0.15	0.39	24	0	0	0	31	0	0	-48
29	483.27	74858	1315	8	0	8	0.15	0.15	13	0	0	0	31	0	0	-36
30	483.20	74774	1315	-21	0	-21	0.22	0.28	22	0	0	0	41	0	0	-84
31	483.15	74714	1314	22	0	22	0.34	0.27	27	0	0	0	55	0	0	-60
TOTAL				66	0	66	8.39	7.72	721	0	0	0	1197	0	0	-1852

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

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**CASITAS RESERVOIR OPERATION
SEPTEMBER 2022**

*figures in acre-feet except where otherwise noted

DATE	RESERVOIR (@ 0800 hrs.)			INFLOW			EVAPORATION			PRECIPITATION			RELEASES			STORAGE CHANGE
	Elevation (ft MSL)	Aug 30 th 74714 Storage	Surface Area (acres)	Direct	Ventura River Divers'n	Total	Pan @Dam (in)	Pan @Rec (in)	Lake Total (af)	at Dam (in)	at Rec (in)	Lake Total (af)	To Main System	To River	To Spill	
1	483.08	74630	1312	-1	0	-1	0.28	0.41	29	0	0	0	55	0	0	-84
2	483.01	74546	1312	3	0	3	0.46	0.24	29	0	0	0	58	0	0	-84
3	482.97	74498	1310	38	0	38	0.48	0.18	27	0	0	0	59	0	0	-48
4	482.93	74450	1310	31	0	31	0.22	0.40	26	0	0	0	54	0	0	-48
5	482.87	74378	1309	0	0	0	0.41	0.38	33	0	0	0	39	0	0	-72
6	482.80	74294	1309	-9	0	-9	0.38	0.21	24	0	0	0	51	0	0	-84
7	482.74	74222	1307	4	0	4	0.22	0.30	22	0	0	0	54	0	0	-72
8	482.68	74150	1306	6	0	6	0.28	0.21	20	0	0	0	58	0	0	-72
9	482.64	74103	1306	24	0	24	0.20	0.29	20	0	0	0	51	0	0	-47
10	482.58	74031	1304	-20	0	-20	0.17	0.11	12	0.05	0.05	5.43	46	0	0	-72
11	482.54	73983	1304	-22	0	-22	0.10	0.08	7	0	0	0	19	0	0	-48
12	482.53	73971	1304	38	0	38	0.40	0.15	23	0	0	0	27	0	0	-12
13	482.48	73912	1302	-13	0	-13	0.04	0.14	7	0	0	0	39	0	0	-59
14	482.43	73852	1302	-10	0	-10	0.10	0.22	13	0	0	0	36	0	0	-60
15	482.38	73792	1301	-5	0	-5	0.19	0.23	17	0	0	0	38	0	0	-60
16	482.33	73733	1301	2	0	2	0.30	0.21	21	0	0	0	40	0	0	-59
17	482.29	73685	1299	1	0	1	0.13	0.21	14	0	0	0	35	0	0	-48
18	482.25	73638	1299	-11	0	-11	0.16	0.14	12	0	0	0	23	0	0	-47
19	482.20	73578	1299	-12	0	-12	0.40	0.18	24	0	0	0	24	0	0	-60
20	482.15	73519	1298	-11	0	-11	0.15	0.05	8	0	0	0	39	0	0	-59
21	482.10	73459	1298	-6	0	-6	0.25	0.17	17	0	0.10	5.41	42	0	0	-60
22	482.06	73412	1296	13	0	13	0.25	0.20	18	0	0	0	41	0	0	-47
23	482.00	73341	1296	-13	0	-13	0.20	0.23	18	0	0	0	40	0	0	-71
24	481.97	73305	1295	23	0	23	0.31	0.23	22	0	0	0	37	0	0	-36
25	481.93	73258	1295	3	0	3	0.24	0.22	19	0	0	0	31	0	0	-47
26	481.88	73198	1293	-13	0	-13	0.26	0.19	18	0	0	0	28	0	0	-60
27	481.83	73139	1293	-10	0	-10	0.13	0.09	9	0	0	0	40	0	0	-59
28	481.78	73080	1292	0	0	0	0.17	0.16	13	0	0	0	46	0	0	-59
29	481.74	73033	1292	18	0	18	0.22	0.34	23	0	0	0	42	0	0	-47
30	481.69	72973	1290	-1	0	-1	0.17	0.19	15	0	0	0	45	0	0	-60
TOTAL				48	0	48	7.27	6.36	562	0.05	0.15	11	1238	0	0	-1741

Reservoir capacity = 237,761 acre-feet at 567 ft. elevation.

e = estimate

Direct reservoir inflow values may be negative due to inaccuracies of the evaporation coefficients (supplied by the USBR)

Evaporation and precipitation readings taken at approximately 8 a.m.

Monthly Evaporation Coefficients: Jan=0.65, Feb=0.77, Mar=0.76, Apr=0.80, May=0.81, Jun=0.82, Jul= Aug=0.81, Sep=0.76, Oct=0.75, Nov=0.72, Dec=0.66

Appendix E
Reservoir Elevation Data

Matilija Reservoir Lake Elevation

WATER YEAR OCTOBER 2021 THROUGH SEPTEMBER 2022

Daily mean elevation, feet above mean sea level

SPILL OVER DAM @ 1095.35 ELEVATION

Day	2021			2022								
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1085.9	1086.8	1085.9	1098.4	1089.0	1088.1	1087.8	1087.1	1086.0	1085.9	1085.9	1085.9
2	1085.9	1086.2	1085.9	1096.5	1088.5	1088.0	1087.5	1087.0	1086.0	1086.0	1085.9	1085.9
3	1085.9	1086.0	1085.9	1093.7	1084.7	1088.0	1087.6	1086.9	1086.0	1086.0	1085.9	1085.9
4	1085.9	1085.9	1085.9	1093.2	1088.5	1088.0	1087.3	1086.8	1086.0	1086.0	1085.9	1085.9
5	1085.9	1086.1	1085.9	1092.4	1088.5	1088.0	1087.3	1086.7	1086.0	1086.0	1085.9	1085.9
6	1085.9	1086.4	1085.9	1092.1	1088.5	1088.1	1086.8	1086.6	1086.0	1086.0	1085.9	1085.9
7	1085.9	1087.6	1085.9	1092.0	1088.4	1088.0	1086.4	1086.5	1086.0	1086.0	1085.9	1085.9
8	1085.9	1087.3	1085.9	1091.9	1088.3	1088.0	1086.3	1086.5	1086.0	1086.0	1085.9	1085.9
9	1085.9	1086.3	1085.9	1091.8	1088.3	1087.9	1086.4	1086.4	1086.0	1086.0	1085.9	1086.0
10	1085.9	1085.9	1085.9	1091.8	1088.3	1087.9	1086.0	1086.3	1086.0	1086.0	1085.9	1086.0
11	1085.9	1085.9	1085.9	1091.8	1088.3	1087.8	1086.0	1086.2	1086.0	1086.0	1085.9	1086.0
12	1085.9	1086.0	1085.9	1091.7	1088.3	1087.8	1086.0	1086.1	1086.0	1085.9	1085.9	1086.0
13	1085.9	1085.9	1086.1	1091.6	1088.3	1087.8	1086.0	1086.0	1086.0	1086.0	1085.9	1086.0
14	1085.9	1085.9	1096.1	1091.0	1088.2	1087.8	1086.0	1085.9	1086.0	1086.0	1085.9	1086.0
15	1085.9	1085.9	1095.6	1090.5	1088.3	1087.8	1086.0	1086.0	1086.0	1085.9	1085.9	1086.0
16	1085.9	1085.9	1090.6	1090.5	1088.3	1087.7	1086.0	1086.0	1086.0	1085.9	1085.9	1086.0
17	1085.9	1085.9	1089.9	1090.6	1088.3	1087.7	1086.0	1086.0	1085.9	1085.9	1085.9	1086.0
18	1085.9	1085.9	1090.0	1090.6	1088.4	1087.7	1086.5	1086.0	1086.0	1086.0	1085.9	1086.0
19	1085.9	1085.9	1090.1	1090.6	1088.3	1087.6	1086.9	1086.0	1086.0	1086.0	1085.9	1086.0
20	1085.9	1085.9	1090.1	1090.6	1088.3	1087.6	1086.5	1086.0	1085.9	1085.9	1085.9	1086.0
21	1085.9	1085.9	1090.1	1090.6	1088.3	1087.6	1086.3	1086.0	1086.0	1085.9	1085.9	1086.0
22	1085.9	1085.9	1090.1	1090.6	1088.2	1087.5	1087.0	1086.0	1086.0	1085.9	1085.9	1086.0
23	1085.9	1085.9	1092.9	1090.6	1088.3	1087.3	1086.9	1086.0	1086.0	1085.9	1085.9	1086.0
24	1085.9	1085.9	1096.3	1090.7	1088.3	1086.9	1086.4	1086.0	1086.0	1085.9	1085.9	1086.0
25	1087.0	1085.9	1095.2	1090.7	1088.3	1087.0	1086.0	1086.0	1086.0	1085.9	1085.9	1086.0
26	1086.0	1085.9	1094.2	1090.7	1088.2	1087.4	1086.0	1086.0	1086.0	1085.9	1085.9	1086.0
27	1086.4	1085.9	1091.5	1090.7	1088.2	1087.3	1086.5	1086.0	1085.9	1085.9	1085.9	1086.0
28	1086.0	1085.9	1091.6	1090.7	1088.1	1088.2	1086.9	1086.0	1086.0	1085.9	1085.9	1085.9
29	1086.0	1085.9	1090.5	1090.7	---	1088.1	1087.1	1086.0	1085.9	1085.9	1085.9	1086.0
30	1086.0	1085.9	1094.6	1090.7	---	1087.9	1087.1	1085.9	1085.9	1085.9	1085.9	1086.0
31	1086.8	---	1096.6	1090.7	---	1087.8	---	1086.0	---	1085.9	1085.9	---

Data logger malfunctioning. Data estimated using downstream gage and observational measurements.

Appendix F

System Delivery Data for Mire Monte Well and Ojai Water System

Mira Monte Well

Calendar Year 2022

Month	Acre Feet
Jan – 22	3.85
Feb – 22	10.51
Mar – 22	12.42
Apr – 22	12.22
May – 22	15.87
Jun – 22	20.87
Jul – 22	21.27
Aug – 22	24.34
Sep – 22	21.05
Oct – 22	20.03
Nov – 22	9.84
Dec – 22	3.84
Total:	176.11 AF

Mira Monte Well

Water Year 2021 – 2022

Month	Acre Feet
Oct – 21	15.90
Nov – 21	14.90
Dec – 21	6.02
Jan – 22	3.85
Feb – 22	10.51
Mar – 22	12.42
Apr – 22	12.22
May – 22	15.87
Jun – 22	20.87
Jul – 22	21.27
Aug – 22	24.34
Sep – 22	21.05
Total:	179.22 AF

OJAI WATER SYSTEM SOURCES AND DELIVERIES 2021 - 2022 WATER YEAR

figures in acre-feet except where otherwise noted

MONTH	YEAR	SYSTEM DELIVERIES	SOURCE	
			WELL - FIELD PRODUCTION	SURFACE WATER
OCT	2021	150	112	37
NOV	2021	131	91	40
DEC	2021	101	84	17
JAN	2022	88	81	7
FEB	2022	114	67	47
MAR	2022	133	95	38
APR	2022	129	106	23
MAY	2022	151	132	19
JUN	2022	159	123	36
JUL	2022	171	127	44
AUG	2022	188	141	47
SEP	2022	177	119	58
TOTAL		1692	1277	414

Appendix G
Ambient Air Temperature Data

HISTORICAL TEMPERATURES
CMWD CASITAS DAM WEATHER STATION
(Degrees F.)

YEAR	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER													
	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg	max	min avg												
1960	77	24	48	75	29	52	85	35	56	90	37	59	88	35	61	93	45	63	106	46	69	95	44	66	102	44	69	93	37	62	82	31	55	83	25	51
1961	88	26	54	85	30	54	84	31	54	99	33	52	88	35	57	104	40	62	97	47	68	95	39	68	99	37	65	103	37	62	90	31	55	81	30	52
1962	89	25	52	74	31	50	80	29	50	91	37	60	90	38	57	82	42	62	89	47	65	92	47	68	100	45	65	93	41	62	89	32	56	87	22	54
1963	78	16	50	90	39	60	84	30	54	83	33	54	78	39	60	85	42	62	87	45	66	91	44	68	109	48	72	90	43	65	88	33	58	85	30	54
1964	82	28	50	82	29	50	85	32	50	94	34	66	84	35	66	87	42	61	94	45	67	95	48	62	100	44	66	99	44	66	88	28	54	77	28	53
1965	82	29	54	85	29	68	81	35	54	92	31	57	88	37	59	83	40	61	90	47	65	103	49	70	95	45	65	99	40	66	83	34	58	80	28	51
1966	79	28	50	78	30	48	88	29	56	96	38	60	81	43	60	88	42	65	89	46	66	94	49	70	98	44	68	98	39	66	96	34	58	78	27	53
1967	81	29	52	86	30	55	79	31	54	71	33	50	98	37	61	88	39	61	93	52	68	108	54	74	98	51	70	98	40	65	88	33	60	80	26	50
1968	82	27	51	84	36	57	90	35	58	85	34	56	102	37	60	88	42	62	97	48	68	90	46	65	102	40	67	85	32	58	98	42	64	81	20	49
1969	86	28	52	71	30	49	86	31	53	83	36	58	87	42	60	90	42	62	90	49	67	104	47	70	96	48	67	91	37	62	91	33	58	80	24	54
1970	70	24	53	81	34	51	81	33	58	87	32	55	99	37	61	100	45	64	103	48	68	97	48	68	102	43	65	102	35	61	82	35	56	78	30	50
1971	87	23	52	91	30	53	80	24	54	90	35	55	85	38	57	91	39	62	99	48	68	98	50	72	111	41	68	103	25	60	89	31	54	71	24	46
1972	78	23	49	81	25	53	92	30	57	84	31	56	97	37	61	90	45	63	104	47	70	106	48	70	99	43	67	96	30	61	85	32	55	81	22	49
1973	79	24	48	75	33	53	73	31	51	81	36	56	94	39	61	104	42	66	96	44	66	98	46	67	99	45	64	96	39	63	81	31	54	82	30	53
1974	75	24	49	81	30	51	78	32	53	85	35	57	97	34	58	98	46	64	94	46	69	84	45	66	98	46	67	103	39	62	92	31	56	79	23	51
1975	86	31	52	79	27	51	74	31	52	79	32	52	78	35	58	88	42	61	91	45	66	94	45	66	104	46	68	98	35	72	92	25	55	90	23	52
1976	90	23	54	86	31	53	85	29	55	89	33	54	89	42	60	104	43	66	90	48	68	102	47	68	92	50	68	97	37	65	97	26	60	83	29	53
1977	80	29	52	88	30	56	80	29	51	87	34	58	77	37	57	88	43	64	104	64	68	90	49	70	94	43	66	92	38	62	94	32	61	83	32	56
1978	76	29	54	82	31	53	88	35	57	78	34	55	99	39	64	92	46	66	106	45	67	94	46	68	108	43	70	92	43	65	92	30	54	77	20	49
1979	70	24	49	77	28	55	86	32	55	81	34	58	97	38	62	104	44	67	99	46	67	92	44	68	109	47	72	86	38	64	84	27	57	89	26	55
1980	79	30	55	84	32	57	80	29	54	86	36	58	82	36	58	97	42	64	94	47	68	95	48	69	95	44	64	95	36	64	88	29	57	88	31	56
1981	82	32	55	88	29	56	80	35	54	94	36	59	87	41	62	105	50	70	99	47	70	104	47	70	95	45	67	95	32	60	91	33	58	81	32	55
1982	78	26	50	85	33	56	76	31	53	85	32	57	80	41	60	78	40	61	94	47	68	102	47	70	101	41	67	95	41	64	85	32	55	74	27	51
1983	89	28	54	81	32	54	85	35	56	85	34	56	92	39	62	82	47	64	101	48	70	105	49	74	106	51	73	97	45	68	90	29	57	76	29	53
1984	84	31	56	83	31	55	88	35	59	94	34	59	105	41	67	94	46	60	98	52	74	96	53	74	108	51	77	91	39	63	82	32	55	74	29	51
1985	76	28	51	88	26	54	84	31	55	91	40	61	85	38	57	98	44	67	105	52	73	101	49	71	94	40	68	99	34	65	88	30	55	82	25	55
1986	85	35	57	90	31	57	88	38	58	92	38	59	88	41	61	92	47	65	89	49	68	103	50	70	86	41	63	92	40	63	89	36	61	80	32	54
1987	82	24	50	82	29	54	81	30	56	93	38	62	92	42	64	91	47	65	92	46	66	101	47	69	101	49	69	107	49	68	87	31	57	80	24	50
1988	82	29	53	87	30	57	97	33	60	92	38	59	96	39	62	91	40	64	93	51	71	92	48	69	108	46	67	102	42	65	88	31	57	86	26	52
1989	84	26	51	86	28	51	89	32	59	103	38	63	84	40	61	99	46	66	100	50	70	93	48	68	100	46	68	95	35	62	94	29	60	87	28	55
1990	84	27	52	84	23	52	91	30	56	89	42	61	102	39	61	106	45	68	104	50	73	96	49	71	97	50	69	96	42	65	94	30	60	85	15	50
1991	83	28	54	85	35	58	77	31	52	88	37	59	91	40	59	83	44	62	85	50	67	96	48	68	95	48	69	105	36	66	93	33	60	79	28	53
1992	84	31	54	87	35	57	81	39	57	91	44	64	81	49	65	87	45	66	97	49	71	101	50	73	98	50	69	95	46	65	90	34	59	78	27	50
1993	80	28	52	76	36	52	85	36	59	89	41	61	92	40	63	94	43	67	89	52	68	93	52	70	103	45	68	100	44	65	95	32	57	81	29	52
1994	86	30	54	79	29	52	89	36	58	89	40	59	84	43	61	102	48	68	96	52	68	102	51	73	95	46	69	97	39	63	82	28	52	78	26	52
1995	83	32	53	91	41	61	82	36	58	89	38	59	78	40	59	90	43	65	106	50	70	103	47	71	101	46	70	97	40	65	88	40	61	81	34	56
1996	86	28	54	87	30	57	84	34	58	94	40	63	89	44	64	102	47	67	103	52	71	101	50	72	93	47	69	84	34	62	93	34	59	75	33	54
1997	80	33	54	87	35	56	95	33	60	94	36	61	98	45	68	84	50	67	99	50	70	110	51	74	104	50	75	102	37	66	100	40	60	81	26	52
1998	76	29	54	75	35	52	85	33	57	86	36	57	80	43	60	82	46	65	96	51	71	108	51	75	106	48	69	93	38	63	82	35	56	84	23	51
1999	81	30	54	83	29	55	82	34	54	93	30	57	89	40	61	84	42	67	95	48	71	98	47	69	103	43	67	100	43	68	88	33	59	85	31	56
2000	79	28	55	81	36	54	84	34	57	89	40	62	90	43	65	91	46	69	104	49	70	97	52	72	103	45	71	89	40	62	81	30	53	81	30	55
2001	67	35	51	64	39	52	71	46	58	71	44	57	77	55	66	82	54	68	82	56	69	85	55	70	85	54	70	79	51	65	69	46	58	65	37	51
2002	80	28	51	90	27	56	84	31	55	87	38	58	94	40	61	90	45	66	98	51	70	93	49	69	109	46	70	99	41	61	91	39	58	72	33	52
2003	91	34	59	76	30	54	90	36	59	87	37	63	95	43	62	87	49	65	97	50	73	101	37	74	101	50	69	100	45	68	83	30	55	76	27	51
2004	79	25	52	75	31	52	94	37	63	102	37	62	102	44	65	84																				

HISTORICAL TEMPERATURES
CMWD CASITAS RECREATION AREA WEATHER STATION
(Degrees F.)

YEAR	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg	max	min	avg			
1960	75	22	48	73	29	51	84	34	56	89	33	59	92	35	62	99	43	66	107	46	72	98	44	69	107	41	71	92	35	62	84	33	56	81	27	52
1961	89	26	54	85	30	54	83	31	54	100	39	59	87	37	58	112	41	62	103	49	72	100	48	72	102	44	66	106	35	64	91	30	55	80	31	51
1962	88	24	50	75	25	50	79	28	50	92	34	60	87	39	58	94	43	63	95	45	67	101	45	72	99	43	68	96	40	61	87	31	57	84	19	53
1963	78	16	48	88	37	58	85	29	52	78	33	53	84	39	58	89	42	62	95	46	69	99	46	70	107	52	74	89	41	64	88	31	56	82	27	53
1964	80	25	49	82	27	50	82	27	49	83	32	54	82	34	57	10	42	62	97	46	70	94	46	69	98	41	66	100	43	62	85	27	54	75	25	52
1965	82	28	52	84	25	51	77	31	52	89	30	54	92	28	58	91	38	58	96	41	66	102	47	71	93	40	62	97	37	61	84	33	56	83	26	50
1966	80	26	49	76	28	48	95	27	55	92	37	59	85	41	60	96	42	65	93	41	68	94	50	72	97	42	62	96	37	64	95	32	56	79	25	52
1967	79	25	50	82	28	53	80	30	52	69	32	54	96	36	60	87	38	60	92	49	70	105	54	75	96	50	70	97	41	65	91	33	60	79	25	49
1968	80	25	50	85	35	56	84	32	56	86	31	57	99	34	60	93	35	62	95	36	72	96	42	62	98	38	62	96	40	62	87	27	56	87	21	48
1969	84	26	50	67	29	49	85	28	52	81	31	56	86	38	60	90	45	61	92	46	68	101	43	71	92	41	62	87	32	59	88	31	58	79	23	52
1970	68	20	52	76	32	50	79	31	56	87	30	47	96	35	60	97	44	67	100	48	71	102	42	69	102	42	66	99	34	62	86	33	55	76	29	49
1971	90	24	51	87	32	52	85	25	52	88	33	54	81	38	56	88	40	62	95	48	68	98	49	72	109	42	68	99	26	60	86	30	44	68	22	46
1972	77	24	43	82	26	54	90	30	58	85	30	58	96	31	62	93	38	65	100	40	71	103	44	71	95	32	67	92	33	60	83	33	55	80	23	51
1973	80	20	47	75	32	53	69	30	50	79	35	56	96	38	61	101	42	68	94	48	67	96	44	69	95	40	64	92	40	63	81	31	53	81	28	53
1974	75	23	49	79	28	51	78	32	54	87	35	56	97	35	58	96	41	65	95	48	70	99	46	68	98	45	68	97	41	60	90	30	56	79	24	49
1975	86	24	52	77	29	51	74	31	53	78	30	52	85	35	58	83	44	62	95	45	68	96	42	68	100	47	70	95	35	61	85	27	54	83	25	53
1976	87	21	53	79	32	51	82	28	54	86	35	54	94	43	61	104	42	67	96	49	67	102	49	67	92	50	69	94	36	63	95	28	59	82	27	52
1977	82	23	51	86	32	54	78	28	50	84	32	57	81	39	57	85	39	63	100	47	69	94	49	70	96	44	65	90	38	62	92	31	58	78	33	56
1978	74	28	51	88	30	54	88	37	57	75	33	55	99	40	63	90	42	66	109	48	69	96	47	67	109	41	69	96	42	65	86	29	53	76	22	49
1979	69	26	48	76	28	50	84	35	54	79	35	57	95	40	60	102	44	66	98	45	69	89	48	68	105	44	72	90	37	63	82	25	56	87	25	54
1980	76	31	54	82	30	56	76	34	54	91	36	58	89	34	58	95	42	65	110	49	73	96	49	70	104	36	66	104	37	64	90	28	58	89	30	56
1981	82	33	56	88	30	57	79	36	55	94	36	59	88	40	62	102	42	72	93	49	71	102	47	73	95	48	68	93	34	60	89	34	58	84	25	54
1982	80	26	51	83	31	56	76	32	52	85	31	57	83	38	60	87	42	61	95	47	70	104	48	72	106	46	69	94	36	63	84	34	56	75	28	52
1983	90	29	55	79	32	55	82	31	55	79	32	55	89	21	59	86	39	64	96	43	68	99	40	73	103	41	72	93	33	62	86	NA	NA	75	NA	67
1984	80	30	53	80	28	52	81	34	56	86	34	57	100	40	65	94	48	65	96	52	73	94	52	72	101	50	74	90	37	60	78	30	53	71	28	50
1985	72	27	48	85	25	51	80	30	51	87	38	58	85	38	57	98	42	66	105	33	73	100	50	69	91	42	65	96	42	61	84	30	53	84	26	53
1986	84	33	57	85	30	55	82	38	57	87	35	57	88	39	59	88	49	65	89	50	68	94	53	71	87	42	61	88	38	61	86	33	59	76	28	52
1987	75	22	48	80	28	52	78	31	53	88	34	60	91	40	63	89	48	65	91	47	63	94	44	68	101	45	68	102	48	66	83	28	55	74	20	47
1988	80	26	50	80	28	54	93	30	57	89	34	58	94	36	61	87	40	64	91	52	70	92	49	68	104	44	66	96	41	63	86	28	55	82	26	50
1989	80	24	48	80	27	50	82	30	56	96	36	61	86	40	59	94	46	64	102	38	69	90	46	67	102	45	67	95	34	61	91	27	58	90	27	51
1990	84	24	50	81	20	50	86	31	54	86	39	59	98	37	58	110	41	67	98	48	71	96	44	69	99	46	68	92	38	62	89	25	56	82	8	45
1991	78	24	49	82	29	56	80	28	49	84	32	56	90	33	57	90	40	61	95	46	66	96	44	67	90	44	68	101	30	65	90	30	57	78	22	50
1992	80	24	50	82	30	53	76	32	53	90	36	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	98	50	73	NA	NA	NA	97	44	64	87	31	57	74	23	48
1993	79	24	49	78	31	50	81	32	56	84	38	59	NA	NA	NA	102	40	66	95	50	66	90	50	70	100	46	70	97	42	66	90	34	58	85	30	54
1994	89	32	56	82	30	52	87	35	59	82	39	59	86	43	61	100	48	68	96	52	70	100	53	75	92	46	70	95	40	64	88	30	55	85	28	54
1995	78	33	53	92	40	61	78	34	56	87	40	60	83	40	61	91	39	65	104	51	71	97	50	75	100	48	71	NA	NA	NA	87	42	62	84	36	56
1996	90	29	55	NA	NA	NA	84	33	57	92	41	62	92	46	64	96	48	67	97	54	73	99	52	74	92	49	69	99	38	64	95	38	60	71	43	57
1997	82	32	54	86	34	57	94	34	59	92	36	61	94	46	68	82	52	67	91	42	69	102	55	74	99	52	75	NA	NA	NA	100	41	60	84	29	54
1998	83	31	54	72	37	51	83	35	56	84	36	55	77	38	58	81	40	61	94	43	69	105	44	75	105	45	68	89	40	62	81	35	56	85	22	52
1999	81	30	55	78	27	53	81	33	52	32	88	56	38	86	58	86	42	63	97	50	69	100	49	69	100	44	65	100	43	68	90	34	58	83	31	55
2000	79	30	54	79	35	53	81	35	55	84	39	59	99	40	64	91	48	68	96	48	69	98	51	72	104	47	67	88	41	61	86	30	54	81	31	55
2001	82	28	49	89	30	49	82	35	56	78	36	55	90	42	64	92	48	67	89	50	69	95	51	70	96	46	68	99	43	64	80	32	59	81	31	52
2002	81	24	50	72	35	54	80	30	53	90	38	61	90	43	64	94	49	69	94	49	69	96	48	68	101	44	72	97	40	61	89	38	59	71	29	51
2003	84	32	57	81	28	52	87	31	55	86	31	53	92	39	60	62	38	61	96	43	72	98	50	71	99	38	69	99	43	67	82	28	53	78	24	51
2004	78	28	49	71	29	49	90	35	59	99	31	56	99	41	62	86																				

Appendix H

Historical Hydrology Data

CASITAS RESERVOIR INVENTORY ANNUAL SUMMARY

(CALENDAR YEAR - ALL VALUES IN ACRE-FEET UNLESS OTHERWISE NOTED)

YEAR	RESERVOIR DATA (START OF YEAR- Last Day of Previous Month)		INFLOW FOR YEAR			RELEASES FOR YEAR			SPILL FOR YEAR	EVAP FOR YEAR	RAINFALL ON LAKE SURFACE	STORAGE VOLUME	
	ELEVATION (FT ABOVE MSL)	STORAGE	DIRECT	VENTURA RIVER DIVERSION	TOTAL	TO CONV. SYSTEM	DOWN RIVER	TOTAL				MAXIMUM FOR YEAR	MINIMUM FOR YEAR
1959	350.00	-	2,305	5,105	7,410	586	72	658	-	728	59	7,022	574
1960	366.66	5,908	1,322	24	1,346	1,277	80	1,357	-	1,068	372	6,846	5,201
1961	363.28	5,201	967	32	999	1,625	18	1,643	-	819	133	5,201	3,642
1962	355.46	3,870	26,428	21,915	48,343	1,988	55	2,043	-	3,505	1,014	51,977	3,845
1963	477.68	47,679	2,114	2,939	5,053	4,445	72	4,517	-	3,498	1,664	51,524	46,381
1964	446.13	46,381	1,841	354	2,195	6,024	72	6,096	-	3,406	1,293	46,381	38,606
1965	438.57	40,373	15,279	21,439	36,718	7,631	72	7,703	-	2,957	2,421	68,851	39,718
1966	469.42	68,851	11,941	25,323	37,264	7,162	73	7,235	-	5,030	1,915	95,765	70,068
1967	490.62	95,765	12,961	35,172	48,133	8,759	72	8,831	-	6,214	3,840	138,996	108,511
1968	513.22	132,333	1,677	1,070	2,747	13,729	74	13,803	-	6,593	2,133	132,549	116,818
1969	504.25	116,818	55,379	50,349	105,728	14,040	73	14,113	-	8,413	7,625	216,790	116,418
1970	548.94	207,694	7,112	15,859	22,971	16,417	72	16,489	-	9,841	5,395	217,656	207,214
1971	549.78	207,729	3,758	10,957	14,715	16,392	24	16,416	-	9,552	3,433	214,692	193,686
1972	546.52	201,908	813	1,718	2,531	17,878	73	17,951	-	8,758	1,706	202,690	179,435
1973	536.70	179,435	22,262	39,588	61,850	13,963	33	13,996	-	8,937	4,520	239,330	224,519
1974	555.75	224,519	5,240	11,732	16,972	17,400	23	17,423	-	9,394	5,423	238,096	217,063
1975	553.99	220,096	5,352	12,988	18,340	15,937	73	16,010	-	8,870	2,813	235,437	216,370
1976	552.49	216,370	3,031	3,438	6,469	18,371	104	18,475	-	9,142	3,782	219,324	198,885
1977	545.29	199,003	1,590	1,094	2,684	18,035	70	18,105	-	8,821	3,352	200,062	175,359
1978	536.10	178,113	49,376	28,695	78,071	12,390	2,677	15,067	1,572	9,622	9,879	255,307	178,025
1979	561.68	239,802	7,584	8,845	16,429	13,072	32	13,104	1,193	9,963	5,395	255,116	237,183
1980	560.75	237,365	28,923	2,717	31,640	16,283	73	16,356	16,855	9,900	7,393	260,034	233,286
1981	559.18	233,286	3,112	5,772	8,884	20,242	73	20,315	-	9,412	4,002	240,222	216,395
1982	552.52	216,444	5,206	9,933	15,139	14,739	73	14,812	-	8,339	5,645	223,208	206,564
1983	551.56	214,078	44,548	22,131	66,679	15,757	73	15,830	17,877	8,844	11,699	259,264	213,562
1984	565.49	249,931	2,878	2,087	4,965	23,007	73	23,080	-	10,637	2,924	249,958	220,748
1985	555.15	223,006	4,220	3,015	7,235	20,219	73	20,292	-	9,149	2,637	223,208	196,404
1986	545.97	200,605	18,711	39,316	58,027	17,797	73	17,870	742	9,700	5,589	254,926	200,558
1987	560.16	235,828	-988	1,614	626	21,775	73	21,848	-	9,117	3,142	236,063	208,711
1988	549.35	208,687	1,431	9,154	10,585	21,974	73	22,047	-	9,005	3,715	216,543	191,890
1989	542.25	191,936	1,086	524	1,610	26,180	73	26,253	-	9,010	1,399	192,259	159,729
1990	527.43	159,688	-1,115	-	-1,115	21,494	73	21,567	-	8,353	1,447	159,688	130,141
1991	511.99	130,141	12,114	17,620	29,734	15,416	73	15,489	-	7,481	4,496	156,765	127,786
1992	518.58	142,203	20,483	44,202	64,685	12,042	73	12,114	-	8,704	5,620	201,197	142,203
1993	542.12	191,637	43,435	34,685	78,120	11,990	73	12,063	13,395	10,054	7,849	258,362	191,637
1994	562.58	242,177	1,806	3,504	5,310	16,345	73	16,418	-	10,347	3,458	245,810	224,141
1995	555.60	224,141	52,239	1,323	53,562	11,621	72	11,693	27,499	10,287	10,895	262,625	239,122
1996	561.42	239,122	6,883	5,371	12,254	15,902	23	15,925	-	10,489	6,897	244,346	224,898
1997	558.63	231,866	11,745	11,896	23,641	20,482	-	20,482	-	11,062	4,304	248,616	223,132
1998	557.06	227,839	51,727	6,338	58,065	13,411	-	13,411	34,907	9,503	12,632	267,542	227,743
1999	561.85	240,250	1,313	-	1,313	20,121	-	20,121	-	10,224	2,295	240,205	213,513
2000	551.33	213,513	13,541	4,482	18,023	21,506	-	21,506	-	9,801	5,134	227,132	205,434
2001	548.00	205,434	21,919	15,527	37,446	17,809	-	17,809	-	8,379	6,993	242,359	204,837
2002	555.24	223,233	-403	-	-403	22,092	-	22,092	-	8,286	2,718	223,183	194,359
2003	543.65	195,172	3,429	1,571	5,000	16,571	-	16,571	-	7,985	3,583	197,199	178,563
2004	536.62	179,219	9,006	2,853	11,859	20,214	-	20,214	-	7,783	4,897	182,113	157,595
2005	531.47	167,988	53,115	26,906	80,021	17,673	-	17,673	-	7,242	7,798	250,736	169,160
2006	558.25	230,891	9,382	12,091	21,473	17,253	-	17,253	-	7,649	5,534	252,651	231,585
2007	559.06	232,975	-1,450	-	-1,450	21,326	-	21,326	-	8,571	2,253	232,950	203,810
2008	547.35	203,882	15,470	9,927	25,397	18,325	-	18,325	-	8,753	5,538	231,071	203,595
2009	548.89	207,574	-580	506	-74	17,259	-	17,259	-	8,025	3,646	207,719	185,543
2010	539.59	185,881	12,419	10,926	23,345	14,637	-	14,637	-	6,898	7,051	199,945	182,049
2011	543.46	194,731	11,054	17,847	28,901	14,841	-	14,841	-	7,576	4,267	221,751	194,731
2012	548.02	205,482	-837	87	-750	16,244	-	16,244	-	8,263	3,165	205,482	183,746
2013	538.48	183,389	-1,649	-	-1,649	20,402	-	20,402	-	7,858	1,021	183,389	154,501
2014	524.88	154,501	217	1,018	1,235	18,811	-	18,811	-	7,678	2,353	154,501	131,511
2015	512.81	131,600	-1,810	-	-1,810	17,246	-	17,246	-	6,162	736	131,600	107,119
2016	498.22	107,119	-1,707	-	-1,707	14,151	-	14,151	-	4,311	2,394	107,759	89,317
2017**	486.02	89,344	14,074	6,091	20,165	12,214	-	12,214	-	5,435	3,020	111,640	82,919
2018	489.74	82,919	3,547	829	4,376	11,633	-	11,633	-	5,242	1,859	85,050	72,255
2019	481.10	72,278	15,366	21,230	36,596	7,668	-	7,668	-	5,434	4,023	107,663	72,149
2020	501.48	99,795	3,288	5,478	8,766	10,820	-	10,820	-	6,201	1,763	107,237	93,316
2021	497.29	93,449	2,766	2,034	4,800	12,468	-	12,468	-	5,704	2,407	93,434	76,737
2022	489.48	82,583	3,022	522	3,544	9,118	-	9,118	-	5,398	469	83,661	70,717
2023	480.93	72,079											
AVG:	522.27	167,277	11,559	10,464	22,024	15,001	81	15,082	1,810	7,682	4,096	185,667	157,849
MAX:	525.05	249,931	55,379	50,349	105,728	26,180	2,677	26,253	34,907	11,062	12,632	267,542	239,122
MIN:	350.00		-1,810	-	-1,810	586	-	658	-	728	59	5,201	574

*Total water supply delivered to Casitas System during 1991 includes 1240 a.f. state project water into system and 450 a.f. delivered to Santa Barbara out of system.

**Reservoir storage rating table updated and adopted 01 Oct, 2017. Storage volumes after this date reported using 2017 Rating Table.

**HISTORICAL RAINFALL
CASITAS MUNICIPAL WATER DISTRICT**

WATER YEAR	CASITAS DAM	CASITAS RECREATION	MATILIJA DAM	3 - STATION MEAN	THACHER SCHOOL
1958-59	10.22	11.84	16.62	12.89	11.34
59-60	15.79	14.70	14.45	14.98	13.26
1960-61	8.77	8.42	13.24	10.14	9.48
61-62	37.75	33.96	39.21	36.97	28.74
62-63	18.70	17.54	20.07	18.77	16.87
63-64	13.62	12.04	16.13	13.93	12.79
64-65	23.26	22.77	22.83	22.95	17.42
65-66	25.23	25.23	30.30	26.92	24.59
66-67	34.43	32.30	44.78	37.17	31.14
67-68	16.61	16.44	15.20	16.08	12.62
68-69	46.57	47.55	69.94	54.69	46.93
69-70	16.70	16.52	18.98	17.40	N/A
1970-71	19.72	19.71	22.65	20.69	20.72
71-72	11.94	13.72	15.49	13.72	10.83
72-73	34.79	34.56	45.91	38.42	30.14
73-74	19.95	18.43	22.16	20.18	18.91
74-75	23.83	24.05	26.83	24.90	22.37
75-76	17.90	17.23	20.85	18.66	15.24
76-77	12.90	11.98	13.75	12.88	11.42
77-78	49.05	49.66	63.04	53.92	50.04
78-79	25.80	25.64	28.66	26.70	25.45
79-80	34.06	35.15	42.43	37.21	30.58
1980-81	16.24	16.99	21.88	18.37	15.53
81-82	19.35	20.34	25.35	21.68	21.44
82-83	51.14	48.22	58.65	52.67	52.17
83-84	17.91	16.63	19.34	17.96	14.83
84-85	17.30	15.93	19.00	17.41	12.68
85-86	33.49	32.20	41.32	35.67	27.27
86-87	10.86	9.83	11.44	10.71	9.01
87-88	18.62	18.40	21.58	19.53	20.87
88-89	11.73	11.85	13.65	12.41	12.27
89-90	9.46	8.86	12.48	10.27	8.61
1990-91	24.43	23.59	26.01	24.68	21.78
91-92	29.75	28.53	34.27	30.85	34.25
92-93	41.20	43.31	60.38	48.30	45.71
93-94	16.08	14.69	16.27	15.68	15.60
94-95	49.84	49.04	58.17	52.35	46.89
95-96	18.80	16.91	22.78	19.50	17.71
96-97	24.37	25.27	27.80	25.81	22.12
97-98	59.54	58.78	64.27	60.86	52.29
98-99	12.68	10.67	12.56	11.97	12.92
99-00	24.35	21.94	26.79	24.36	19.73
2000-01	29.36	27.86	33.45	30.22	30.55
01-02	9.28	8.77	10.10	9.38	8.27
02-03	24.83	23.69	30.58	26.37	21.35
03-04	17.03	14.33	18.84	16.73	13.04
04-05	54.66	51.28	74.44	60.13	52.90
05-06	26.52	25.84	34.58	28.98	26.00
06-07	8.60	7.15	9.23	8.33	7.65
07-08	26.19	24.58	33.62	28.13	23.89
08-09	14.82	12.91	16.56	14.76	13.62
09-10	31.13	28.48	36.54	32.05	24.35
2010-11	35.99	34.04	40.28	36.77	31.18
11-12	15.11	13.18	14.21	14.17	12.09
12-13	10.99	10.11	11.85	10.98	9.11
13-14	9.90	9.52	14.76	11.39	11.30
14-15	11.65	10.06	17.57	13.09	14.91
15-16	14.64	14.33	16.20	15.06	11.07
16-17	31.53	29.56	35.46	32.18	28.50
17-18	11.49	12.09	17.03	13.54	13.60
18-19	29.49	28.63	39.75	32.62	28.10
19-20	19.30	18.70	29.91	22.64	19.41
20-21	7.07	7.22	6.48	6.92	5.82
21-22	19.33	17.15	22.19	19.56	16.15
AVERAGE	23.18	22.36	27.83	24.46	21.37
MAXIMUM	59.54	58.78	74.44	60.86	52.90
MINIMUM	7.07	7.15	6.48	6.92	0.00

*RAINFALL IN INCHES, WATER YEAR OCTOBER 1 THRU SEPTEMBER 30

BOLD NUMBERS INDICATE RECORD MAX/MIN RAINFALL AMOUNTS FOR THE PERIOD

NOTE: Matilija Dam Rainfall records after 2005-06 season obtained from the Ventura County Watershed Protection District

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HISTORICAL MONTHLY RAINFALL LAKE CASITAS DAM

Note: This data is in combination with VCWPD data and may differ from what is reported for annual averages

W. YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1959/1960	0	0	1.18	5.61	4.78	0.65	3.57	0	0	0	0	0	15.79
1961	0.01	5.27	0.45	2.06	0	0.79	0.16	0	0	0	0	0.03	8.77
1962	0	5.62	1.89	3.07	25.49	1.61	0	0.07	0	0	0	0	37.75
1963	0.70	0.01	0.09	1.09	7.78	4.08	2.75	0.15	0.63	0	0	1.42	18.70
1964	0.73	4.83	0	3.11	0	2.50	2.10	0.07	0.18	0	0.10	0	13.62
1965	0.82	2.46	8.65	0.60	0.31	1.45	8.36	0.02	0	0	0	0.59	23.26
1966	0	14.37	7.04	2.43	1.19	0.12	0	0.03	0	0	0	0.05	25.23
1967	0	4.36	10.18	9.29	0.24	3.87	6.35	0	0	0	0	0.14	34.43
1968	0	5.62	1.40	1.75	1.68	5.01	1.13	0	0	0	0.02	0	16.61
1969	1.09	0.91	2.29	26.59	12.12	1.24	2.12	0	0	0.21	0	0	46.57
1969/1970	0	3.77	0.15	3.50	3.45	5.83	0	0	0	0	0	0	16.70
1971	0.03	7.74	6.18	1.56	1.31	0.99	0.83	1.08	0	0	0	0	19.72
1972	0.10	0.43	10.46	0.31	0.38	0	0.19	0.02	0	0	0	0.05	11.94
1973	0.27	6.31	1.23	8.94	14.86	3.17	0.01	0	0	0	0	0	34.79
1974	0.52	2.44	2.04	9.82	0	4.87	0.20	0	0	0	0	0	19.89
1975	0.74	0.15	10.00	0	4.95	6.50	1.48	0	0	0	0	0.01	23.83
1976	0.19	0	0.08	0	6.99	2.05	0.70	0	0.15	0.15	0	7.59	17.90
1977	0	0.53	0.95	6.11	0.25	1.93	0	2.70	0	0	0.43	0	12.90
1978	0	0.14	6.41	10.35	11.55	16.55	2.86	0	0	0	0.02	1.17	49.05
1979	0.06	2.77	2.28	5.86	5.35	8.39	0	0	0.01	0	0	0.63	25.35
1979/1980	0.61	1.10	2.02	8.89	15.92	4.62	0.62	0.22	0	0	0	0.06	34.06
1981	0.02	0	2.10	3.67	2.06	7.87	0.52	0	0	0	0	0	16.24
1982	0.59	2.99	0.76	3.38	1.03	6.74	2.86	0.02	0	0	0	0.98	19.35
1983	0.76	6.63	5.44	13.62	8.92	8.47	5.40	0.21	0	0	1.08	0.60	51.13
1984	4.94	6.02	4.85	0.12	0.01	0.49	0.08	0	0	0.25	0.13	1.06	17.95
1985	0.49	4.72	7.18	1.13	1.87	1.85	0	0	0	0.02	0	0.04	17.30
1986	0.64	7.00	0.99	3.51	10.71	6.96	1.96	0	0	0	0	1.33	33.10
1987	0	1.92	0.50	2.58	2.23	3.50	0.11	0	0.02	0.02	0	0	10.88
1988	1.50	1.48	4.05	3.60	2.57	1.45	3.82	0	0.15	0	0	0	18.62
1989	0	1.24	4.40	0.74	3.92	0.90	0.25	0.18	0	0	0	0.10	11.73
1989/1990	0.52	0.31	0	3.85	3.59	0.02	0.13	1.02	0	0	0	0.01	9.45
1991	0	0.33	0	2.10	3.50	18.30	0	0	0.18	0.01	0.01	0	24.43
1992	0.58	0.23	4.89	3.33	11.54	5.90	0.07	0.49	0	0.37	0	0	27.40
1993	1.43	0	6.91	14.02	11.59	6.44	0	0.17	0.64	0	0	0	41.20
1994	0.09	1.32	2.03	0.75	8.58	2.04	0.53	0.24	0	0	0	0.08	15.66
1995	0.90	1.81	1.22	29.05	2.17	12.30	0.44	1.47	0.48	0	0	0	49.84
1996	0	0.19	3.19	1.67	10.34	1.96	1.14	0.31	0	0	0	0	18.80
1997	4.58	3.04	9.13	7.54	0.08	0	0	0	0.12	0	0	0	24.49
1998	0.01	3.42	7.09	4.48	31.14	6.58	2.59	3.83	0.08	0	0	0.33	59.55
1999	0	1.36	0.86	2.77	1.12	3.46	2.49	0	0.15	0	0	0.18	12.39
1999/2000	0	1.17	0	2.77	12.27	3.77	4.22	0	0	0	0	0.09	24.29
2001	2.85	0	0.05	8.59	7.66	8.58	1.61	0	0	0.02	0	0	29.36
2002	0.42	4.18	2.22	1.15	0.44	0.49	0.08	0.19	0	0	0	0.11	9.28
2003	0	6.17	6.12	0	4.31	4.43	1.79	2.49	0.14	0	0	0	25.45
2004	0	3.40	2.96	0.96	9.07	0.64	0	0	0	0	0	0	17.03
2005	6.98	0.06	10.68	20.41	9.84	4.70	0.75	0.91	0	0	0	0.33	54.66
2006	0.95	0.78	1.46	5.46	3.51	4.52	8.51	1.33	0	0	0	0	26.52
2007	0.12	0.27	1.28	3.54	2.07	0.03	0.82	0	0	0	0	0.47	8.60
2008	0.51	0.09	4.46	18.24	2.74	0	0.06	0.03	0	0	0.06	0	26.19
2009	0.15	3.12	3.37	0.64	6.13	1.16	0.21	0	0.04	0	0	0	14.82
2009/2010	6.00	0	5.33	8.88	6.45	0.49	3.76	0.22	0	0	0	0	31.13
2011	2.25	1.91	15.79	0.79	5.40	8.39	0.04	1.21	0.21	0	0	0	35.99
2012	1.90	3.10	0.30	1.88	0.07	4.60	3.21	0	0	0.02	0.01	0.02	15.11
2013	0.06	3.50	3.86	2.07	0.28	1.22	0	0	0	0	0	0	10.99
2014	0.09	0.90	0.63	0	4.56	3.17	0.48	0.01	0	0	0.06	0	9.90
2015	0	1.28	5.51	2.12	0.77	0.46	0.38	0.25	0.19	0.37	0	0.32	11.65
2016	0.41	0.09	0.40	7.20	2.18	3.77	0.53	0.06	0	0	0	0	14.64
2017	0.71	0.83	4.15	10.88	12.91	1.27	0.53	0.14	0	0	0	0.11	31.53
2018	0	0.03	0	2.83	0.14	8.43	0.02	0.04	0	0	0	0	11.49
2019	0.14	3.11	1.16	9.07	9.56	4.37	0.06	2.02	0	0	0	0	29.49
2019/2020	0	1.86	6.93	0.82	0.17	4.97	4.46	0.08	0.01	0	0	0	19.30
2021	0.01	0.19	1.69	3.99	0	1.29	0	0.02	0	0	0	0	7.19
2022	1.96	0.05	14.30	0.13	0	2.61	0.23	0	0	0	0	0.05	19.33
AVG	0.77	2.36	3.70	5.16	5.33	3.89	1.39	0.34	0.05	0.02	0.03	0.28	23.34
MAX	6.98	14.37	15.79	29.05	31.14	18.30	8.51	3.83	0.64	0.37	1.08	7.59	59.55
MIN	0	0	0	0	0	0	0	0	0	0	0	0	7.19

Rainfall in inches, water year October 1 through September 30

HISTORICAL MONTHLY RAINFALL LAKE CASITAS RECREATION AREA (STA #204)

W. YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1959/1960	0	0	1.25	5.40	4.29	0.78	2.98	0	0	0	0	0	14.70
1961	0	5.08	0.48	1.90	0	0.63	0.23	0.06	0	0	0	0.04	8.42
1962	0	5.47	1.78	2.56	22.65	1.45	0	0.05	0	0	0	0	33.96
1963	0.49	0.01	0.05	1.35	6.85	3.59	2.61	0.39	0.51	0	0	1.69	17.54
1964	0.48	4.57	0	2.53	0	1.84	2.17	0.11	0.13	0	0.21	0	12.04
1965	0.84	3.39	8.33	0.67	0.38	1.59	7.29	0.01	0.01	0	0	0.26	22.77
1966	0	14.19	7.07	2.51	1.11	0.04	0	0.10	0	0	0	0.21	25.23
1967	0.02	4.80	9.71	7.80	0.27	3.53	5.82	0	0	0	0	0.35	32.30
1968	0	5.03	1.15	1.53	1.51	4.76	1.13	0	0	0	0	0	15.11
1969	1.23	0.91	2.62	26.58	12.81	1.26	2.01	0.01	0	0.12	0	0	47.55
1969/1970	0	3.52	0.19	3.68	3.70	5.43	0	0	0	0	0	0	16.52
1971	0	6.36	6.94	1.51	0	0.71	0.55	0.03	0	0	0	0	16.10
1972	0.15	0.62	11.02	0.33	0.58	0	0.16	0	0.02	0	0	0.14	13.02
1973	0.13	6.75	1.20	9.14	14.17	3.16	0	0	0	0	0	0	34.55
1974	0.65	1.94	1.43	9.40	0	4.82	0.09	0	0	0	0	0	18.33
1975	0.67	0.12	10.26	0	4.96	6.50	1.54	0	0	0	0	0	24.05
1976	0.23	0	0.13	0	6.43	2.10	0.71	0	0.25	0	0.06	7.32	17.23
1977	0.01	0.63	0.71	4.96	0.25	2.27	0	2.76	0	0	0.39	0	11.98
1978	0.02	0.09	6.57	11.35	13.04	14.71	2.53	0	0	0	0	1.35	49.66
1979	0	2.57	2.48	6.00	5.90	7.83	0	0	0	0	0	0.86	25.64
1979/1980	0.64	0.95	1.96	9.56	16.93	4.04	0.75	0.32	0	0	0	0	35.15
1981	0	0	2.21	4.59	2.15	7.45	0.59	0	0	0	0	0	16.99
1982	0.67	2.64	0.78	4.20	0.90	6.85	2.81	0	0	0	0	1.49	20.34
1983	0.71	5.87	4.60	12.59	8.48	9.13	4.86	0.18	0	0	1.18	0.62	48.22
1984	4.88	5.57	5.14	0.09	0	0.55	0.05	0	0	0	0.08	1.06	17.42
1985	0.41	4.21	6.91	1.42	1.71	1.62	0.02	0	0	0	0	0	16.30
1986	0.55	6.28	1.15	3.97	11.09	6.26	1.74	0	0	0	0	1.25	32.29
1987	0	1.66	0.49	2.16	2.06	3.32	0.12	0	0.03	0	0	0	9.84
1988	1.52	1.14	4.10	3.53	2.63	1.75	3.08	0	0	0	0	0.07	17.82
1989	0	1.18	3.91	0.48	4.74	0.87	0.34	0.22	0	0	0	0.11	11.85
1989/1990	0.61	0.47	0	3.67	2.92	0.01	0.18	0.93	0.03	0	0	0.04	8.86
1991	0	0.36	0	2.03	3.85	17.19	0	0	0.16	0	0	0	23.59
1992	0.62	0.25	4.52	2.90	13.83	5.79	0.05	0.32	0	0.25	0	0	28.53
1993	1.53	0	7.58	14.97	11.88	6.22	0	0.19	0.94	0	0	0	43.31
1994	0.08	1.27	1.69	0.69	8.14	2.02	0.48	0.27	0	0	0	0.05	14.69
1995	0.69	1.48	0.96	27.61	2.29	14.03	0.29	1.29	0.40	0	0	0	49.04
1996	0.11	2.49	1.92	9.37	1.54	1.03	0.45	0	0	0	0	0	16.91
1997	4.06	2.92	7.99	10.21	0.09	0	0	0	0	0	0	0	25.27
1998	0	3.59	8.32	4.59	30.12	6.54	2.19	3.21	0.06	0	0	0.16	58.78
1999	0	1.27	0.84	2.74	0.81	2.38	2.19	0	0.17	0	0	0.27	10.67
1999/2000	0	1.00	0	2.34	11.96	3.24	3.28	0	0	0	0	0.12	21.94
2001	2.75	0	0.03	8.48	7.02	8.02	1.56	0	0	0	0	0	27.86
2002	0.41	4.37	1.60	1.10	0.36	0.53	0.08	0.23	0	0	0	0.02	8.70
2003	0	5.63	5.10	0	3.97	4.98	1.27	2.74	0	0	0	0	23.69
2004	0.05	2.68	2.13	0.79	8.08	0.60	0	0	0	0	0	0	14.33
2005	7.09	0.02	10.37	17.30	10.22	4.47	0.90	0.60	0	0	0	0.31	51.28
2006	0.97	0.87	0.79	4.93	3.73	4.87	8.21	1.47	0	0	0	0	25.84
2007	0.22	0.10	1.03	2.68	1.66	0.10	1.01	0	0	0	0	0.35	7.15
2008	0.46	0.04	3.40	17.93	2.49	0	0.09	0.06	0	0	0.11	0	24.58
2009	0.16	3.19	2.64	0.43	5.43	0.84	0.19	0	0	0	0	0	12.88
2009/2010	6.91	0	4.33	8.71	5.47	0.37	2.39	0.30	0	0	0	0	28.48
2011	2.14	1.91	13.09	0.90	5.32	9.42	0.11	0.94	0.21	0	0	0	34.04
2012	1.69	2.64	0.30	1.22	0.27	3.89	3.16	0	0	0	0	0.01	13.18
2013	0.15	3.74	3.15	1.91	0.10	0.81	0.25	0	0	0	0	0	10.11
2014	0.03	0.77	0.44	0	4.31	3.49	0.42	0	0	0	0.06	0	9.52
2015	0	0.96	5.41	1.44	0.82	0.25	0.2	0.3	0.14	0.32	0	0.22	10.06
2016	0.40	0	0.36	6.72	2.35	4.00	0.50	0	0	0	0	0	14.33
2017	0.71	1	3.79	10.45	11.75	1.30	0.48	0	0	0	0	0	29.56
2018	0	0.05	0	4.14	0.07	7.67	0.02	0.14	0	0	0	0	12.09
2019	0.11	2.47	1.73	8.12	10.64	3.66	0.02	1.88	0	0	0	0	28.63
2019/2020	0	1.59	6.07	0.57	0.67	5.25	4.46	0.08	0.01	0	0	0	18.70
2021	0	0.19	2.65	3.20	0.03	1.15	0	0	0	0	0	0	7.22
2022	2	0	14	0.07	0.03	1.90	0	0	0	0	0	0	17.15
AVG	0.76	2.26	3.50	5.14	5.11	3.73	1.25	0.31	0.05	0.01	0.03	0.30	22.44
MAX	7.09	14.19	13.50	27.61	30.12	17.19	8.21	3.21	0.94	0.32	1.18	7.32	58.78
MIN	0	0	0	0	0	0	0	0	0	0	0	0	7.15

Rainfall in inches, water year October 1 through September 30

ROBLES-CASITAS CANAL MONTHLY DIVERSIONS

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		TOTAL		Avg. Rain	
	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.	days	a.f.		
1959	26	374	21	3645	23	928	3	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	5105	12.89	
1960	0	0	2	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	24	14.98	
1961	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	23	2	32	10.14	
1962	0	0	20	13564	31	6882	30	1438	5	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	21915	36.97	
1963	0	0	23	2043	11	896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	2939	18.77	
1964	2	10	0	0	0	0	1	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	176	5	354	13.93	
1965	0	0	0	0	0	0	29	4955	4	79	0	0	0	0	0	0	0	0	0	0	14	11676	28	4729	75	21439	22.95	
1966	31	11440	28	3754	12	418	0	0	0	0	0	0	0	0	0	0	0	0	3	821	2	108	28	8782	104	25323	26.92	
1967	20	6284	16	1170	23	5023	30	10488	31	8909	30	1571	15	478	0	0	0	0	4	454	9	291	18	504	196	35172	37.17	
1968	0	0	1	16	24	339	0	0	0	0	0	0	0	0	0	0	0	0	0	4	715	0	0	29	1070	16.08		
1969	7	4924	20	11902	31	16623	30	8654	31	2685	30	1507	31	2710	5	360	0	0	0	0	5	76	10	908	200	50349	54.69	
1970	13	312	14	988	31	7347	11	404	0	0	0	0	0	0	0	0	3	365	0	0	1	575	19	5868	92	15859	17.40	
1971	31	3460	24	2011	3	24	0	0	0	0	9	861	0	0	0	0	0	0	0	4	550	7	4051	78	10957	20.69		
1972	20	1093	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	620	0	0	1	5	0	0	25	1718	13.72	
1973	15	3445	28	15331	31	14219	30	4274	23	1435	0	0	0	0	0	0	0	0	0	0	5	884	0	0	132	39588	38.42	
1974	23	6431	8	501	19	2437	4	539	0	0	0	0	0	0	0	0	0	0	0	0	3	397	3	1427	60	11732	20.18	
1975	0	0	7	1090	21	8876	17	1826	3	686	0	0	0	0	0	0	0	0	0	0	3	510	0	0	51	12988	24.90	
1976	0	0	9	2855	0	0	0	0	0	0	0	0	0	0	0	2	583	0	0	0	0	0	0	0	11	3438	18.66	
1977	0	0	0	0	0	0	0	0	1	50	0	0	0	0	0	0	0	0	0	0	0	0	4	1044	5	1094	12.88	
1978	24	7290	28	13204	17	7034	0	0	0	0	4	1167	0	0	0	0	0	0	0	0	0	0	0	0	73	28695	53.92	
1979	0	0	26	4712	16	1796	0	0	3	670	0	0	5	1667	0	0	0	0	0	0	0	0	0	0	50	8845	26.70	
1980	20	1456	15	1127	2	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	2717	37.21	
1981	4	203	0	0	31	5018	2	551	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	5772	18.37	
1982	3	599	0	0	11	1492	25	3582	28	494	15	74	0	0	0	0	0	0	0	0	7	657	14	3035	103	9933	21.68	
1983	10	8994	28	8791	0	0	0	0	0	0	17	1138	20	1430	4	218	11	536	0	0	0	0	14	1024	104	22131	52.67	
1984	0	0	8	1130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	957	17	2087	17.96	
1985	3	528	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1522	9	964	19	3015	17.41	
1986	2	1385	28	14926	31	14415	30	5430	22	1418	27	1742	0	0	0	0	0	0	0	0	0	0	0	0	140	39316	35.67	
1987	0	0	0	0	10	1034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	580	12	1614	10.71	
1988	10	1368	4	1533	15	4725	11	885	3	643	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	9154	19.53	
1989	0	0	7	524	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	524	12.41	
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.27	
1991	0	0	1	367	18	11776	30	4186	12	925	0	0	0	0	0	0	0	0	0	0	0	0	2	366	63	17620	24.68	
1992	5	1026	23	14826	31	15898	30	7228	31	2460	9	413	0	0	4	504	0	0	0	0	0	0	6	1847	139	44202	30.85	
1993	27	21012	16	10886	0	0	0	0	7	963	5	1039	4	785	0	0	0	0	0	0	0	0	0	0	59	34685	48.30	
1994	0	0	13	1645	7	932	0	0	6	927	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	3504	15.68	
1995	3	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1323	52.35	
1996	0	0	0	0	6	1291	0	0	4	371	0	0	0	0	0	0	0	0	0	0	2	354	9	3355	21	5371	19.50	
1997	18	7134	6	1843	4	917	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2002	32	11896	25.81	
1998	5	1366	6	4972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	6338	60.86	
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.97	
2000	0	0	4	1459	10	3023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	4482	24.36	
2001	2	451	13	2140	28	11786	14	1039	1	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	15527	30.22	
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.38	
2003	0	0	0	0	5	982	5	264	5	325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1571	26.37	
2004	0	0	3	1010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1843	10	2853	16.73	
2005	31	12925	28	9297	22	4568	0	0	2	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	26906	60.13	
2006	7	444	1	246	22	1283	30	8525	31	1593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	12091	28.98	
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.33	
2008	16	4137	29	4707	31	1083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	9927	28.13	
2009	0	0	11	365	3	127	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	1	6	16	506	14.76
2010	13	3461	28	1954	31	685	18	368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	4459	103	10926	32.05	
2011	31	1739	26	714	31	8151	30	5548	31	1546	13	149	0	0	0	0	0	0	0	0	0	0	0	0	162	17847	36.77	
2012	0	0	0	0	1	12	2	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	87	14.17	
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.98	
2014	0	0	1	307	3	649	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	62	6	1018	11.39	
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.09	
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.06	
2017	4	578	21	4482	27	1031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	6091	32.18	
2018	0	0	0	0	5	638	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	141	1	50	8	829	13.53	
2019	19	1751	26	8506	31	8122	30	1523	30	788	1	1	0	0	0	0	0	0	0	0	0	0	12	539	149	21230	32.62	
2020	0	0	0	0																								

**CASITAS MUNICIPAL WATER DISTRICT
MEMORANDUM**

TO: BOARD OF DIRECTORS
FROM: MICHAEL FLOOD, GENERAL MANAGER
SUBJECT: HYDROLOGIC STATUS REPORT FOR JUNE 2023
DATE: JULY 26, 2023

RECOMMENDATION:

This item is presented for information only and no action is required. Data are provisional and subject to revision.

DISCUSSION:

Rainfall Data

	Casitas Dam	Matilija Dam	Thacher School
This Month	0.14"	0.13"	0.82"
Water Year (WY: Oct 01 – Sep 30)	46.97"	64.26"	43.11"
Average station rainfall to date	22.76"	27.56"	20.91"

Ojai Water System Data

Wellfield production	121.76 AF
Surface water supplement	0.04 AF
Static depth to water surface – Mutual #6	13.0 feet
Change in static level from previous month	- 13.0 feet

Robles Fish Passage and Diversion Facility Diversion Data

Diversions this month	2,317.50 AF
Diversion days this month	30
Total Diversions WY to date	52,041.95 AF
Diversion days this WY	181

Casitas Reservoir Data

Water surface elevation as of end of month	541.80 feet AMSL
Water storage last month	175,926 AF
Water storage as of end of month	176,127 AF
Net change in storage	+ 201 AF
Change in storage from same month last year	+ 97,769 AF

AF = Acre-feet

AMSL = Above mean sea level

WY = Water year