KINNELOA IRRIGATION DISTRICT

Regular Meeting – Board of Directors 1999 Kinclair Drive, Pasadena, CA 91107 Tuesday, August 20, 2019 3:00 P.M.

AGENDA

- 1. **CALL TO ORDER** 3:00 P.M.
 - a. Declaration of a quorum
 - b. Review of agenda
- **2. PUBLIC COMMENT** Comments from the Public regarding items on the Agenda or other items within the jurisdiction of the District

In compliance with the Brown Act, the Board cannot discuss or act on items not on the Agenda. However, Board Members or District Staff may acknowledge Public comments, briefly respond to statements or questions posed by the Public, ask a question for clarification, or request Staff to place item on a future Agenda (Government Code section §54954.2)

3. REVIEW OF MINUTES – July 16, 2019 minutes

Recommended Action: Review and approve motion to file

4. REVIEW OF FINANCIAL REPORTS – July 31, 2019 financial reports

Recommended Action: Review and approve motion to file

- **5. GENERAL MANAGER'S REPORT** Information item presented by General Manager Recommended Action: General Manager to summarize the report and respond to questions
- **6. BUDGET FOR 2020** General Manager to present first draft of 2020 budget Recommended Action: General Manager to summarize the draft and respond to questions
- INFORMATION ITEM Demonstration of intelligent water usage sensor and leak detection device

Recommended Action: General Manager to respond to questions

- **8. DIRECTOR REPORTS AND/OR COMMENTS** In accordance with Government Code §54954.2 Directors may make brief announcements or brief reports on their own activities. Directors may ask a question for clarification, provide a reference to staff or other resources for information, request staff to report back to the Directors at a subsequent meeting, or act to direct staff to place a matter of business on a future agenda.
- 9. CALENDAR September 17, 2019 October 15, 2019 November 19, 2019

10. ADJOURNMENT

In compliance with the Americans with Disabilities Act, if you are a disabled person and need a disability-related modification or accommodation to participate in this meeting, please contact the District office 48 hours prior to the meeting at 626-797-6295. Each item on the agenda, no matter how described, shall be deemed to include any appropriate motion, whether to adopt a minute motion, resolution, payment of any bill, approval of any matter or action, or any other action. Material related to an item on this agenda submitted after distribution of the agenda packet is available for public review at the District office or online at the District's website https://kinneloairrigationdistrict.info.

KINNELOA IRRIGATION DISTRICT

Regular Meeting – Board of Directors 1999 Kinclair Drive, Pasadena, CA 91107 Tuesday, July 16, 2019 3:00 p.m. Minutes

DIRECTORS PRESENT: Tim Eldridge, Frank Griffith, Gerrie Kilburn, Bill Opel

DIRECTORS ABSENT: Gordon Johnson

STAFF PRESENT: General Manager Melvin Matthews, Sr. Facilities Operator Chris Burt,

Office Manager/Board Secretary Bernadette Allen

1. CALL TO ORDER: Secretary Tim Eldridge called the meeting to order at 3:00 p.m. A quorum of Board Members was present. The Agenda was reviewed and no changes were requested.

2. PUBLIC COMMENT: District resident Linda Szerdahelyi was present. No public comments.

3. REVIEW OF MINUTES: Director Griffith requested the following edits to the June 18, 2019, minutes: Item 4, edit to include the name following the title to read "Dr. Dave Moritz"; Item 5, edit the 6th sentence to end "...made more frequently and increased."; Item 3, 5th sentence correct the word "page" to "pages"; Item 3, 3rd line from the bottom of the page, add the meaning of the acronym PEPRA, to read "PEPRA (Public Employees' Pension Reform Act)". It was motioned/seconded/carried unanimously-(Griffith/Kilburn-4/0).

"That the Board approve the minutes as corrected for filing and posting on the website."

4. REVIEW OF FINANCIAL REPORTS: Director/Treasurer Bill Opel reviewed, out of order, Item 5.V.B Financial Statements and Independent Auditors' Report for the Years Ended December 31, 2018 and 2017. He highlighted the staff corrections made on audit report page 1 (Agenda Packet Item 5 – Page 9). He directed the Board's attention to page 10 (Agenda Packet Item 5 – page 18), and the similarity between the years 2017 and 2018 and he recommended that the Board read the Pension Plan Notes beginning on page 18 (Agenda Packet Item 5 – Page 26). Director Opel reviewed the June 30, 2019, financial reports. He highlighted revenue water sales which were right on budget for the month but still behind on revenue year to date. For Cash Flow, the net increase was nearly \$26,000 positive for the month which brought the District back into positive territory.

It was motioned/seconded/carried unanimously-(Kilburn/Griffith-4/0).

"That the Board approve the financial reports for filing as presented."

5. GENERAL MANAGER'S REPORT: The General Manager and Board reviewed the report. **II.C. 2020 Budget:** Preliminary budget will be presented at the August 20th meeting.

IV. Water Supply Summary: The final statistics for the Watermaster Year will be in the August General Manager's report. The strategy is to carry over as much water as allowed without losing the rights to it and to provide a cushion in the event of high demand combined with a low rainfall year.

V.A. Water Samples and Test Results: Director Opel asked if the sample results from the lab are a number or only the description <MCL. The Sr. Facilities Operator replied that the results

KINNELOA IRRIGATION DISTRICT

Regular Meeting – Board of Directors Tuesday, July 16, 2019 Minutes

are a number. Director Opel inquired if it is possible to determine a trend in nitrate levels. Director Eldridge asked if it possible to add the result numbers to the report. The General Manager said he will review the nitrate results and determine if it is possible to add result numbers to the report.

II.D. Activities/Meetings/Webinars/Conferences: Director Griffith asked about the MWD tour of the Regional Recycled Water Advanced Purification Center. The General Manager stated that the recycled water may be of benefit for the District as a source of aquifer recharge, which is the purpose of the Carson facility. Currently, pipelines are proposed up to the San Gabriel main basin.

<u>6. INFORMATION ITEM</u>: The General Manager stated that the memo in the packet was included as a result of the discussion on CalPERS at the June meeting. Director Opel asked the Board to turn to page 22 of the Financial Audit Report (Agenda Packet Item 5 – page 30) and restated that the auditor had said that CalPERS has never met its target return rate. He added that the proportionate pension liability is \$271,000 per year. The General Manager stated that the amount is not per year; it is the total liability. Director Opel asked if page 9 of the Audit Report (Agenda Packet Item 5 – page 17) includes the pension liability in the balance sheet. The General Manager said yes, it is listed as the net pension liability \$271,329 which is the same amount in the note on page 22 (Agenda Packet Item 5 – page 30). Director Eldridge asked if the liability is only for the District's employees. The General Manager stated the District is liable for the contract employees that retire from the District. Director Opel added that the District also shares in the pool obligations even if there are no past employees or additional employees. The General Manager concurred. The General Manager concluded with the statement that not everyone agrees that CalPERS is in peril and will fail. There are differences of opinion on CalPERS stability.

7. DIRECTOR REPORTS AND/OR COMMENTS: There were no reports and no comments.

8. CALENDAR: The next regular meeting will be at 3:00 p.m. on Tuesday, August 20, 2019.

10. ADJOURNMENT: The meeting was adjourned at 3:52 p.m.

Respectfully submitted by,
Bernadatte C. Allen

Bernadette C. Allen Board Secretary

Kinneloa Irrigation District Income Statement for the Seven Months Ending July 31, 2019

		Current Month Actual	Current Month Budget	Current Month Variance	Year to Date Actual	Year to Date Budget	Year to Date Variance
Reven		4 7 4 000 00	4 = 0 000 00	4 000 00	5 04 5 00 6 4	0.54.000.00	(50.4.54.54)
	Water Sales	151,009.89	150,000.00	1,009.89	791,738.26	861,000.00	(69,261.74)
	Wholesale Water Sales	0.00	0.00	0.00	27,003.03	0.00	27,003.03
4020		608.27	833.33	(225.06)	6,543.12	5,833.31	709.81
	Interest-Reserve Fund	3,634.56	1,250.00	2,384.56	29,766.39	8,750.00	21,016.39
4070	Misc. Income	0.00	0.00	0.00	5,969.27	0.00	5,969.27
	Total Revenues	155,252.72	152,083.33	3,169.39	861,020.07	875,583.31	(14,563.24)
Expen							
5005	Electricity	6,592.91	10,000.00	(3,407.09)	55,318.63	68,000.00	(12,681.37)
5010	Maintenance/Repair Supplies	2,860.62	2,083.33	777.29	24,644.88	14,583.31	10,061.57
5011	Material and Labor for Install	0.00	833.33	(833.33)	0.00	5,833.31	(5,833.31)
5012	Safety Equipment	191.57	133.33	58.24	1,494.48	933.31	561.17
5015	Operations Labor	17,113.08	16,533.33	579.75	110,826.83	115,733.31	(4,906.48)
5016	Operations OT	561.06	750.00	(188.94)	8,858.02	5,250.00	3,608.02
5020	Stand-by Compensation	930.00	912.50	17.50	6,030.00	6,387.50	(357.50)
5022	Training/Certification	90.00	133.33	(43.33)	230.00	933.31	(703.31)
5025	Water Treatment/Analysis	1,158.85	1,833.33	(674.48)	12,261.21	12,833.31	(572.10)
5030		14,273.18	10,416.67	3,856.51	95,980.42	72,916.69	23,063.73
5034	Equipment Maintenance	0.00	1,041.67	(1,041.67)	11,024.03	7,291.69	3,732.34
5035	Vehicle Maintenance	1,420.43	833.33	587.10	6,449.31	5,833.31	616.00
5036		863.85	1,250.00	(386.15)	8,829.98	8,750.00	79.98
5045	Insurance-Workers Compensatio	0.00	0.00	0.00	14,363.70	6,670.00	7,693.70
5046		1,211.17	1,333.33	(122.16)	8,478.19	9,333.31	(855.12)
5048	Insurance-Property	171.83	208.33	(36.50)	605.33	1,458.31	(852.98)
5049	1 .	7,374.80	6,375.00	999.80	47,202.74	44,625.00	2,577.74
6000	Engineering Services	0.00	3,958.33	(3,958.33)	10,911.50	27,708.31	(16,796.81)
	Watermaster Services	880.33	1,000.00	(119.67)	6,165.35	7,000.00	(834.65)
	Administrative Salary	11,489.02	12,333.33	(844.31)	80,423.14	86,333.31	(5,910.17)
6017	•	28.20	250.00	(221.80)	610.98	1,750.00	(1,139.02)
6020	Board Compensation	400.00	466.67	(66.67)	2,900.00	3,266.69	(366.69)
6021	Administrative & Board Expens	0.00	83.33	(83.33)	0.00	583.31	(583.31)
6024	Customer/Public Info. Prog.	33.07	166.67	(133.60)	33.07	1,166.69	(1,133.62)
6025	_	2,917.65	3,000.00	(82.35)	17,766.28	21,000.00	(3,233.72)
6030	Social Security - KID	2,403.82	2,416.67	(12.85)	15,614.79	16,916.69	(1,301.90)
6031	· ·	562.19	516.67	45.52	3,651.92	3,616.69	35.23
6035	Office/Computer Supplies	298.12	583.33	(285.21)	4,742.65	4,083.31	659.34
	Postage/Delivery	496.80	416.67	80.13	2,430.64	2,916.69	(486.05)
	Professional Dues	1,153.33	1,000.00	153.33	8,213.33	7,000.00	1,213.33
	Legal Services	0.00	1,250.00	(1,250.00)	5,633.97	8,750.00	(3,116.03)
	Telephone	361.42	375.00	(1,230.00)	2,533.36	2,625.00	(91.64)
6051	-	48.44 34.71	125.00 41.67	(76.56)	655.49 278.06	875.00	(219.51)
6052		59.99		(6.96)	278.06	291.69 583.31	(13.63)
	Internet Service		83.33	(23.34)	443.81	583.31	(139.50)
6059	Computer Software Maintenance	353.75	1,000.00	(646.25)	4,189.97	7,000.00	(2,810.03)

Kinneloa Irrigation District Income Statement for the Seven Months Ending July 31, 2019

6065 Accounting S 6070 Office & Acc	counting Labor /Contract Services ve Fees	Actual 0.00 0.00 9,219.50 2,021.39 795.83 1,994.64	Budget 83.33 0.00 8,045.83 2,333.33 750.00	Variance (83.33) 0.00 1,173.67 (311.94) 45.83	Actual 361.34 6,400.00 48,617.75 19,941.88	Budget 583.31 7,000.00 56,320.81 16,333.31	Variance (221.97) (600.00) (7,703.06) 3,608.57
6065 Accounting S 6070 Office & Acc 6075 Professional/	Services counting Labor /Contract Services ve Fees	0.00 9,219.50 2,021.39 795.83	0.00 8,045.83 2,333.33 750.00	0.00 1,173.67 (311.94)	6,400.00 48,617.75 19,941.88	7,000.00 56,320.81	(600.00) (7,703.06)
6070 Office & Acc 6075 Professional/	counting Labor /Contract Services ve Fees	9,219.50 2,021.39 795.83	8,045.83 2,333.33 750.00	1,173.67 (311.94)	48,617.75 19,941.88	56,320.81	(7,703.06)
6075 Professional/	Contract Services ve Fees	2,021.39 795.83	2,333.33 750.00	(311.94)	19,941.88	,	` '
	ve Fees	795.83	750.00	` /	,	16,333.31	2 600 57
6080 Administrati	.			45.83			3,008.37
		1,994.64		73.03	5,483.70	5,250.00	233.70
6081 Permits/Fees	3	-,	1,250.00	744.64	4,507.59	8,750.00	(4,242.41)
6086 Taxes - Sales		0.00	0.00	0.00	38.90	500.00	(461.10)
6088 Interest Expe	ense	0.00	0.00	0.00	33,914.74	33,915.00	(0.26)
6120 Bank Service		671.78	541.67	130.11	4,071.07	3,791.69	279.38
Total Expen	ases	91,037.33	96,741.64	(5,704.31)	703,133.03	723,276.48	(20,143.45)
Net Income		64,215.39	55,341.69	8,873.70	157,887.04	152,306.83	5,580.21
Other Expenditures							
1511 WaterTreatm	nent Plant	0.00	0.00	0.00	1,750.80	2,000.00	(249.20)
1514 Computer/Of	ffice Equipment	716.49	1,000.00	(283.51)	716.49	1,000.00	(283.51)
1527 SCADA Equ	ipment	0.00	0.00	0.00	42,260.42	51,000.00	(8,739.58)
2400 Installment P	Purchase Agreement	0.00	0.00	0.00	66,186.24	66,186.00	0.24
Total Other	Expenditures	716.49	1,000.00	(283.51)	110,913.95	120,186.00	(9,272.05)
Total Increa	ase or (Drawdown)	63,498.90	54,341.69	9,157.21	46,973.09	32,120.83	14,852.26

Kinneloa Irrigation District Balance Sheet as of July 31, 2019

ASSETS

Current Assets	ASSETS				
1010	Checking-Wells Fargo Bank	\$	263,409.76		
1012	Reserve Fund-LAIF	Ψ	124,854.33		
1014	Reserve Fund-CalTRUST		1,700,617.42		
1015	Unrealized Gain(Loss)-CalTRUST		(8,427.48)		
1016	Accrued Interest-LAIF		187.65		
1100	Accts. Receivable-Water Sales		39,420.01		
1113	Employee Loans		2,007.48		
1113	Allowance for Bad Debts		(771.48)		
1200			20,000.00		
	Inventory		,		
1340	Accrued Water Sales		152,554.49		
1350	Prepaid Insurance		2,698.97		
1360	Prepaid Expenses		29,120.64		
	Total Current Assets				2,325,671.79
Property and E	quipment				
1501	Water Rights		52,060.41		
1503	Land Sites		96,700.08		
1504	Water Mains		3,584,517.77		
1505	Water Tunnels		729,074.60		
1506	K-3 Well		89,543.06		
1507	Improvement District #1		602,778.12		
1508	Mountain Property		6,620.00		
1509	Wilcox Well/Wilcox Booster		94,030.98		
1510	Interconnections		14,203.27		
1511	WaterTreatment Plant		189,139.08		
1512	Water Meters		104,486.33		
1513	Electrical/Electronic Equip.		256,918.72		
1514	Computer/Office Equipment		75,922.12		
1515	Vehicles & Portable Equipment		242,548.91		
1516	Water Company Facilities		70,422.20		
1517	KID Office		54,741.36		
	Shaw Ranch				
1518			280,789.92		
1519	Dove Creek Project		487,383.87		
1520	Glen Reservoir/Booster		24,190.86		
1521	Kinneloa Ridge Project		690,492.58		
1522	Eucalyptus Booster Station		532,342.43		
1526	Vosburg Booster		1,647,215.66		
1527	SCADA Equipment		350,158.34		
1528	Tanks and Reservoirs		119,491.90		
1529	Holly Tanks		181,113.76		
1530	Tools		6,273.13		
1600	Accum. Depreciation		(4,926,201.76)		
	Total Property and Equipment				5,656,957.70
Other Assets					
1901	PERS-Deferred Outflows		99,141.00		
1701	Total Assets		77,111.00	\$	8,081,770.49
	10:01 / 10000			Ψ	

Kinneloa Irrigation District Balance Sheet as of July 31, 2019

LIABILITIES AND CAPITAL

Current Liabi	lities				
2000	Accounts Payable	\$	22,466.60		
2250	PERS Withholding-Employee (40.48)				
2272	Job Deposits		900.00		
2275	Deposits-Water Customers		255.02		
2290	Accrued Vacation	_	19,935.60		
	Total Current Liabilities				43,516.74
Long-Term Li	abilities				
2400	Installment Purchase Agreement		1,802,291.11		
2801	PERS- Net Liability		263,098.21		
2901	PERS- Deferred Inflows	_	36,648.00		
	Total Long-Term Liabilities				2,102,037.32
	Total Liabilities				2,145,554.06
Capital					
3040	Fund Balance		5,778,329.39		
3010	Net Income		157,887.04		
		-	·		
	Total Capital				5,936,216.43
	Total Liabilities & Capital			\$	8,081,770.49

Kinneloa Irrigation District Statement of Cash Flow For the Seven Months Ended July 31, 2019

Net Cash Provided by Operations 13,659.82 135,399.86	G 1			Current Month		Year to Date
Adjustments to reconcile net income to net cash provided by operating activities 1100	Cash					
Provided by operating activities 1100			\$	64,215.39	\$	157,887.04
1100						
1101 Accts. ReceivService Charges 0.00 263.84 1113 Employee Loans (2,007.48) (2,007.48) 1340 Accrued Water Sales (6,753.24) (17,892.21) 1350 Prepaid Insurance 1,383.00 7,021.51 1360 Prepaid Expenses (13,617.84) (7,675.82) 2000 Accounts Payable (23,862.36) (12,777.70) 2250 PERS Withholding-Employee (40.48) (40.48) Total Adjustments (50,555.57) (22,487.18) Net Cash Provided by Operations 13,659.82 135,399.86 Cash Flows from Investing Activities Used for 1511 WaterTreatment Plant 0.00 (1,750.80) 1514 Computer/Office Equipment (716.49) (716.49) 1527 SCADA Equipment 0.00 (42,265.68) Net Cash Used in Investing (716.49) (716.49) Cash Flows from Financing Activities Proceeds from Used for (716.49) (716.49) 2400 Installment Purchase Agreement 0.00 (66,186.24) 2801 PERS- Net Liability (1,436.25) (8,230.53) Net Cash Used in Financing (1,436.25) (74,416.77) Net Increase (Decrease) in Cash \$ 11,507.08 \$ 16,250.12 Summary Cash Balance at End of Period \$ 2,080,641.68 \$ 2,08				(<u>-</u>		
1113 Employee Loans (2,007.48) (2,007.48) (17.892.21) (17.89				\ · · /		
1340 Accrued Water Sales (6,753.24) (17,892.21) 1350 Prepaid Insurance 1,383.00 7,021.51 1360 Prepaid Expenses (13,617.84) (7,675.82) 2000 Accounts Payable (23,862.36) (12,777.70) 2250 PERS Withholding-Employee (40.48) (40.48) (40.48)						
1350						
1360						
2000 Accounts Payable (23,862.36) (12,777.70) 2250 PERS Withholding-Employee (40.48) (40.48) Total Adjustments (50,555.57) (22,487.18) Net Cash Provided by Operations 13,659.82 135,399.86 Cash Flows from Investing Activities Used for				·		
Total Adjustments						
Total Adjustments (50,555.57) (22,487.18) Net Cash Provided by Operations 13,659.82 135,399.86 Cash Flows from Investing Activities Used for 1511 WaterTreatment Plant 0.00 (1,750.80) 1514 Computer/Office Equipment (716.49) (716.49) 1527 SCADA Equipment 0.00 (42,265.68) Net Cash Used in Investing (716.49) (44,732.97) Cash Flows from Financing Activities Proceeds from Used for 2400 Installment Purchase Agreement 0.00 (66,186.24) 2801 PERS- Net Liability (1,436.25) (8,230.53) Net Cash Used in Financing (1,436.25) (74,416.77) Net Increase (Decrease) in Cash \$ 11,507.08 \$ 16,250.12 Summary Cash Balance at End of Period \$ 2,080,641.68 \$ 2,080,641.68 Cash Balance at Beg. of Period (2,069,134.60) (2,064,386.30)						
Net Cash Provided by Operations 13,659.82 135,399.86	2250	PERS Withholding-Employee	-	(40.48)		(40.48)
Cash Flows from Investing Activities Used for 1511 WaterTreatment Plant 0.00 (1,750.80) 1514 Computer/Office Equipment (716.49) (716.49) 1527 SCADA Equipment 0.00 (42,265.68) Net Cash Used in Investing (716.49) (44,732.97) Cash Flows from Financing Activities Proceeds from Used for 2400 Installment Purchase Agreement 0.00 (66,186.24) 2801 PERS- Net Liability (1,436.25) (8,230.53) Net Cash Used in Financing (1,436.25) (74,416.77) Net Increase (Decrease) in Cash \$ 11,507.08 \$ 16,250.12 Summary Cash Balance at End of Period \$ 2,080,641.68 \$ 2,080,641.68 Cash Balance at Beg. of Period (2,069,134.60) (2,064,386.30)		Total Adjustments		(50,555.57)		(22,487.18)
Used for 1511 WaterTreatment Plant 0.00 (1,750.80) 1514 Computer/Office Equipment (716.49) (716.49) 1527 SCADA Equipment 0.00 (42,265.68) Net Cash Used in Investing (716.49) (44,732.97) Cash Flows from Financing Activities Proceeds from Used for 0.00 (66,186.24) 2400 Installment Purchase Agreement 0.00 (66,186.24) 2801 PERS- Net Liability (1,436.25) (8,230.53) Net Cash Used in Financing (1,436.25) (74,416.77) Net Increase (Decrease) in Cash \$ 11,507.08 \$ 16,250.12 Summary Cash Balance at End of Period \$ 2,080,641.68 \$ 2,080,641.68 Cash Balance at End of Period (2,069,134.60) (2,064,386.30)		Net Cash Provided by Operations		13,659.82		135,399.86
Used for 1511 WaterTreatment Plant 0.00 (1,750.80) 1514 Computer/Office Equipment (716.49) (716.49) 1527 SCADA Equipment 0.00 (42,265.68) Net Cash Used in Investing (716.49) (44,732.97) Cash Flows from Financing Activities Proceeds from Used for 0.00 (66,186.24) 2400 Installment Purchase Agreement 0.00 (66,186.24) 2801 PERS- Net Liability (1,436.25) (8,230.53) Net Cash Used in Financing (1,436.25) (74,416.77) Net Increase (Decrease) in Cash \$ 11,507.08 \$ 16,250.12 Summary Cash Balance at End of Period \$ 2,080,641.68 \$ 2,080,641.68 Cash Balance at End of Period (2,069,134.60) (2,064,386.30)	C 1		-			
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		Net Increase (Decrease) in Cash	\$	11,507.08	\$	16,255.38

Kinneloa Irrigation District Check Register

For the Period from July 1, 2019 to July 31, 2019

Date	Check #	Payee	Amount Description	
7/8/19	EFT3945	CA Public Employees Ret. Sys.	4,807.57 CalPERS June KID & employee contribu	tions
7/8/19	EFT3946	Century Business Solutions	195.33 credit card processing fee	
7/8/19	9136	ACWA/JPIA	2,062.01 property insurance 2019-2020	
7/8/19	9137	ACWA/JPIA	4,812.74 workers' comp 04/01/19-06/30/19	
7/8/19	9142*	ACWA/JPIA	8,316.32 employee health benefits	
7/8/19	9143	Bernadette Allen	35.67 mileage reimbursement	
7/8/19	9144	AmeriPride Services	78.40 shop rag service	
7/8/19	9145	American Water Works Assoc.	433.00 membership dues 2019-2020	
7/8/19	9146	BrightView Landscape Services	1,490.00 landscaping	
7/8/19	9147	Joel Bundy	51.85 mileage reimbursement	
7/8/19	9148	Clinical Laboratory, SB	24.00 water sample analysis	
7/8/19	9149	Dig Safe Board	16.81 California state fee for regulatory costs	
7/8/19	9150	Egan & Egan	6,400.00 annual audit	
7/8/19	9151	Eurofins Eaton Analytical, Inc.	211.20 water sample analysis	
7/8/19	9152	Hill Brothers Chemical Co.	279.44 sodium hypochlorite	
7/8/19	9153	Matt Chlor Inc.	2,049.07 maintenance supplies & parts	
7/8/19	9154	Melvin L. Matthews	155.44 mileage reimbursement	
7/8/19	9155	Paul Roberts	360.00 septic tank service	
7/8/19	9156	Underground Service Alert	33.10 digalert	
7/8/19	9157	Utility Service Co., Inc.	4,877.18 tank maintenance agreement	
7/15/19	EFT3947	Bernadette C. Allen	1,536.78 salary	
7/15/19		Joel D. Bundy	1,522.43 salary	
7/15/19		Christopher A. Burt	2,843.65 salary	
7/15/19	EFT3950	Brian L. Fry	1,742.33 salary	
7/15/19	EFT3951	Melvin L. Matthews	3,712.24 salary	
7/15/19	EFT3952	Juan R. Tello	1,643.45 salary	
7/15/19	EFT3953	Christopher A. Burt	150.00 salary	
7/15/19	EFT3954	Automatic Data Processing, Inc.	5,577.69 payroll taxes and withholdings	
7/16/19	EFT3955	Automatic Data Processing, Inc.	97.02 payroll processing fees	
7/16/19		Arco Gaspro Plus	863.85 fuel for trucks	
7/16/19		CA Public Employees Ret. Sys.	17,235.00 annual unfunded accrued liability prepays	nent
7/16/19		Century Business Solutions	15.00 banking service fee	
7/16/19	EFT3959	Pasadena Municipal Services	1,528.44 electricity for Wilcox Well	
7/16/19	EFT3960	Southern California Edison Co.	11,751.96 electricity Apr 1 site, May 5 sites, Jun 10	sites
7/16/19	EFT3961	Charter Communications	346.69 phone and internet	
7/16/19	EFT3962	VeriCheck, Inc.	61.48 echeck processing fee	
7/16/19	9158	Aqua Video Engineering	8,250.00 clean and inspect reservoirs Eucalyptus, V	Vilcox
7/16/19	9159	Calif. Utility Emergency Assoc.	500.00 CUEA annual membership dues	
7/16/19	9160	Eurofins Eaton Analytical, Inc.	132.00 water sample analysis	
7/16/19	9161	Foothill Municipal Water District	795.83 administrative fee	
7/16/19	9162	Lagerlof, Senecal, Gosney & Kruse	877.00 general matters	

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Kinneloa Irrigation District Check Register

For the Period from July 1, 2019 to July 31, 2019

Date	Check #	Payee	Amount	Description
7/16/19	9163	McMaster Carr	638.40	cooling fan filters and maintenance supplies
7/16/19	9164	SWRCB-DWOCP	90.00	distribution operator certification renewal
7/31/19	EFT3963	Automatic Data Processing, Inc.	87.58	payroll processing fees
7/31/19	EFT3964	American Messaging Services	34.71	pager service
7/31/19	EFT3965	AT&T Mobility	2,982.80	mobile phone service
7/31/19	EFT3966	Athens Services	215.69	trash pickup
7/31/19	EFT3967	Umpqua Bank	5,387.48	credit card - see attached detail
7/31/19	EFT3968	VOID		EFT3967 descriptions overprinted check
7/31/19	9165	AmeriPride Services	78.40	shop rag service
7/31/19	9166	South Coast AQMD	421.02	annual renewal fees Wilcox Resv
7/31/19	9167	South Coast AQMD	421.02	annual renewal fees Eucalyptus Resv
7/31/19	9168	South Coast AQMD	136.40	emissions fees Wilcox Resv
7/31/19	9169	South Coast AQMD	136.40	emissions fees Eucalyptus Resv
7/31/19	9170	Clinical Laboratory, SB	24.00	water sample analysis
7/31/19	9171	LA County Auditor-Controller	569.49	LAFCO fees
7/31/19	9172	Eurofins Eaton Analytical, Inc.	105.60	water sample analysis
7/31/19	9173	McMaster Carr	1,334.21	maintenance supplies & parts
7/31/19	9174	One Call Now	33.07	customer notification service
7/31/19	9175	Ultimate Cleaning Solutions, Inc.	75.00	janitorial services
7/31/19	EFT3969	Bernadette C. Allen	1,658.63	salary
7/31/19	EFT3970	Joel D. Bundy	1,628.62	salary
7/31/19	EFT3971	Christopher A. Burt	2,725.96	salary
7/31/19	EFT3972	Timothy J. Eldridge	92.35	salary
7/31/19		Brian L. Fry	2,134.57	salary
7/31/19	EFT3974	Francis J. Griffith		salary
7/31/19	EFT3975			salary
7/31/19	EFT3976	Melvin L. Matthews	3,851.79	salary
7/31/19	EFT3977	Arthur W. Opel	92.35	salary
7/31/19	EFT3978	Juan R. Tello	1,719.31	salary
7/31/19	EFT3979	Christopher A. Burt	150.00	·
7/31/19	EFT3980	Automatic Data Processing, Inc.	6,053.74	payroll taxes and withholdings
	Total	_	130,935.26	

^{*} Gap in check sequence, checks 9138-9141 damaged during printing.

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Credit Card Detail Umpqua Bank June 2019

(Expenses incurred/billed in June and due/paid in July)

Acct.	Account Description	Additional Description	MLM	CAB	BLF	JDB	BCA	JRT	TOTAL
1514	Computer/Office Equip.								\$0.00
5010		AC fan/filters, light bulbs; Ni 125, coverall, gloves; Interstate battery; flashlight multi-tool, handsaw, hedge shear, lopper, landscape tools	,	\$436.00	\$141.37		\$149.42	\$248.20	\$974.99
5012	Safety Equipment	cortisone cream; high visibility KID caps			\$10.46	\$52.84			\$63.30
5022	Training/Certification								\$0.00
5025	Water Treatment/Analysis	Cl2 test kits; salt pellets			\$293.32			\$43.75	\$337.07
5035	Vehicle Maintenance	'08-2 oil change/tire rotation/AC repair			\$1,553.16				\$1,553.16
5036	Fuel								\$0.00
6017	Adm. Travel								\$0.00
6021	Adm. & Bd. Exp.								\$0.00
6035	Office/Computer Supplies	toner cartridges; pens refund; paper goods, notebooks, Staples membership, Amazon prime, KID caps; staff business cards		-\$13.10		\$278.45	\$136.82		\$1,222.72
6036	Postage/Delivery	stamps				\$330.00			\$330.00
6040	Professional Dues								\$0.00
6050	Telephone	answering service	\$75.00						\$75.00
6051	Mobile Phone								\$0.00
6053	Internet Service								\$0.00
6059	Computer/Software Maint.	Sage software renewal, 8TB external hard drive	\$831.24						\$831.24
6061	Office Equipment Maint.								\$0.00
6075	Outside Services								\$0.00
6081	Permits/Fees								\$0.00
TOTAL			\$1,726.79	\$422.90	\$1,998.31	\$661.29	\$286.24	\$291.95	\$5,387.48

General Manager's Report for the Board of Directors Meeting on August 20, 2019

I. Customer Account Information and Internet Usage

A. Delinquent Accounts -

- 25 accounts received past-due notice
- 25 accounts received late charges in the total amount of \$428.47
- 11 accounts received door hanger shut off notice
- 0 account was shut off for non-payment
- 0 account remain shut off for non-payment

B. Aged Receivables -

Month	Current	30 days	60 days	90 days or greater	Total
January	\$19,576.69	\$3,491.39	\$0.00	\$0.00	\$23,068.08
February	\$32,588.72	\$4,502.38	\$381.98	\$0.00	\$37,473.08
March	\$18,623.41	\$2,023.53	\$64.12	\$59.92	\$20,770.98
April	\$35,258.88	\$1,661.07	\$247.83	\$124.04	\$37,291.82
May	\$29,629.02	\$1,897.19	\$98.82	\$216.54	\$31,841.57
June	\$30,403.95	\$3,358.89	\$0.00	\$0.00	\$33,762.84
July	\$36,644.36	\$2,775.65	\$0.00	\$0.00	\$39,420.01
August					
September					
October					
November					
December					

C. Internet Usage -

Month	Users	Page Views	Online Payments	Online Amount
January	227	657	76	\$19,881.25
February	171	414	58	\$10,629.13
March	226	457	77	\$12,350.13
April	196	483	61	\$9,696.11
May	223	517	66	\$14,734.69
June	231	465	64	\$12,255.22
July	183	397	71	\$17,881.28
August				
September				
October				
November				
December				
Year to Date	1,457	3,390	473	\$97,427.81

II. General Manager's Projects and Activities

- **A.** Water Main Improvement Projects The kickoff meeting for the Brown/Glen replacement pipeline was held and the design work has started.
- B. 2020 Budget Budget documents were prepared, and the first draft is being presented at this meeting.
- C. Truck Replacement I am working on specifications for the two replacement pickup trucks
- **D.** Website Redesign I am exploring various alternatives to update the design and ensure compliance with the new Accessibility/ADA legislation going into effect on January 1, 2020.
- **E.** Annual Report I am working on my annual report for the Watermaster year 2018-2019.
- F. Activities/Meetings/Webinars/Conferences

Subject or Organization	Location	Start	End	Purpose/Notes/Action/Benefit
Staff Meetings	Office	Mondays 9:00 AM	Mondays 10:00 AM	 Tasks for the week Projects current and future Operations update Customer service update Operations update GM update Safety topic
FMWD	La Cañada	Mon 7/11/2019 3:30 PM	Mon 7/11/2019 4:00 PM	Finance Committee Meeting2019-2020 Budget
ACWA JPIA	KID Facilities	Tue 7/16/2019 9:00 AM	Tue 7/16/2019 12:00 PM	 Annual risk control Inspection Review of claims Review of policies Review of continuing education
KID	Office	Tue 7/16/2019 3:00 PM	Tue 7/16/2019 5:00 PM	Regular board meeting
RBMB	Azusa	Wed 7/17/2019 2:30 PM	Wed 7/17/2019 4:00 PM	 Quarterly board meeting Pasadena subarea pumping plan was approved
Civiltec Engineering	Kid Office	Thu 7/29/2019 10:00 AM	Thu 7/29/2019 12:00 PM	 Kickoff meeting for design of Brown/Glen Replacement Pipeline

III. System and Facility Activities and Incident Reports

A. Water Leak/Water Waste/Water Quality/Customer Contact

Location	Туре	Date	Description
Glen Springs	Water Leak	7/1/2019 and 7/9/2019	Bernadette noticed water continuously on the KID driveway. Customer was out of town. Brian confirmed that the meter was turning. Customer notified gardener to check for leaks. Gardener found a leak and requested that we turn off the
			water to facilitate a repair.

121	6 . 6	7/2/2040	
Kinneloa	Customer Contact	7/2/2019	Customer called to say that there was no water in
Mesa Road			the house. It was determined that workers had shut
			off the water and did not turn it back on.
Kinneloa	Water Leak	7/10/2019	Director Kilburn requested that we contact High
Mesa Road			Point Academy to follow up on the leak on irrigation
			water meter along the walking path. The director of
			finance indicated that a plumber had been
			scheduled to repair the leak.
Pasadena	Water Leak	7/11/2019	Customer requested leak check. Small leak observed
Glen Road		and	with all water shut off. Customer repaired leak and
		7/25/2019	request a re-check. No leak observed.
Meyerloa	Water Leak	7/12/2019	The leak in driveway was confirmed by Juan. Leak is
Lane		, , , , ,	only 2.1 gallons per day. It is the customer's
			responsibility to repair.
Villa Heights	Customer Contact	7/12/2019	Customer requested reread of two meters after
and Kinneloa		' '	receiving water billing statements. Meter readings
Ranch Road			were correct. Joel provided customer with water
			usage graphs to show that current usage was
			comparable to past usage.
Villa Knolls	Customer Contact	7/16/2019	Customer had faulty pressure regulator replaced
Drive		., =0, =0=0	and wanted to know our pumping schedule so that
			the new regulator could be tested for proper
			operation.
Kinclair Drive	Water Leak	7/23/2019	This is a continuing problem that has not been
	Tracer Leak	,,23,2013	solved despite our troubleshooting
			recommendations to the customer.
			recommendations to the customer.

B. Current and Completed Capital Improvement, Facilities Improvement, Maintenance and Repair Projects and Activities

- 1. Routine daily and monthly activities
 - a. Operator training
 - b. Meter and transmitter maintenance and replacement
 - c. Water samples
 - d. Vehicle and equipment maintenance and testing
 - e. Facility cleanup
 - f. Production meter readings
 - g. Chlorine generator maintenance
 - h. Meter reading
 - i. Customer service calls
 - j. Responding to Underground Service Alerts (USA's) to mark our pipelines
- 2. Facility and Equipment Repair and Maintenance for July
 - a. Repair leak in service lines on Vosburg Street
 - b. Repair leak in Vosburg chlorination equipment
 - c. Brush clearance at Office
 - d. K-3 vault fan motor replaced with temporary spare until new motor ordered
 - e. Repair fuel leak on Vosburg backup generator
- 3. Completed Projects
 - a. Inspection and cleanout of Eucalyptus and Wilcox Reservoirs
 - b. Repair leaks in Brown Reservoir
 - c. Replace 17 obsolete SCADA radios at all sites and install radio diagnostic program
 - d. Replace Glen Reservoir chlorination equipment

C. Future Capital Improvement Projects, Facilities Improvement, Maintenance and Repair Projects

- 1. Install additional shelving, add anti-slip covers to stairs and other safety items at Vosburg Warehouse
- 2. Replace chlorination equipment at Eucalyptus Reservoir
- 3. Install solar panel, battery and charger for utility power backup at Transfer Valve
- 4. Remove, replace and widen Office driveway and expand parking area
- 5. Replace 1996 Chevrolet and 1999 Ford pickups with new pickups and accessory equipment
- 6. Replace 50 hp booster (motor and pump) and sandblast and paint pump stand at Wilcox Reservoir
- 7. Test Advanced Water Meter Analytics (Hardware/software for cellular data collection test)
- 8. Sierra Madre Villa and Villa Heights Pipeline Improvement Project (Design phase)
- 9. Brown/Glen Pipeline Improvement Project (Design phase)

IV. Water Supply Summary as of June for the Watermaster Year July 2018 through June 2019

Raymond Basin Groundwater (Acre Feet)		Kinneloa Irrigation District Water Tunnels (Acre Feet)		
Water Rights	516	Eucalyptus	4	
Prior Year Carryover	52	Far Mesa	3	
Less Temporary 30% Reduction in Water Rights	-155	Delores	3	
Leases/Exchanges	207	House	0	
Prior Year Spreading	65	Holly High/Low	6	
Short Term Storage	145			
Current Year Spreading	0			
Total Allowable Extractions	830			
Less Water Extracted YTD This Watermaster Year	-650	Current Tunnel Monthly Production	16	
Remaining Allowable Groundwater Extractions through June 2019	180	Remaining Estimated Tunnel Production through June 2019	16	
Total Available Water Supply (Remaining Allowable Ground + Remaining Estimated Tunne Production through June 2019	l))	196 Ac	re Feet	
Less Remaining Forecasted Re Water Sales through June 201		-51 Acre Feet		

Surplus Water through June 2019*

145 Acre Feet

V. Information Items

- A. Water Samples and Test Results See Attachment A
- B. Nitrate Results from January 2016 through April 2019 Present See Attachment B

^{*} This is the forecasted surplus water available for sale in the current year and/or carryover to the next Watermaster year which starts on July 1 subject to the carryover limits established by the Raymond Basin Management Board. Regarding the available surplus water, we will generally maximize the carryover to the next year and deliver the balance of the forecasted surplus water (if any) to the City of Pasadena. In the 2017-2018 year, 87 Acre-Feet were sold to the City, 52 Acre-Feet were carried over to 2018-2019 and 145 Acre-Feet were put into our short-term storage account. Although we may lease additional pumping rights from another agency with surplus pumping rights, this is not considered a guaranteed source of supply since it is subject to negotiation. In addition to the available water, the KID has 790 Acre Feet in a long-term storage account. Additions to long-term storage are no longer permitted but withdrawals can be made at any time to supplement allowable extractions. However, since long-term storage is considered by KID staff to be an emergency supply, we do not plan to use or sell this water now.

Attachment A Water Samples and Test Results

Sample	Source or			# of		Maximum Contaminant
Date	Distribution	Lab	Description	tests	Results**	Level* (MCL)
01/04/19	Source	Weck	Title 22 DEHP	5	ND or A	4 ppb
01/04/19	Source	Weck	Title 22 nitrate	2	4.4 ppm	10 ppm
01/04/19	Source	Weck	Title 22 fluoride	5	1.1 - 2.7 ppm	3 ppm
01/08/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units
01/08/19	Distribution	Clinical	fluoride	6	1.0 - 1.4 ppm	3 ppm
01/08/19	Both	Eurofins	coliform, e. coli	72	ND or A	1 positive sample
01/22/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
01/22/19	Source	Eurofins	coliform, e. coli	8	ND or A	1 positive sample
02/04/19	Source	Weck	Title 22 VOC	67	ND or A	1 positive sample
02/04/19	Source	Weck	Title 22 1,2,3 TCP	1	ND or A	0.005ppb
02/04/19	Source	Weck	Title 22 DEHP	1	ND or A	4ppb
02/04/19	Source	Weck	Title 22 nitrate	1	2.7ppm	10ppm
02/04/19	Source	Weck	Title 22 fluoride	1	2.3ppm	2ppm
02/04/19	Source	Weck	Title 22 Uranium	1	2.7pCi/L	20pCi/L
02/06/19	Both	Eurofins	coliform, e. coli	72	ND or A	1 positive sample
02/06/19	Both	Eurofins	coliform, e. coli	8	ND or A	1 positive sample
02/07/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units
02/07/19	Both	Eurofins	coliform, e. coli	8	ND or A	1 positive sample
02/07/19	Both	Eurofins	coliform, e. coli	8	ND or A	1 positive sample
02/19/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
03/04/19	Both	Eurofins	coliform, e. coli	80	ND or A	1 positive sample
03/05/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units
03/06/19	Both	Eurofins	coliform, e. coli	16	ND or A	1 positive sample
03/07/19	Both	Eurofins	coliform, e. coli	16	ND or A	1 positive sample
03/19/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
04/02/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units
04/02/19	Distribution	Clinical	fluoride	6	1.2 - 1.6 ppm	3 ppm
04/02/19	Both	Eurofins	coliform, e. coli	80	ND or A	1 positive sample
04/04/19	Source	Weck	Title 22 fluoride	3	1.1 - 2.6 ppm	3 ppm
04/04/19	Source	Weck	Title 22 nitrate	2	0.8 - 4.4 ppm	10 ppm
04/04/19	Source	Weck	Title 22 1,2,3 TCP	4	ND	80 ppb
04/15/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
05/08/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units
05/08/19	Both	Eurofins	coliform, e. coli	80	ND or A	1 positive sample
05/08/19	Distribution	Eurofins	coliform, e. coli	16	ND or A	1 positive sample
05/09/19	Distribution	Eurofins	coliform, e. coli	16	ND or A	1 positive sample
05/21/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
06/04/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units
06/04/19	Both	Eurofins	coliform, e. coli	80	ND or A	1 positive sample
06/18/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
07/08/19	Distribution	Clinical	color, odor, turbidity*	18	<mcl< td=""><td>15 units, 3 units, 5 units</td></mcl<>	15 units, 3 units, 5 units

Attachment A Water Samples and Test Results

Sample	Source or			# of		Maximum Contaminant
Date	Distribution	Lab	Description	tests	Results**	Level* (MCL)
07/08/19	Both	Eurofins	coliform, e. coli	80	ND or A	1 positive sample
07/23/19	Both	Eurofins	coliform, e. coli	64	ND or A	1 positive sample
07/25/19	Residences	Clinical	lead & copper***	20	ND-100ppb,ND-1.4ppm	15 ppb, 1.3 ppm

Total samples to date: 1339

^{*} Color, odor, and turbidity are regulated by a secondary standard to maintain aesthetic qualities.

^{**} ppm = parts-per-million, ppb = parts-per-billion, pCi/L = picocuries per liter, <MCL = less than Maximum Contaminant Level, ND = not detected, A = Absence

^{***} In July 2019, 10 residences were tested for lead and copper at the tap. Copper was detected in 7 samples. lead was detected in 2 samples. The 90th percentile values for the District were below the lead action level of 15 ppb and below the copper action level of 1.3 ppm. One residence exceeded both the lead and copper action level and is being retested.





Memo

Date: August 12, 2019

To: Board of Directors

From: Mel Matthews, General Manager

Subject: Proposed 2020 Budget

Attached for your review are three documents to aid in our discussion of the proposed 2020 budget:

- 10-year Actual and Forecasted Income and Expenses
- 2020 Budget Worksheet
- Proposed 2020 Budget

The **10-year Actual and Forecasted Income and Expense** document shows the actual income and expenses for the past five years and the forecasted income and expenses for the next five years including the proposed budget for 2020.

The **2020 Budget Worksheet** provides a comparison of the 2019 budget, the 2019 yearend forecast and the proposed 2020 budget with explanatory notes.

The **Proposed 2020 Budget** provides a summary of the budget, a breakdown of the revenues, expenses, capital expenditures and the reserve balances as well as a rate history. This becomes the official budget of the District when approved and when the proposed water rates or modified rates are approved after the public hearing.

Revenue

The projected 2020 revenue is based on the current rates which were effective on January 1, 2019, the forecasted water sales for 2019 and a proposed 3% rate increase effective on January 1, 2020. This recommended increase is necessary primarily due to the increase in general operating and administrative expenses and general inflationary increases in most expenses including construction costs. If conservation by our customers and/or weather conditions reduces water sales in 2020, we would have water available for sale to Pasadena. Therefore, I have included \$90,000 in the wholesale water sales in the budget for 2020. If customer demand increases over my projection, the revenue generated by our customers will make up for any revenue shortfall in wholesale water sales.

Expenses

The proposed 2020 expenses are mostly the same as those approved for the 2019 budget. The difference (if any) and an explanation is provided on expenses that are changed from the 2019 budget. The proposed expenses will be refined for the September meeting when we have one more month of actual expenses.

The proposed improvement and maintenance expenditures for 2020 include \$500,000 for the construction of pipeline projects. However, the engineering of the two major projects will not be completed until later in the year and bidding to determine actual costs will be in the later portion on the 1st quarter of 2020. So, consider this expense to be an estimate based on prior projects. As in past years, some projects can be deferred if necessary to maintain the desired net cash flow and all projects will be evaluated and prioritized as the year progresses. Additional projects may be presented during the year for approval if the actual cash flow exceeds the budgeted amount.

The current recommendation is to not use financing for any additional projects. However, to maintain our reserve funds at current levels and accomplish the capital and preventative maintenance projects, it will be necessary to increase rates about 3% a year to maintain our reserve fund and cover our existing debt service payments. I used a 2.5% annual increase in most expense categories in the **10-year Actual and Forecasted Income and Expense** document. This is consistent with the average annual inflation rate as measured by the Consumer Price Index in our area over the past few years.

10-Year Actual and Forecasted Income and Expenses

Mater Sales	ar Total 5-Year Average	10-Year Tota	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Forecast	2020 Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	nt Account Description	Account
Service-Installation Charges 11,255 10,977 10,079 10,000 10,000 10,100 10,000 12,000	141,799 1,436,839	3 15,141,799	1,220,253	1,426,516	1,521,355	1,579,233	1,430,738	1,500,000	1,545,000	1,591,350	1,639,091	1,688,263	Water Sales	4000
Hard S InterseReseve Parall 33,765 33,725 31,827 30,900 30,0	813,080 63,867	7 813,080	6,947	68,126	88,347	92,049	112,003	90,000	85,000	87,550	90,177	92,882	Wholesale Water Sales	4015
https://docs.org/10.1006/10	153,775 22,493	3 153,775	21,023	22,542	26,959	19,449	10,710	10,000	10,300	10,609	10,927	11,255	Service/Installation Charges	4020
Applied Capacing Charge 0 0 0 0 0 0 0 0 0	11,675 2,669	11,675	C	10,675	0	0	0	0	1,000	0	0	0	Asset Sale	4025
	242,707 11,854	242,707	9,049	12,108	13,010	13,250	36,016	30,000	30,900	31,827	32,782	33,765	Interest-Reserve Fund	4035
Total Income	0) (C	0		0	0	0	0	0	0	0	Capacity Charge	4050
	23,627 4,414	3 23,627	1,648	1,222	3,943	10,845	5,969	0	0	0	0	0	Misc. Income	4070
Solid Electricity 120,000 120,000 120,000 120,000 120,000 132,109 127,199 127,199 122,814 110,322 108,380 1,185,993 1,000 1,00	386,664 1,542,137	16,386,664	1,258,920	1,541,189	1,653,613	1,714,826	1,595,437	1,630,000	1,672,200	1,721,336	1,772,976	1,826,165	Total Income	
Maintenance Supplies 27,395 26,922 26,266 25,025 25,000 34,067 33,425 28,159 24,710 29,074 283,839 301 Maintenance Individual Action From Health 11,038 10,760 10,506 10,000 41,67 14,81 10,703 8,281 0 77,195 10,505 10,000 41,67 14,81 10,703 8,281 0 77,195 10,505 10,505 10,505 10,506 1	315,675 47,351	315,675	63,135	63,135	0	63,135	63,135	63,135	0	0	0	0	Leased Water Rights	5000
Solid Material and Labor for Install 11,038 10,769 10,506 10,250 10,000 4,167 1,481 10,703 8,281 0 77,195	185,993 117,169	1,185,993	108,380	110,282	122,814	127,199	112,319	125,000	120,000	120,000	120,000	120,000	Electricity	5005
Solid Commission Solid	283,839 29,342	283,839	29,074	24,710	28,159	35,425	35,062	25,000	25,625	26,266	26,922	27,595	Maintenance Supplies	5010
Solid Operations & Maintenance Labor 227,827 222,270 216,849 211,560 206,440 193,494 168,869 133,728 142,253 139,218 1,862,487		77,195	C	8,281	10,703		4,167	10,000	10,250	10,506	10,769	11,038	Material and Labor for Install	5011
Solid Contactions & Maintenance OT 14,901 14,538 14,183 13,338 13,590 12,608 8,123 22,983 34,413 30,344 179,932 10,975 10,975 10,975 10,975 10,980	13,614 763	5 13,614	476	1,753	452	362	2,161	1,600	1,640	1,681	1,723	1,766	Safety Equipment	5012
Section Comparison Compar			· · · · · · · · · · · · · · · · · · ·	,		,			211,560	216,849	· · · · · · · · · · · · · · · · · · ·		1	
Source Stand-by Compensation 10.950 10.950 10.950 10.950 10.950 10.950 10.950 7.350 7.410 7.170 7.200 94.503 7.502 7.701 7.702 7.7			30,844	34,413	22,983	8,123	12,608	13,500	13,838	14,183	14,538	14,901	Operations & Maintenance OT	
Force Praining/Certification 1,766 1,723 1,681 1,640 1,600 897 850 725 470 0 11,332				0	0	0	0	0	0	0	0	0	1	
Section Proceedings Section Process			7,200										• •	
Postage Maintenance Contractors 143.496 139.996 136.581 133.250 130.000 148.064 114.816 129.294 102.259 82.752 1.260.507			C								· · · · · · · · · · · · · · · · · · ·		<u> </u>	
Food Equipment Maintenance 16.557 16.153 15.759 15.375 15.000 16.232 9.002 10.140 7.101 9.632 130.952 15.355 Vehicle Maintenance 16.557 16.153 15.759 15.375 15.000 10.616 8.219 5.040 6.644 5.170 114.534 14.534				· · ·	· · · · · · · · · · · · · · · · · · ·				· ·				·	
Solid Vehicle Maintenance 16,557 16,153 15,759 15,375 15,000 10,616 8,219 5,040 6,644 5,170 114,534 5,036 Fuel - All Equipment 16,557 16,153 15,759 15,375 15,000 15,080 11,712 7,849 7,862 9,263 33,0610 7,862 9,263 33,0610 7,862 9,263 33,0610 7,862 9,263 33,0610 7,862 9,263 33,0610 7,862 7,862 9,263 33,0610 7,861 7,862 9,263 33,0610 7,861 7,862 9,263 33,0610 7,861 7,862 7,862 9,263 33,0610 7,861 7,861 7,861 7,250 7,861 7,250 7,861 7,250 7,861 7,250 7,861 7,261	· · · · · · · · · · · · · · · · · · ·		· · ·	·		,						·		
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Source Company Source			,	,	,	,								
Sold Insurance-Workers Comp. 22,076 21,538 21,013 20,500 20,000 19,694 14,300 9,434 10,710 11,090 170,355 5046 Insurance-Liability 17,661 17,230 16,810 16,400 16,000 14,534 14,285 14,264 14,151 14,155 155,490 15,490 18,490 18,490 18,490 19,687 95,305 92,980 90,713 88,500 84,077 77,370 68,322 74,938 74,632 844,524 6000 Engineering Services 52,431 51,152 49,905 48,688 47,500 30,703 4,770 10,955 24,456 41,981 362,540 40,490			9,263	7,862	7,849	11,712								
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6045 Legal 16,557 16,153 15,759 15,375 15,000 11,884 8,425 2,205 11,573 9,775 122,707				· · ·	· · · · · · · · · · · · · · · · · · ·		· ·					·		
6050 Telephone 4,967 4,846 4,728 4,613 4,500 4,408 4,276 3,995 4,132 4,273 44,737	· ·		·	·	· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·				·			
6051 Mobile Telephone 1,656 1,615 1,576 1,538 1,500 1,280 920 804 456 567 11,911	·			·	·						·	·	1	

10-Year Actual and Forecasted Income and Expenses

Account	Account Description	2024 Forecast	2023 Forecast	2022 Forecast	2021 Forecast	2020 Budget	2019 Forecast	2018 Actual	2017 Actual	2016 Actual	2015 Actual	10-Year Total	5-Year Average
6052	Pagers	552	538	525	513	500	486	340	431	336	267	4,489	344
6053	Internet Service	1,104	1,077	1,051	1,025	1,000	744	1,205	1,006	720	720	9,651	913
6059	Computer/Software Maintenance	13,246	12,923	12,608	12,300	12,000	9,190	14,832	5,544	6,933	7,008	106,583	8,579
6061	Office Equipment Maintenance	1,104	1,077	1,051	1,025	1,000	778	0	129	256	619	7,038	251
6065	Accounting Services	7,727	7,538	7,354	7,175	7,000	6,400	6,750	6,750	8,550	6,200	71,444	7,063
6070	Office & Accounting Labor	120,868	117,920	115,043	112,238	109,500	88,847	93,934	61,425	85,794	87,162	992,730	82,079
6071	Office & Accounting Bonus	0	0	0	0	0	0	0	0	0	1,275	1,275	319
6075	Professional/Contract Services	30,907	30,153	29,418	28,700	28,000	31,609	28,996	27,980	23,349	20,650	279,761	25,244
6080	Capital and Administrative Fee	9,934	9,692	9,456	9,225	9,000	9,234	8,470	8,109	8,368	8,705	90,193	8,413
6081	Permits/Fees	16,557	16,153	15,759	15,375	15,000	10,758	7,308	7,333	14,318	12,112	130,673	10,268
6086	Taxes - Sales	552	538	525	513	500	39	84	276	352	342	3,721	264
6088	Interest Expense	40,306	45,955	52,006	56,664	61,735	66,628	71,290	75,916	80,233	41,745	592,477	67,296
6120	Bank Service Charges	7,175	7,000	6,829	6,663	6,500	6,779	6,546	6,646	6,136	5,002	65,276	6,083
	Total Expenses	1,411,414	1,375,062	1,364,831	1,328,909	1,387,250	1,307,288	1,181,111	1,233,830	1,135,430	1,073,907	12,799,032	1,156,070
	NET REVENUES	414,752	397,914	356,505	343,291	242,750	288,148	533,715	419,783	405,759	185,014	3,587,632	386,068
	Capital and Planned Maintenanc	e Expenditures											
1504	Water Mains	20,000	100,000	20,000	20,000	500,000	0	0	1,099,600	0	21,496	1,781,096	280,274
1505	Water Tunnels	0	0	0	0	10,000	0	0	23,089	0	0	33,089	5,772
1506	K-3 Well	50,000	0	0	0	0	0	0	6,695	0	0	56,695	1,674
1509	Wilcox Well/Wilcox Booster	0	0	0	0	52,000	0	0		0	0	52,000	0
1511	Water Treatment Plant	1,000	1,000	1,000	1,000	6,000	5,751	1,990	0	0	0	17,741	498
1512	Water Meters	5,000	5,000	5,000	5,000	9,000	9,000	16,158	5,509	1,461	0	61,128	5,782
1513	Electrical/Electronic Equipment	5,000	5,000	5,000	5,000	5,000	5,000	0	0	0	0	30,000	0
1514	Computer/Office Equipment	5,000	5,000	5,000	5,000	5,000	4,716	8,035	3,629	1,652	1,652	44,684	3,742
1515	Vehicles & Portable Equipment	40,000	0	40000	0	90,000	0	0	0	20,465	0	190,465	5,116
1516	Water Company Facilities	10,000	10,000	10,000	10,000	30,000	20,000	0	0	0	4,671	94,671	1,168
1517	KID Office							538					
1522	Eucalyptus Booster	0	0	0	0	0	0	0	0	0	0	0	0
1523	Construction in Progress - Vosburg	0	0	0	0	0	0	0	-1,555,035	317,049	1,237,986	0	0
1524	Construction in Progress - East/We	0	0	0	0	0	0	0	-713,677	698,128	15,549	0	0
1526	Vosburg Booster	0	0	0	0	0	0	0	1,555,035	0	0	1,555,035	388,759
1527	SCADA	10,000	10,000	10,000	40,000	10,000	42,260	29,853	23,318	7,411	10,722	193,564	17,826
1528	Tank and Reservoir Maintenance	0	0	0	0	0	0	0	0	21,548	0	21,548	5,387
1530	Tools	1,500	1,500	1,500	1,500	0	0	0	0	0	0	6,000	0
2400	Installment Purchase Agreement	159,896	154,546	148,796	143,538	138,467	133,574	128,912	124,286	119,969	-2,241,644	-989,659	-467,119
	Total Other Expenditures	307,396	292,046	246,296	231,038	855,467	220,301	185,486	572,448	1,187,682	-949,567	4,137,715	249,012
	NET CASH FLOW	107,355	105,867	110,209	112,253	-612,717	67,847	348,229	-152,665	-781,923	1,134,581	-550,084	36,854

Kinneloa Irrigation District 2020 Budget Worksheet (Proposed Rates)

			2019 FYE Forecast	Variance of 2019 FYE		Variance of Proposed 2020	
A	Assount Description	2010 Budget	as of	Forecast to	Proposed 2020	Budget to	Notes
Account	Account Description	2019 Budget	7/31/2019	2019 Budget	Budget	2019 Budget	Notes
4000	Water Sales	1,500,000	1,430,738				Projection based on 3% rate increase and current usage
4015	Wholesale Water Sales	85,000	112,003			5,000	Projection based on wholesale rate increase and estimated delivery
4020	Service Charges	10,000	10,710	710		0	
4025	Asset Sale/Miscellaneous	0	0		0	0	
4035	Interest-Reserve Fund	15,000	36,016	•	30,000	15,000	Reserve balance and interest rates have increased
4050	Capacity Charge	0	0	0	0	0	
4070	Misc. Income	0	5,969	5,969	0	0	
	Total Income	1,610,000	1,595,437	-14,563	1,630,000	20,000	
5000	Leased Water Rights	63,135	63,135		•	0	
5005	Electricity	125,000	112,319	-12,681		0	
5010	Maintenance Supplies	25,000	35,062			0	
5011	Material and Labor for Install	10,000	4,167	-5,833		0	
5012	Safety Equipment	1,600	2,161	561	1,600	0	
5015	Operations & Maintenance Labor	198,400	193,494				Merit and cost of living increases
5016	Non-Emergency Operations OT	9,000	12,608	3,608	13,500	4,500	Merit and cost of living increases
5017	Operations Bonus	0	0	0	0	0	
5020	Stand-by Compensation	10,950	10,593	-358		30	
5022	Training/Certification	1,600	897	-703		0	
5025	Water Treatment/Analysis	22,000	21,428	-572		0	
5030	Maintenance Contractors	125,000	148,064			·	Contractor labor rate has increased
5034	Equipment Maintenance	12,500	16,232	3,732			Service providers labor and parts have increased
5035	Vehicle Maintenance	10,000	10,616			5,000	Vehicles are older and require more maintenance
5036	Fuel - All Equipment	15,000	15,080	80	15,000	0	
5040	Equipment Rental	500	500	0	500	0	
5045	Insurance-Workers Comp.	12,000	19,694	7,694		8,000	Rate increase
5046	Insurance-Liability	16,000	14,534	-1,466		0	
5048	Insurance-Property	2,500	1,464	-1,036		0	
5049	Insurance-Medical	76,500	84,077	7,577	88,500	12,000	Fully staffed this year
6000	Engineering Services	47,500	30,703	-16,797		0	
6005	Watermaster Services	12,000	10,567	-1,433		0	
6015	Administrative Salary	148,000	137,868	-10,132	154,000	6,000	Merit and cost of living increases
6016	Administrative Bonus	0	0	0	0	0	
6017	Administrative Travel	3,000	1,861	-1,139		0	
6020	BofD Compensation	5,600	5,233	-367		0	
6021	Administrative & Board Expense	1,000	417	-583	1,000	0	

Kinneloa Irrigation District 2020 Budget Worksheet (Proposed Rates)

			2019 FYE Forecast	Variance of 2019 FYE		Variance of Proposed 2020	
			as of	Forecast to	Proposed 2020	Budget to	
Account	Account Description	2019 Budget	7/31/2019	2019 Budget	Budget	2019 Budget	Notes
6022	Board of Directors Election	12,500	12,500	0	12,500	0	
6024	Customer/Public Information	2,000	866	-1,134	2,000	0	
6025	PERS - KID	36,000	32,766	-3,234	36,000	0	
6030	Social Security - KID	29,000	27,698	-1,302	29,000	0	
6031	Medicare - KID	6,200	6,235	35	6,200	0	
6035	Office/Computer Supplies	7,000	7,659	659	7,000	0	
6036	Postage/Delivery	5,000	4,514	-486	5,000	0	
6040	Professional Dues	12,000	13,213	1,213	12,000	0	
6045	Legal Services	15,000	11,884	-3,116	15,000	0	
6050	Telephone	4,500	4,408	-92	4,500	0	
6051	Mobile Telephone	1,500	1,280	-220	1,500	0	
6052	Pagers	500	486	-14	500	0	
6053	Internet Service	1,000	744	-256	1,000	0	
6059	Computer/Software Maintenance	12,000	9,190	-2,810	12,000	0	
6061	Office Equipment Maintenance	1,000	778	-222	1,000	0	
6065	Accounting Services	7,000	6,400	-600	7,000	0	
6070	Office & Accounting Labor	96,550	88,847	-7,703	109,500	12,950	Fully staffed this year with merit and cost of living increases
6071	Office & Accounting Bonus	0	0	0	0	0	
6075	Professional/Contract Services	28,000	31,609	3,609	28,000	0	
6080	Administrative Fees	9,000	9,234	234	9,000	0	
6081	Permits/Fees	15,000	10,758	-4,242	15,000	0	
6086	Taxes - Sales	500	39	-461	500	0	
6088	Interest Expense	66,628	66,628	0	61,735	-4,893	Interest declines as installment payments are made
6120	Bank Service Charges	6,500	6,779	279	6,500	0	
	Total Expenses	1,328,163	1,307,288	-20,875		59,087	
	NET REVENUES	281,837	288,148	6,311	242,750	-39,087	
	Other Expenditures						
1504	Water Mains	0	0	0	500,000		East Tank Loop and Brown/Glen replacement pipeline
1505	Water Tunnels	0	0	0	10,000	10,000	House Tunnel Pipeline repair
1506	K-3 Well	0	0	0	0	0	
1509	Wilcox Well/Wilcox Booster	52,000	0	-52,000		0	Carryover funds not spent last year for 50 hp booster repair
1511	Water Treatment Plant	6,000	5,751	-249	6,000	0	
1512	Water Meters	9,000	9,000	0	9,000	0	
1513	Electrical/Electronic Equipment	5,000	5,000	0	5,000	0	
1514	Computer/Office Equipment	5,000	4,716	-284	5,000	0	

Kinneloa Irrigation District 2020 Budget Worksheet (Proposed Rates)

			2019 FYE	Variance of		Variance of	
			Forecast	2019 FYE		Proposed 2020	
			as of	Forecast to	Proposed 2020	Budget to	
Account	Account Description	2019 Budget	7/31/2019	2019 Budget	Budget	2019 Budget	Notes
1515	Vehicles/Portable Equipment	0	0	0	90,000	90,000	Replace two pickup trucks
1516	Water Company Facilities	20,000	20,000	0	30,000	10,000	Carryover funds not spent last year for office driveway repair
1527	SCADA	51,000	42,260	-8,740	10,000	-41,000	Routine expenses this year
1528	Tanks and Reservoirs	0	0	0	0	0	
1530	Tools	0	0	0	0	0	
2400	Installment Purchase Agreement	133,574	133,574	0	138,467	4,893	Principle increases as installment payments are made
'-	Total Other Expenditures	281,574	220,301	-61,273	855,467	573,893	
	NET CASH FLOW	263	67,847	67,584	-612,717	-612,980	Planned use of reserve funds for capital improvement and replacement projects

Proposed Kinneloa Irrigation District 2020 Budget

Account	Account Description	2020 Budget
4000	Water Sales	1,500,000
4015	Wholesale Water Sales	90,000
4020	Service Charges	10,000
4035	Interest-Reserve Fund	30,000
	Total Income	1,630,000
5000	Leased Water Rights*	63,135
5005	Electricity	125,000
5010	Maintenance Supplies	25,000
5011	Material and Labor for Installs	10,000
5012	Safety Equipment	1,600
5015	Operations & Maintenance Labor	206,400
5016	Operations & Maintenance OT	13,500
5020	Stand-by Compensation	10,980
5022	Training/Certification	1,600
5025	Water Treatment/Analysis	22,000
5030	Maintenance Contractors	130,000
5034	Equipment Maintenance	15,000
5035	Vehicle Maintenance	15,000
5036	Fuel - All Equipment	15,000
5040	Equipment Rental	500
5045	Insurance-Workers Compensation	20,000
5046	Insurance-Liability	16,000
5048	Insurance-Property	2,500
5049	Insurance-Medical	88,500
6000	Engineering Services	47,500
6005	Watermaster Services	12,000
6015	Administrative Salary	154,000
6017	Administrative Salary	3,000
6020	Board of Directors Compensation	5,600
6021	Administrative & Board Expenses	1,000
6022	Board of Directors Election	12,500
6024	Customer/Public Information	2,000
6025	PERS - KID	•
		36,000 29,000
6030	Social Security - KID	•
6031	Medicare - KID	6,200
6035	Office/Computer Supplies	7,000
6036	Postage/Delivery	5,000
6040	Professional Dues	12,000
6045	Legal Services	15,000
6050	Telephone	4,500
6051	Mobile Telephone	1,500
6052	Pagers	500
6053	Internet Service	1,000
6059	Computer/Software Maintenance	12,000
6061	Office Equipment Maintenance	1,000
6065	Accounting Services	7,000
6070	Office & Accounting Labor	109,500
6075	Professional/Contract Services	28,000
6080	Administrative Fees	9,000
6081	Permits/Fees	15,000
6086	Sales Tax	500
6088	Interest Expense	61,735
6120	Bank Service Charges	6,500
	Total Expenses	1,387,250
	NET REVENUES	242,750

Water Sales, Units	222,290
Usage Charge Per Unit	\$4.56
Annual Usage (Commodity) Revenue	\$1,013,641
Daily Service Charge	\$2.27
Annual Daily Service Charge Revenue	\$486,359
Annual Water Sales	\$1,500,000
Wholesale Water Sales	\$90,000
Other Annual Revenue	\$40,000
Total Revenue	\$1,630,000
Total Expenses	\$1,387,250
Net Revenues	\$242,750
Improvement Projects and Debt Service	\$855,467
Annual Net Cash Flow	-\$612,717
Average Monthly Charge for Low Usage (10 units)	\$112
Average Monthly Charge for Medium Usage (50 units)	\$289
Average Monthly Charge for High Usage (100 units)	\$511
Reserve Fund Balance (Beginning)*	\$2,088,880
Reserve Fund Balance (Year End)*	\$1,476,163

*Reserve fund balance includes targets of \$100,000-\$200,000 for operating reserve, \$200,000-\$400,000 for emergency repairs, \$200,000-\$400,000 for replacement of existing facilities equipment and vehicles and \$500,000-\$4,5000,000 for future capital improvement projects. The total target reserve fund range is \$1,000,000-\$5,500,000.

	Rate History	
Effective Date	Daily Service Charge (Charge Per Average Month)	Usage Charge
12/15/1955	No daily service charge - Monthly minimum charge based on meter size: \$2.50 for 3/4" \$3.50 of 1" \$5.50 for 1.5" \$6.50 for 2"	3/4" \$2.50 1st 400 Cu. Ft. (4 units) 1" \$3.50 1st 600 Cu. Ft. (6 units) 1 1/2" \$5.00 1st 800 Cu. Ft. (8 units) 2" \$6.50 1st 1000 Cu. Ft. (10 units) \$0.18 per 100 Cu. Ft. (1 unit) up to 10,000 Cu. Ft. (100 units) \$0.15 per 100 Cu. Ft. over 10,000 Cu. Ft. (100 units)
5/1/1958	No daily service charge - Monthly minimum charge \$5.00 for all meters for 1st 800 Cu. Ft. (8 units)	\$0.18 per 100 Cu. Ft. (1 unit) up to 10,000 Cu. Ft. (100 units) \$0.15 per 100 Cu. Ft. over 10,000 Cu. Ft. (100 units)
4/1/1976	0.1810 (\$ 5.50)	\$0.20
4/1/1977	0.2140 (\$ 6.50)	\$0.27
1/1/1989	0.6575 (\$20.00)	\$0.85
1/1/1991	0.6575 (\$20.00)	\$1.10
5/5/1993	0.6575 (\$20.00)	\$1.60
4/5/2001	0.9863 (\$30.00)	\$1.90
1/6/2003	0.9863 (\$30.00)	\$1.95
1/1/2005	0.9863 (\$30.00)	\$2.05
1/1/2006	1.1178 (\$34.00)	\$2.30
1/1/2007	1.1836 (\$36.00)	\$2.42
1/1/2009	1.3479 (\$41.00)	\$2.55
1/1/2010	1.6110 (\$49.00)	\$2.75
1/1/2011	1.6110 (\$49.00)	\$2.95
1/1/2013	1.6800 (\$51.10)	\$3.35
1/1/2015	1.7600 (\$53.53)	\$3.52
1/1/2016	2.0200 (\$61.44)	\$4.05
1/1/2017	2.0800 (\$63.27)	\$4.17
1/1/2018	2.1400 (\$65.09)	\$4.30
1/1/2019	2.2000 (\$66.92)	\$4.43
1/1/2020 (Proposed)	2.2700 (\$69.05)	\$4.56

Recommended Expenditures for Projects**

	NET CASH FLOW	-612,717
	Total Other Expenditures	855,467
2400	Installment Purchase Agreement	138,467
1527	SCADA	10,000
1516	Water Company Facilities	30,000
1515	Vehicles/Portable Equipment	90,000
1514	Computer/Office Equipment	5,000
1513	Electrical/Electronic Equipment	5,000
1512	Water Meters	9,000
1511	Water Treatment Plant	6,000
1509	Wilcox Well/Wilcox Booster	52,000
1505	Water Tunnels	10,000
1504	Water Mains	500,000

 $\label{thm:competitive} \textbf{Estimate based on prior projects.} \ \ \textbf{Competitive bidding will determine actual cost.}$

House Tunnel pipeline repair

Replace 50 hp booster pump and motor and sandblast and paint pump stand $\,$

Eucalyptus Cl2 generator replacement

Based on meter replacement rate and transmitters reaching end of 10-year life cycle

Normal replacements

Normal replacements Replace two pickup trucks

Removal, replacement and widening of office driveway

Minor upgrades in equipment and software

Annual principle payment on project loan

Planned use of reserve funds for capital improvement and replacement projects

^{*} Optional expense based on need for supplemental water and negotiation for leased water rights

^{**}Major projects will be prioritized during the year based on urgency and available funds and presented to the Board of Directors for approval.



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Memo

Date: August 12, 2019

To: Board of Directors

From: Mel Matthews

Subject: Advanced Meter Infrastructure

Recommended Action: Information to answer questions and receive feedback from the Board

Background

Over 10 years ago, the KID started installing transmitters on customer water meters to allow for automated meter reading using a drive-by radio receiver. This system has reduced meter reading from a multi-day task to a few hours on a single day and has eliminated errors in the process. The data received has also alerted us to leaks on the customer's side of the meter. Although this level of automation has been highly successful, it has not provided the KID or the customer with real-time usage or instant notification when leaks or high usage occur.

Since the KID installed the current system, the meter industry has developed new products that include Automated Meter Reading (AMR) as well as a real-time data collection device that provides an Advanced Meter Infrastructure (AMI) to provide Advanced Meter Analytics (AMA) for the water agency and the customer. This capability is provided by installing a new transmitter that uses the cellular network to transmit the data. The cost of the transmitter is about the same as our current transmitters, but there is a continuing cost for the data collection via the cellular network. In addition, software would be required to provide integration of the data into a KID and/or customer dashboard and to import the data into our billing system.

Consumer Devices

In parallel to the development of the AMI devices for the water utilities, several manufactures developed inline devices on the customer's side of the meter to collect and transmit real-time data directly to the customer. These devices are very expensive and require professional installation by a plumber.

In 2014, in response to the California drought, three Cal Poly grads, developed the Flume Water Monitor to detect leaks and track water usage in real time. This is a customer-installed device although many water companies are participating in the purchase and installation of the device. The kit consists of a WATER SENSOR that straps around the existing water

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meter register and sends real-time water usage information to the BRIDGE. The Flume Bridge connects to the customer's Wi-Fi and sends water data up to the Flume Cloud, bridging the connection between the Flume water sensor and the desktop or mobile app. The FLUME APP notifies the customer of leaks anywhere on the property and allows the customer to view water usage from anywhere using a mobile phone or computer connected to the Internet. I will demonstrate the device and the app at the August 20th meeting.

Summary and Conclusion

In order to provide a higher level of information and control of water usage, encourage conservation and provide a method for detecting leaks before they cause damage or an unexpected high bill, the KID must upgrade its infrastructure to AMI and/or encourage the customer to install a device such as the Flume or similar products.

Many of the originally installed transmitters are reaching their 10-year life and will need to be replaced either with the current AMR radio transmitters with a 20-year life or with the AMI cellular transmitters. The purchase decision will have the following physical and financial implications:

- 1. The new AMR radio transmitter uses a different frequency and will require new hardware and software to receive data from both the existing transmitters and the new transmitters. This would be a relatively low one-time cost and covered within the budget.
- If the KID continues to use AMR radio transmitters, a drive-by reading will still be necessary and will <u>not</u> provide real-time usage or leak notifications. History of water usage on an hourly basis would be available by downloading the data from the transmitter upon customer request. This procedure requires a field visit to collect data. <u>Continuing to use AMR radio transmitters is the least costly solution for the KID.</u>
- 3. The AMI cellular transmitters might not work in all locations due to reception problems. Some field manual meter reading might be required.
- 4. The AMI cellular transmitters would have a continuing cost for using the cellular network, but no drive-by reading would be required if installed on 100% of our meters.
- 5. The AMI cellular system would provide real-time usage and leak notifications to the customer and to the KID. However, converting 100% of the system to AMI is the costliest solution for the KID.
- 6. If the AMI cellular transmitters only were used to replace failed AMR transmitters, drive-by meter reading would continue as usual. The transition to 100% AMI would take up to ten years. Two interfaces to the billing system would be required to transfer the data to the billing computer.
- 7. If the AMR radio-only system is continued, the KID could recommend installation of the Flume (or similar) device to customers on an optional basis, and to increase acceptance by the customer, the KID (or FMWD or MWD) could offer a rebate program. This is the least costly way of providing real-time water usage and leak detection to customers who opt in. However, it will be a challenge to gain significant penetration of devices at the current full retail price.

Since the decision on implementing a new infrastructure has significant physical and financial implications, I have written this memo to provide the information needed for further discussion before recommending a course of action. However, it is clear to me that our customers need real-time data to reduce excessive usage and stop leaks. Our oncea-month reading does not provide timely information to avoid high water bills.

Since our inventory of replacement water meters with the integrated AMR radio is extremely low, a decision will need to be made soon whether to transition to the AMI system for all future installations.

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