

2019 FINANCIAL PLAN - REVISED 121418

LELAND MEADOW WATER DISTRICT

PROJECTED CASH BALANCES AT DECEMBER 31, 2018

- BALANCE - RESERVE ACCOUNT	25,000.00
- BALANCE - CHECKING	6,838.00
TOTAL ESTIMATED CARRY FORWARD BALANCES	31,838.00

CASH RECEIPTS FOR 2019

- WATER AND SEWER FEES - BASED ON 60 CUSTOMERS @ \$275.00 PER QUARTER	72,000.00
- INTEREST INCOME	250.00

<u>TOTAL CASH COLLECTIONS FOR 2019</u>	<u>72,250.00</u>
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SUB TOTAL	\$104,088.00
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	2019 PLAN	2018 YE PROJECTED
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CASH DISBURSEMENTS FOR 2019

NORMAL ANNUAL OPERATING EXPENSES

REGULATORY REQUIREMENTS

- MAINTENANCE - SEWER PLANT OPERATOR	7,200.00	7,025.00
- SEWER PLANT TESTING REQUIREMENTS	1,500.00	1,775.00
- WATER TESTING - SAMPLES FOR TESTING	1,200.00	1,230.00
- PUBLIC AGENCY FEES	3,300.00	3,514.00

INSURANCE

- INSURANCE - LIABILITY	2,500.00	2,189.00
- INSURANCE - STATE COMP INSURANCE FUND	1,000.00	873

MAINTENANCE

- MAINTENANCE - SUPPLY AND FIRE SYSTEM - Misc. undefined Projects	10,000.00	19,546
- MAINTENANCE - SEWER SYSTEM - Misc. Undefined projects	5,000.00	6,458
- MAINTENANCE - SEWER SYSTEM - SEE LONG TERM MAINTENANCE PROJECT LIST		
Repairs identified by Nor-Cal Inspection not completed in 2018 (four @ \$2500 each)	10,000.00	
Robertson Inspection - Lateral lines from main to each lot or condo	7,500.00	
Nor-Cal Inspection - Main lin on lots 43 & 44	3,750.00	
Nor-Cal Inspection - Main lin on lots 54 - 58 (543')	3,750.00	
Repair or replace manhole #05 @ lots 49-50	10,000.00	
Install new manhole to replace existing cleanouts on lots 42-43	10,000.00	
- MAINTENANCE - WATER TANK ROAD	3,000.00	0
- MAINTENANCE - SEWER LINE CLEANING AND INSPECTION		16,880

PROFESSIONAL SERVICES

- PROFESSIONAL SERVICES - ACCOUNTANT/AUDITOR	2,500.00	4,100
- PROFESSIONAL SERVICES - GENERAL MANAGER	7,200.00	6,383
- PROFESSIONAL SERVICES - WATER & SEWER CONSULTANT		538
- RESERVE STUDY	2,000.00	1,960
- CONSULTANTS - Rate Study, Legal Support, Engineering Report	10,000.00	

MISCELLANEOUS

- MISCELLANEOUS EXPENSES/MILEAGE	1,200.00	1,143
- POSTAGE/OFFICE SUPPLIES	600.00	530
- UTILITIES - PG & E AND AT & T	4,200.00	3,356
- UTILITIES - PG & E WATER ONLY		345

TOTAL NORMAL ANNUAL OPERATING EXPENSES	\$107,400.00	\$77,845
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CAPITAL IMPROVEMENTS

- MANHOLE CLEANOUT @ 44-45		12,089.00
- SAFETY PLATFORMS INSTALLED IN SEWER PLANT BUILDING	5,000.00	

TOTAL DISBURSEMENTS FOR 2019	\$112,400.00
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PROJECTED CASH BALANCE AS OF DECEMBER 31, 2019	-\$8,312.00
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- BALANCE - RESERVE ACCOUNT	0.00
- BALANCE - CHECKING ACCOUNT	0.00

-\$8,312.00

LELAND MEADOW WATER DISTRICT

Long Term Financial Plan Assumptions & Approach Per Association Reserves Capital Plan 8/2018, modified for earlier Replacement of Distribution Lines Per modified 10 Year Operating Expense Forecast Prepared 12/14/18

Assumptions and Approach:

FOR EXPENSE FORECASTS (10 year "zero based budget" + 15 year annual inflation only):

- 1 Started with 2019 Financial Plan distributed to Customers August 2018
- 2 Based on inspections, 2018 costs increased to perform needed repairs.
- 3 Based on inspections, 2019 plan was modified to provide additional funds to complete inspections and perform repairs
- 4 10 Year Expense Maintenance Forecast developed based on typical annual spending + additional projects now known
- 5 Maintenance Plan was developed that includes video inspection of the balance of the sewer lines and inspection of water lines
- 6 Maintenance Plan includes funds to repair lines based on the type of repairs needed as a result of September inspections
- 7 Most costs simply indexed for inflation at 2.25% (same as AR assumption)
- 8 New line item was added for legal and engineering support of Rate Study & Update of LMWD Governing Documents
- 9 New line item was added in 2021 to reflect expected increased expense for new GM once MP retires (MP volunteers many many hours)

FOR CAPITAL COSTS (25 Year Forecast):

- 10 Started with Association Reserves Report from August 2018
- 11 As Starting Point, Used Capital Spending Amounts and Timing as in AR Report
- 12 Performed video and physical inspections of the sewer lines in September & October 2018
- 13 Inspections revealed that sewer line in poorer condition than previously known
- 14 Based on inspections replacement of sewer lines must be earlier than Associate Reserves report
- 15 Revised sewer line replacement schedule has been developed and will be done in phases
- 16 Since sewer line replacement will be divided into smaller jobs, additional cost per linear foot has been added to costs
- 17 AR Report estimated \$90/linear ft for replacement; revised capital spending plan provides for \$100/linear ft
- 18 Water Lines assumed to be in similar condition with similar program to replace water lines soon in phased approach

For Financial Calculations:

- 19 Started with the Capital and Expense costs and starting reserve balance (\$25,000) to determine funds required to maintain systems
- 20 Assumed cost annual increase equal to inflation used for both Capital and Expense Forecasts
- 21 *Scenario 1: Calculation with no Rate Increase*
- 22 *Scenario 2: Calculation to Provide Sufficient Funds*

LELAND MEADOW WATER DISTRICT

10 Year Operating Expense Forecast
Prepared 12/14/18

											Inflation Assumed	2.25%
Forecast Income & Expenses												
	2018YE	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
	Estimated	Adjusted										
NORMAL ANNUAL OPERATING EXPENSES												
REGULATORY REQUIREMENTS												
- MAINTENANCE - SEWER PLANT OPERATOR	\$7,025	\$7,200	\$7,362	\$7,528	\$7,697	\$7,870	\$8,047	\$8,228	\$8,413	\$8,603	\$8,796	
- SEWER PLANT TESTING - AQUALAB	\$1,775	\$1,500	\$1,534	\$1,568	\$1,604	\$1,640	\$1,677	\$1,714	\$1,753	\$1,792	\$1,833	
- WATER TESTING - AQUALAB	\$1,230	\$1,200	\$1,227	\$1,255	\$1,283	\$1,312	\$1,341	\$1,371	\$1,402	\$1,434	\$1,466	
- PUBLIC AGENCY FEES	\$3,514	\$3,300	\$3,374	\$3,450	\$3,528	\$3,607	\$3,688	\$3,771	\$3,856	\$3,943	\$4,032	
INSURANCE												
- INSURANCE - LIABILITY	\$2,189	\$2,500	\$2,556	\$2,614	\$2,673	\$2,733	\$2,794	\$2,857	\$2,921	\$2,987	\$3,054	
- INSURANCE - STATE COMP INSURANCE FUND	\$873	\$1,000	\$1,023	\$1,046	\$1,069	\$1,093	\$1,118	\$1,143	\$1,169	\$1,195	\$1,222	
MAINTENANCE												
Water System Supply & Fire System - Misc Projects	\$19,546	\$10,000	\$10,225	\$10,455	\$10,690	\$10,931	\$11,177	\$11,428	\$11,685	\$11,948	\$12,217	
Sewer System Maintenance - Misc Projects	\$6,458	\$5,000	\$5,113	\$10,228	\$10,458	\$10,693	\$5,934	\$6,067	\$6,204	\$6,343	\$6,486	
Water Tank Road - maintain as required due to spring runoff		\$3,000										
Sewer new manhole at Lots 44-45	\$16,880											
SEWER:												
Repairs identified by NorCal Inspection not complete in 2018		\$10,000										
Robinson Inspections - Lateral Lines from main to each lot/condo		\$7,500										
Nor Cal - Inspect main line on lots 43 & 44		\$3,750										
Nor Cal - Inspect main line on lots 54 - 58 (543)		\$3,750										
Nor Cal - Reinspection and Cleaning of all main sewer lines						\$10,000	\$10,200					
Replace or Repair manhole #05 @ lots 49-50		\$10,000										
Install new manhole to replace existing Cleanout lots #42-43		\$10,000										
WATER:												
Nor Cal - Inspection of complete underground supply system			\$30,000					\$10,000	\$10,000	\$10,000		
Inspect Interior of Water Tank				\$5,000								
Water Repairs as result of Norcal Inspection			\$10,000	\$20,000	\$20,000	\$10,000	\$10,225	\$10,455	\$10,690	\$10,931	\$11,177	
PROFESSIONAL SERVICES												
- PROFESSIONAL SERVICES - AUDITOR	\$4,100	\$2,500	\$2,000	\$2,045	\$2,091	\$4,100	\$2,100	\$2,150	\$2,198	\$2,248	\$2,298	
- PROFESSIONAL SERVICES - GENERAL MANAGER	\$6,383	\$7,200	\$7,362	\$7,528	\$7,697	\$7,870	\$8,047	\$8,228	\$8,413	\$8,603	\$8,796	
- PROFESSIONAL SERVICES - WATER & SEWER CONSULTANT	\$538											
- RESERVE STUDY	\$1,960	\$2,000	\$1,000	\$1,023	\$1,046	\$1,069	\$1,093	\$1,118	\$1,143	\$1,169	\$1,195	
MISCELLANEOUS												
- MISCELLANEOUS EXPENSES/MILEAGE	\$1,143	\$1,200	\$1,227	\$1,255	\$1,283	\$1,312	\$1,341	\$1,371	\$1,402	\$1,434	\$1,466	
- POSTAGE/OFFICE SUPPLIES	\$530	\$600	\$614	\$627	\$641	\$656	\$671	\$686	\$701	\$717	\$733	
- UTILITIES - PG & E AND AT & T	\$3,701	\$4,200	\$4,295	\$4,391	\$4,490	\$4,591	\$4,694	\$4,800	\$4,908	\$5,018	\$5,131	
Other Costs												
- Rate Study, Legal Support, Engineering Report		\$10,000		\$1,000	\$1,023	\$1,046	\$1,069	\$1,093	\$1,118	\$1,143	\$1,169	
- General Manager Increase (10h/w x 52 w x\$30)				\$7,500	\$7,669	\$7,841	\$8,018	\$8,198	\$8,383	\$8,571	\$8,764	
Total Annual Normal Operating Expenses	\$77,845	\$107,400	\$88,910	\$88,511	\$84,940	\$88,363	\$83,234	\$84,680	\$86,360	\$88,078	\$88,835	
Note - Original 2019 Operating Expense Plan \$82,400												
CAPITAL IMPROVEMENTS												
- SEWER CLEANOUT @ 44-45 AND SEWER CLEANOUT @ 49-50	\$12,089											
Capital - See Schedule attached		\$5,000	\$42,945	\$0	\$58,797	\$120,239	\$64,266	\$27,999	\$178,786	\$0	\$71,837	
TOTAL ANNUAL CAPITAL IMPROVEMENT COSTS	\$12,089	\$5,000	\$42,945	\$0	\$58,797	\$120,239	\$64,266	\$27,999	\$178,786	\$0	\$71,837	
TOTAL OF NORMAL AND CAPITAL EXPENSES	\$89,934	\$112,400	\$131,855	\$88,511	\$143,736	\$208,602	\$147,500	\$112,679	\$265,146	\$88,078	\$160,672	

LELAND MEADOW WATER DISTRICT
25 YEAR LONG RANGE CAPITAL PLAN
 Association Reserve Study 8/2018 with modifications for EARLIER replacement of distribution lines
 Prepared 12/14/18

			Year Scheduled	Estimate in 2018 Dollars	2019	2020	2021	2022	2023
CAPITAL PROJECTS - WATER SYSTEM									
Water Tank - Replace				\$144,500					
Pump House - Rehab			2029	\$3,300					
Sand Filter - Replace			2028	\$4,500					
Well - Maintain			2039	\$16,500					
Fire Hydrants - Replace			2029	\$17,500					
Fire Alarm System - Replace			2025	\$9,000					
Control Panels for Pumps - Replace			2034	\$10,000					
Electrical Controls - Replace			2033	\$18,000					
Distribution Lines - Repl (2")	1200 LF	AR said 2040 @ \$90/LF							
Distribution Lines - Repl (4")	2500 LF	AR said 2041 @ \$90/LF							
Distribution Lines - Repl (6")	4500 LF	AR said 2042 @\$90/LF							
WATER LINE REPLACEMENT - PHASE #1 - 1100' @ \$100/ FT.	1,100		2023	\$110,000					\$120,239
WATER LINE REPLACEMENT - PHASE #2	1,100		2026	\$110,000					
WATER LINE REPLACEMENT - PHASE #3	1,100		2029	\$110,000					
WATER LINE REPLACEMENT - PHASE #4	1,100		2032	\$110,000					
WATER LINE REPLACEMENT - Phase #5	1,100		2035	\$110,000					
Balance Replacement	2,700		2036/39/42	\$270,000					
Transmission System - Replace			2046	\$32,150					
Telemetry System - Replace			2033	\$2,200					
TOTAL WATER SYSTEM CAPITAL					\$0	\$0	\$0	\$0	\$120,239
CAPITAL PROJECTS - SEWER SYSTEM									
Septic Tanks - Replace			2039	\$17,600					
Fence - Replace			2038	\$13,350					
Sewer Plant Building - Rehab			2034	\$27,500	\$5,000				
Aerator - Repace			2025/2040	\$10,000					
Sewer Lines (4") - Repair/Replace	1520 LF	AR said 2040 @ \$90/LF							
Sewer Lines (6") - Repair/Replace	3250 LF	AR said 2041 @ \$90/LF							
Sewer Lines (8") Repair/ Replace	1250 LF	AR said 2042 @\$90/LF							
Manhole - Cleans/Repair			2042	\$10,000					
Blower - Replace			2025/2040	\$5,500					
Sewer Line Replace - LOTS #41 - #44 (420') @ \$100/FT.	420		2020	\$42,000		\$42,945			
Sewer Line Replace - LOTS #46 - #49 (550')	550		2022	\$55,000				\$58,797	
Sewer Line Replace - LOTS #60 (575')	575		2024	\$57,500					
Sewer Line Replace - MH 8 TO MH 7 TO MH6 TO MH5 (430')	430		2026	\$43,000					
Sewer Line Replace - LOTS #54 - #58 (543')	543		2028	\$54,300					
Sewer Line Replace - LOTS #58 - #03 - SEWER PLANT(615')	615		2030	\$61,500					
Sewer Line Replace - Next Phase	500		2032	\$50,000					
Sewer Lines Balance	2,387		2038/41/43	\$238,700					
TOTAL SEWER SYSTEM CAPITAL					\$5,000	\$42,945	\$0	\$58,797	\$0
GRAND TOTAL WATER & SEWER SYSTEM CAPITAL					\$5,000	\$42,945	\$0	\$58,797	\$120,239

LELAND MEADOW WATER DISTRICT
25 YEAR LONG RANGE CAPITAL PLAN
 Association Reserve Study 8/2018 with modifications for EARLIER replacement of distribution lines
 Prepared 12/14/18

			Year Scheduled	Estimate in 2018 Dollars	2024	2025	2026	2027	2028
CAPITAL PROJECTS - WATER SYSTEM									
Water Tank - Replace				\$144,500					
Pump House - Rehab			2029	\$3,300					
Sand Filter - Replace			2028	\$4,500					\$5,498
Well - Maintain			2039	\$16,500					
Fire Hydrants - Replace			2029	\$17,500					
Fire Alarm System - Replace			2025	\$9,000		\$10,285			
Control Panels for Pumps - Replace			2034	\$10,000					
Electrical Controls - Replace			2033	\$18,000					
Distribution Lines - Repl (2")	1200 LF	AR said 2040 @ \$90/LF							
Distribution Lines - Repl (4")	2500 LF	AR said 2041 @ \$90/LF							
Distribution Lines - Repl (6")	4500 LF	AR said 2042 @\$90/LF							
WATER LINE REPLACEMENT - PHASE #1 - 1100' @ \$100/ FT.	1,100		2023	\$110,000					
WATER LINE REPLACEMENT - PHASE #2	1,100		2026	\$110,000			\$128,539		
WATER LINE REPLACEMENT - PHASE #3	1,100		2029	\$110,000					
WATER LINE REPLACEMENT - PHASE #4	1,100		2032	\$110,000					
WATER LINE REPLACEMENT - Phase #5	1,100		2035	\$110,000					
Balance Replacement	2,700		2036/39/42	\$270,000					
Transmission System - Replace			2046	\$32,150					
Telemetry System - Replace			2033	\$2,200					
TOTAL WATER SYSTEM CAPITAL					\$0	\$10,285	\$128,539	\$0	\$5,498
CAPITAL PROJECTS - SEWER SYSTEM									
Septic Tanks - Replace			2039	\$17,600					
Fence - Replace			2038	\$13,350					
Sewer Plant Building - Rehab			2034	\$27,500					
Aerator - Repace			2025/2040	\$10,000		\$11,428			
Sewer Lines (4") - Repair/Replace	1520 LF	AR said 2040 @ \$90/LF							
Sewer Lines (6") - Repair/Replace	3250 LF	AR said 2041 @ \$90/LF							
Sewer Lines (8") Repair/ Replace	1250 LF	AR said 2042 @\$90/LF							
Manhole - Cleans/Repair			2042	\$10,000					
Blower - Replace			2025/2040	\$5,500		\$6,286			
Sewer Line Replace - LOTS #41 - #44 (420') @ \$100/FT.	420		2020	\$42,000					
Sewer Line Replace - LOTS #46 - #49 (550')	550		2022	\$55,000					
Sewer Line Replace - LOTS #60 (575')	575		2024	\$57,500	\$64,266				
Sewer Line Replace - MH 8 TO MH 7 TO MH6 TO MH5 (430')	430		2026	\$43,000			\$50,247		
Sewer Line Replace - LOTS #54 - #58 (543')	543		2028	\$54,300					\$66,339
Sewer Line Replace - LOTS #58 - #03 - SEWER PLANT(615')	615		2030	\$61,500					
Sewer Line Replace - Next Phase	500		2032	\$50,000					
Sewer Lines Balance	2,387		2038/41/43	\$238,700					
TOTAL SEWER SYSTEM CAPITAL					\$64,266	\$17,714	\$50,247	\$0	\$66,339
GRAND TOTAL WATER & SEWER SYSTEM CAPITAL					\$64,266	\$27,999	\$178,786	\$0	\$71,837

LELAND MEADOW WATER DISTRICT
25 YEAR LONG RANGE CAPITAL PLAN
 Association Reserve Study 8/2018 with modifications for EARLIER replacement of distribution lines
 Prepared 12/14/18

			Year Scheduled	Estimate in 2018 Dollars	2029	2030	2031	2032	2033
CAPITAL PROJECTS - WATER SYSTEM									
Water Tank - Replace				\$144,500					
Pump House - Rehab			2029	\$3,300	\$4,122				
Sand Filter - Replace			2028	\$4,500					
Well - Maintain			2039	\$16,500					
Fire Hydrants - Replace			2029	\$17,500	\$21,861				
Fire Alarm System - Replace			2025	\$9,000					
Control Panels for Pumps - Replace			2034	\$10,000					
Electrical Controls - Replace			2033	\$18,000					\$24,579
Distribution Lines - Repl (2")	1200 LF	AR said 2040 @ \$90/LF							
Distribution Lines - Repl (4")	2500 LF	AR said 2041 @ \$90/LF							
Distribution Lines - Repl (6")	4500 LF	AR said 2042 @\$90/LF							
WATER LINE REPLACEMENT - PHASE #1 - 1100' @ \$100/ FT.	1,100		2023	\$110,000					
WATER LINE REPLACEMENT - PHASE #2	1,100		2026	\$110,000					
WATER LINE REPLACEMENT - PHASE #3	1,100		2029	\$110,000	\$137,412				
WATER LINE REPLACEMENT - PHASE #4	1,100		2032	\$110,000			\$146,898		
WATER LINE REPLACEMENT - Phase #5	1,100		2035	\$110,000					
Balance Replacement	2,700		2036/39/42	\$270,000					
Transmission System - Replace			2046	\$32,150					
Telemetry System - Replace			2033	\$2,200					\$3,004
TOTAL WATER SYSTEM CAPITAL					\$163,395	\$0	\$0	\$146,898	\$27,583
CAPITAL PROJECTS - SEWER SYSTEM									
Septic Tanks - Replace			2039	\$17,600					
Fence - Replace			2038	\$13,350					
Sewer Plant Building - Rehab			2034	\$27,500					
Aerator - Repace			2025/2040	\$10,000					
Sewer Lines (4") - Repair/Replace	1520 LF	AR said 2040 @ \$90/LF							
Sewer Lines (6") - Repair/Replace	3250 LF	AR said 2041 @ \$90/LF							
Sewer Lines (8") Repair/ Replace	1250 LF	AR said 2042 @\$90/LF							
Manhole - Cleans/Repair			2042	\$10,000					
Blower - Replace			2025/2040	\$5,500					
Sewer Line Replace - LOTS #41 - #44 (420') @ \$100/FT.	420		2020	\$42,000					
Sewer Line Replace - LOTS #46 - #49 (550')	550		2022	\$55,000					
Sewer Line Replace - LOTS #60 (575')	575		2024	\$57,500					
Sewer Line Replace - MH 8 TO MH 7 TO MH6 TO MH5 (430')	430		2026	\$43,000					
Sewer Line Replace - LOTS #54 - #58 (543')	543		2028	\$54,300					
Sewer Line Replace - LOTS #58 - #03 - SEWER PLANT(615')	615		2030	\$61,500		\$78,555			
Sewer Line Replace - Next Phase	500		2032	\$50,000				\$66,772	
Sewer Lines Balance	2,387		2038/41/43	\$238,700					
TOTAL SEWER SYSTEM CAPITAL					\$0	\$78,555	\$0	\$66,772	\$0
GRAND TOTAL WATER & SEWER SYSTEM CAPITAL					\$163,395	\$78,555	\$0	\$213,670	\$27,583

LELAND MEADOW WATER DISTRICT
25 YEAR LONG RANGE CAPITAL PLAN
 Association Reserve Study 8/2018 with modifications for EARLIER replacement of distribution lines
 Prepared 12/14/18

			Year Scheduled	Estimate in 2018 Dollars	2034	2035	2036	2037	2038
CAPITAL PROJECTS - WATER SYSTEM									
Water Tank - Replace				\$144,500					
Pump House - Rehab			2029	\$3,300					
Sand Filter - Replace			2028	\$4,500					
Well - Maintain			2039	\$16,500					
Fire Hydrants - Replace			2029	\$17,500					
Fire Alarm System - Replace			2025	\$9,000					
Control Panels for Pumps - Replace			2034	\$10,000	\$13,962				
Electrical Controls - Replace			2033	\$18,000					
Distribution Lines - Repl (2")	1200 LF	AR said 2040 @ \$90/LF							
Distribution Lines - Repl (4")	2500 LF	AR said 2041 @ \$90/LF							
Distribution Lines - Repl (6")	4500 LF	AR said 2042 @\$90/LF							
WATER LINE REPLACEMENT - PHASE #1 - 1100' @ \$100/ FT.	1,100		2023	\$110,000					
WATER LINE REPLACEMENT - PHASE #2	1,100		2026	\$110,000					
WATER LINE REPLACEMENT - PHASE #3	1,100		2029	\$110,000					
WATER LINE REPLACEMENT - PHASE #4	1,100		2032	\$110,000					
WATER LINE REPLACEMENT - Phase #5	1,100		2035	\$110,000		\$157,038			
Balance Replacement	2,700		2036/39/42	\$270,000			\$131,377		
Transmission System - Replace			2046	\$32,150					
Telemetry System - Replace			2033	\$2,200					
TOTAL WATER SYSTEM CAPITAL					\$13,962	\$157,038	\$131,377	\$0	\$0
CAPITAL PROJECTS - SEWER SYSTEM									
Septic Tanks - Replace			2039	\$17,600					
Fence - Replace			2038	\$13,350				\$20,374	
Sewer Plant Building - Rehab			2034	\$27,500	\$38,396				
Aerator - Repace			2025/2040	\$10,000					
Sewer Lines (4") - Repair/Replace	1520 LF	AR said 2040 @ \$90/LF							
Sewer Lines (6") - Repair/Replace	3250 LF	AR said 2041 @ \$90/LF							
Sewer Lines (8") Repair/ Replace	1250 LF	AR said 2042 @\$90/LF							
Manhole - Cleans/Repair			2042	\$10,000					
Blower - Replace			2025/2040	\$5,500					
Sewer Line Replace - LOTS #41 - #44 (420') @ \$100/FT.	420		2020	\$42,000					
Sewer Line Replace - LOTS #46 - #49 (550')	550		2022	\$55,000					
Sewer Line Replace - LOTS #60 (575')	575		2024	\$57,500					
Sewer Line Replace - MH 8 TO MH 7 TO MH6 TO MH5 (430')	430		2026	\$43,000					
Sewer Line Replace - LOTS #54 - #58 (543')	543		2028	\$54,300					
Sewer Line Replace - LOTS #58 - #03 - SEWER PLANT(615')	615		2030	\$61,500					
Sewer Line Replace - Next Phase	500		2032	\$50,000					
Sewer Lines Balance	2,387		2038/41/43	\$238,700					\$121,432
TOTAL SEWER SYSTEM CAPITAL					\$38,396	\$0	\$0	\$20,374	\$121,432
GRAND TOTAL WATER & SEWER SYSTEM CAPITAL					\$52,358	\$157,038	\$131,377	\$20,374	\$121,432

LELAND MEADOW WATER DISTRICT
25 YEAR LONG RANGE CAPITAL PLAN
 Association Reserve Study 8/2018 with modifications for EARLIER replacement of distribution lines
 Prepared 12/14/18

			Year Scheduled	Estimate in 2018 Dollars	2039	2040	2041	2042	2043
CAPITAL PROJECTS - WATER SYSTEM									
Water Tank - Replace				\$144,500					
Pump House - Rehab			2029	\$3,300					
Sand Filter - Replace			2028	\$4,500					
Well - Maintain			2039	\$16,500	\$25,748				
Fire Hydrants - Replace			2029	\$17,500					
Fire Alarm System - Replace			2025	\$9,000					
Control Panels for Pumps - Replace			2034	\$10,000					
Electrical Controls - Replace			2033	\$18,000					
Distribution Lines - Repl (2")	1200 LF	AR said 2040 @ \$90/LF							
Distribution Lines - Repl (4")	2500 LF	AR said 2041 @ \$90/LF							
Distribution Lines - Repl (6")	4500 LF	AR said 2042 @\$90/LF							
WATER LINE REPLACEMENT - PHASE #1 - 1100' @ \$100/ FT.	1,100		2023	\$110,000					
WATER LINE REPLACEMENT - PHASE #2	1,100		2026	\$110,000					
WATER LINE REPLACEMENT - PHASE #3	1,100		2029	\$110,000					
WATER LINE REPLACEMENT - PHASE #4	1,100		2032	\$110,000					
WATER LINE REPLACEMENT - Phase #5	1,100		2035	\$110,000					
Balance Replacement	2,700		2036/39/42	\$270,000	\$140,446			\$150,141	
Transmission System - Replace			2046	\$32,150					
Telemetry System - Replace			2033	\$2,200					
TOTAL WATER SYSTEM CAPITAL					\$166,194	\$0	\$0	\$150,141	\$0
CAPITAL PROJECTS - SEWER SYSTEM									
Septic Tanks - Replace			2039	\$17,600	\$27,465				
Fence - Replace			2038	\$13,350					
Sewer Plant Building - Rehab			2034	\$27,500					
Aerator - Repace			2025/2040	\$10,000		\$15,956			
Sewer Lines (4") - Repair/Replace	1520 LF	AR said 2040 @ \$90/LF							
Sewer Lines (6") - Repair/Replace	3250 LF	AR said 2041 @ \$90/LF							
Sewer Lines (8") Repair/ Replace	1250 LF	AR said 2042 @\$90/LF							
Manhole - Cleans/Repair			2042	\$10,000				\$16,682	
Blower - Replace			2025/2040	\$5,500		\$8,776			
Sewer Line Replace - LOTS #41 - #44 (420') @ \$100/FT.	420		2020	\$42,000					
Sewer Line Replace - LOTS #46 - #49 (550')	550		2022	\$55,000					
Sewer Line Replace - LOTS #60 (575')	575		2024	\$57,500					
Sewer Line Replace - MH 8 TO MH 7 TO MH6 TO MH5 (430')	430		2026	\$43,000					
Sewer Line Replace - LOTS #54 - #58 (543')	543		2028	\$54,300					
Sewer Line Replace - LOTS #58 - #03 - SEWER PLANT(615')	615		2030	\$61,500					
Sewer Line Replace - Next Phase	500		2032	\$50,000					
Sewer Lines Balance	2,387		2038/41/43	\$238,700			\$129,815		\$135,722
TOTAL SEWER SYSTEM CAPITAL					\$27,465	\$24,732	\$129,815	\$16,682	\$135,722
GRAND TOTAL WATER & SEWER SYSTEM CAPITAL					\$193,659	\$24,732	\$129,815	\$166,823	\$135,722

LELAND MEADOW WATER DISTRICT

Scenario #1: FINANCIAL CALCULATION WITH NO RATE INCREASE
Per Association Reserves Capital Plan 8/2018, modified for earlier Replacement of Distribution Lines
Per modified 10 Year Operating Expense Forecast
Prepared 12/14/18

Year	Customer Monthly Fee	Individual Annual Fee	Total Fee Revenue	Operating Expenses	Reserve Fund Contribution	Fee inflation	Operating Expense % increase	Interest Income, 1%	Reserve Fund Balance	Capital Spending
2018									\$25,000	
2019	\$100	\$1,200	\$72,000	\$107,400	(\$35,400)			\$250	(\$15,150)	\$5,000
2020	\$100	\$1,200	\$72,000	\$88,910	(\$16,910)	0.00%			(\$75,005)	\$42,945
2021	\$100	\$1,200	\$72,000	\$88,511	(\$16,511)	0.00%			(\$91,516)	\$0
2022	\$100	\$1,200	\$72,000	\$84,940	(\$12,940)	0.00%			(\$163,252)	\$58,797
2023	\$100	\$1,200	\$72,000	\$88,363	(\$16,363)	0.00%			(\$299,854)	\$120,239
2024	\$100	\$1,200	\$72,000	\$83,234	(\$11,234)	0.00%			(\$375,355)	\$64,266
2025	\$100	\$1,200	\$72,000	\$84,680	(\$12,680)	0.00%			(\$416,033)	\$27,999
2026	\$100	\$1,200	\$72,000	\$86,360	(\$14,360)	0.00%			(\$609,180)	\$178,786
2027	\$100	\$1,200	\$72,000	\$88,078	(\$16,078)	0.00%			(\$625,258)	\$0
2028	\$100	\$1,200	\$72,000	\$88,835	(\$16,835)	0.00%			(\$713,930)	\$71,837
2029	\$100	\$1,200	\$72,000	\$90,834	(\$18,834)	0.00%	2.25%		(\$896,160)	\$163,395
2030	\$100	\$1,200	\$72,000	\$92,651	(\$20,651)	0.00%	2.25%		(\$995,365)	\$78,555
2031	\$100	\$1,200	\$72,000	\$94,504	(\$22,504)	0.00%	2.25%		(\$1,017,869)	\$0
2032	\$100	\$1,200	\$72,000	\$96,394	(\$24,394)	0.00%	2.25%		(\$1,255,933)	\$213,670
2033	\$100	\$1,200	\$72,000	\$98,322	(\$26,322)	0.00%	2.25%		(\$1,309,838)	\$27,583
2034	\$100	\$1,200	\$72,000	\$100,288	(\$28,288)	0.00%	2.25%		(\$1,390,484)	\$52,358
2035	\$100	\$1,200	\$72,000	\$102,294	(\$30,294)	0.00%	2.25%		(\$1,577,816)	\$157,038
2036	\$100	\$1,200	\$72,000	\$104,340	(\$32,340)	0.00%	2.25%		(\$1,741,533)	\$131,377
2037	\$100	\$1,200	\$72,000	\$106,427	(\$34,427)	0.00%	2.25%		(\$1,796,334)	\$20,374
2038	\$100	\$1,200	\$72,000	\$108,555	(\$36,555)	0.00%	2.25%		(\$1,954,321)	\$121,432
2039	\$100	\$1,200	\$72,000	\$110,726	(\$38,726)	0.00%	2.25%		(\$2,186,706)	\$193,659
2040	\$100	\$1,200	\$72,000	\$112,941	(\$40,941)	0.00%	2.25%		(\$2,252,379)	\$24,732
2041	\$100	\$1,200	\$72,000	\$115,200	(\$43,200)	0.00%	2.25%		(\$2,425,393)	\$129,815
2042	\$100	\$1,200	\$72,000	\$117,504	(\$45,504)	0.00%	2.25%		(\$2,637,720)	\$166,823
2043	\$100	\$1,200	\$72,000	\$119,854	(\$47,854)	0.00%	2.25%		(\$2,821,296)	\$135,722

LELAND MEADOW WATER DISTRICT

Scenario #2: FINANCIAL CALCULATION TO PROVIDE SUFFICIENT FUNDS

Per Association Reserves Capital Plan 8/2018, modified for earlier Replacement of Distribution Lines

Per modified 10 Year Operating Expense Forecast 12/2018

Assumes FEE INCREASE of \$100 / month starting 7/1/19 WITH 2.25% ANNUAL INCREASES

Prepared 12/14/18

Year	Customer Monthly Fee	Individual Annual Fee	Total Fee Revenue	Operating Expenses	Reserve Fund Contribution	Fee inflation	Operating Expense % increase	Interest Income, 1%	Reserve Fund Balance	Capital Spending
2018									\$25,000	
2019	\$150	\$1,800	\$108,000	\$107,400	\$600			\$250	\$20,850	\$5,000
2020	\$200	\$2,400	\$144,000	\$88,910	\$55,090	2.25%		\$209	\$33,203	\$42,945
2021	\$205	\$2,454	\$147,240	\$88,511	\$58,729	2.25%		\$332	\$92,265	\$0
2022	\$209	\$2,509	\$150,553	\$84,940	\$65,613	2.25%		\$923	\$100,004	\$58,797
2023	\$214	\$2,566	\$153,940	\$88,363	\$65,578	2.25%		\$1,000	\$46,342	\$120,239
2024	\$219	\$2,623	\$157,404	\$83,234	\$74,170	2.25%		\$463	\$56,709	\$64,266
2025	\$224	\$2,682	\$160,946	\$84,680	\$76,266	2.25%		\$567	\$105,543	\$27,999
2026	\$229	\$2,743	\$164,567	\$86,360	\$78,207	2.25%		\$1,055	\$6,019	\$178,786
2027	\$234	\$2,804	\$168,270	\$88,078	\$80,191	2.25%		\$60	\$86,271	\$0
2028	\$239	\$2,868	\$172,056	\$88,835	\$83,220	2.25%		\$863	\$98,517	\$71,837
2029	\$244	\$2,932	\$175,927	\$90,834	\$85,093	2.25%	2.25%	\$985	\$21,199	\$163,395
2030	\$250	\$2,998	\$179,885	\$92,651	\$87,234	2.25%	2.25%	\$212	\$30,091	\$78,555
2031	\$255	\$3,066	\$183,933	\$94,504	\$89,429	2.25%	2.25%	\$301	\$119,821	\$0
2032	\$261	\$3,135	\$188,071	\$96,394	\$91,677	2.25%	2.25%	\$1,198	(\$973)	\$213,670
2033	\$267	\$3,205	\$192,303	\$98,322	\$93,981	2.25%	2.25%		\$65,425	\$27,583
2034	\$273	\$3,277	\$196,630	\$100,288	\$96,341	2.25%	2.25%	\$654	\$110,062	\$52,358
2035	\$279	\$3,351	\$201,054	\$102,294	\$98,760	2.25%	2.25%	\$1,101	\$52,884	\$157,038
2036	\$286	\$3,426	\$205,577	\$104,340	\$101,238	2.25%	2.25%	\$529	\$23,274	\$131,377
2037	\$292	\$3,503	\$210,203	\$106,427	\$103,776	2.25%	2.25%	\$233	\$106,909	\$20,374
2038	\$299	\$3,582	\$214,933	\$108,555	\$106,377	2.25%	2.25%	\$1,069	\$92,923	\$121,432
2039	\$305	\$3,663	\$219,769	\$110,726	\$109,042	2.25%	2.25%	\$929	\$9,236	\$193,659
2040	\$312	\$3,745	\$224,713	\$112,941	\$111,772	2.25%	2.25%	\$92	\$96,369	\$24,732
2041	\$319	\$3,829	\$229,769	\$115,200	\$114,570	2.25%	2.25%	\$964	\$82,087	\$129,815
2042	\$326	\$3,916	\$234,939	\$117,504	\$117,436	2.25%	2.25%	\$821	\$33,521	\$166,823
2043	\$334	\$4,004	\$240,225	\$119,854	\$120,372	2.25%	2.25%	\$335	\$18,506	\$135,722