Table 2 DRAFT City of Livingston 2013 Water Rate Study Typical Bill Impacts for Residential and Commercial Customers

Scenario B - Reduced CIP

Customer Type	Current			Calendar Year		
	2013	2014	2015	2016	2017	2018
Metered Residential	1" meter					
Service Charge	\$8.70	\$24.47	\$30.46	\$33.09	\$33.88	\$38.78
Meter Fee	\$1.20	\$2.87	\$2.98	\$3.09	\$3.21	\$3.33
Consumption Charge [1]	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Residential Bill	\$9.90	\$27.34	\$33.44	\$36.18	\$37.09	\$42.11
Flat Rate Residential	\$8.65	\$29.25	\$35.77	\$38.70	\$39.68	\$45.05
Commercial	1" meter					
Service Charge	\$8.70	\$24.47	\$30.46	\$33.09	\$33.88	\$38.78
Meter Fee	\$1.20	\$2.87	\$2.98	\$3.09	\$3.21	\$3.33
Consumption Charge [2]	\$7.00	\$10.94	\$13.71	\$14.80	\$15.04	\$17.26
Total Commercial Bill	\$16.90	\$38.28	\$47.15	\$50.98	\$52.13	\$59.37
Flat Rate Commercial	\$9.90	\$41.43	\$51.03	\$55.17	\$56.42	\$64.25
Source: City of Livingston and HEC.						"typic
[1] Average monthly use of	20,000	gallons.				
[2] Augus as monthly use of	FF 000					

[2] Average monthly use of 55,000 gallons.

Table 8 City of Livingston 2013 Water Rate Study Capital Improvements Plan

	Estimated		Fiscal Year					
Improvement	Cost	Funding Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Well 8	\$2,269,700	TCP Settlement	\$1,900,000	\$369,700	\$0	\$0	\$0	\$(
Well 12	\$0	DWSRF Loan	\$0	\$0	\$0	\$0	\$0	\$(
Well 13	\$1,720,000	DWSRF Loan	\$150,000	\$1,570,000	\$0	\$0	\$0	\$(
Well 14 (pipeline and treatment)	\$1,580,000	TCP Settlement	\$100,000	\$650,000	\$0	\$0	\$830,000	\$(
Well 15	\$0	DWSRF Loan	\$0	\$0	\$0	\$0	\$0	\$(
Well 16 (exploratory)	\$60,000	TCP Settlement	\$60,000	\$0	\$0	\$0	\$0	\$(
Well 17	\$1,760,000	TCP & Grant	\$900,000	\$860,000	\$0	\$0	\$0	\$0
Well 18	\$2,730,000	DWSRF Loan	\$0	\$150,000	\$550,000	\$1,100,000	\$930,000	\$0
SCADA Upgrades	\$60,000	Connection Fees	\$60,000	\$0	\$0	\$0	\$0	\$0
Network / Computer replacements	\$17,680	Rates	\$0	\$17,120	\$560	\$0	\$0	\$0
Forklift	\$8 <i>,</i> 400	Rates	\$0	\$8,400	\$0	\$0	\$0	\$0
Air Compressor	\$12,018	Rates	\$0	\$12,018	\$0	\$0	\$0	\$(
Vehicles	\$38,300	Rates	\$0	\$6,300	\$14,000	\$18,000	\$0	\$0
PLC upgrade	\$30,000	Rates	\$0	\$30,000	\$0	\$0	\$0	\$0
Tank Painting and Protection	\$430,000	Rates	\$0	\$30,000	\$0	\$0	\$0	\$400,000
Total Infrastructure Costs - 2013 \$	\$10,716,098		\$3,170,000	\$3,703,538	\$564,560	\$1,118,000	\$1,760,000	\$400,000
Costs by Funding Source								
Grant (well 17)	\$1,395,000		\$900,000	\$495,000	\$0	\$0	\$0	\$0
Connection Fees	\$60,000		\$60,000	\$0	\$0	\$0	\$0	\$0
DWSRF Loan	\$4,450,000		\$150,000	\$1,720,000	\$550,000	\$1,100,000	\$930,000	\$0
Cash Funded - Rates	\$536,398		\$0	\$103,838	\$14,560	\$18,000	\$0	\$400,000
Cash Funded - TCP Settlement	\$4,274,700		\$2,060,000	\$1,384,700	\$0	\$0	\$830,000	\$0
Total Estimated Costs - 2013 \$'s	\$10,716,098		\$3,170,000	\$3,703,538	\$564,560	\$1,118,000	\$1,760,000	\$400,000
Total Infrastructure Costs in Future \$	[1]							
CDBG Grant Well 17 [2]	\$1,395,000		\$900,000	\$495,000	\$0	\$0	\$0	\$(
Connection Fees	\$60,000		\$60,000	\$0	\$0	\$0	\$0	\$(
DWSRF Loan	\$4,858,000		\$150,000	\$1,804,000	\$593,000	\$1,231,000	\$1,080,000	\$(
Cash Funded - Rates	\$626,000		\$0	\$108,000	\$16,000	\$20,000	\$0	\$482,00
Cash Funded - TCP Settlement	\$4,462,000		\$2,060,000	\$1,438,000	\$0	\$0	\$964,000	\$0
				_			_	-

\$3,170,000

\$3,845,000

\$609,000

3.82%

\$1,251,000 \$2,044,000

Source: City of Livingston and HEC.

Total Estimated Costs - Future \$

[1] Cost estimates have been escalated by the past 5-year California Construction Index annual increase of [2] Fixed grant amount does not escalate.

\$11,401,000

"cip"

\$482,000

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Scenario B - Reduced CIP

Table 15 City of Livingston 2013 Water Rate Study Projected Revenue Requirement

DRAFT

Scenario B - Reduced CIP

		Fiscal Year								
Revenues and		Recommended	1	2	3	4	5			
Expenses	Assumptions	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19			
Operating Expenses										
Personnel	6.0%	\$700,814	\$742,863	\$787,434	\$834,680	\$884,761	\$937,847			
Utilities	5.0%	\$593,750	\$623,438	\$654,609	\$687,340	\$721,707	\$757,792			
Contracted Services	4.0%	\$162,000	\$168,480	\$175,219	\$182,228	\$189,517	\$197,09			
Equipment and Repairs [1]	4.0%	\$115,000	\$119,600	\$124,384	\$129,359	\$134,534	\$139,91			
Wells Media and Chemical Costs	4.0%	\$0	\$78,000	\$573,248	\$596,178	\$620,025	\$924,65			
Insurance	4.0%	\$30,000	\$31,200	\$32,448	\$33,746	\$35,096	\$36,50			
Supplies	4.0%	\$56,200	\$58,448	\$60,786	\$63,217	\$65,746	\$68,37			
Meter Replacement Program	3.8%	\$34,570	\$145,112	\$152,369	\$159,970	\$169,317	\$179,14			
Total Operating Expenses		\$1,692,333	\$1,967,140	\$2,560,498	\$2,686,719	\$2,820,703	\$3,241,32			
Debt Service										
1977 FHA Loan		\$18,102	\$18,102	\$18,102	\$18,102	\$16,969	\$			
1994 State Water Drinking Bond		\$59,139	\$0	\$0	\$0	\$0	\$			
DWSRF Loan 1		\$0	\$86,000	\$86,000	\$86,000	\$86,000	\$86,00			
DWSRF Loan 2		\$0	\$0	\$0	\$136,500	\$136,500	\$136,50			
Total Debt Service		\$77,241	\$104,102	\$104,102	\$240,602	\$239,469	\$222,50			
Capital Expenditures Greater than Rel	habilitation [1]	\$0	\$108,000	\$16,000	\$20,000	\$0	\$(
System Rehabilitation		\$0	\$0	\$0	\$0	\$0	\$			
Emergency Repair Fund		\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000			
Operating Reserves		\$0	\$0	\$0	\$0	\$0	\$100,000			
SUBTOTAL Annual Cost		\$1,769,574	\$2,279,242	\$2,780,600	\$3,047,321	\$3,160,171	\$3,663,82			
Credits										
Developer Fees	[2]	\$0	\$0	\$0	\$0	\$0	\$0			
Meter Installation Fees	[2]	\$0	\$0	\$0	\$0	\$0	\$			
Penalty Fees	1.0% of sales	\$10,400	\$20,800	\$26,200	\$28,800	\$29,800	\$34,80			
Interest Income		\$29,700	\$50,000	\$4,000	\$4,000	\$4,000	\$4,000			
TCP Settlement Revenue	[3]	\$0	\$0	\$0	\$0	\$0	\$0			
Gain (Sale of Assets)	[4]	\$600	\$0	\$0	\$0	\$0	\$			
Other Revenues	constant	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,50			
Meter Replacement Program	3.8%	\$34,570	\$145,112	\$152,369	\$159,970	\$169,317	\$179,14			
Total Credits		\$77,770	\$218,412	\$185,069	\$195,270	\$205,617	\$220,444			
	Est. 2013									
REVENUE REQUIREMENT	\$1,332,960	\$1,691,804	\$2,060,830	\$2,595,531	\$2,852,051	\$2,954,554	\$3,443,384			
Increase (Decrease) from Prior Year			\$727,870	\$534,701	\$256,520	\$102,504	\$488,829			
Annual Percentage Change			54.6%	25.9%	9.9%	3.6%	16.59			

Source: HEC.

[1] A portion of the tank cost in year 5 is funded with reserves.

[2] Excluded; new development fee revenues should be monitored for potential to reduce existing rate payer burden and/or buydown of debt service.

[3] TCP Settlement revenue was a non-recurring payment to the City.

[4] None anticipated.

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Table 20 City of Livingston 2013 Water Rate Study Projected Five-year Water Fund Cash Flow

DRAFT Scenario B - Reduced

"flow"

	Cost	Estimate	Fiscal Year						
Revenues and	Escalation	Fiscal Year		1	2	3	4	5	
Expenses	Assumptions	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
	Population (Growth Rate [1]	1.2%	1.2%	1.2%	2.0%	2.0%	2.0%	
	New	Rates Effective	3/1/2014	1/1/2015	1/1/2016	1/1/2017	1/1/2018		
Operating Revenues									
Water Sales July through Decem	ber		\$666,480	\$1,030,415	\$1,297,765	\$1,426,025	\$1,477,277	\$1,721,692	
Water Sales January through Jun	ie		\$848,448	\$1,297,765	\$1,426,025	\$1,477,277	\$1,721,692	\$1,721,692	
Total Water Sales		\$1,332,960	\$1,514,927	\$2,328,180	\$2,723,791	\$2,903,303	\$3,198,969	\$3,443,384	
Developer Fees	[2]	\$85,907	\$0	\$0	\$0	\$0	\$0	\$0	
Meter Installation Fees	[2]	\$75	\$0	\$0	\$0	\$0	\$0	\$0	
Penalty Fees	1.0% of sales	\$31,928	\$10,400	\$20,800	\$26,200	\$28,800	\$29,800	\$34,800	
Interest Income		\$29,706	\$29,700	\$50,000	\$4,000	\$4,000	\$4,000	\$4,000	
Gain (Sale of Assets)		\$0	\$600	\$0	\$0	\$0	\$0	\$0	
Other Revenues	constant	\$7,205	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	
Meter Replacement Program	3.8%	\$0	\$34,570	\$145,112	\$152,369	\$159,970	\$169,317	\$179,144	
Total Operating Revenues		\$1,487,782	\$1,592,697	\$2,546,592	\$2,908,860	\$3,098,573	\$3,404,586	\$3,663,828	
Operating Expenses									
Personnel	6.0%	\$508,902	\$515,720	\$742,863	\$787,434	\$834,680	\$884,761	\$937,847	
Utilities	5.0%	\$510,901	\$475,000	\$623,438	\$654,609	\$687,340	\$721,707	\$757,792	
Contracted Services	4.0%	\$92,528	\$155,200	\$168,480	\$175,219	\$182,228	\$189,517	\$197,098	
Equipment and Repairs	4.0%	\$130,062	\$115,000	\$119,600	\$124,384	\$129,359	\$134,534	\$139,915	
Wells Media and Chemical Costs	4.0%	\$0	\$0	\$78,000	\$573,248	\$596,178	\$620,025	\$924,656	
Insurance	4.0%	\$30,222	\$29,350	\$31,200	\$32,448	\$33,746	\$35,096	\$36,500	
Supplies	4.0%	\$41,947	\$58,500	\$58,448	\$60,786	\$63,217	\$65,746	\$68,376	
Meter Replacement Program	3.8%	\$0	\$34,570	\$145,112	\$152,369	\$159,970	\$169,317	\$179,144	
Total Operating Expenses		\$1,314,563	\$1,383,340	\$1,967,140	\$2,560,498	\$2,686,719	\$2,820,703	\$3,241,328	
Operating Revenue before Capital									
Improvements and Debt Service		\$173,219	\$209,357	\$579,452	\$348,362	\$411,854	\$583,883	\$422,500	
Debt Service									
1977 FHA Loan		\$18,102	\$18,102	\$18,102	\$18,102	\$18,102	\$16,969	\$0	
1994 State Water Drinking Bond		\$59,139	\$59,139	\$0	\$0	\$0	\$0	\$0	
DWSRF Loan 1		\$0	\$0	\$86,000	\$86,000	\$86,000	\$86,000	\$86,000	
DWSRF Loan 2		\$0	\$0	\$0	\$0	\$136,500	\$136,500	\$136,500	
Total Debt Service		\$77,241	\$77,241	\$104,102	\$104,102	\$240,602	\$239,469	\$222,500	
Debt Service Coverage [3]		2.24	2.71	5.57	3.35	1.71	2.44	1.90	
Capital Expenditures (non-TCP funded	i)	\$1,738,836	\$60,000	\$108,000	\$16,000	\$20,000	\$0	\$482,000	
Net Revenues (Deficit)		(\$1,642,857)	\$72,117	\$367,350	\$228,260	\$151,252	\$344,415	(\$282,000	
Beginning Fund Balance (Operating a Add Back System Rehabilitation	nd Capital)	\$1,866,422 \$0	\$223,565 \$0	\$295,681 \$0	\$663,032 \$0	\$891,292 \$0	\$1,042,544 \$0	\$1,386,958 \$0	
Net Revenues (Deficit)		,\$0 (\$1,642,857)	ېن 72,117	\$367,350	\$0 \$228,260	\$151,252	\$344,415	(\$282,000	
End Fund Balance		\$ 223,56 5	\$295,681	\$663,032	\$891,292	\$1,042,544	\$1,386,958	\$1,104,958	
Minimum Operating Reserves [4]	4 months expenses	\$456,288	\$479,213	\$673,813	\$871,599	\$913,673	\$958,334	\$1,098,543	
TCP Settlement Funds		\$2,424,686	\$2,674,686	\$2,114,686	\$5,502,000	\$5,502,000	\$5,502,000	\$4,538,000	
Matured Investments		\$2,424,686 \$250,000	\$2,674,686 \$1,500,000	\$2,114,080 \$4,825,314	\$5,502,000 \$0	\$5,502,000 \$0	\$5,502,000 \$0		
Use of Cash		\$250,000 \$0	\$1,500,000 (\$2,060,000)	\$4,825,314 (\$1,438,000)	\$0 \$0	\$0 \$0	ېں (\$964,000)	\$C \$C	
TCP Loan		\$0 \$0	(\$2,060,000) \$0	(\$1,438,000) \$0	\$0 \$0	\$0 \$0		şı \$(
		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$U \$0	
Loan Repayments End Cash Balance TCP Funds		ېں \$2,674,686	ېن \$2,114,686	ېں \$5,502,000	ېن \$5,502,000	ېں \$5,502,000	ېں \$4,538,000	ېر \$4,538,000	
e de la compañía de l		40.000.00-							
Combined Balance Water Funds		\$2,898,251	\$2,410,367	\$6,165,032	\$6,393,292	\$6,544,544	\$5,924,958	\$5,642,958	

Source: HEC.

[1] Growth rate for first three years based on Dep't of Finance estimates of growth since 2010; following years of growth based on historical average from 1990 to 2012.

[2] No new development fee revenue included.

[3] Coverage of 1.15x required to issue future debt, per the DWR Loan.

[4] Minimum reserves include the Reserve Fund for the FHA loan (\$18,100) and 4 months of expenses

Table 25City of Livingston 2013 Water Rate Study2014 Rates Bill Impacts on the City's Largest Industrial Customers

Customer	Calculated Bills with Current Rates	Calculated Bills with Proposed 2014 Rates	Increased (Decrease) Annual Bills
Foster Farms	Uses consun	nption Jul 2012 throug	1h Jun 2013
Industrial Account	\$851,222	\$863,441	\$12,219
Commercial Account	\$144	\$367	\$223
Irrigation Account	\$2,613	\$5,595	\$2,982
Total	\$853,979	\$869,403	\$15,424
Fresenius			
Industrial Account	\$7,351	\$11,390	\$4,039

Source: HEC

"ind bill"