

City of Sierra Madre Agenda Report

Gene Goss, Mayor Rachelle Arizmendi, Mayor Pro Tem John Capoccia, Council Member Denise Delmar, Council Member John Harabedian, Council Member

Melinda Carrillo, City Clerk Michael Amerio, City Treasurer

TO:	Honorable Mayor	and Members	of the	City Council
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FROM:	Elaine I. Aguilar, City Manager	ØØ

INITIATED BY: Bruce Inman, Director of Public Works Marcie Medina, Finance Director

DATE: May 24, 2016

SUBJECT: Water System Financing Options and Monthly Utility Billing

SUMMARY

This staff report considers financing options for the water system. Included are debt financing options, such as Bonds and Loans. Also, included are cost savings due to change in operations and public private partnerships.

ANALYSIS

Current Status of Water Operation

Capital Needs of the Water System:

At the October 2015 Strategic Plan meeting, under the three-year goal of Updating our Outdated Infrastructure, the City Council directed staff to "Recommend to the City Council for action a list of 9 infrastructure areas to be updated in priority order, including known funding sources. At the January 12, 2016 City Council meeting a report was presented providing the information requested. The report's #1 priority was the Water Distribution System.

Staff presented a list of the top 20 high maintenance water mains in need of replacement, see Table A below. The shaded rows 1A, 1B, 2, 3, 6, and 7 have been included in the FY 2015-16 CIP by prior Council action. From that top 20 list, 15 remain to be addressed, at an estimated combined cost of \$2,065,360. Replacing the top 20 high maintenance mains will leave 91 segments in the distribution system that are 75 years old or older, with an estimated total replacement cost of \$11,177,425. The total amount needed for infrastructure replacement that has not been funded is estimated at \$13,242,800.

FOR CITY COUNCIL AGENDA

Table A

1A	Skyland/Idlehour from Orange to Orange (1930)	\$ 406,680
1B	Canyon Crest from Idle Hour to Orange (1930)	75,960
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	Total	\$3,258,470

Current Utility Billing System

Under the current drought conditions, the City has instituted multiple water conservation programs. One such measure is the implementation of water conservation goals, a mandatory 30% reduction in customers' water use over that of FY 12-13. A concern over that program which is commonly heard by the City Council and staff is that with the current bi-monthly billing system, the customers are not able to accurately or conveniently track their water use in real time; their first indication that their water use is too high comes on their water bill, long after the water has been used.

With bi-monthly water billing it is impossible to determine the amount of non-revenue water (leakage) that is being produced. While the amount of water going into the water distribution system is being accurately measured and tracked, and the amount of water used is also accurately measured and tracked, the production data and consumption data cannot be accurately correlated in order to determine the daily, monthly or even annual difference between the two datasets. One solution that has been proposed in order to provide correlation between production and consumption and to provide customers more timely water consumption information is to go to monthly water billing.

The City's water billing system/procedure is currently provided by an available staff of one Administrative Clerk in City Hall and six Public Works water department field staff. This staff provides billing activities on a monthly basis but provides that service to only one-half the city each month. The east side of the City (East of Baldwin Avenue) is billed odd-numbered months; the west side is billed even-numbered months. The billing process continues to be evaluated by staff and adjusted when new efficiencies are realized. The current billing process and the hours spent each month are described as follows:

- 1. One-two days before the second Tuesday of each month water staff and the water billing administrative clerk coordinate to ensure all meter change-outs have been entered into the handheld meter reading data recorders (handhelds)
- 2. The water billing process begins on the second Tuesday of each month when the handhelds are loaded for reading.
- 3. Meter reading takes three men 1-2 days to complete all the reading routes.
- 4. Water billing administrative clerk prepares a billing packet in the Tyler system.
- 5. Handhelds are downloaded Tuesday or Wednesday and an exception report is generated by water department noting re-reads, high exceptions, low or no consumption, and any field notes taken by the meter reader.
- 6. Field staff is provided copies of the first exception report, which they then use to:
 - a. Repair leaking, stopped or damaged meters; then
 - b. Verify high reads and low consumption, checking for leaks and stuck meters
 - c. This takes 2 men 1 day to complete
 - d. Field staff meets with water billing administrative clerk and provides clerk with register sheets noting all of the corrections made in the raw data from the initial meter reading.
- 7. Water billing staff processes the raw handheld data which creates an error list, then utilizes the field staff register lists to correct the raw data.
- 8. If there are remaining errors or suspected errors, the administrative clerk generates a second exception list.
- 9. Field staff utilizes the second exception list to make additional re-reads, inspections and/or repairs. This takes 1 man 1 day.
- 10. Once the second exceptions report is completed, the handheld data is turned over for billing.
- 11. The billing process is completed. Billing is reviewed by Account Manager.
- 12. Bills are printed and prepared for mailing house pick-up.

Altogether, the administrative clerk spends about 5 hours on this process beginning to end. Water Department field staff spend approximately 81 man-hours. This is for the billing process alone. It does not include handling calls and service orders resulting from billing, issuance of late notices, posting of 24 hour notices, shut-offs, and the overtime hours typically required for turning water back on after shutoffs. In order to go to a monthly water billing program in which all city water customers are billed at the same time for the same use period, utilizing the current manual meter reading process, the amount of staff time described above would double. This would severely impact Public Works water department operations, requiring all of the field staff to concentrate on meter reading for 1-2 days a month. First exception report follow-up would take 4 men two days, and second exception list corrections would take two men one day. During these periods, the staff members involved in the water billing operations are unavailable for emergency operations (leak repair) if billing is to be kept on schedule.

Switching to monthly billing with the current metering system would add a significant workload and cost to the existing billing process. However, monthly utility billing would work well with implementation of AMI. Advanced Metering Infrastructure would reduce the cost of transitioning to a monthly billing system, would streamline the process, and provide for timely & accurate data availability to the customer and the City.

Current Meter Situation:

The water operations use a combination of meter reading methods, including touchpad, radio reading and primarily manual/visual inspection for meter reading to collect data for utility billing on a bi-monthly basis. On average the City spends about \$75,000 a year in meter replacement, and about 70% of the meters are over 15 years old and need to be replaced. As water meters age, they lose their accuracy which means meters to be replaced are only about 92% accurate.

As a part of the infrastructure needs, the City has an outdated meter reading system with over 70% of the meters in need of replacement. The meter system does not provide timely information that is of utmost importance in meeting the state conservation requirements. Furthermore, meters lose their accuracy as they age which translates to loss of revenues.

Water Rates:

The water rates implemented as a result of the 2013 Water & Wastewater Rate Study have not increased water revenues as originally projected. For Fiscal Year 2015-2016, Water Revenues from charges for services excluding penalties have decreased from prior year. The rate increase has not kept up with the decrease in water consumption due to water conservation.

The rate study is not meeting its objectives and not meeting its targets. The study did not account for current water conservation, and is not generating the revenues needed to: ensure capital replacement and maintenance, provide adequate reserves, meet debt service coverage requirements and improve the financial health of the enterprise. A new rate study is needed in order to properly meet the financial objectives of the Water operation.

Debt Obligations:

The Water Operation has two outstanding Bonds, the 1998-A Water Revenue Refunding Bonds with an outstanding balance of \$1,415,000 and the 2003 Water Revenue Parity Bonds with an outstanding balance of \$6,750,000. The total bond debt outstanding is \$8,165,000 with an annual debt service payment of \$850,000.

Financial Options

City staff has conducted research and met with various vendors in order to explore ways of financing the various needs of the Water Fund. The options vary from debt financing to public private partnerships. Some of the options can work alone or in conjunction with other options.

Debt Financing:

The current low interest environment provides the City with the opportunity to refund current bond debt at significant savings and to issue additional debt to provide funding for infrastructure needs. There are two debt financing options, bonds or a loan.

Bonds:

- Pro's:
 - Larger amount of capital financing, up to \$20,975,000. Sufficient to refinance current bond debt, purchase an AMI system and fund the \$13.2 million of identified capital projects. 30 year term provides for a longer repayment period and therefore a larger amount of financing.
- Con's:
 - High cost of issuance. Total cost of issuing bonds is estimated at \$723,689 (\$210,000 cost of issuance, \$209,750 underwriter's discount, and \$\$303,939 bond insurance).
 - Higher interest cost overtime. Estimated average rate of 4.87% (rate may vary based on market conditions). Semi-Annual payments of debt service. 30 year term results higher interest costs.
 - Higher cost of over the term of the bonds: trustee fees, annual bond disclosure, and compliance costs.

Loan:

- Pro's:
 - Loan proceeds up to \$18,769,522, sufficient to refinance current bond debt, purchase an AMI system and fund a large portion of identified capital projects.
 - Low cost of issuance. Total cost of loan processing \$5,000.
 - Low interest cost over the term of the loan. Estimated rate of 3.85% fixed over life of loan (rate may vary based on market conditions). Quarterly payments provide for savings due to faster payment of interest and principal.

- Con's:
 - Lower amount of capital financing available, due to higher debt service payments due to shorter repayment period, 20 year term.

Debt financing is an option that would work well together with the acquisition of an Advanced Metering Infrastructure System. This would also provide for additional monies available to fund a significant portion of the water main replacement needs. The refinancing of existing debt would result in cost savings that can then be reinvested into the water operation. Furthermore, the restructuring of the existing debt would release the City from current debt coverage restrictions and allow the City to be in compliance with new terms.

Advanced Metering Infrastructure (AMI):

Advanced Metering Infrastructure (AMI) has been seen as an alternative to the doubling up on staff time to do monthly billing. In fact, with an AMI system's ability to provide almost real-time water use data, this alternative is superior to monthly billing in that it can provide a customer with high use notifications or leak alerts at any time during a billing period. AMI would free field staff from almost all meter reading functions, allowing for those staff members more time in maintenance of the infrastructure and in customer service at City Hall.

This report considers standard city-hosted AMI only. Cloud based AMI offerings are not proposed at this time due to their high implementation costs.

The City's water system would greatly benefit from a new metering system. Advance Metering Infrastructure (AMI) is not only a purchase of new meters. AMI goes beyond reading meters quickly and accurately, it provides for timely two-way communications between the utility system and metering endpoints.

Benefits of AMI:

- Financial Benefits:
 - Improved meter accuracy should increase City's consumptive water revenue. Estimated increase in billings of \$135,000 a year.
 - Cost savings due to operational efficiencies estimated at \$35,000 per year. Elimination of manual reads and re-reads. Virtual turnons & turn-offs. Reduction in customer service calls.
- Non-Financial Benefits:
 - Advance leak detection.
 - Improved water conservation.
 - Enhanced customer service.
 - Consumption behavior available online.

 Other increased operational efficiencies. Elimination of human error in meter-reading. Availability of timely & accurate data for staff to work with.

The cost of an AMI system is about \$1,365,000. With revenue recovery and cost savings of about \$180,000 a year, the system would pay for itself in about 7.6 years and provide for ongoing efficiencies and cost savings for the life of the system, 20 years.

Ferguson Waterworks/ Equarius Waterworks Proposal.

Included with this staff report is a conceptual proposal from Equarius Waterworks for the installation of AMI citywide. This is a basic approach to AMI installation, without the significant operational changes associated with the other two AMI-related proposals included with this report.

Utility Partnership - FATHOM:

FATHOM Solutions offers an integrated Advanced Metering Infrastructure (AMI) system & Customer Information System (CIS) with a Utility Billing Solution. Below is a comparison of the City's cost of service for monthly billing purchasing AMI to the monthly billing costs with FATHOM.

City Monthly Billing Cost with pur	chas	e of AM	l		
	Per	Meter			
Description	Per	Month		Annual	
Hard Costs	\$	8.98	\$	402,921	
Revenue Loss		8.58		385,395	
Adjustment for monthly bill printing & Postage		0.29	1997 - San - 6 5	12,981	
AMI Equipment Cost		2.90		130,190	
Total Cost of Service	\$	20.75	\$	931,487	
Monthly Billing Cost with FA	THC	M			
	Per	Meter			
Description	Per	Month	Annual		
FATHOM Full Bundle:					
Managed Services and SaaS	\$	4.37	\$	196,178	
Meters and AMI Infrastructure		5.27		236,734	
Total FATHOM Full Bundle		9.64		432,912	
Retained Costs:				nun 1., 2., 2., 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	
59% Labor Costs Retained by City	\$	4.77	\$	214,320	
60% Unrecoverable Water Loss		4.85		217,557	
Total Retained Costs		9.62		431,877	
Total Cost of Service with FATHOM	\$	19.26	Ś	864,789	
POTENTIAL SAVINGS	\$	1.49	\$	66,698	

The City has the option of obtaining the Managed billing and customer service and purchasing the AMI system independently or contract for the full bundle of FATHOM services. However, the FATHOM solution can only be implemented with an AMI system.

Public-Public Partnership – Veolia:

This option provides for a partnership for management of the water and waste water systems through a newly formed entity, a joint powers authority (JPA) or other quasi-public structure.

The partnership would work as follows:

- A new entity is formed which will act on behalf of the City.
- The Water & Sewer Systems are leased to a third party, the newly formed entity, under a long-term agreement (usually 30 years)
- The new entity is responsible for the system operation and maintenance.
 - The new entity operates under a contract which outlines performance standards agreed to by the City. Compliance is monitored by the City.
 - The new entity performance is supported by an operational contract with Veolia.
 - The new entity collects rate payments and funds operations and usually capital.
- The new entity makes payments to the City's General Fund.
 - The new entity can make upfront payments to the City based on a portion of future savings.
 - The new entity can also make annual payments during the life of the contract to reflect: 1) the value of the lease agreed in the contract and 2) growth in the system.
- Transparency to City and Community.
 - Performance on operations and environmental compliance is reported to the City according to agreed metrics.
 - The City or designated Board of Directors participate in performance monitoring and establish rates.

This solution provides for savings from outsourcing the management and maintenance of the water and wastewater systems. The savings are realized through operational and administrative cost savings, capital program and debt management, and revenue enhancement from meter management and energy generation.

An estimated \$750 thousand of cost reductions and other savings could result in an upfront payment of about \$7 million and an annual lease payment of \$300 thousand to the City.

Veolia has recently entered into this type of arrangement with the nearby City of Rialto. Rialto is using a 30-year public-private concession model to strengthen the city's financial position and improve infrastructure services. As part of the concession, the City of Rialto and the Rialto Utility Authority created Rialto Water Services (RWS).

Under the RWS concession, the City retains full possession of its water and wastewater systems, retains all water rights and supply, and possesses the rate-setting authority associated with those facilities. RWS provides financial backing, oversight and concession services for the life of the agreement. RWS hired Veolia to manage the city's water and wastewater systems, provide billing and customer service, and oversee a \$41 million capital improvement program to upgrade/replace aging facilities. This long-planned upgrade to the infrastructure introduces cost and energy efficiencies for the City, seismic retrofits, and improved water supply and wastewater capacity.

The concession generates annual lease payments to the City, in addition to a \$35 million upfront payment committed to key jobs-creating economic development projects of the City. The concession can be seen as an important and innovative solution to aging infrastructure.

Veolia has only limited competition in this field, with French firm Suez Environment as the only other firm found to offer these services.

FISCAL IMPACT

There is no financial impact from this action.

PUBLIC NOTICE PROCESS

This item has been noticed though the regular agenda notification process. Copies of the report are available via the City's website at www.cityofsierramadre.com, at the City Hall public counter, and the Sierra Madre Public Library.

RECOMMENDATION

Staff recommends the City obtain 20-year loan financing to: refund the current outstanding bond debt; purchase an AMI system and fund identified water infrastructure in priority order.

ATTACHMENTS

- Exhibit A Review of September 2012 Infrastructure Report.
- Exhibit B Bond Financing Presentation to the City of Sierra Madre
- Exhibit C Loan Financing Debt Service Schedule
- Exhibit D Ferguson/Equarius City of Sierra Madre and AMI Investment
- Exhibit E FATHOM A Partnership Opportunity with City of Sierra Madre, California
- Exhibit F Veolia Sierra Madre Water and Sewer "Public-Public Partnership"
- Exhibit G September 24, 2013 Staff Report recommending purchase of AMI System

Exhibit A



City of Sierra Madre Agenda Report

John Capoccia Mayor Gene Goss, Mayor Pro Tem Rachelle Arizmendi, Council Member Denise Delmar, Council Member John Harabedian, Council Member

Nancy Shollenberger, City Clerk Richard Mays, City Treasurer

SUBJECT:	REVIEW OF SEPTEMBER 2012 INFRASTRUCTURE REPORT (October 2015 Strategic Plan Item)
DATE:	January 12, 2016
INITIATED BY:	Bruce Inman, Director of Public Works
FROM:	Elaine I. Aguilar, City Manager
TO:	Honorable Mayor Capoccia and Members of the City Council

SUMMARY

Staff recommends that the City Council direct staff to continue with the implementation of street, sewer, and water improvement projects as provided for in the FY 2015-16 budget and in previous Council direction.

ANALYSIS

At the October 2015 Strategic Planning retreat, under the three-year goal of Updating our Outdated Infrastructure, the City Council directed staff to "Recommend to the City Council for action a list of 9 infrastructure areas to be updated in priority order, including known funding sources." This report, based on the September 25, 2012 Sierra Madre State of the Infrastructure report to City Council identifies and prioritizes 9 infrastructure areas which should be addressed in the near future.

Priority 1 – Water Distribution System

In light of the significant increase in distribution system leakage since 2012, repairs and replacement of distribution system components has swapped places on the priority list with Water Supply to become the highest priority.

The City's water distribution system is comprised of 328 one-block segments of water main totaling about 214,100 liner feet. Of that total, 104 segments (58,600 lf) were constructed prior to 1940. Some of those segments are on the list of high maintenance mains, however, there are 13 additional segments totaling 13,500 linear feet on the high maintenance list that were built since 1940, some as recently as 1963.

On October 19th, staff presented a list of the top 20 high maintenance water mains for prioritization of replacement. Table A below is updated from the similar table in the

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10/129 staff report. The shaded rows 1A, 1B, 2, 3, 6, and 7 have been included in the FY 2015-16 CIP by prior Council action. From that top 20 list, 15 remain to be addressed, at an estimated combined cost of \$2,065,360.

Table A		
1A	Canyon Crost/Skyland/Idlehour from Orange to Orange (1930)	\$ 406,680
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20		125,340
	Total	\$3,258,470

Replacing the top 20 high maintenance mains will leave 91 segments in the distribution system that are 75 years old or older, with an estimated total replacement cost of \$11,177,425.

Priority 2 – Water Supply

In spite of El Nino conditions, California's ongoing drought and concerns about sustainable water supplies remain critical. The City has undergone two years of strict reliance on the direct use of imported water, with far less than satisfactory results. While at this time the imported water is being used for groundwater recharge to replace that which the City is producing from its wells, this process is costly, at more than three times the City's cost to simply pump from its wells and rely on groundwater recharge.

One effort to improve the City's water supply is already in the design stages with the Los Angeles County Department of Public Works and is expected to begin construction in late 2016. This is the Santa Anita Headworks/Diversion Structure that will improve the capture and diversion of water released from Santa Anita Dam to Sierra Madre's spreading grounds. The City made the first of its two \$450,470 payments to the County for the project in FY 2014-15, with the final installment delayed until FY 2016-17 to preserve funding for water main replacements this fiscal year.

Staff is in discussions with the City of Arcadia regarding the potential for developing a joint use well agreement under which Sierra Madre could access its imported water from the Main San Gabriel Basin via Arcadia's production and distribution system. This would reduce the cost of purchasing the water via MWD by 50 percent, however the savings would be offset by San Gabriel Basin Watermaster fees and Arcadia's fees for production, treatment and pumping the water to Sierra Madre.

In addition, page 17 of the attached report notes an option for the construction of the City's own well in the Main San Gabriel Basin and a pipeline connecting the well to Sierra Madre. The cost of that option is estimated at \$6,441,065. The City sent a letter in march of 2013 to the San Gabriel Valley Municipal Water District requesting their assistance with such a project, there has been no movement towards initiating the project. Both SGVMWD Director Tom Love and general Manager Darin Kasamoto have expressed support for the project and City staff has repeatedly brought the matter up at SGVMWD Strategic Planning meetings.

Priority 3 - Storm Drain/NPDES/EWMP

While compliance with the current Los Angeles regional NPDES permit is not a popular topic, it is nevertheless should be considered a high priority as good faith effort towards compliance and as a potential method to diversify the City's water resources and as a potential component of a program to improve the city's streets and streetscapes at the same time.

To the extent possible, a green street component should be included in the FY 2015-16 street improvement project. This could include modifications to sidewalks and parkway tree plantings.

Priority 4 - Streets

The 2012 report noted that the City's Pavement Condition Index (PCI) of 69.4 was slightly better than the State average PCI of 66 and the L.A. region at 62.4. However the report further noted that these PCI levels should be viewed as a warning that increased costs lie ahead if adequate pavement management efforts are not soon implemented. Recent work done on South Michillinda, Sierra Madre Boulevard and South Baldwin. Have improved the PCI value on the City's arterial streets to about 75. Local street PCI has not improved; pavement damage due to water system leaks and repairs, as well as normal wear and tear have negated any improvement in average PCI

that has been gained by street repairs done since the last Engineering report was done in 2013, the next update will be required in 2016.

The FY 2015-16 budget provides limited funding for street repairs. One hundred thousand is set aside from Proposition C funds for street resurfacing; these funds can only be used for re-paving (not slurry seal) on streets utilized by scheduled transit services. Inasmuch as the City's streets which are used by Foothill Transit have all been paved very recently, use of the Prop C funds will be limited to use on streets on the City's Round-a-Bout service. In addition to the Prop C funding, the City Council has previously set aside a one-time allocation of \$404,000 in general funds for street resurfacing. That sum is included in the FY 2015-16 budget. Beyond \$510 thousand proposed in the FY2016-17 budget fiscal year, there are no further funds programmed in the CIP for street repair, although the estimated cost for streets citywide currently exceeds \$5.5 million.

The streets proposed for repair in FY 2015-16 are:

Skyland Drive, Idle Hour Lane, & portion of Canyon CrestGeneral FundEstimated Cost\$316,455West Grandview, Michillinda Avenue to Jameson CourtCourt Prop C and General FundEstimated Cost\$181,930Estimated project total\$498,385

Street repairs are funded through the use of Gas Tax, or more recently Highway User Taxes (HUTA), Measure R funds, Proposition C funds, federal STP-L funds, and general funds. For FY 15-16 projected revenues for the three primary sources of street maintenance funding are as follows:

Gas Tax/HUTA	\$241,859
Prop C	\$166,170
Measure R	\$124,629
STP-L	\$32,900

Under current general fund limitations, a large portion of Public Works operational budget is taken from Gas Tax/HUTA, leaving only prop C, Measure R, and STP-L funds for capital projects. STP-L funds are not used annually, as their use is extremely limited and the high level of administrative effort to get projects approved and costs reimbursed via Caltrans makes small projects (±\$33,000) unattractive to contractors. Staff therefore allows annual allocations to accrue into larger amounts to make more contractor-attractive projects, or has been done in the past, the City sells the funds to the County for street funds that may be used at the City's sole discretion.

Priority 5 – Trees

The City has an inventory of approximately 5200 trees in its parks, city properties and street parkways. According to the International Society of Arboriculture most trees should be trimmed every 3-5 years.

Environmental Fund revenue is projected to be \$88,971 for FY 15-16. The funds are derived from franchise fees from Athens Services and revenue received as a portion of the proceeds of Athens' sale of recyclable materials collected from Sierra Madre.

The FY 15-16 Environmental Fund budget provides \$10,000 for tree removals and \$41,000 for tree maintenance (trimming). The City has been utilizing West Coast Arborists for a number of years based on "piggybacking" on other cities bid processes. The current cost per tree for WCA grid trimming is \$42.30 per tree. Grid trimming describes the contractor coming in and trimming every tree within a staff-generated grid covering a portion of the city. All trees in the grid are trimmed for the single specified cost, regardless of size or specie. Indications from WCA are that the cost will go up in 2016.

The FY 2015-16 budget provides \$41,000 for grid trimming and \$10,000 for tree removals. A 5-year interval grid trimming program would cost \$44,000; a three year program \$73,350. With the funding in the current budget if tree removals are kept to a minimum, the funding allocated for tree work could be used to carry out a 5-year scaled grid trimming program this fiscal year. This will depend as well on whether or not WCA raises its grid-trimming rate before we can get the trimming done.

Priority 6 - Sidewalks

In February 2015 the City Council adopted a Sidewalk Master Plan. Since that time sidewalk replacements have been made through the ongoing Sidewalk Partnership Program and temporary repairs are made when sidewalk defects are identified through inspection.

Sidewalk installation and repair funding is derived from Transportation Development Act of 1971, a state measure to assist in the implementation of transit and pedestrian programs and projects. Sierra Madre receives about \$7,000 per year from this funding source. The funds are typically used for the purchase of sidewalk replacement and repair materials. This year's capital funding includes an accumulated \$23,125 that could be utilized for a sidewalk infill project if so directed by Council. The top priority for installation of new sidewalk would be the south side of Esperanza Avenue, as described in option 2b(1) of the Sidewalk Master Plan.

Staff proposes to utilize the funding for materials purchase for replacement of existing damaged sidewalk in locations where the repairs can be done without removing or seriously harming parkway trees. Under this recommendation, staff will utilize the inventory provided in the Sidewalk Master Plan to identify the locations to be addressed

and will then undertake the work by Public Works field staff, with the goal to be completed by the end of FY 2015-16.

Priority 7 – Sewers

The City's Sewer System Management Plan (SSMP) is a document required by the State; a planning tool for sewer repairs and maintenance activities. The SSMP was first prepared for the City in 2007 and was updated as required in 2012. The next update will be required in 2017.

The SSMP identifies one location at which sewer capacity is inadequate; that situation was corrected during FY 2014-15. Beyond the capacity limitation, the SSMP notes (in 2015 dollars) a total of \$382,285 in priority 3-priority 5 to priority sewer repairs:

<u>Priority 5</u> (Worst Condition) \$231,425 in repairs needed, including replacement of a manhole, replacement of 7 sections of sewer main, and lining 3,318 lf of existing 8-inch mains to seal cracks and broken sections. Per SSMP these mains may fail at any time in the next 5 years.

<u>Priority 4</u> (Bad Condition) \$84,968 in repairs needed in 8 locations, consisting of the lining 1,916 If of existing 8-inch pipe. These sections may become priority 5 sections if not repaired soon.

<u>Priority 3</u> (Poor Condition) \$66,432 in repairs, including one section of main replacement, and lining of an additional 1,294 lf of main.

The adopted FY 2015-16 Budget provides for the expenditure of \$82,000 this fiscal year for sewer improvements, which will address a portion of the Priority 5 mains. The following 3 fiscal years are projected to include \$100,000 each year for sewer repair.

Priority 8 – ADA Compliance

The City's programs and facilities must meet the requirements of the federal Americans with Disabilities Act. The first step in complying with the Act relative to the City's infrastructure (Buildings and Rights-of-Way) is the performance of a citywide inspection and preparation of a "Transition Plan" to identify areas of non-compliance and improvements to buildings, parks, and city streets to bring the City into compliance.

The Act, which was passed in 1990, is enforced by the US Justice Department through complaints, lawsuits, consent decrees, settlement agreements, and alternate dispute resolution (mediation). While the Act has been in place for 25 years and city buildings have been brought up to ADA standards when remodeling is done, there is no known existence of a Sierra Madre ADA Plan or Transition Plan. Although it is assumed that the City did at one time prepare, or have prepared such a plan, no record of such a plan has been located. Having such a Plan would not only be a major step towards ADA compliance; it would also be of assistance in identifying local uses for CDBG funds. ADA compliance improvements are one of the few projects or programs that the City may use CDBG funds for. Currently CDBG funds are programmed for use in ADA improvements to the Sierra Madre Public Library.

The City's insurer, the California Joint Powers Insurance Authority (CJPIA), is very supportive of its member cities doing everything possible to limit liability against ADA-related claims. The CJPIA has provided a proposal to the City for the preparation of an inspection and Transition Plan. The total Plan cost is proposed at \$54,550, with the CJPIA underwriting \$26,300 of that cost and the City's share being \$26,300.

Without the inspection and ADA Plan staff is not able to provide a comprehensive list of necessary ADA improvements to be made citywide. The City was recently provided a list of needed ADA improvements for the Library, totaling an estimated \$47,300. There are a total of \$43,920 in CDBG funds to cover a portion of those costs.

Priority 9 – Facilities Maintenance

The attached Status of the Infrastructure report lists a large number of parks and building repairs and improvements that were necessary in 2012. The Building facilities list begins on page 37; staff has lined through those items which are no longer on the list, as a representation of what has been accomplished since September of 2012. Most notably removed from the list are the roofs of the City Hall and Public Safety Buildings, where roof repairs have kept the buildings dry through recent rains, several modifications to the Library, the elimination of the need to replace the emergency generators, and the elimination of the Duty Man House.

For the current Fiscal Year the remaining facility and parks projects are:

Library Painting \$35,000 Civic Center Parking Lot Resurface \$45,000

However, a great number of building maintenance issues remain. With a current balance in the Facilities Maintenance Internal Services Fund of slightly over \$1.6 million, it may be possible to move some of the items in the 5-year CIP from the unfunded list into the upcoming FY 2016-17 budget. While it is an attractive option to move some of the unfunded projects now, staff recommends waiting until the next fiscal year budget is approved, based on the outcome of the UUT ballot measure.

FINANCIAL (Funding Sources from 2012 State of the Infrastructure report)

As stated in the September 2012 report, "Much of Sierra Madre's infrastructure is old, and regular infrastructure maintenance has often been deferred due to a lack of adequate funding. The situation that Sierra Madre finds itself in is not new; infrastructure maintenance funding shortages are chronic in Sierra Madre as they are elsewhere in the state." This statement remains true today, because there are no *existing* funding sources that are sufficient to address the continual deterioration of infrastructure.

General Funds

The City can use General funds for any municipal purpose. However, the City's General fund revenues are barely adequate to fund City services and programs. Allocating General fund revenues to capital projects would necessitate a reduction in services or programs. The City also has General Fund reserves, and the reserves could be used to fund capital projects; but would result in lower reserves available for future emergencies.

Parcel Taxes

Parcel Taxes can be used as a mechanism to generate revenue. Since the passage of Proposition 218, all parcel taxes require 2/3 voter approval. Therefore any parcel tax, regardless of the service, program or project it funds, would require a 2/3rd majority to pass. Placing a parcel tax on the ballot will require professional services to determine the actual amount of the tax and the method that the tax would be distributed to properties in order to be legally defensible.

As a very rough estimate, there are approximately 4,100 parcels in the City. If each parcel was assessed \$500, approximately \$2 million in revenues would be generated. The parcel taxes are placed on property tax bills and are paid along with the property taxes.

Dedicated Sales Tax Increase

The City currently receives approximately \$200,000 in sales taxes each year. The imposition of a dedicated sales tax would not result in an increase in revenues sufficient to meet financial needs.

Assessments

An assessment is not assessed on "property ownership" like a parcel tax. It is based upon the value received by the parcel for the service rendered. Parcels can only be assessed for the special benefit they receive and general public services cannot be financed through an assessment. This is the mechanism currently used by the City for lighting assessment districts and maintenance districts.

An assessment requires an enabling statute, and the implementation process requires the preparation of a resolution of intent ordering the preparation of an engineer's report. Once the report is ready, a second resolution must be passed to approve the report and order the holding of a mail ballot election (for property owners only). There are two hearings required, and if a majority of the ballots, weighted by dollars is received in favor of the assessment, it passes.

Bonds

Bonds can be issued for infrastructure improvements. There are costs associated with issuing bonds, and a revenue source must be identified to repay the bonds. However, the issuance of bonds can be accomplished without a public vote.

PUBLIC NOTICE PROCESS

This item has been noticed though the regular agenda notification process. Copies of the report are available via the City's website at <u>www.cityofsierramadre.com</u>, at the City Hall public counter, and the Sierra Madre Public Library.

STAFF RECOMMENDATION

Staff recommends that the City Council direct staff to continue with the implementation of street, sewer, and water improvement projects as provided for in the FY 2015-16 budget and in previous Council direction.

Attached: 2012 State of the Infrastructure Report



Presentation to the: City of Sierra Madre

Date of Presentation: February 17, 2016

Role of the Working Group and Introductions

- <u>Financial Advisor</u>: Advises the Issuer on Structure, Timing, Marketing, Fairness of Pricing, Terms and Bond Ratings; Oversees, Coordinates, and Manages the Financing Team in Connection with the Issuance of Bonds
- <u>Bond Counsel</u>: Opines that the Bonds have been Validly Issued and, if Tax Exemption is Intended, that the Bonds are Tax-Exempt Bonds
- Disclosure Counsel: Provides Advice on Issuer Disclosure Obligations and to Prepare the Official Statement and/or Continuing Disclosure Agreement

Bond/Disclosure Counsel Financial Advisor Norton Rose Fulbright Wolf & Company, Inc. Wes Wolf, President Danny Kim, Partner 18 Years Experience with one of the Largest Over 35 Years of Financial and Government Public Finance Practices in the Nation Experience Worked as Bond and Disclosure Counsel on Over \$9 Billion of State and Local Tax-**Prior Financings** Exempt and Taxable Bonds Jonathan Guz, Senior Associate Manny De Dios, Municipal Advisor 45 Years of Municipal Experience; Last 25 Joined Norton Rose Fulbright in 2008 Years as Series 24 Municipal Securities Has Assisted Clients in Various Credits(Including Enterprise Financings) Principal Nof & Company Inc. NORTON ROSE FULBRIGHT

Role of the Working Group and Introductions (cont.)

- <u>Underwriter</u>: Purchases New Issue of Municipal Securities from the Issuer for Resale in a Primary Offering
- <u>Underwriter's Counsel</u>: Represents the Interests of an Underwriter in Connection with the Purchase of a New Issue of Municipal Securities



Understanding of the City's Water System



¹California Department of Finance , Population as of Jan. 1 2015 ²Statistics Taken from 2015 Urban Water Management Plan RFP and Final 2010 Urban Water Management Plan

Rating Agency Views of the Water System

- Both S&P and Moody's have Assigned Credit Ratings to the Water System
- S&P Suspended its Rating in Late 2007 Due to Lack of Financial Information; Moody's Most Recently Assigned a "Ba1" in May 2015
 - Primary Reason: Coverage Reported to have Fallen <u>Below</u> Rate Covenant (1.20x)
 - Cited <u>Coverage Increases</u> and <u>Regular Rate Increases</u> as Factors that could <u>Move Credit</u> <u>Rating Higher</u>
- Moody's Most Recent Review of the Water System's Credit (May 2015)
 - + Affluent Community Located within LA Metro Area
 - + Recent Management Action to Implement Revenue-Neutral Conservation Measures
 - Expected Rise in Operating Expenses Tied to Increased Cost of Water Purchases
 - History of Rate Covenant Violations
 - Aging Infrastructure Requiring Significant Reinvestment
 - Uncertain Water Supply

Source: S&P and Moody's Credit Rating Reports

Rating Agency Considerations

- Local Economic Conditions: Job Base, Population Growth, Wealth Levels
 - Local Area Economy Noted Strength of the City by both S&P and Moody's
- Customer Profile: Customer Type, Current & Future Demand, Concentration
 - High Residential Customer Base (~85%) is Notable Strength
- Operational Factors: Capacity, Assets, Supply, Management, Regulatory Compliance
 - Increasing Reliance on Imported Water, Aging Infrastructure Cause for Concerns
- Rate Criteria: Rate Sufficiency, Comparative Rates, Rate Affordability, Rate-Setting
 - Perceived Rate Covenant Violations Major Factor of Moody's Downgrade
- Financial Data: Stability and Consistency of Revenues, Liquidity, Collections History, Reserves, Debt Service Coverage
 - Financial Performance/Debt Service Coverage Listed as Credit Challenges
- Legal Structure and Covenants: Revenue Pledge, Rate Covenant, Reserve Fund, Debt Structure, Additional Bonds Test
 - Cash-Funded Reserves Notable Credit Positive; Rate Covenant/ABT Standard

Source: S&P and Moody's Credit Rating Reports

Current Credit Profile of the Water System

- Upon Review by Staff and the Proposed Team, Historical Debt Service Coverage Calculation did not take into Account Certain Revenues and Expenses
 - O&M Costs Allow for the Exclusion of "Reasonable Administrative and In Lieu Costs of the City Attributable to the Operation and Maintenance of the Water Enterprise"
- Revised Coverage Indicates that Water System has met its Covenant Most Years
- Council Recently Adopted Rate Increases in FY 2014
 - Further Increases Expected
- Sufficient Revenues to Cover Proposed Capital Improvements

Statement of Revenues and				Actual				Actual		Drait
	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	(2011		Y 2012					S	7 2015
Revenues:	C100622000	e Statul - See Sile (Statistical Solaris)		999294699699999999999999999999999999999			34/04/08/0	. A hand a set of the		
Charges for Services	\$2	,887.53	\$ 3	3,027.67	\$	3,554.36	\$ 3	3,828.24	\$4	,373.8
Licenses and Permits		0.62		10.39		3.80		5.78		-
Miscellaneous		267.50		-		-		-		-
Grants (Non-Oper)		29.62		-		316.93		258.88		242.5
Investment Income (Non-Oper)		7.65		-		-		4.49		4.2
Other Income (Non-Oper)		-		-		-		12.69		-
TOTAL REVENUES	\$3	,192.92	\$ 3	3,038.06	\$:	3,875.09	\$4	4,110.07	\$4	,620.6
Expenses:										
Total Operating Expenses	\$2	,751.54	\$3	3,314.33	\$	3,477.29	\$3	3,084.06	\$4	,121.6
Less: Depreciation		(568.25)		(553.62)				(551.52)		(563.9
Less: Personnel Services		(555.95)		(757.19)		(798.08)		(800.22)		(802.8
TOTAL EXPENSES	\$1	,627.33	\$ 2	2,003.52	\$	2,127.09	\$ *	1,732.32	\$ 2	,754.8
Net System Revenues	\$ 1	,565.58	\$ ·	1,034.54	\$	1,748.00	\$ 2	2,377.76	\$ 1	,865.7
Debt Service	\$	863.27	\$	842.67	\$	847.18	\$	848.03	\$	843.0
Debt Service Coverage		1.81x		1.23x		2.06x		2.80x	:	2.21x
Revenues for Personnel Services	\$	702.32	\$	191.87	\$	900.82	\$	1,529.72	\$1	,022.7
Revenues Net of Personnel Services		146.36		(565.32)		102.74		729.50		219.9
Days Cash (Liquidity)		515		` 305		223		300		19

Source: City Provided Comprehensive Annual Financial Reports (2011-Draft of 2015)

Liquidity Calculation Equals Unrestricted Cash and Investments Divided by O&M Expenses Divided by 365 Days

Capital Needs of the Water System

\$13.2 Million of Capital Projects Identified to Address Water System's Aging
Infrastructure

Identified Projects		Cost
Skyland/Idlehour to Orange	\$	406,680
Canyon Crest from Idle Hour to Orange		75,960
Fern Glen from Canyon Crest to Fern Dr.		63,315
W. Montecito from Baldwin to Auburn		132,420
Fane from Colony to Holdman		63,315
Colony from SACT to Fane		123,110
X-County Canyon Crest to Middle Brookside		176,450
Woodland 16" Transmission Line		338,285
N. Michillinda from Alegria to Edgeview		282,200
Santa Anita Ct. from Sierra PI to Mt Trail		76,910
Santa Anita Ct. Between Mt. Trail and Rancho		63,315
San Gabriel Ct. from Sierra PI to Mt. Trail		69,930
Sierra PI from E SMB to Lowell		121,100
W. Alegria from Sunnyside east to end		34,110
Fairview Ave. from Grover St. to Michillinda		222,250
Key Vista from Sierra Keys to end		35,510
Cross-country above Lower Brookside		103,680
Gatewood Ln from Michillinda to include Gatewood Terr.		180,900
W. Bonita between Baldwin and Hermosa		203,700
Liliano from Arno to Stonehouse		359,990
Manzanita Ave. from Hermosa to Lima St.		125,340
Top 20 High Maintenance Replacement Costs	\$ 3	3,258,470
Less: Completed Projects	تبكسه	<mark>,103,11</mark> 0)
Plus: Segments Over 75 Years Old Replacement Costs	11	1,177,425
Total Replacement Costs	\$ 13	3,242,785

City of Sierra Madre Agenda Report (January 12, 2016)

Debt Obligations of the Water System

- Water System has Two Long-Term Outstanding Obligations which are Currently Callable
 - 1998A Water Bonds: \$1.4 million Callable On Any Date @ Par
 - 2003 Water Bonds: \$6.8 million Callable On Any Date/Any Interest Payment Date @ Par*

Series	Original Amount	Outstanding Amount			Ratings (M/S&P/F)	Call Features
1998 Water Bonds	\$ 6,740,000	\$ 1,415,000		11/01/18	Ba1/WD/	Currently Callable @ Par
2003 Water Bonds	6,750,000	6,750,000	5.00%	11/01/33	Ba1/WD/	2016-2032: Any Interest Payment Date @ 100 2033-Maturity: Any Date @ 100
SGVMWD Loan	1,456,880	874,124	0.00%	06/30/21		Not Available
Total	\$14,946,880	\$ 9,039,124				

- Current Low Interest Environment Provides City with an Opportunity to Refinance the 1998A and 2003 Water Revenue Bonds for Meaningful Savings
 - *Before the Issuance of New Debt, the City will Need to Address Past Continuing Disclosure Non-Compliance and Adopt a New Continuing Disclosure Policy

Debt Outstanding as of Fiscal Year 2015 (June 30, 2015) *Different Maturities Subject to Different Call Provisions

Financial Impact of Proposed Bonds

¢	Analysis: Refinance 1998A and	Fiscal Year	Pledged Revenues ¹	e lagos de la su 🗁 e	New Money Bonds	Total Debt	Coverage
-	And a second	2017	\$ 1,866	\$ 646	\$ 647	\$ 1,293	1.44x
	2003 Bonds and Issue New Debt	2018	1,866	645	647	1,292	1.44x
	to Fund \$13.25 million of Identified	2019	1,866	646	647	1,293	1.44x
	Capital Improvements	2020	1,866	559	720	1,279	1.46x
	Suprai improvemento	2021	1,866	557	722	1,280	1.46x
		2022	1,866	554	723	1,278	1.46x
•	Revenue Assumptions	2023	1,866	559	719	1,278	1.46x
-	-	2024	1,866	558	720	1,278	1.46x
	 <u>Zero Growth</u> Based on Revised FY 	2025	1,866	556	720	1,276	1.46x
	2015 Net Revenues	2026	1,866	558	715	1,274	1.46x 1.46x
		2027 2028	1,866 1,866	560 555	716 720	1,275 1,275	1.46x
		2028	1,866	555	720	1,275	1.46x
٠	Interest Rate Assumptions	2025	1,866	558	713	1,272	1.40x
	 All Current Rates are Based on Market 	2031	1,866	560	713	1,273	1.47x
		2032	1,866	561	712	1,273	1.47x
	Conditions as of February 9, 2016	2033	1.866	560	711	1,271	1.47x
	Conditions as of February 9, 2016	2034	1,866	559	714	1,273	1.47x
		2035	1,866	-	1,268	1,268	1.47x
•	Structuring Assumptions	2036	1,866	-	1,271	1,271	1.47x
	 Debt Service Reserve Fund 	2037	1,866	-	1,267	1,267	1.47x
	 Bond Insurance 	2038	1,866	-	1,267	1,267	1.47x
		2039	1,866	-	1,264	1,264	1.48x
	 Standard 10-Year Par Call 	2040	1,866	۲	1,265	1,265	1.48x
	 May (Interest) and November 	2041	1,866	-	1,263	1,263	1.48x
	(Principal) Payment Dates	2042	1,866	-	1,264	1,264	1.48x
	(Finopal) Faymon Dates	2043	1,866	-	1,262	1,262	1.48x
		2044	1,866	1	1,258	1,258	1.48x
		2045	1,866	÷	1,261	1,261	1.48x
	¹ Revised FY 2015 Revenue Figure Figures in Chart in Thousands (\$)	2046	1,866		1,256	1,256	1.49x
	- Baroo in cust in Luododioo (W		\$ 55,974	\$ 10,310	\$ 27,858	\$38,168	

Projected Cash Flow of Water System (Post 2016 Bonds)

- Approved Rate Increases Expected to Increase Revenues by \$400,000 in FY 2017 and by \$600,000 in FY 2018
- Sufficient Revenues to Absorb Capital, Maintain Rate Covenant and Pay Expenses

Statement of Revenues and	Expenses; D	ebt Service	Coverage (\$ in Thousar	nds)			
	Draft		Proje	Projected				
	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019			
Revenues:								
Charges for Services	\$4,373.85	\$4,373.85	\$ 4,773.85	\$ 5,373.85	\$ 5,373.85			
Licenses and Permits	-	-	-	-	-			
Miscellaneous	-	-	-	-	-			
Grants (Non-Oper)	242.50	247.35	252.30	257.34	262.49			
Investment Income (Non-Oper)	4.27	4.36	4.44	4.53	4.62			
Other Income (Non-Oper)	5 4	-	-	-	-			
TOTAL REVENUES	\$ 4,620.62	\$ 4,625.55	\$ 5,030.59	\$ 5,635.72	\$ 5,640.96			
Expenses:								
Total Operating Expenses	\$4,121.62	\$4,204.05	\$ 4,288.13	\$ 4,373.90	\$ 4,461.37			
Less: Depreciation	(563.94)	(575.22)	(586.72)	(598.46)	(610.42			
Less: Personnel Services	(802.85)	(818.91)	(835.29)	(851.99)	(869.03			
TOTAL EXPENSES	\$ 2,754.83	\$ 2,809.93	\$ 2,866.13	\$ 2,923.45	\$ 2,981.92			
Net System Revenues	\$ 1,865.79	\$ 1,815.63	\$ 2,164.46	\$ 2,712.27	\$ 2,659.04			
Debt Service	\$ 843.01	\$ 845.72	\$ 1,299.48	\$ 1,302.80	\$ 1,299.00			
Debt Service Coverage	2.21x	2.15x	1.67x	2.08x	2.05x			
Revenues for Personnel Services	\$ 1,022.78	\$ 969.91	\$ 864.99	\$ 1,409.47	\$ 1,360.04			
Revenues Net of Personnel Services	219.93	151.00	29.70	557.48	491.01			

Zero Growth (Year-over-Year) Assumed for FY 2016 and FY 2019

Preliminary Financing Schedule

Preliminary Schedule: 2016 Water Revenue Bonds			
Date	Activity		
Wednesday, February 17th	Presentation to the City		
Wednesday, March 9th	Distribute 1 st Draft of POS and Legal Docs		
Tuesday, March 15 th	Conference Call to Review POS and Legal Docs		
Tuesday, March 22 nd	Distribute 2 nd Draft of POS and Legal Docs		
Thursday, March 24th	Distribute 1 st Draft of Rating Agency Presentation		
Tuesday, March 29th	Conference Call to Review POS and Legal Docs		
Tuesday, April 5 th	Distribute 3 rd Draft of POS and Legal Docs; Distribute Package to Rating Agency (and Bond Insurer)		
Thursday, April 7 th	Rating Agency Presentations		
Monday, April 11 th	Finalize POS and Legal Docs		
Tuesday, April 12 th	Agenda Deadline (~2 Weeks Prior)		
w/o April 18 th	Obtain Underlying Ratings; Bond Insurance Commitment Letter (if applicable)		
Tuesday, April 26 th	Approval of the 2016 Water Revenue Bonds		
Wednesday, April 27th	Post Preliminary Official Statement; Begin Pre-Marketing		
Wednesday, May 4 th	Pre-Pricing		
Thursday, May 5 th	Price the 2016 Bonds; Execute BPA		
w/o May 9 th	Draft Verification Report Distributed		
w/o May 16 th	Final Verification Report Distributed; Submit Final Official Statement to the Printer		
Wednesday, May 18th	Pre-Closing		
Thursday, May 19 th	Closing		

Summary of Estimated Fees

<u>Except</u> Rating Agency Fees, All Costs will be Contingent Upon the Successful Sale of the Proposed Bonds

Estimated Par Amount	\$19,870,000	-	
Service	Firm		Total
Bond/Disclosure Counsel	Norton Rose Fulbright	\$	82,500
Financial Advisor	Wolf & Company, Inc.		60,000
Rating Agency	Standard & Poor's/Moody's*		25,000
Underwriter's Counsel	Nossaman LLP		20,000
Verification Agent	[To be Determined]		3,500
Continuing Disclosure Consultant	[To be Determined]		2,000
Trustee, Escrow Agent & Counsel	Bank of New York Mellon		6,750
Printing	[To be Determined]		3,000
Contingency	-		7,250
	Total Estimated Costs of Issuance**	\$	210,000
Underwriter's Discount	Stifel	\$	198,700

*New Series of Bonds may Necessitate Only Rating from One Credit Rating Agency **Bond Insurance Quotes may be Solicited Depending on Market Conditions at the Time of Sale

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SOURCES AND USES OF FUNDS

Sierra Madre Financing Authority 2016 Water Revenue Refunding Bonds ******* 1998 & 2003 Refinding + New Money

		5				
	Dated Date	09/01/2016				
	Delivery Date	09/01/2016				
			New Money			
Sources:	2003 Bonds	1998 Bonds	Bonds	Total		
Bond Proceeds:						
Par Amount	5,835,000.00	1,000,000.00	14,140,000.00	20,975,000.00		
Premium	1,019,431.60	19,785.80	2,006,207.70	3,045,425.10		
	6,854,431.60	1,019,785.80	16,146,207.70	24,020,425.10		
Other Sources of Funds:						
Debt Service Reserve Fund	619,029.38	522,695.00		1,141,724.38		
	7,473,460.98	1,542,480.80	16,146,207.70	25,162,149.48		
			New Money			
Uses:	2003 Bonds	1998 Bonds	Bonds	Total		
Project Fund Deposits:						
Project Fund			14,750,000.00	14,750,000.00		
Refunding Escrow Deposits:						
Cash Deposit	0.26	1,444,479.17		1,444,479.43		
SLGS Purchases	6,897,903.00			6,897,903.00		
	6,897,903.26	1,444,479.17		8,342,382.43		
Other Fund Deposits:						
Debt Service Reserve Fund	372,897.53	63,907.03	903,645.44	1,340,450.00		
Delivery Date Expenses:						
Cost of Issuance	58,419,55	10,011.92	141,568.53	210,000.00		
Underwriter's Discount	58,350.00	10,000.00	141,400.00	209,750.00		
Bond Insurance (75 bps)	84,552.40	14,490.56	204,896.48	303,939.44		
	201,321.95	34,502.48	487,865.01	723,689.44		
Other Uses of Funds:						
Additional Proceeds	1,338.24	-407.88	4,697.25	5,627.61		
	7,473,460.98	1,542,480.80	16,146,207.70	25,162,149,48		

UNIVERSAL BOND SOLUTION

Debt Serv Existing Total Adj Revenue Unused Period Proposed Proposed Coverage Debt Service Debt Service Constraints Revenues Ending Principal Debt Service 117,267 703,600 1,278,480 317.68457% 587,308 1,865,788 470.042 11/01/2016 636,850 1.340,450 1,865,788 525,338 139.19117% 11/01/2017 1,865,788 527,238 139.38874% 703,600 634,950 1,338,550 11/01/2018 544,450 1,865,788 532,738 139,96384% 85,000 788,600 1,333,050 11/01/2019 1,865,788 536,938 140,40622% 80,000 85,000 548,650 1,328,850 11/01/2020 780,200 536,538 140.36396% 11/01/2021 782,000 547,250 1.329,250 1,865,788 536,738 140.38509% 783,600 545,450 1,329,050 1,865,788 90,000 11/01/2022 95,000 785,000 548,250 1.333,250 1,865,788 532,538 139.94285% 11/01/2023 100,000 100,000 1,332,500 1,865,788 533,288 140.02161% 785,250 547,250 11/01/2024 535,038 140,20575% 780,250 785,250 550,500 1,330,750 1.865,788 11/01/2025 1,333,000 1,865,788 532,788 139,96909% 110,000 547,750 11/01/2026 536,788 140,39037% 110,000 549,250 1,329,000 1,865,788 11/01/2027 779,750 1,865,788 536,788 140.39037% 549,750 1,329,000 11/01/2028 115,000 779.250 125,000 125,000 135,000 533,038 139.99535% 783,500 549,250 1,332,750 1,865,788 11/01/2029 552,750 535,788 140,28481% 11/01/2030 777,250 1,330,000 1,865,788 781,000 534,788 140,17941% 550,000 1,331,000 1,865,788 11/01/2031 551,250 1,330,500 1,865,788 535 288 140,23209% 779,250 777,250 11/01/2032 140,000 145,000 705,000 551,250 1,328,500 1,865,788 537,288 140.44321% 11/01/2033 1,865,788 535,788 140.28481% 1,330,000 1,330,000 11/01/2034 1,329,750 1,865,788 536,038 140,31119% 740,000 1,329,750 11/01/2035 1,865,788 533,038 139,99535% 1,332,750 1,332,750 11/01/2036 780,000 1,328,750 815,000 537,038 140.41678% 1.328,750 1,865,788 11/01/2037 532,788 139.96909% 1,333,000 1,865,788 11/01/2038 860,000 1.333.000 1,330,000 535,788 140.28481% 900,000 1,330,000 1,865,788 11/01/2039 1,865,788 535,788 140.28481% 945,000 1,330,000 1.330,000 11/01/2040 1,332,750 1,865,788 533,038 139.99535% 1,332,750 11/01/2041 995,000 1,333,000 1,865,788 532,788 139.96909% 1,333,000 11/01/2042 1,045,000 535,038 140,20575% 1,330,750 1,865,788 1.095.000 1,330,750 11/01/2043 1,865,788 534,788 140.17941% 1.331,000 11/01/2044 1,150,000 1.331.000 537,288 140.44321% 1,328,500 1,328,500 1,865,788 11/01/2045 1,205,000 1,328,250 1,865,788 537,538 140.46964% 11/01/2046 1,265,000 1,328,250 14,140,000 30,550,367 9.974.892 40,525,258 57,839,428 17,314,170

BOND PRICING

	********	*****		Water Reven	nancing Authority ue Refunding Bon **************		*****	*****	
			1998	& 2003 Refu	nding + New Mon	ey			
Bond Component	Maturity Date	Amount	Rate	Yield	Price	Yield to Maturity	Call Date	Call Price	Premium (-Discount)
Serial Bond:									
Seria Dolla	11/01/2016	420,000	2,000%	0,600%	100.232				974.40
	11/01/2017	345,000	2.000%	0.860%	101.320				4,554.00
	11/01/2018	350,000	3.000%	0.990%	104.297				15,039,50
	11/01/2019	355,000	4.000%	1.150%	108.836				31,367,80
	11/01/2020	365,000	4.000%	1.340%	110.743				39,211.95
	11/01/2021	380,000	4.000%	1.540%	112.170				46,246.00
	11/01/2022	395,000	4.000%	1,700%	113.409				52,965.55
	11/01/2023	415,000	5.000%	1.820%	121.273				88,282.95
	11/01/2024	435,000	5.000%	1.990%	122.582				98,231.70
	11/01/2025	455,000	5,000%	2.170%	123.406				106,497.30
	11/01/2026	480,000	5,000%	2.310%	122.104 C	2.521%	11/01/2025	100.000	106,099.20
	11/01/2027	500,000	5,000%	2.490%	120.454 C	2.848%	11/01/2025	100.000	102,270.00
	11/01/2028	525,000	5.000%	2.620%	119.279 C	3,087%	11/01/2025	100,000	101,214,75
	11/01/2029	555,000	5.000%	2.690%	118.652 C	3,247%	11/01/2025	100.000	103,518.60
	11/01/2030	580,000	5.000%	2.740%	118,206 C	3,372%	11/01/2025	100.000	105,594.80
	11/01/2031	610,000	5,000%	2.800%	117.674 C	3,489%	11/01/2025	100.000	107,811,40
	11/01/2032	640,000	5,000%	2.860%	117.145 C	3,592%	11/01/2025	100.000	109,728.00
	11/01/2033	670,000	5,000%	2.920%	116,618 C	3.685%	11/01/2025	100,000	111,340.60
	11/01/2034	705,000	5.000%	2.980%	116.094 C	3.768%	11/01/2025	100,000	113,462,70
	11/01/2035	740,000	5.000%	3.040%	115,573 C	3,844%	11/01/2025	100.000	115,240,20
	11/01/2036	780,000	5.000%	3.100%	115.055 C	3,913%	11/01/2025	100.000	117,429,00
		10,700,000						_	1,677,080.40
Term Bond 2041;									
Term Bong 2041;	11/01/2037	815,000	5,000%	3,270%	113.602 C	4.126%	11/01/2025	100.000	110,856.30
		860,000		3,270%	113.602 C	4.126%	11/01/2025	100,000	116,977.20
	11/01/2038 11/01/2039	900,000	5,000% 5,000%	3,270%	113.602 C	4.126%	11/01/2025	100,000	122,418.00
	11/01/2040	900,000 945,000	5.000%	3.270%	113.602 C	4.126%	11/01/2025	100,000	122,410.00
	11/01/2040	945,000 995,000	5,000%	3,270%	113.602 C	4.126%	11/01/2025	100.000	135,339.90
	11/01/2041	4,515,000	5,00070	5,27070	115.002 C	4.12070	11/01/2025	100.000	614,130,30
		4,515,000							014,130,30
Term Bond 2046:									
	11/01/2042	1,045,000	5,000%	3.330%	113.094 C	4.228%	11/01/2025	100.000	136,832.30
	11/01/2043	1,095,000	5.000%	3.330%	113.094 C	4.228%	11/01/2025	100.000	143,379.30
	11/01/2044	1,150,000	5.000%	3.330%	113.094 C	4,228%	11/01/2025	100,000	150,581.00
	11/01/2045	1,205,000	5.000%	3.330%	113.094 C	4.228%	11/01/2025	100.000	157,782.70
	11/01/2046	1,265,000	5.000%	3.330%	113.094 C	4.228%	11/01/2025	100.000	165,639.10
		5,760,000							754,214.40
		20,975,000							3,045,425.10
		Dated Date			09/01/2016				
		Delivery Da			09/01/2016				
		First Coupo	on		11/01/2016				
		Par Amoun	1		20,975,000.00				

Par Amount	20,975,000.00	
Premium	3,045,425.10	
Production	24,020,425.10	114.519309%
Underwriter's Discount	-209,750.00	-1.000000%
Purchase Price Accrued Interest	23,810,675.10	113.519309%
Net Proceeds	23,810,675.10	

BOND DEBT SERVICE BREAKDOWN

1998 & 2003 Refunding + New Money

Tota	New Money Bonds	1998 Bonds	2003 Bonds	Period Ending
1,085,033.3	469,066.67	337,350	278,616.67	06/30/2017
1,337,000.0	703,600,00	348,550	284,850.00	06/30/2018
1,333,300.0	703,600.00	345,100	284,600,00	06/30/2019
1,325,950.0	786,900.00		539,050,00	06/30/2020
1,321,550.0	778,600.00		542,950.00	06/30/2021
1,321,650.0	780,300.00		541,350.00	06/30/2022
1,321,150.0	781,800.00		539,350.00	06/30/2023
1,322,875.0	782,625.00		540,250.00	06/30/2024
1,321,625.0	782,750.00		538,875,00	06/30/2025
1,319,375.0	777,750.00		541,625,00	06/30/2026
1,321,000.0	782,500.00		538,500,00	06/30/2027
1,316,500.0	777,000.00		539,500.00	06/30/2028
1,315,875.0	776,375.00		539,500.00	06/30/2029
1,318,875.0	780,375.00		538,500,00	06/30/2030
1,315,500.0	774,125.00		541,375.00	06/30/2031
1,315,750.0	777,625.00		538,125,00	06/30/2032
1,314,500.0	775,750.00		538,750,00	06/30/2033
1,311,750.0	773,625.00		538,125,00	06/30/2034
1,312,375.0	1,312,375.00		,	06/30/2035
1,311,250.0	1,311,250.00			06/30/2036
1,313,250.0	1,313,250.00			06/30/2037
1,308,375.0	1,308,375.00			06/30/2038
1,311,500.0	1,311,500.00			06/30/2039
1,307,500.0	1,307,500.00			06/30/2040
1,306,375.0	1,306,375.00			06/30/2041
1,307,875.0	1,307,875.00			06/30/2042
1,306,875.0	1,306,875.00			06/30/2043
1,303,375.0	1,303,375.00			06/30/2044
1,302,250.0	1,302,250.00			06/30/2045
1,298,375.0	1,298,375.00			06/30/2046
1,296,625.0	1,296,625.00			06/30/2047
40,525,258.3	30,550,366.67	1,031,000	8,943,891,67	
SUMMARY OF BONDS REFUNDED

Sierra Madre Financing Authority 2016 Water Revenue Refunding Bonds

1998 & 2003 Refunding + New Money

Bond	Maturity Date	Interest Rate	Par Amount	Call Date	Cal Price
Water Revenue Refu	nding Bonds, Serie	1998A, 1998A			• •• •
TERM18	11/01/2016	5.000%	450,000.00	10/01/2016	100,000
	11/01/2017	5.000%	470,000.00	10/01/2016	100.000
	11/01/2018	5.000%	495,000.00	10/01/2016	100.000
			1,415,000.00		
Water Revenue Parity	Bonds, Series 200	3, 2003:			
TERM25	11/01/2019	5,000%	310,000.00	10/01/2016	100.000
	11/01/2020	5,000%	325,000.00	10/01/2016	100.000
	11/01/2021	5,000%	340,000.00	10/01/2016	100.000
	11/01/2022	5.000%	360,000.00	10/01/2016	100.00
	11/01/2023	5.000%	380,000.00	10/01/2016	100.000
	11/01/2024	5.000%	395,000.00	10/01/2016	100.00
	11/01/2025	5.000%	420,000.00	10/01/2016	100,00
TERM33	11/01/2026	5,000%	440,000.00	10/01/2016	100,00
	11/01/2027	5,000%	460,000.00	10/01/2016	100.000
	11/01/2028	5,000%	485,000.00	10/01/2016	100.00
	11/01/2029	5.000%	180,000.00	10/01/2016	100.00
	11/01/2030	5,000%	190,000.00	10/01/2016	100,00
	11/01/2031	5,000%	195,000.00	10/01/2016	100,00
	11/01/2032	5.000%	210,000.00	10/01/2016	100,000
	11/01/2033	5.000%	215,000.00	10/01/2016	100,00
TERM33 2	11/01/2029	5.100%	330,000.00	11/01/2016	100,00
-	11/01/2030	5.100%	350,000.00	11/01/2016	100.00
	11/01/2031	5,100%	370,000.00	11/01/2016	100.00
	11/01/2032	5,100%	385,000.00	11/01/2016	100.00
	11/01/2033	5,100%	410,000,00	11/01/2016	100,000
			6,750,000.00		
			8,165,000.00		

All Numbers and Interest Rates are Preliminary; Subject to Change

SUMMARY OF REFUNDING RESULTS

Sierra Madre Financing Authority 2016 Water Revenue Refunding Bonds 1998 & 2003 Refunding + New Money

	2003 Bonds	1998 Bonds	Total
Dated Date	09/01/2016	09/01/2016	09/01/2016
Delívery Date	09/01/2016	09/01/2016	09/01/2016
Arbitrage Yield	3,135989%	3.135989%	3.135989%
Escrow Yield	0.181882%		0.181882%
Value of Negative Arbitrage	21,422.25		21,422.25
Bond Par Amount	5,835,000.00	1,000,000.00	6,835,000.00
True Interest Cost	3.061393%	1.777382%	3.036432%
Net Interest Cost	3.393467%	1.795278%	3.364176%
All-In TIC	3.310958%	3.921095%	3.322872%
Average Coupon	4.911943%	2.623413%	4.870000%
Average Life	10.847	1.182	9.433
Par amount of refunded bonds	6,750,000.00	1,415,000.00	8,165,000.00
Average coupon of refunded bonds	5.037618%	5.000000%	5.036785%
Average life of refunded bonds	11.097	1.198	9.382
PV of prior debt	8,031,239.46	1,469,048.01	9,500,287.47
Net PV Savings	1,033,536.17	15,728.65	1,049,264.82
Percentage savings of refunded bonds	15.311647%	1.111565%	12.850763%
Percentage savings of refunding bonds	17.712702%	1.572865%	15,351351%

All Numbers and Interest Rates are Preliminary; Subject to Change

SAVINGS

Sierra Madre Financing Authority 2003 Bonds

Present Value to 09/01/2016 @ 3.1359890%	Savings	Refunding Debt Service	Prior Debt Service	Date
59,919.71	60,728.33	278,616.67	339,345.00	06/30/2017
52,071.34	54,495.00	284,850,00	339,345,00	06/30/2018
50,707.54	54,745,00	284,600,00	339,345,00	06/30/2019
92,501.47	102,545.00	539,050,00	641,595,00	06/30/2020
85,505.98	97,770.00	542,950,00	640,720,00	06/30/2021
82,899.19	97,745.00	541,350,00	639,095,00	06/30/2022
84,110.63	102,245.00	539,350,00	641,595,00	06/30/2023
82,032.29	102,845.00	540,250,00	643,095,00	06/30/2024
77,210.20	99,845,00	538,875,00	638,720,00	06/30/2025
76,273.23	101,720.00	541,625.00	643,345,00	06/30/2026
75,140.41	103,345.00	538,500.00	641,845,00	06/30/2027
70,384.72	99,845.00	539,500,00	639,345,00	06/30/2028
69,189.78	101,220.00	539,500,00	640,720,00	06/30/2029
67,729.47	102,180,00	538,500,00	640,680,00	06/30/2030
66,021.54	102,715.00	541,375.00	644,090,00	06/30/2031
64,187.56	102,980.00	538,125.00	641,105,00	06/30/2032
62,243.48	102,977.50	538,750,00	641,727,50	06/30/2033
60,201.24	102,705.00	538,125,00	640,830.00	06/30/2034
1,278,329.78	1,692,650.83	8,943,891.67	10,636,542.50	

Savings Summary

PV of savings from cash flow	1,278,329.78
Less: Prior funds on hand	-619,029.38
Plus: Refunding funds on hand	374,235.77
Net PV Savings	1,033,536.17

SAVINGS

Sierra Madre Financing Authority 1998 Bonds

Date	Prior Debt Service	Refunding Debt Service	Savings	Present Value to 09/01/2016 @ 3.1359890%
06/30/2017	509,500.00	337,350.00	372,150.00	171,018,79
06/30/2018	506,500.00	348,550.00	157,950.00	152,210.52
06/30/2019	507,375.00	345,100.00	162,275.00	151,695.19
	1,523,375.00	1,031,000.00	492,375.00	474,924.50

Savings Summary

PV of savings from cash flow	474,924.50
Less: Prior funds on hand	-522,695.00
Plus: Refunding funds on hand	63,499.15
Net PV Savings	15,728.65

DISCLOSURE

Sierra Madre Financing Authority 2016 Water Revenue Refunding Bonds

1998 & 2003 Refunding + New Money

Stifel, Nicolaus & Company, Incorporated ('Stifel') has been engaged or appointed to serve as an underwriter or placement agent with respect to a particular issuance of municipal securities to which the attached material relates and Stifel is providing all information and advice contained in the attached material in its capacity as underwriter or placement agent for that particular issuance. As outlined in the SEC's Municipal Advisor Rule, Stifel has not acted, and will not act, as your municipal advisor with respect to the issuance of the municipal securities that is the subject to the engagement.

Stifel is providing information and is declaring to the proposed municipal issuer and any obligated person that it has done so within the regulatory framework of MSRB Rule G-23 as an underwriter (by definition also including the role of placement agent) and not as a financial advisor, as defined therein, with respect to the referenced proposed issuance of municipal securities. The primary role of Stifel, as an underwriter, is to purchase securities for resale to investors in an arm's- length commercial transaction. Serving in the role of underwriter, Stifel has financial and other interests that differ from those of the issuer. The issuer should consult with its' own financial and/or municipal, legal, accounting, tax and other advisors, as applicable, to the extent it deems appropriate.

These materials have been prepared by Stifel for the client or potential client to whom such materials are directly addressed and delivered for discussion purposes only. All terms and conditions are subject to further discussion and negotiation. Stifel does not express any view as to whether financing options presented in these materials are achievable or will be available at the time of any contemplated transaction. These materials do not constitute an offer or solicitation to sell or purchase any securities and are not a commitment by Stifel to provide or arrange any financing for any transaction or to purchase any security in connection therewith and may not relied upon as an indication that such an offer will be provided in the future. Where indicated, this presentation may contain information derived from sources other than Stifel. While we believe such information to be accurate and complete, Stifel does not guarantee the accuracy of this information. This material is based on information currently available to Stifel to Stifel or other will be aware that any proposed indicative transaction could have accounting, tax, legal or other implications that should be discussed with your advisors and /or counsel as you deem appropriate.

Exhibit C

FOR DISCUSSION PURPOSES ONLY

HOLMAN CAPITAL CORPORATION

CITY OF SIERRA MADRE INDICATIVE FINANCING RATES DATED MAY 16, 2016

OPTION	то	TAL FINANCING AMOUNT	REFINANCING AMOUNT	NEW DEBT AMIOUNT	INTEREST RATE	TERM	FIRST PAYMENT DUE	PERIODIC PAYMENTS	QUARTERLY PAYMENTS	TOTAL PAYMENTS
A	\$	15,293,684.77	\$ 8,165,000.00	\$ 7,128,684.77	3.85%	20 YEARS	90 DAYS	80	\$ 275,000.00	\$ 22,000,000.00
В	\$	18,769,522.22	\$ 8,165,000.00	\$10,604,522.22	3.85%	20 YEARS	90 DAYS	80	\$ 337,500.00	\$ 27,000,000.00
С	\$	17,138,506.56	\$ 8,165,000.00	\$ 8,973,506.56	3.85%	20 YEARS	90 DAYS	80	See Amortization	\$ 25,200,000.00



PREPARED BY: FRANK J. GILL IV HOLMAN CAPITAL CORPORATION FRANK.GILL@HOLMANCAPITAL.COM 949-400-0969

FOR DISCUSSION PURPOSES ONLY

BORROWER:	CITY OF SIERRA MADRE
LENDER:	HOLMAN CAPITAL CORPORATION
COMMENCEMENT:	15-Jun-2016
TERM:	20 YEARS (\$275,000 LEVEL PRINCIPAL & INTEREST PAYMENTS)
1ST PAYMENT DUE:	15-Sep-2016
RATE:	3.8500%

RATE:	3.8500%					Purchase	
Payment No.	Date		Payment Interest			Principal	Option
0	6/15/2016						
1	9/15/2016	\$	275,000.00	\$	147,201.72	\$ 127,798.28	\$ 15,620,863.08
2	12/15/2016	\$	275,000.00	\$	145,971.66	\$ 129,028.34	\$ 15,487,963.89
3	3/15/2017	\$	275,000.00	\$	144,729.76	\$ 130,270.24	\$ 15,353,785.54
4	6/15/2017	\$	275,000.00	\$	143,475.91	\$ 131,524.09	\$ 15,218,315.73
5	9/15/2017	\$	275,000.00	\$	142,209.99	\$ 132,790.01	\$ 15,081,542.02
6	12/15/2017	\$	275,000.00	\$	140,931.89	\$ 134,068.11	\$ 14,943,451.86
7	3/15/2018	\$	275,000.00	\$	139,641.48	\$ 135,358.52	\$ 14,804,032.58
8	6/15/2018	\$	275,000.00	\$	138,338.65	\$ 136,661.35	\$14,663,271.40
9	9/15/2018	\$	275,000.00	\$	137,023.29	\$ 137,976.71	\$ 14,521,155.38
10	12/15/2018	\$	275,000.00	\$	135,695.26	\$ 139,304.74	\$ 14,377,671.50
11	3/15/2019	\$	275,000.00	\$	134,354.45	\$ 140,645.55	\$ 14,232,806.59
12	6/15/2019	\$	275,000.00	\$	133,000.74	\$ 141,999.26	\$ 14,086,547.35
13	9/15/2019	\$	275,000.00	\$	131,634.00	\$ 143,366.00	\$ 13,938,880.37
14	12/15/2019	\$	275,000.00	\$	130,254.10	\$ 144,745.90	\$13,789,792.10
15	3/15/2020	\$	275,000.00	\$	128,860.92	\$ 146,139.08	\$ 13,639,268.85
16	6/15/2020	\$	275,000.00	\$	127,454.33	\$ 147,545.67	\$ 13,487,296.81
17	9/15/2020	\$	275,000.00	\$	126,034.21	\$ 148,965.79	\$ 13,333,862.04
18	12/15/2020	\$	275,000.00	\$	124,600.41	\$ 150,399.59	\$ 13,178,950.46
19	3/15/2021	\$	275,000.00	\$	123,152.81	\$ 151,847.19	\$ 13,022,547.86
20	6/15/2021	\$	275,000.00	\$	121,691.28	\$ 153,308.72	\$ 12,864,639.88
21	9/15/2021	\$	275,000.00	\$	120,215.69	\$ 154,784.31	\$ 12,705,212.04
22	12/15/2021	\$	275,000.00	\$	118,725.89	\$ 156,274.11	\$ 12,544,249.71
23	3/15/2022	\$	275,000.00	\$	117,221.75	\$ 157,778.25	\$ 12,381,738.11
24	6/15/2022	\$	275,000.00	\$	115,703.14	\$ 159,296.86	\$ 12,217,662.34
25	9/15/2022	\$	275,000.00	\$	114,169.90	\$ 160,830.10	\$ 12,052,007.34
26	12/15/2022	\$	275,000.00	\$	112,621.91	\$ 162,378.09	\$ 11,884,757.91
27	3/15/2023	\$	275,000.00	\$	111,059.02	\$ 163,940.98	\$ 11,715,898.71
28	6/15/2023	\$	275,000.00	\$	109,481.09	\$ 165,518.91	\$ 11,545,414.23
29	9/15/2023	\$	275,000.00	\$	107 <i>,</i> 887.97	\$ 167,112.03	\$ 11,373,288.84
30	12/15/2023	\$	275,000.00	\$	106,279.52	\$ 168,720.48	\$ 11,199,506.75
31	3/15/2024	\$	275,000.00	\$	104,655.58	\$ 170,344.42	\$ 11,024,052.00
32	6/15/2024	\$	275,000.00	\$	103,016.02	\$ 171,983.98	\$ 10,846,908.50
33	9/15/2024	\$	275,000.00	\$	101,360.67	\$ 173,639.33	\$ 10,668,060.00
34	12/15/2024	\$	275,000.00	\$	99,689.40	\$ 175,310.60	\$ 10,487,490.07
35	3/15/2025	\$	275,000.00	\$	98,002.03	\$ 176,997.97	\$ 10,305,182.17
36	6/15/2025	\$	275,000.00	\$	96,298.43	\$ 178,701.57	\$ 10,121,119.54
37	9/15/2025	\$	275,000.00	\$	94,578.42	\$ 180,421.58	\$ 9,935,285.32
38	12/15/2025	\$	275,000.00	\$	92,841.87	\$ 182,158.13	\$ 9,747,662.44
39	3/15/2026	\$	275,000.00	\$	91,088.59	\$ 183,911.41	\$ 9,558,233.69
40	6/15/2026	\$	275,000.00	\$	89,318.45	\$ 185,681.55	\$ 9,366,981.69

	.			1	Deineinel		Purchase Option
Payment No.	Date		Payment	Interest	 Principal	~	
41	9/15/2026	\$	275,000.00	\$ 87,531.26	\$ 187,468.74		9,173,888.89
42	12/15/2026	\$	275,000.00	\$ 85,726.87	\$ 189,273.13		8,978,937.57
43	3/15/2027	\$	275,000.00	\$ 83,905.12	\$ 191,094.88	\$	8,782,109.84
44	6/15/2027	\$	275,000.00	\$ 82,065.83	\$ 192,934.17	\$	8,583,387.65
45	9/15/2027	\$	275,000.00	\$ 80,208.84	\$ 194,791.16	\$	8,382,752.76
46	12/15/2027	\$	275,000.00	\$ 78,333.98	\$ 196,666.02	\$	8,180,186.75
47	3/15/2028	\$	275,000.00	\$ 76,441.07	\$ 198,558.93	\$	7,975,671.05
48	6/15/2028	\$	275,000.00	\$ 74,529.94	\$ 200,470.06	\$	7,769,186.88
49	9/15/2028	\$	275,000.00	\$ 72,600.41	\$ 202,399.59	\$	7,560,715.31
50	12/15/2028	\$	275,000.00	\$ 70,652.32	\$ 204,347.68	\$	7,350,237.19
51	3/15/2029	\$	275,000.00	\$ 68,685.47	\$ 206,314.53	\$	7,137,733.23
52	6/15/2029	\$	275,000.00	\$ 66,699.69	\$ 208,300.31	\$	6,923,183.91
53	9/15/2029	\$	275,000.00	\$ 64,694.80	\$ 210,305.20	\$	6,706,569.55
54	12/15/2029	\$	275,000.00	\$ 62,670.61	\$ 212,329.39	\$	6,487,870.29
55	3/15/2030	\$	275,000.00	\$ 60,626.94	\$ 214,373.06	\$	6,267,066.04
56	6/15/2030	\$	275,000.00	\$ 58,563.60	\$ 216,436.40	\$	6,044,136.55
57	9/15/2030	\$	275,000.00	\$ 56,480.40	\$ 218,519.60	\$	5,819,061.36
58	12/15/2030	\$	275,000.00	\$ 54,377.15	\$ 220,622.85	\$	5,591,819.83
59	3/15/2031	\$	275,000.00	\$ 52,253.66	\$ 222,746.34	\$	5,362,391.09
60	6/15/2031	\$	275,000.00	\$ 50,109.72	\$ 224,890.28	\$	5,130,754.11
61	9/15/2031	\$	275,000.00	\$ 47,945.15	\$ 227,054.85	\$	4,896,887.62
62	12/15/2031	\$	275,000.00	\$ 45,759.75	\$ 229,240.25	\$	4,660,770.16
63	3/15/2032	\$	275,000.00	\$ 43,553.31	\$ 231,446.69	\$	4,422,380.07
64	6/15/2032	\$	275,000.00	\$ 41,325.64	\$ 233,674.36	\$	4,181,695.48
65	9/15/2032	\$	275,000.00	\$ 39,076.52	\$ 235,923.48	\$	3,938,694.30
66	12/15/2032	\$	275,000.00	\$ 36,805.76	\$ 238,194.24	\$	3,693,354.23
67	3/15/2033	\$	275,000.00	\$ 34,513.14	\$ 240,486.86	\$	3,445,652.77
68	6/15/2033	\$	275,000.00	\$ 32,198.45	\$ 242,801.55	\$	3,195,567.17
69	9/15/2033	\$	275,000.00	\$ 29,861.49	\$ 245,138.51	\$	2,943,074.51
70	12/15/2033	, \$	275,000.00	\$ 27,502.03	\$ 247,497.97	\$	2,688,151.60
71	3/15/2034	\$	275,000.00	\$ 25,119.86	\$ 249,880.14	\$	2,430,775.06
72	6/15/2034	\$	275,000.00	\$ 22,714.77	\$ 252,285.23	\$	2,170,921.27
73	9/15/2034	\$	275,000.00	\$ 20,286.52	\$ 254,713.48	\$	1,908,566.39
74	12/15/2034	Ş	275,000.00	\$ 17,834.90	\$ 257,165.10	\$	1,643,686.34
75	3/15/2035	\$	275,000.00	\$, 15,359.69	\$ 259,640.31	\$	1,376,256.82
76	6/15/2035	\$	275,000.00	\$ 12,860.65	\$ 262,139.35	\$	1,106,253.29
70	9/15/2035	\$	275,000.00	\$ 10,337.56	\$ 264,662.44	\$	833,650.98
78	12/15/2035	\$	275,000.00	\$ 7,790.19	\$ 267,209.81	\$	558,424.87
78	3/15/2036	\$	275,000.00	\$ 5,218.29	\$ 269,781.71	\$	280,549.71
80	6/15/2036	\$	275,000.00	\$ 2,621.64	\$ 272,378.36	\$	0.00
Totals	0/13/2030		275,000.00	 6,706,315.23	 15,293,684.77	<u> </u>	

OPTION A - 20 YEARS (\$275,000 LEVEL PRINCIPAL & INTEREST PAYMENTS)

FOR DISCUSSION PURPOSES ONLY

BORROWER:	CITY OF SIERRA MADRE
LENDER:	HOLMAN CAPITAL CORPORATION
COMMENCEMENT:	15-Jun-2016
TERM:	20 YEARS (\$337,500 LEVEL PRINCIPAL & INTEREST PAYMENTS)
1ST PAYMENT DUE:	15-Sep-2016
RATE:	3.8500%

KATE:	3.6500%							Purchase	
Payment No.	Date		Payment Interest				Principal	Option	
0	6/15/2016								
1	9/15/2016	\$	337,500.00	\$	180,656.65	\$	156,843.35	\$ 19,171,059.24	
2	12/15/2016	\$	337,500.00	\$	179,147.03	\$	158,352.97	\$ 19,007,955.68	
3	3/15/2017	\$	337,500.00	\$	177,622.89	\$	159,877.11	\$ 18,843,282.26	
4	6/15/2017	\$	337,500.00	\$	176,084.07	\$	161,415.93	\$ 18,677,023.85	
5	9/15/2017	\$	337,500.00	\$	174,530.44	\$	162,969.56	\$18,509,165.20	
6	12/15/2017	\$	337,500.00	\$	172,961.86	\$	164,538.14	\$ 18,339,690.92	
7	3/15/2018	\$	337,500.00	\$	171,378.18	\$	166,121.82	\$18,168,585.44	
8	6/15/2018	\$	337,500.00	\$	169,779.26	\$	167,720.74	\$17,995,833.08	
9	9/15/2018	\$	337,500.00	\$	168,164.95	\$	169,335.05	\$17,821,417.97	
10	12/15/2018	\$	337,500.00	\$	166,535.10	\$	170,964.90	\$17,645,324.12	
11	3/15/2019	\$	337,500.00	\$	164,889.56	\$	172,610.44	\$17,467,535.36	
12	6/15/2019	\$	337,500.00	\$	163,228.18	\$	174,271.82	\$ 17,288,035.39	
13	9/15/2019	\$	337,500.00	\$	161,550.82	\$	175,949.18	\$17,106,807.73	
14	12/15/2019	\$	337,500.00	\$	159,857.31	\$	177,642.69	\$ 16,923,835.76	
15	3/15/2020	\$	337,500.00	\$	158,147.49	\$	179,352.51	\$ 16,739,102.67	
16	6/15/2020	\$	337,500.00	\$	156,421.23	\$	181,078.77	\$ 16,552,591.54	
17	9/15/2020	\$	337,500.00	\$	154,678.34	\$	182,821.66	\$16,364,285.23	
18	12/15/2020	\$	337,500.00	\$	152,918.68	\$	184,581.32	\$16,174,166.48	
19	3/15/2021	\$	337,500.00	\$	151,142.09	\$	186,357.91	\$15,982,217.83	
20	6/15/2021	\$	337,500.00	\$	149,348.39	\$	188,151.61	\$15,788,421.68	
21	9/15/2021	\$	337,500.00	\$	147,537.44	\$	189,962.56	\$15,592,760.23	
22	12/15/2021	\$	337,500.00	\$	145,709.05	\$	191,790.95	\$ 15,395,215.55	
23	3/15/2022	\$	337,500.00	\$	143,863.06	\$	193,636.94	\$ 15,195,769.50	
24	6/15/2022	\$	337,500.00	\$	141,999.30	\$	195,500.70	\$ 14,994,403.78	
25	9/15/2022	\$	337,500.00	\$	140,117.61	\$	197,382.39	\$14,791,099.92	
26	12/15/2022	\$	337,500.00	\$	138,217.80	\$	199,282.20	\$14,585,839.26	
27	3/15/2023	\$	337,500.00	\$	136,299.71	\$	201,200.29	\$14,378,602.96	
28	6/15/2023	\$	337,500.00	\$	134,363.16	\$	203,136.84	\$14,169,372.01	
29	9/15/2023	\$	337,500.00	\$	132,407.97	\$	205,092.03	\$13,958,127.22	
30	12/15/2023	\$	337,500.00	\$	130,433.96	\$	207,066.04	\$13,744,849.19	
31	3/15/2024	\$	337,500.00	\$	128,440.95	\$	209,059.05	\$ 13,529,518.37	
32	6/15/2024	\$	337,500.00	\$	126,428.75	\$	211,071.25	\$ 13,312,114.98	
33	9/15/2024	\$	337,500.00	\$, 124,397.19	\$	213,102.81	\$ 13,092,619.09	
34	12/15/2024	\$	337,500.00	\$	122,346.08	\$	215,153.92	\$ 12,871,010.54	
35	3/15/2025	\$	337,500.00	\$	120,275.22	\$	217,224.78	\$ 12,647,269.02	
36	6/15/2025	\$	337,500.00	\$	118,184.43	\$	219,315.57	\$ 12,421,373.99	
37	9/15/2025	\$	337,500.00	\$	116,073.52	\$	221,426.48	\$ 12,193,304.71	
38	12/15/2025	\$	337,500.00	\$	113,942.29	\$	223,557.71	\$ 11,963,040.27	
39	3/15/2026	\$	337,500.00	\$	111,790.55	\$	225,709.45	\$ 11,730,559.53	
40	6/15/2026	\$	337,500.00	\$	109,618.09	\$	227,881.91	\$ 11,495,841.17	
10	0/ 10/ 2020	Ŷ	557,555.00	÷	100,010.00	Ŷ	227,001.01	φ <u>21</u> , 133,3 11.17	



OPTION B - 20 YEARS (\$337,500 LEVEL PRINCIPAL & INTEREST PAYMENTS)

FOR DISCUSSION PURPOSES ONLY

BORROWER:	CITY OF SIERRA MADRE
LENDER:	HOLMAN CAPITAL CORPORATION
COMMENCEMENT:	15-Jun-2016
TERM:	20 YEARS (CUSTOMIZED PAYMENTS)
1ST PAYMENT DUE:	15-Sep-2016
RATE:	3.8500%

RATE:	3.8500%				Purchase
Payment No.	Date	Payment	 Interest	Principal	Option
0	6/15/2016				
1	9/15/2016	\$ 237,500.00	\$ 164,958.13	\$ 72 <i>,</i> 541.87	\$17,577,943.62
2	12/15/2016	\$ 237,500.00	\$ 164,259.91	\$ 73,240.09	\$17,502,506.33
3	3/15/2017	\$ 237,500.00	\$ 163,554.97	\$ 73,945.03	\$17,426,342.95
4	6/15/2017	\$ 237,500.00	\$ 162,843.25	\$ 74,656.75	\$17,349,446.51
5	9/15/2017	\$ 237,500.00	\$ 162,124.68	\$ 75,375.32	\$17,271,809.93
6	12/15/2017	\$ 237,500.00	\$ 161,399.19	\$ 76,100.81	\$17,193,426.10
7	3/15/2018	\$ 237,500.00	\$ 160,666.72	\$ 76,833.28	\$17,114,287.82
8	6/15/2018	\$ 237,500.00	\$ 159,927.20	\$ 77,572.80	\$17,034,387.85
9	9/15/2018	\$ 237,500.00	\$ 159,180.57	\$ 78,319.43	\$16,953,718.83
10	12/15/2018	\$ 237,500.00	\$ 158,426.74	\$ 79,073.26	\$16,872,273.37
11	3/15/2019	\$ 237,500.00	\$ 157,665.66	\$ 79,834.34	\$16,790,044.00
12	6/15/2019	\$ 237,500.00	\$ 156,897.26	\$ 80,602.74	\$16,707,023.18
13	9/15/2019	\$ 287,500.00	\$ 156,121.45	\$ 131,378.55	\$16,571,703.27
14	12/15/2019	\$ 287,500.00	\$ 154,856.94	\$ 132,643.06	\$16,435,080.92
15	3/15/2020	\$ 287,500.00	\$ 153,580.25	\$ 133,919.75	\$16,297,143.57
16	6/15/2020	\$ 287,500.00	\$ 152,291.27	\$ 135,208.73	\$16,157,878.58
17	9/15/2020	\$ 287,500.00	\$ 150,989.88	\$ 136,510.12	\$16,017,273.16
18	12/15/2020	\$ 287,500.00	\$ 149,675.97	\$ 137,824.03	\$15,875,314.41
19	3/15/2021	\$ 287,500.00	\$ 148,349.42	\$ 139,150.58	\$15,731,989.32
20	6/15/2021	\$ 287,500.00	\$ 147,010.09	\$ 140,489.91	\$15,587,284.71
21	9/15/2021	\$ 287,500.00	\$ 145,657.88	\$ 141,842.12	\$15,441,187.33
22	12/15/2021	\$ 287,500.00	\$ 144,292.65	\$ 143,207.35	\$15,293,683.76
23	3/15/2022	\$ 287,500.00	\$ 142,914.28	\$ 144,585.72	\$15,144,760.46
24	6/15/2022	\$ 287,500.00	\$ 141,522.64	\$ 145,977.36	\$14,994,403.78
25	9/15/2022	\$ 337,500.00	\$ 140,117.61	\$ 197,382.39	\$14,791,099.92
26	12/15/2022	\$ 337,500.00	\$ 138,217.80	\$ 199,282.20	\$14,585,839.26
27	3/15/2023	\$ 337,500.00	\$ 136,299.71	\$ 201,200.29	\$14,378,602.96
28	6/15/2023	\$ 337,500.00	\$ 134,363.16	\$ 203,136.84	\$14,169,372.01
29	9/15/2023	\$ 337,500.00	\$ 132,407.97	\$ 205,092.03	\$13,958,127.22
30	12/15/2023	\$ 337,500.00	\$ 130,433.96	\$ 207,066.04	\$13,744,849.19
31	3/15/2024	\$ 337,500.00	\$ 128,440.95	\$ 209,059.05	\$13,529,518.37
32	6/15/2024	\$ 337,500.00	\$ 126,428.75	\$ 211,071.25	\$13,312,114.98
33	9/15/2024	\$ 337,500.00	\$ 124,397.19	\$ 213,102.81	\$13,092,619.09
34	12/15/2024	\$ 337,500.00	\$ 122,346.08	\$ 215,153.92	\$12,871,010.54
35	3/15/2025	\$ 337,500.00	\$ 120,275.22	\$ 217,224.78	\$12,647,269.02
36	6/15/2025	\$ 337,500.00	\$ 118,184.43	\$ 219,315.57	\$12,421,373.99
37	9/15/2025	\$ 337,500.00	\$ 116,073.52	\$ 221,426.48	\$12,193,304.71
38	12/15/2025	\$ 337,500.00	\$ 113,942.29	\$ 223,557.71	\$11,963,040.27
39	3/15/2026	\$ 337,500.00	\$ 111,790.55	\$ 225,709.45	\$11,730,559.53
40	6/15/2026	\$ 337,500.00	\$ 109,618.09	\$ 227,881.91	\$11,495,841.17

								Purchase			
Payment No.	Date		Payment		Interest		Interest		Principal	Option	
41	9/15/2026	\$	337,500.00	\$	107,424.73	\$	230,075.27	\$11,258,863.64			
42	12/15/2026	\$	337,500.00	\$	105,210.25	\$	232,289.75	\$11,019,605.20			
43	3/15/2027	\$	337,500.00	\$	102,974.47	\$	234,525.53	\$10,778,043.90			
44	6/15/2027	\$	337,500.00	\$	100,717.16	\$	236,782.84	\$10,534,157.57			
45	9/15/2027	\$	337,500.00	\$	98,438.12	\$	239,061.88	\$10,287,923.84			
46	12/15/2027	\$	337,500.00	\$	96,137.15	\$	241,362.85	\$10,039,320.11			
47	3/15/2028	\$	337,500.00	\$	93,814.03	\$	243,685.97	\$ 9,788,323.56			
48	6/15/2028	\$	337,500.00	\$	91,468.56	\$	246,031.44	\$ 9,534,911.18			
49	9/15/2028	\$	337,500.00	\$	89,100.50	\$	248,399.50	\$ 9,279,059.70			
50	12/15/2028	\$	337,500.00	\$	86,709.66	\$	250,790.34	\$ 9,020,745.65			
51	3/15/2029	\$	337,500.00	\$	84,295.80	\$	253,204.20	\$ 8,759,945.32			
52	6/15/2029	\$	337,500.00	\$	81,858.71	\$	255,641.29	\$ 8,496,634.80			
53	9/15/2029	\$	337,500.00	\$	79,398.16	\$	258,101.84	\$ 8,230,789.91			
54	12/15/2029	\$	337,500.00	\$	76,913.93	\$	260,586.07	\$ 7,962,386.26			
55	3/15/2030	\$	337,500.00	\$	74,405.79	\$	263,094.21	\$ 7,691,399.23			
56	6/15/2030	\$	337,500.00	\$	71,873.51	\$	265,626.49	\$ 7,417,803.94			
57	9/15/2030	\$	337,500.00	\$	69,316.86	\$	268,183.14	\$ 7,141,575.31			
58	12/15/2030	\$	337,500.00	\$	66,735.59	\$	270,764.41	\$ 6,862,687.97			
59	3/15/2031	\$	337,500.00	\$	64,129.49	\$	273,370.51	\$ 6,581,116.34			
60	6/15/2031	\$	337,500.00	\$	61,498.30	\$	276,001.70	\$ 6,296,834.59			
61	9/15/2031	\$	337,500.00	\$	58,841.78	\$	278,658.22	\$ 6,009,816.62			
62	12/15/2031	\$	337,500.00	\$	56,159.69	\$	281,340.31	\$ 5,720,036.10			
63	3/15/2032	\$	337,500.00	\$	53,451.79	\$	284,048.21	\$ 5,427,466.45			
64	6/15/2032	\$	337,500.00	\$	50,717.83	\$	286,782.17	\$ 5,132,080.82			
65	9/15/2032	\$	337,500.00	\$	47,957.55	\$	289,542.45	\$ 4,833,852.09			
66	12/15/2032	\$	337,500.00	\$	45,170.71	\$	292,329.29	\$ 4,532,752.92			
67	3/15/2033	\$	337,500.00	\$	42,357.04	\$	295,142.96	\$ 4,228,755.67			
68	6/15/2033	\$	337,500.00	\$	39,516.28	\$	297,983.72	\$ 3,921,832.44			
69	9/15/2033	\$	337,500.00	\$	36,648.19	\$	300,851.81	\$ 3,611,955.08			
70	12/15/2033	\$	337,500.00	\$	33,752.49	\$	303,747.51	\$ 3,299,095.15			
71	3/15/2034	\$	337,500.00	\$	30,828.92	\$	306,671.08	\$ 2,983,223.94			
72	6/15/2034	\$	337,500.00	\$	27,877.21	\$	309,622.79	\$ 2,664,312.47			
73	9/15/2034	\$	337,500.00	\$	24,897.09	\$	312,602.91	\$ 2,342,331.47			
74	12/15/2034	\$	337,500.00	\$	21,888.29	\$	315,611.71	\$ 2,017,251.42			
75	3/15/2035	\$	337,500.00	\$	18,850.53	\$	318,649.47	\$ 1,689,042.46			
76	6/15/2035	\$	337,500.00	\$	15,783.53	\$	321,716.47	\$ 1,357,674.49			
77	9/15/2035	\$	337,500.00	\$	12,687.01	\$, 324,812.99	\$ 1,023,117.11			
78	12/15/2035	\$	337,500.00	\$	9,560.68	;	327,939.32	\$ 685,339.61			
79	3/15/2036	\$	337,500.00	Ş	6,404.27	\$	331,095.73	\$ 344,311.01			
80	6/15/2036	\$	337,500.00	\$	3,217.47	\$	334,282.53	\$ 0.00			
Totals		\$ 2	5,200,000.00		8,061,493.44	Śĩ	7,138,506.56				

OPTION C - 20 YEARS (CUSTOMIZED PAYMENTS)

Exhibit D

















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Performance

15 More Features



AWWA Meter Accuracy

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EQUARIUS Waterwarks

FERGUSON Waterworks

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Price Partnership Performance

FERGUSON IN-HOUSE INSTALLATION TEAM

Proven Products

Proven Partners



Proven Processes



Proven Project Management



Nobody expects more from us than we do*

FERGUSON IN-HOUSE INSTALLATION TEAM

SACRAMENTO Department of Utilities

February 26, 2016

To whom it may concern

Loss writing to recommend the services of Ferguson Waterworks. We have been using Fun violinity to repair there are services or regulation typicates, or year average been using Forgusan Waterwinks for our AMI installation and purchases for the past seven years. During witch three they have prioritided the City's Department of Ucifies with excellent support in the areas of AMI endpoint installation, work or project management, naterial acquisition and support installation. Work has been a major factor in the City's install can end sitesystem planning. The'r work has been a major factor in the City's installation. whiler meter AMI success. They do an excellent job and stand by their product and servicos.

I can confidently recommend Ferguson Waterworks as a collidiouopter and expects in their Feld

Sincerely. Nul Melore

Michaid Matona Operations and Maintenance Microger, City of Sadramesto Department of Utilities

🔊 NEPTUNE ECHNDLOGY BROUD

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Pre

Performance

UNIQUE ADVANTAGES OF FERGUSON INSTALLATION **TEAM AND TOOLS**

MORE

BETTER

FASTER

EQUARIUS waterworks

FERGUSON

Waterworks

EOUARIUS

waterworks

FLIDING CONTRACTOR

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Nobody expects more from us than we do"



Price Partnership Performance

Ferguson has created a web-based installation database application to process and share all customer data including:

- Initial Installation Data Error Free Barcode Scan, Photo, and GPS
- Daily Work Order, Route, and Site Scheduling
- Inventory Monitor
- Completed Installation Data Profiles
- Near Real-Time Meter Change Out Data to Utility Billing Software
- Completed Door Knocks & Phone Calls
- Custom Reports and Statistics Both Individual and Summary
- Invoicing
- Installer Tracking

EQUARIUS waterwarks

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Summary of Advantages

- Your Success is OUR Success. It's not about just Meters/Automation
- Experienced Local Installation More than a million!
- Competitive in the Market
- Web Based Access for the District to Track Each Installation
- Automated, Improved Workflow Processes
 - Route Scheduling
 - Error Free Data Capture
 - Data Reporting
 - Installation/Installer Tracking
 - Inventory Control
 - Neptune Experts NO On-The-Job Training/Finger Pointing

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Sierra Madre Current Meter Situation

- City has 3,793 active accounts*
- City standardized on bronze water meters
- City utilizes touchpad & radio for meter reading
- ~1,100 new meters installed since 1/1/2011
- Remaining ~2,700 meters average 15.9 years old and need to be replaced
- On average, City spends \$75K per year for meter replacement
- · As water meters age, they lose their accuracy



EQUARIUS

10 a 1 c r al.a.i ks Paperson interpose

Increased Billings from New Accurate Meters

	<u>FY 2015-16</u>
Water Revenues:	\$4,373,849
Wastewater Revenues:	<u>\$806,077</u>
Total Revenues:	\$5,179,926

- ~70% of meters need to be replaced (2,700 / 3,800)
- ~70% of meters represents ~\$3.1M of revenue (70% * \$4.4M)
- Water bill is based on fixed and variable charges (50% variable & 50% fixed)
- Wastewater is flat-rate billed for residential & variable for commercial (ignored for purpose of these calculations)
- Share of revenue based on variable charge = \$1.55M (50% * \$3.1M)
- Meters to be replaced are only 92% accurate based on analysis
- Increased billings from new meters is \$135K ((\$1.55M/.92) \$1.55M)

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Financial Benefits from AMI System
 Improved meter accuracy should increase City's consumptive water revenue

 Increased billings = \$135,000 per year

- AMI will increase City's operational efficiencies
 - \$35,000 in cost savings per year
 - Elimination of manual reads
 - Elimination of re-reads / estimating
 - Reduction in customer service calls
 - Virtual turn-ons & turn-offs
 - Reduction in bill credits





MORIDIZE L

EQUARIUS

waterworks

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	FERGUSON Waterworks
Summary of Project Financials	
 Funding Source Accuracy Improvement = Operational Savings (reads & re-reads) = TOTAL 	\$135,000 \$35,000 \$180,000
Project Cost	\$675,000
New Radio Meters = Retrofit Radio Registers =	\$125,000
New Meter Box Lids = Meter and Retrofit Register Installation =	\$100,000 \$260,000
Reading Infrastructure & Installation = Sales Tax on Materials =	\$120,000 \$85,000
TOTAL = • Payback period of 7.6 Years. Solution Life = 20 years () NEPTLINE • LECTROLOGY CROOP	\$1,365,000

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Non-Financial Benefits of AMI

- Advanced leak detection
- Improved water conservation
- · Enhanced customer service
- · Consumption behavior available to residents online
- Ability to provide hourly consumption data
- Increased operational efficiencies
- · Elimination of human error in meter reading
- Elimination of estimated reads
- Elimination of truck roll for move-ins/move-outs
- Recovery of lost revenue
- * Green initiative Reduction in carbon footprint









Propagation Collector Locations

Name	Latitude	Longitude	Elev (ft)	AntHgt (ft)
Auburn Reservoir 800 Auburn Avenue	34.174476	-118.055065	1334	40
Little Santa Anita Damn 850 Woodland Drive	34.176159	-118.043155	1177	30
Sjerra Vista Park 631 E. Sjerra Madre Blvd.	34,163133	-118.039194	697	60



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Further Refinement to Financial Model

- Refine analysis and costs for Capital Projects Budget which is due ???
- Determine cut-off year for retrofit vs replacement (to verify exact quantity of meter change-outs vs. retrofits
- Discuss locations to install reading infrastructure
- Discuss hosted versus non-hosted software solution
- · Discuss potential of reusing lid holes vs. replacing
- Discuss condition and accuracy of large meters (3"+)
- Provide live demonstration of software & customer portal
- Discuss procurement methodology for AMI project

EOUARIUS 🛞 NEPTUNE waterworks LECHNOLOGY DROU Nobody expects more from us than we do[®] 11 HORON Materaonik Price Partnership Performance **Meters and Endpoints NO WARRANTY GIMMICKS** (Let Us Explain) EQUARIUS () NEPTUNE waterwarks

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PATHON

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CUST

Supporting 180 CIS/Billing Systems

waterworks

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Sensors

- FC5 • Keller America

Vivax.Metrotech.



waterworks

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COVER LETTER rene for the Integrated Size and excited to provide a proposal for the Integrated Fixed-Network Advance (Second Network Size (Advance (Advi)) System & Customer Information System (CIS) with Utility Billing Solution. terns for each usy and are a provider of an integrated AMI and CIS solution that we believe offers the cuty Sena vadre ("the City") a rapid, proven and guaranteed turn-key project to support the City's vision. experience as a utility and our proven, low-risk solutions will provide immediate and direct benefit; ing maximum value to the City. In addition, FATHOM ensures that the City's current and future objective will be met: ATHOM is a completely turn-key, advanced suite of integrated utility services. FATHOM is cloud based, and as such, requires no additional staff or IT resources. ATHOM is a risk-free solution to purchasing, implementing and maintaining a billing system of your own with FATHOM, The City will realize and maintain increased revenue, decreased costs, and enhanced customer experience while saving water. hank you in advance for your consideration of our offering. We look forward to a successful partnership that offers the City the best opportunity to leverage the economic, social and environmental management of this vital resource-and access state-of-the-art technology solutions that save money, time and water. Jason Bethke President and Growth Officer 480.252.2189 ason.Bethke@gwfailion.com 2 UTIENTY-TO-UTIENTY SOLUTIONS



























	Oty of Serra Madre		per Metor r Month	Ar	mual Cost			
	HARD	OSTS				ویکر 		
	Labor Costs	5	8,09	Ş	363,130			
	Bill Printing and Postage	\$	0,29	\$	12,981			
	Fuel & Vehicle Maintenance	\$	0.00	\$	210			
	MR Hardware/Software	\$	0.04	\$	2,000			
	Meter Changeout Budget	\$	0.26	\$	11,600		17 M	
	Utility Billing Software M&S	\$	0.29	\$	13,000			
	Total Hard Costs	\$	8.98	\$	402,921			
	REVENU	E LOSS						
	Water Loss	\$	8,08	\$	362,595			
	Missing Meters/Incorrect Accounts	\$	0.51	\$	22,800			
	Bad Debt Write Off	\$	-	\$	-			
	Total Revenue Loss	\$	8,58	\$	385,395			
an a	-COST OF SERVIC		MENTS		-945 B			
	Bill Printing and Postage (Monthly)	\$	0,29	\$	12,981-	/		
	AMI Equipment Cost	\$	2,90	\$	130,190	, .		
ager fair agus f	Total Cost of Service Adjustment	s \$	3.19	\$	143,171			
and a subscription of the	Total Cost of Service	\$	20.75	\$	931,488	an the statements of	alla al second de la constante	NUM TO THE OTHER DOCUMENTS AND A COMPANY
		6			1999 - ANNO 2007	en frederige och	EAT	FHØN
LUTICITY TO UTILITY SOLUTIONS		- U						

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	Oty of Serra Madre		er Meter Month	Ann	ual Cost				
	Total Cost of Service	\$	20.75	\$	931,488				
	FATHOM FUL	I BUND	1-1-2-2-0						
	Managed Services and SaaS	\$ \$	4.37	\$ \$	196, 1 78			a an	
	Meters and AMI Infrastructure	`\$	5.27	∓ \$	236,734				
	Total FATHOM Full Bundle	\$	9,64	\$	432,912		1997年1月1日		
an a	RETAINED	(0)STIS					17,49		
	59% Labor Costs Retained by City	\$	4.77	\$	214,320				
	60% Unrecoverable Water Loss	\$	4.85	\$	217,557				
	10% Unrecoverable Bad Debt	\$	-	\$	-			and the second s	
	Total Retained Costs	\$	9.62	\$	431,877	;		n dige An dige An dige	
	Cost of Service with FATHOM	\$	19.26	\$	864,790		·		
							Z.		
	POTENTIAL SAVINGS	S S	1.49	\$	66,698				

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5/17/2016





5/17/2016











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Question		Answers
Does the City lose ownership?		No, agreement is structured as a lease. The government retains ownership.
Why Veolia and not just new financing?	1	Veolia's expertise guarantees savings and provides comfort to bondholders, which in turns facilitates financing that is not otherwise available. In addition, depending on the City's circumstances and objectives, there are ways to mitigate or eliminate the cost of money differential.
What happens to current and future rates?		Future rates are typically agreed in the contract or reviewed in an agreed rate-setting process with the City. Since the transaction is funded by operational and other savings, rates do not need to rise more than they would without the project.
What happens if operator does a bad job or defaults?	(188	In either case, bondholders of asset have right to appoint new operator, subject to City approval.
What happens to existing employees?		The terms for existing employees will be defined in the agreement as per City preferences; typically, employees would transfer to the new operator.
Do I have to take an up-front	ranaanta.	No, payment can be structured as an up-front payment or payment over time – or both.

	Neek																	
ANT.	24	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
RFEI (Optional)																		
RFQ/P			20															
Selection								Ŵ										
Negotiations																		
Council vote or other governance process																		
Contract signature																		
Financial close																		
Funding to City and O&M transition																		



Discussion, Part 2

Water Technology Difficult to conserve water since users unaware of where water is being used. Deferred Maintenance Deferring close to \$150K a year for maintenance which gets more expensive as time progresses.

13

AMI

Improved water management, billing, leak detection, less staff stress, and more.

Goncess 🏠 Webinar



5/17/2016







Exhibit G



City of Sierra Madre Agenda Report

Nancy Walsh, Mayor John Harabedian, Mayor Pro Tem John Capoccia, Council Member Chris Koerber, Council Member Josh Moran, Council Member

Nancy Shollenberger, City Clerk Richard Mays, City Treasurer

TO: Honorable Mayor Walsh and Members of the City Council

FROM: Elaine I. Aguilar, City Manager

INITIATED BY: Bruce Inman, Director of Public Works Jose Reynoso, Water Superintendent Karin Schnaider, Finance Director

DATE: September 24, 2013

SUBJECT: RECOMMENDATION TO APPROVE PURCHASE AND INSTALLATION OF ADVANCED METERING INFRASTRUCTURE FOR SIERRA MADRE WATER SYSTEM

SUMMARY

The Public Works Department has received proposals from two firms for the procurement and installation of Advanced Metering Infrastructure (AMI) components citywide. These proposals allow the City to know exactly what a full AMI system will cost, prior to water and sewer rate-setting, should the City Council wish to include AMI costs in the current rate study. AMI will provide multiple benefits to the city, including enabling customers and the city to monitor water use in real time.

Staff recommends that the City Council approve the installation of a citywide AMI system, awarding the contract to Concord Utility Services for an amount not to exceed \$1,406,385; with the procurement of Sensus AMI meters and AMI appurtenances from Agua-Metric; and, provide staff with direction as to:

- Which financing option to utilize in funding the project; and
- What funding source to utilize for funding the project, ie water funds, sewer funds, general funds.

ANALYSIS

On January 22, 2013 the City Council directed staff to prepare a Request for Proposals (RFP) for the purchase of replacement water meters and associated software and computer equipment to institute an Advanced Metering Infrastructure (AMI) water metering system. Staff was further directed as a goal of the April 2013 Strategic Plan to present to the City Council for consideration the implementation of radio-read water meter replacement. On June 25, 2013 the City Council approved the Request for

FOR CITY COUNCIL AGENDA

AGENDA ITEM # 3

Proposals as prepared by staff. The RFP was subsequently issued to four potential bidders.

Two firms provided proposals in response to the city's RFP. The other two firms requested an extension on the bidding period so that they could do their own propagation study and were advised by staff that the bid date was firm.

Firm	Installation	Web Access	Equipment	Total Bid
Aqua-Metric	\$351,347.00	\$159,200	\$895,837.21	\$1,406,384.21
Equarius	\$449,985.25	\$86,951.20	\$962,508.55	\$1,499,445.00

Both of the bidders have provided proposals for the financing of the project. Each bidder was using the same financing institution, but each bidder proposed slightly different rates.

Aqua-Metric Financing Proposal

Term	5 Years	7 Years	10 Years	Total (10 years)
Annual Payments	\$310,407.68	\$232,336.94	\$173,092.92	\$1,730,929.20
Payments Begin	9/15/2014	9/15/2014	9/15/2014	
Indicative Fixed Rate	3.40%	3.79%	3.98%	

Equarius Water Works Financing Proposal

Term	5 Years	10 Years (Fixed)	10 Years (w/5 Yr Adjust)	Total (10 year fixed)
Annual Payments	\$331,038.17	\$184,669.67	\$180,227.57	\$1,846,699.70
Payments Begin	9/15/2014	9/15/2014	7/01/2014	
Indicative Fixed Rate	3.40%	3.98%	3.50% adj.	

AMI PROJECT BENEFITS

Annual increased revenue due to improved meter accuracy has been estimated at approximately \$332,500. This annual benefit is somewhat higher than the annual payments proposed by the bidders for 5, 7 or 10-year financing arrangements. Thus, allowing for variations in the actual savings, the project could actually pay for itself in five years.

The benefits of implementing AMI water metering are not limited to strictly financial benefits to the City. An additional benefit is the ability to monitor water production vs. water use in real time, without the delays inherent in manual meter reading. This would

allow the City to more accurately quantify water system leakage as real-time metered water production can be *directly* compared to real-time metered use.

Perhaps the greatest benefit of an AMI system at this time is that it will allow customers to better monitor their own water use. Staff has frequently heard from customers that they are having a difficult time with the required water conservation when they have only a water bill by which to monitor their use; a bill that arrives more than two months after the start of the subject billing period. The proposed AMI system will allow for customers to get up-to-the-hour water use data via the internet. If mandatory water conservation will be in place for Sierra Madre until the Raymond Basin levels return to the 500 foot level, then the City's water customers will need the AMI tool for their long term conservation efforts. The more water that customers can conserve through careful monitoring of their use, the less water will have to be imported from expensive outside sources.

AMI will also provide the City with the ability to quickly detect abnormal water use and provide notification to customers that they may have a leak on their property.

Should the City Council approve the installation of the AMI system at this time, it is expected that the system would be installed and operational by the end of FY 2013-14. If the Council chooses to reject the bids and direct staff to re-advertise the project in the hope of getting more or better bids, the project would be delayed by at least two months, the project costs may go up, and financing interest rates may increase. Or should the Council choose to reject the bids and wait to see how the Gas Company program develops, there will be a delay until at least January 2014 before that program starts, and even then there is no guarantee that the program would cover all of Sierra Madre or that the program would be supported by the Gas Company for more than 12 months.

FINANCIAL REVIEW

The projected end of year fund balance for the water fund does not allow for the purchase of the AMI system through the use of reserves. While the June 30, 2014 fund balance is projected at \$1,587,717 it should be noted that under current revenue levels, over \$581,600 is committed in FY 2014-15 to cover operational costs. The June 30 2015 fund balance is \$957,020.

Under the proposals, the City Council has several options for funding the costs of the AMI. First, when considering the use of long-term capital financing, the useful life of the both the hard and soft equipment should be considered. In both cases, it is assumed that a ten year useful life can be applied. In the case of the meters, the City had previously had a 10-15 year rotation of meters. With the full meter inventory being replaced, it can be assumed that current annual budget for meter replacement (\$100,000 annually) can be delayed at least 8 or more years.

Approve AMI System 9/24/2013 Page 4 of 7

The second item for the City Council's consideration is the funding sources available. The funding source with the most financial gain is the Water fund; however, the Sewer fund's current rate study may provide a nexus to water consumption in its rate structure calculation. Therefore, the Sewer Fund could also become a beneficiary of the AMI system. As a third funding source, the City Council could also consider any use of the General Fund. There is a small nexus to water consumption on Utility User Tax, but the overriding factor is the City Council has full discretion over use of the General Fund resources and it may choose to use a portion of Unrestricted Fund Balance as a potential funding source.

To summarize, the City Council has four financing options available. For example when considering the seven year financing option, the City would be able to dedicate the existing Water Fund meter replacement budget with a net zero impact to the budget, leaving \$132,000 annually to fund. The City Council could then take the remaining balance and divide any portion among Water, Sewer and/or the General Fund, for example, \$50,000 Water and Sewer funds each and \$32,000 from the General Fund. However, any combination of funding sources could be considered. These items would then be applied to the future Water and Sewer rate structure currently under consideration. In the General Fund, the seven year, \$32,000 payment, totaling \$224,000 could be committed from the General Fund's Unrestricted Reserves, (not future operations).

ENVIRONMENTAL REVIEW

The proposed project is exempt from CEQA as a replacement or reconstruction project under Section 15302(c) of the Guidelines, "Replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity."

LEGAL REVIEW

Aqua-Metric is the apparent low bidder on the project. Equarius, the other bidder, has claimed the bid from Aqua-Metric is invalid because Aqua-Metric, which is a supplier/manufacturer of the meters, does not possess a state contractor's license and may not rely on the contractor's license of its subcontractor, Concord Utility Services. Equarius is a licensed contractor. Under state law, cities may only contract with licensed contractors for public works projects. Installation of the meters is a public works project requiring the employment of licensed contractors.

In consultation with the City Attorney, staff has concluded that it would be feasible to bifurcate the installation and materials/supplier portions of the bid and contract directly with Concord Utility Services as general contractor for installation, with the Sensus meters supplied through Aqua-Metric. In order to do so, the City waives the bid irregularity; this does not change the dollar value of the bid, the parties or the roles of each of the parties, and therefore we do not think it creates an unfair bidding advantage. Should the City Council select to go with the Aqua-Metric option, the installation contract may be entered into directly with Concord Utility Services, the

licensed contractor specified in the Aqua-Metric bid. Aqua-metric will simply be the supplier of the meters and other equipment.

Equarius has been informed of staff's determination and has not indicated any further objection; it is unknown whether representatives of Equarius will be present at this evening's meeting to lodge a protest of staff's recommendation to the City Council. Council also has the option of rejecting all bids and, by a 4/5th vote, determine that the project can be performed more economically through day labor or open market purchase of materials and supplies and thereby dispense with further bidding.

Southern California Gas Company

Subsequent to the bids being received, staff was approached by representatives of Southern California Gas Company with an offer to assist the City with AMI implementation as part of a one-year pilot project the Company will be starting in the first guarter of 2014.

The Gas Company proposal on September 10 did not allow time to do further research or ask follow-up questions of the Gas Company representatives, so the proposal remains somewhat vague. Nevertheless, in the interest of full disclosure, staff is providing the City Council with the information we do have. A copy of the Gas Company proposal is attached to this report.

- The Gas Company is installing AMI infrastructure to cover its entire system, including Sierra Madre.
- The Gas Company will begin a pilot project under which they will explore the feasibility of utilizing its backbone infrastructure for data receiving and processing with the metering systems of other utilities.
- The Gas Company uses exclusively metering equipment made by the Aclara Company.
- The City would purchase and install Aclara meters and radio endpoints.
- The Gas Company's backbone Aclara infrastructure to receive the transmissions from our meters; collecting the water meter data and sending it to The Gas Company where it would be processed.
- The Gas Company would then send the data to the city for the city's use.
- By utilizing the Gas Company backbone system, the City could potentially save as much as \$170,000 in initial system start-up costs.
- The Gas Company proposal indicates that the cost of the pilot program to the City would be \$5,000, but does not indicate what that amount gets for the city.
- Gas Company representatives could not commit to Gas Company support of the Aclara water billing system beyond the one-year term of the pilot program, nor could they commit to providing the 3,808 endpoint system that Sierra Madre would need to serve the entire city.
- It is not known if the Gas Company system can "communicate" seamlessly with the City's utility billing system or what the cost and availability of Aclara metering products are.

• The program is still under development at this time. Pages 13-15 of the attached proposal from the Gas Company list some of the limitations of the program or areas of the program still under development.

The Gas Company proposal could be advantageous to the city by saving some of the initial system startup costs as well as saving the city the maintenance of the backbone data gathering system. It could also be advantageous in that The Gas Company is patterning its AMI system operations after those that have been successfully implemented by P,G & E, so that there is expertise in system installation available.

There is much that remains unknown at this time regarding the Gas Company proposal; it is too early for staff to be able to make a recommendation to the City Council regarding the costs or feasibility of the proposal; again the proposal is being presented in the interest of disclosing that there *may* be other options available to the city for AMI.

ALTERNATIVES

The City Council has a number of alternatives to consider at this time:

- 1.) Approve the installation of a citywide AMI system, awarding the contract to Concord Utility Services for an amount not to exceed \$1,406,385; with the procurement of Sensus AMI meters and AMI appurtenances from Aqua-Metric; and, provide staff with direction as to:
 - Which financing option to utilize in funding the project; and
 - What funding source to utilize for funding the project, ie water funds, sewer funds, general funds.
- 2.) Approve the purchase and installation of AMI system as proposed by Equarius Waterworks utilizing Neptune metering equipment in an amount not to exceed \$1,499,445; and provide staff with direction as to:
 - Which financing option to utilize in funding the project; and
 - What funding source to utilize for funding the project, ie water funds, sewer funds, general funds.
- 3.) Reject the bids from Aqua-Metric and Equarius and:
 - a.) Direct staff to re-advertise the project
 - b.) Direct utility rate consultant and staff to utilize one of the bid amounts listed here in the current rate study to allow for the purchase of the AMI system under the proposed rate structure
 - c.) Direct staff to obtain additional information regarding the Gas Company proposal and return the matter of AMI metering to the City Council for further discussion.

Approve AMI S	ystem
9/24/2013	
Page 7 of 7	

PUBLIC NOTICE PROCESS

This item has been noticed through the regular agenda notification process. Copies of this report are available at the City Hall public counter, at the Sierra Madre Public Library, and on the City's website at <u>www.cityofsierramadre.com</u>.

STAFF RECOMMENDATION

Staff recommends that the City Council:

Approve the installation of a citywide AMI system, awarding the contract to Concord Utility Services for an amount not to exceed \$1,406,385; with the procurement of Sensus AMI meters and AMI appurtenances from Aqua-Metric; and, provide staff with direction as to:

- Which financing option to utilize in funding the project; and
- What funding source to utilize for funding the project, ie water funds, sewer funds, general funds.

Attachments:

Exhibit A - June 25, 2013 City Council Staff Report w/minutes

Exhibit B - January 22, 2013 City Council Staff Report w/minutes

Exhibit C – Aqua-Metric bid sheet w/ correction letter

Exhibit D – Equarius bid sheet

Exhibit E – Gas Company Proposal