Madison Water Utility Application to Increase Water Rates Notes to Application

Attachment 1

Bills listed on this attachment, with the exception of the 6" meters in the Industrial class, are for usage over a 6-month period. The 6" Industrial meters listed are for usage during a 1-month period. Going forward, all customers will be billed monthly in units of 1,000 gallons.

Attachments 2A, 2B, 2C, 3A, 3B

The Utility does not currently have separate rates for Multi-Family customers; they have been classified in the past, and charged the same rates, as Commercial customers. For this reason, they have been combined into the same customer class in Attachments 2A and 2B. The Utility plans to propose different rates for Multi-Family customers going forward, based on an analysis of their consumption patterns. Projections in Attachments 3A and 3B break them out from Commercial customers so they are properly accounted for in the determination of appropriate rates.

Attachment 8

The reduction in taxes under "Other" is for capitalized taxes. The projections for 2014 and 2015 are based on the estimated balance of CWIP, from Attachment 9.

Attachment 9

Change in CWIP from January 1, 2014 to January 1, 2015 includes reclassification of an estimated \$10,709,132 to Utility Plant in Service and new Construction Work in Progress of \$1,026,000. (See Exhibits)

Attachment 10AB

Account 614 – 2015 test year amount is an annualized amount based on a 10-year average of expenses in this account. The 10-year average includes amounts recorded in the Utility's annual reports for 2004 through 2013, plus costs recorded in CWIP in 2007 and 2009 and not closed out yet for wellhead protection plans (See Exhibits).

Account 623 – Estimated 2014 and 2015 Test Year are based on a monthly analysis of gas and electric charges for 2013 and year to date 2014 (through July), adjusted for anticipated changes in gas and electric rates (see Exhibits).

Account 630 - Maintenance Supervisor position was vacant January through July 2013.

Account 643 - Increase in 2013 was due to UW 15 groundwater study to find the source of PCE contaminants which was closed in 2013. 2015 test year amount is an annualized amount based on a 10-year average of expenses in this account.

Account 672 – 2015 test year amount is an annualized amount based on a 10-year average of expenses in this account, including painting of Unit Well 26 tower in 2009.

Account 923 – 2015 test year amount is an annualized amount based on a 10-year average of expenses in this account, adjusted to include costs recorded in CWIP in 2010 and not closed out yet for the Eastside Water Supply Study.

Attachment 11

Estimated additions to Utility Plant in Service for 2014 and 2015 include the following:

- \$18,833,920 of new construction in 2014 for projects expected to be completed in 2014
- \$7,583,000 of new construction in 2015 for projects expected to be completed in 2015
- \$10,709,132 of transfer from CWIP to Utility Plant in 2014 and \$5,278,018 in 2015

Estimates of Utility Financed new construction are taken from the Utility's 2014 and 2015 Capital Budgets (see Exhibits). Additions in 2014 are the sum of the 2013 carryover plus the estimates of work that will be completed in 2014. Estimates of work that will be completed in 2014 are the amount budgeted for 2014, less the 2014 carryover, less the amounts for projects for which construction will extend beyond 2014 (which were treated as additions to CWIP).

Estimates of CWIP expected to be booked as Utility Financed assets in 2014 and 2015 are from the Utility's report titled "Work in Progress: Work Orders in 10700", dated 12/31/2013 (see Exhibits).

Amounts recorded under Account 349 Other transmission and distribution plant as of 12/31/2013 were reclassified based on the work descriptions recorded on the Utility's report titled "Work in Progress: Work Orders in 10600", dated 12/31/2013 (see Exhibits). This account is used for capital projects that have been completed and placed in service but not yet classified.

Retirements for 2014 and 2015 were estimated based on 2008-2013 averages for retirements as a percentage of additions. Mains, services and hydrants were estimated based on a percentage applied to the cost of main replacement projects. The percentages for mains, services and hydrants were based on the 2008-2013 estimated cost of main replacements only (not included new main extensions) and the average amount recorded for mains, services and hydrants retirements as a percentage of the main replacements. It is assumed that 38.6% of mains and 38.0% of services and hydrants that are retired were utility-financed.

In total, it is anticipated that the Utility will complete approximately \$20.0 million of its capital improvement program in both 2014 and 2015. Of this amount, \$1,026,000 in 2014 and \$12,146,000 in 2015 is for projects that will be completed in future years. These amounts were treated as increases to CWIP. Another \$225,000 in 2014 and \$280,000 in 2015 is for studies and plans that will be treated as O&M expenses.

	Utility Plan	t Additions	CWIP A	dditions	08	kΜ	
	2014 2015		2014	2015	2014	2015	Total
 2014 CIP	\$18,833,920		\$1,026,000		\$225,000		\$20,084,920
2015 CIP		\$7,583,000		\$12,146,000		\$280,000	\$20,009,000
 Existing CWIP	\$10,709,132	\$5,278,018					\$15,987,149
Total	\$29,543,052	\$12,861,018	\$1,026,000	\$12,146,000	\$225,000	\$280,000	\$56,081,069

Attachment 11a

Estimated additions to contributed plant are based on the average additions for 2008-2013. Estimated retirements are based on the average percentage of retirements as a percent of main replacement projects and an assumption of 61.4% of mains and 62.0% of services and hydrants that are retired were contributed.

Attachment 12

Account 328 – No depreciation accrual for 2014 or 2015 – assets are fully depreciated and no additions are anticipated.

Account 393 – No depreciation accrual for 2014 or 2015 – assets are fully depreciated and no additions are anticipated.

Account 395 – No depreciation accrual for 2014 or 2015 – assets are fully depreciated and no additions are anticipated.

Account 397 – Assets were fully depreciated at 12/31/2013. Depreciation accrual for 2014 is based on additions in 2014. Accrual for 2015 is based on anticipated additions for 2014 and 2015.

Additional adjustments are for clearing accounts.

Attachment 14

Amortization Expense – This is the amortization of the early retirement loss on the replacement of meters, authorized in a letter dated June 23, 2014.

The Utility is requesting a higher rate of return in order to provide adequate cash flow to support debt service for its capital improvement program. The Utility's anticipated cash flow is shown in the attached Exhibits under two financing scenarios.

Attachment 15

The Utility funds all of its construction projects from a special construction fund. Debt is issued on an ongoing basis (usually one debt issuance per year) as needed to replenish the fund. No debt issuance is anticipated in 2014; however a larger debt issuance is planned for 2015.

Exhibit 1 - support for Attachments 9, 11, 11a

Categorization of Capital Improvement Program and CWIP

			2014										
			Additions										
			(2013			2015 Additions -	2015	2015 Additions -	2015				
		Construction	Carryover +	2014	2014	Major (2014	Retirements -	Routine (2014	Retirements -	2014 Increase	2015 Increase		
	Project (Subaccounts)	Docket No.	2014)	Retirements	Adjustments	Carryover)	Major	Carryover)	Routine	to CWIP	to CWIP	2014 CIP	2015 CIP
7	Water Mains - Replace/Rehab/Improve												
343	Mains		\$7,147,200	\$149,333				\$2,464,976	\$51,503				
345	Services		\$649,264	\$58,382				\$223,923	\$20,135				
348	Hydrants		\$916,536	\$43,722				\$316,101	\$15,079				
,	Water Mains - New												
343	Mains - Utility-Financed		\$882,634	\$0				\$237,885	\$0				
345	Services - Utility-Financed		\$80,180	\$0				\$21,610	\$0				
348	Hydrants - Utility-Financed		\$113,186	\$0				\$30,506	\$0				
:	Zone 4 Fire Flow Supply Augment									\$230,000	\$185,000		
	Arbor Hills Suppl Fire Flow Supply	3280-CW-111											
343	Transmission and Distribution Mains		\$0	\$0		\$642,000			\$0				
	East Side - Well 7 Fe&Mn Filtration	3280-CW-115											
312	Collecting and Impounding Reservoirs		\$549,000	\$79,000		\$506,000			\$0				
321	Structures and Improvements		\$573,000	\$0		\$530,000			\$0				
325	Electric Pumping Equipment		\$150,000	\$0		\$138,000			\$0				
325	Electric Pumping Equipment		\$420,000	\$0		\$388,000			\$0				
325	Electric Pumping Equipment		\$397,000	\$0		\$366,000			\$0				
331	Structures and Improvements		\$103,000	\$0		\$95,000			\$0				
334	Other Water Treatment Equipment		\$484,000	\$0		\$447,000			\$0				
334	Other Water Treatment Equipment		\$80,000	\$0		\$74,000			\$0				
	UW 29 Filter Capacity Expansion	2200 CW 100	\$0	\$0		¢44C 000			\$0				
332	Sand and Other Media Filtration Equipme Zones 7 & 8 Supplemental Supply	3280-CW-108	\$0	\$0		\$446,000			\$0	\$0	\$397,000		
	Lakeview Reservoir Reconstruction									\$234,000	\$397,000		
	System Wide Miscellaneous Projects									3234,000	32,740,000		
312	Collecting and Impounding Reservoirs (1)(2)	\$410,167	\$0									
	Wells and Springs (1)(2)												
314			\$410,167	\$0									
317	Other Water Source Plant (2)		\$133,750	\$0									
323	Other Power Production Equipment (2)		\$214,000	\$0									
325	Electric Pumping Equipment (1)(2)		\$410,167	\$195,111									
345	Services ⁽²⁾		\$64,200	\$0				\$40,000	\$0				
346	Meters (2)		\$192,600	\$0									
389	Land and Land Rights (2)		\$133,750	\$0									
390	Structures and Improvements (2)		\$256,800	\$27,016									
397	SCADA Equipment (2)		\$81,320	\$63,453									
	Paterson St. Bldg Remodel/Upgrade		+,	700,.00						\$76,000	\$6,771,000		
	Booster Station 106 Reconstruction	3280-CW-114								. ,	. , ,		
325	Electric Pumping Equipment		\$106,000	\$0									
325	Electric Pumping Equipment		\$287,000	\$0									
325	Electric Pumping Equipment		\$290,000	\$0									
331	Structures and Improvements		\$378,000	\$0									
331	Structures and Improvements		\$21,000	\$0									
343	Transmission and Distribution Mains					\$616,000			\$0				
	Upgrade Booster Pumps at UW 20	3280-CW-113											
325	Electric Pumping Equipment		\$150,000	\$0									
	Misc. Pump Station/PRV/Facility Projs.												
323	Other Power Production Equipment (3)		\$220,000	\$0									
325	Electric Pumping Equipment (3)		\$1,705,000	\$811,045									

Exhibit 1 - support for Attachments 9, 11, 11a

Categorization of Capital Improvement Program and CWIP

343 Ir	Project (Subaccounts) Transmission and Distribution Mains ⁽³⁾ ron & Manganese Filter at Well 19	Construction Docket No.	2014 Additions (2013 Carryover + 2014) \$825,000	2014 Retirements \$0	2014 Adjustments	2015 Additions - Major (2014 Carryover)	2015 Retirements - Major	2015 Additions - Routine (2014 Carryover)	2015 Retirements - Routine	2014 Increase to CWIP \$6,000	2015 Increase to CWIP \$338,000	2014 CIP	2015 CIP
v	Vell 12 Conversion to Two-Zone Well									\$0	\$48,000		
U	pgrade of BPS 115										\$1,667,000		
<u>E</u>	ast Side Replacement Well (Well 3)									\$480,000			
S	ubtotal New Construction		\$18,833,920	\$1,427,061		\$4,248,000	\$0	\$3,335,000	\$86,717	\$1,026,000	\$12,146,000	\$19,859,920	\$19,729,000
_	WIP Being Placed into Service (\$17,042,198)												
343	Mains		\$1,642,210					\$3,825,932					
345	Services		\$71,080					\$60,096					
348	Hydrants		\$211,960					200,030					
346	Meters		\$9,086						\$1,867				
317	Other Water Source Plant		40,000						+ =/				
342	Distribution Reservoirs and Standpipes		\$1,370,537					\$208,654					
314	Wells and Springs		\$810,886					\$878,873					
321	Structures and Improvements		\$2,429,295					\$36,571					
332	Sand and Other Media Filtration Equipmer	nt	\$3,355,607										
334	Other Water Treatment Equipment							\$10,287					
325	Electric Pumping Equipment		\$485,979					\$192,138					
397	SCADA Equipment		\$29,234										
323	Other Power Production Equipment		\$73,061					\$3,344					
392	Transportation Equipment		\$205,133										
390	Structures and Improvements							\$36,864					
397	Communication Equipment		\$15,064					\$25,258					
S	ubtotal - CWIP ⁽⁴⁾		\$10,709,132	\$0	\$1	0 \$0	\$0	\$5,278,018	\$1,867	\$0	\$329,539		_
	Total Capital		\$29,543,052	\$1,427,061		\$4,248,000		\$8,613,018	\$88,584				
С	IP Projects Treated as O&M												
923 V	Vest Side Water Master Plan		\$75,000					\$175,000					
923 U	pdate Infrastructure Plan		\$150,000										
923 A	sset Management Plan							\$105,000					
S	ubtotal - O&M		\$225,000					\$280,000				\$225,000	\$280,000

Total CIP \$20,084,920 \$20,009,000

Exhibit 2 - support for Attachment 10AB

Operation and Maintenance Expenses: 2004-2013

Account											
Code	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average
614 ⁽¹⁾	1,345	274,639	44,525	168,184	51,381	62,298	28,793	114,386	0	469	74,602
630	53,998	56,617	50,556	63,349	63,213	64,390	68,078	66,157	70,113	44,182	60,065
643	4,647	11,852	79,856	74,482	62,314	11,970	20,307	9,896	8,837	103,312	38,747
672	9,766	3,864	8,161	5,462	36,461	419,975	10,923	7,700	13,164	13,430	52,891
923 ⁽²⁾	154,372	301,604	217,945	590,093	163,970	44,190	704,640	102,429	92,788	70,257	244,229

Notes:

^{(1) 2007} and 2009 expenses are adjusted to include costs for wellhead protection plans incurred in those years that have not been closed out yet.

^{(2) 2010} expenses are adjusted to include costs for the Eastside Water Supply Study that has not been closed out yet.

2013 & 2014 Gas and Electrical Usage - MG&E Only

Bill Date		Gas	Ele	ctricity	Total
1/4/13		5,216.88	1	157,338.77	162,555.65
2/5/13		9,531.46	1	185,222.91	194,754.37
3/5/13		10,693.26	1	184,099.02	194,792.28
4/3/13		8,312.66	1	180,556.59	188,869.25
5/3/13		6,487.27	1	185,553.35	192,040.62
6/5/13		3,437.41	1	198,920.55	202,357.96
7/3/13		1,217.23	2	200,580.04	201,797.27
8/5/13		1,335.86	2	227,129.00	228,464.86
9/5/13		1,898.00	2	253,300.58	255,198.58
10/3/13		2,197.24	2	225,657.95	227,855.19
11/5/13		1,608.91	1	193,882.50	195,491.41
12/4/13		3,801.73	1	179,823.27	183,625.00
1/6/14		8,629.98	1	183,813.88	192,443.86
		59,151.01	2,3	398,539.64	2,457,690.65
2/5/14		12,810.13	4	194,546.67	207,356.80
3/5/14		14,710.99		174,682.80	·
4/3/14		12,658.87		174,082.80 167,041.14	·
5/5/14		8,138.53		107,041.14 172,205.20	
6/4/14		3,456.18		172,203.20 182,177.52	
7/3/14		1,939.37		182,177.32 188,521.24	•
7/3/14		1,333.37		100,321.24	- 130,400.01
7/3/14	Ytd	53,714.07	1.0	079,174.57	
7/3/13	2013 Ytd	39,679.29		134,932.46	
., -,	Change	14,034.78		-55,757.89	
	Change %	35.37%		-4.91%	
	Ü				
Last six (6) mos 2013	19,471.72	1,2	263,607.18	
Use 2014	Ytd% chge	135.37%		95.09%	_
Proj last 6	mos 2014	26,358.97	1,2	201,527.65	
Projected	2014 total	80,073.04	2,2	280,702.22	2,360,775.27
-	ncre/(dec)	-2.30%		2.80%	
Budgeted	, , ,	78,231.36	2,3	344,561.89	-
Rounded	2015 Budg			100,000.00	
	J	0			Alliant Energy
		78,000.00		500,000.00	•

Madison Water Utility - 2014 Capital Budget 2014-2030 Capital Improvement Budget 35,360,000 28,985,000 28,425,000 31,210,000 28,479,000 Water Utility Annual Totals Primary Construction Year Tasks 2013 2013 Carryover 2014 2015 2016 2016 2017 2018		
Madison Water Utility WWW DRAIN May 20, 2013 76.1% \$ 106,698,000 91.1% Annual Totals \$ 20,276,000 \$ 11,430,000 \$ 26,926,000 \$ 27,322,000 \$ 25,092,000 \$ 25,473,000 \$ 28,811,000 Primary Construction Const		
Water Utility Wave Primary Construction Primary Con	\$ 29,298,000	
Utility Annual Totals \$ 20,276,000 \$ 11,430,000 \$ 26,926,000 \$ 27,322,000 \$ 25,092,000 \$ 28,811,000	\$ 29,298,000	
Construction		\$ 31,868,600
	2019	2020
1 Arbor Hills Supplemental Fire Flow Supply - BPS 118 2011		
2 Booster Pump Station 118 was constructed and put into service in 2012. The last phase of the project, Phase 4 of the Cannonball Cannonball Pipeline 642,000		
3 Pipeline will be constructed in 2014. Project Total 642,000	-	-
5 Unit Well No. 7 - Fe and Mn Filtration 2013		
6 The East Side Water Supply project verified the need for a filter at Well 7. The public engagement process is proceeding and the project has been moved up to be constructed in 2013 and fully operational in 2014. Construction of a filter at Well 7 will ad dress UW 7 - Filter Design 426,000 50,000		
8 the water quality issues that exist due to iron and manganese levels that exceed or approach the EPA secondary standard. A filter Property Purchase		
g would significantly reduce the iron and manganese levels in the water pumped from the facility into the system. Filtering the water and removing the iron and manganese will reduce the likelihood of customers experiencing colored water due to water pumped. Construction Admin Services 319,000 250,000 319,000		
Gui Mill 7 and will all with a 1986 to increase the will The conference of the will		
10 Trom Well 7 and will allow the Utility to increase the use of the Well. The new facility will require additional property. Fe and Mn Filter 5,320,000 Hydraulic Improvement Pipelines 5,000,000 Figure 1.00 Figure 2.00 Figure		
11 981,000 673,000		
Project Total 6,065,000 5,300,000 981,000 673,000 -	-	-
13		
14 Booster Pump Station #106 Reconstruction 2013		
15 Rebuilding the outdated Booster Pump Station 106 is scheduled to start construction in 2013 and be finished and in service in 16 early 2014. Booster Pump Station 106 is a critical link between Pressure Zones 6 and 7 and allows water to be moved between Consultant Design contract		
10 early 2014. Budset pump station in the system and has deteriorated to the point that it is difficult to maintain. It is also Construction of Pump Station 1,493,000 1,050,000 1,050,000 1,050,000		
necessary to bring the pump station up to current safety standards and codes, to improve reliability of operation to the station, and Construction Contract		
to improve access and employee safety. With the pump station upgrade some pipeline replacement will be necessary to increase Administration 45,000 hydraulic capacity. Improvement to this facility provides significant operational flexibility to the Utility. Pipeline Improvements 616,000 635,000 654,000		
19 hydraulic capacity. Improvement to this facility provides significant operational flexibility to the Utility. Pipeline Improvements 616,000 635,000 654,000	1 _	
21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
22 Paterson Street Building Remodel and Upgrade 2014		
23 Rebuilding the Utility's Operations Center at Paterson Street is scheduled to start construction in 2014 and be finished and in Public Participation 40,000 30,000		
24 service in early 2015. The existing facility is outdated and cramped and in need of replacement. The vehicle maintenance area is too small for modern equipment and compromises employee safety. Building air quality and ventilation does not meet modern Materials Storage Building		
too small for modern equipment and compromises employee safety. Building air quality and ventilation does not meet modern standards. The office space, locker rooms and other functional storage spaces do not meet current needs. The project also Furnishings and Equipment 400,000		
27 includes the construction of a materials handling building that will free up space in the vehicle storage building and improve Construction Admin		
efficiency during winter operations. Fleet Maintenance and Office		
28 Building Construction 6,158,000 400,000 - - - - - 29 Project Total 508,000 381,000 6,466,000 400,000 -		
29 Project Total 508,000 381,000 6,466,000 400,000	-	-
31 Lakeview Reservoir Reconstruction (Res 113) 2014	1	
32 The schedule for the construction of the Lakeview Reservoir has been pushed to 2014 with the reservoir on line in 2015. Public Engagement 50,000	<u> </u>	
33 Reconstructing the Lakeview Reservoir, will replace an aging storage tank and provide much needed additional gravity fed Consultant Design contract 241,000 125,000		
34 water storage in Zone 6E on the north side of the City. Improvements to the existing pump station feeding Pressure Zone 5 is also Construction Services included in this project. This project is justified in the Water Master Plan and would improve fire fighting capacity and reliability Construct Two Zone Lakeview	1	
Included in this project. This project is justified in the Water Master Plan and would improve fire fighting capacity and reliability 35 within Pressure Zone 5. Construct Two Zone Lakeview Reservoir 2,680,000		
System Hydraulic Water Main		
Improvements 1,015,000	1	
Upgrade Booster Pumps @		
Water Main Improvements @ Res 113 381,000		
9 Project Total 291,000 160,000 2,814,000 1,956,000	-	-

i	Madison Water Utility - 2014	Capital B	udget				117,099,000					
Quality and Reliability since 1882	2014-2030 Capital Improvem	ent Budge	et			35,360,000	28,985,000	28,425,000	31,210,000	28,479,000		
Madison	DDADE	Updated:	May 20, 2013			76.1%	\$ 106,698,000	91.1%				
Water IIII												
Utility mww			Annual Totals	\$ 20,276,000	\$ 11,430,000	\$ 26,926,000	\$ 27,322,000	\$ 25,092,000	\$ 25,473,000	\$ 28,811,000	\$ 29,298,000	\$ 31,868,600
		Primary		, ,						,		
Line Project	Date/Description/Purpose	Construction Year	Tasks	2013	2013 Carryover	2014	2015	2016	2017	2018	2019	2020
41 UW 29 Filter Capacity Expan	sion	2014										
The filter system at Unit Well 29 was	constructed with a capacity of 1100 gpm due to a concern with contamina	ants under the	Consultant Design contract		30,000							
	installed between the landfill and the well to monitor water quality. At this		Increase Filter Capacity	400,000	400,000							
	e is no indication of a problem with the Sycamore Landfill with regard to W e increased to 2200 gpm. This will provide the Utility with improved flexibil		Construction Contract Administration	16,000	16,000							
capacity on the east side of Pressure		.,,	Project Total	446,000	446,000	-	-	-	-	-	-	-
46												
Zone 4 Fire Flow Supply Aug		2015										
	012 and the production well is scheduled to be drilled in 2013. Unit Well 3' t in late 2013 and be finished and in service in 2014. The Zone 4 Fire Fla		Public Engagement	25,000	5,000							
	significant system deficiency identified by the Water Master Plan in the so		Production Well and Development	638,000	50,000							
the system within Pressure Zone 4. [Due to significant expansion over the years to the south and east, the hydr	aulics of the	Consultant Design contract for	030,000	30,000							
development pressure in the souther	area for fire flow supply or system reliability and redundancy. There is als ast and the proposed new well will support further development of the area		design of Unit Well, Reservoir,									
	ove fire flow capacity and bring the water system level of service for the al		Pump Station, and Pipelines Construct Unit Well & Fe and Mn	385,000	360,000							
standards.			Construct Unit Well & Fe and Min				5,107,000					
			Consultant Construction				, ,					
52			Administration	241,000			255,000					
53			Hydraulic Improvement Pipelines					654,000	673,000			
54			Project Total	1,289,000	415,000	-	5,362,000	654,000	673,000		-	-
55												
56 Unit Well 12 Conversion to a		2015	On the I Decision Control									
	mended that Well 12 be converted to a two zone well. This conversion will de supply system. Pumps and a pressure reducing valve will be added to		Consultant Design Contract Construction Services			48,000	30.000					
	to Pressure Zone 8 or from Pressure Zone 8 to Pressure Zone 7.	THE VVEH 12 HACHILY	Construction				600,000					
60			Water Main Improvements				361,000					
61			Project Total	-	-	48,000	991,000	-	-	-	-	-
62	1 W- II 40	2045										
63 Iron and Manganese Filter at		2015	Public Participation			co ooo						
	nese Filter at Well 19 will address the water quality in the Well 19 service se. Accumulation of iron and manganese solids in the system results in a		UW 19 - Filter Design			60,000						
flushing to minimize the risk of colore	ed water reaching customers. Removing the iron and manganese from the	water using a fil ter	Documents			284,000						
	and reduce the risk of colored water in the Well 19 service area. The projus area The budget anticipates construction of a filter in 2015 with the far		Property Purchase			ŕ	-					
	ant public participation process and evaluation.	Sinty III Idi I	Construction Admin Services				190,000					
68			Well 19 Fe and Mn Filter Construction				3.160.000					
69			Project Total	-	-	344,000	3,350,000	-	-	-	_	-
70						, , ,	,,					
71 Zone 7 & 8 Supplemental Su	pply - Whitney Way	2016										
	mends an additional well to serve Pressure Zones 7 and 8 to improve oper		Public Engagement Site Selection and Property			25,000						
and system reliability. Adding a well to supply capacity the area and improve	and system reliability. Adding a well to the area with the ability to pump water to either Zones 7 or 8 will provide addition al water supply capacity the area and improve system reliability and redundancy. This facility will provide significant operational flexibility					264,000						
74 the Utility within this portion of the sy	the Utility within this portion of the system. It is expected that a significant public participation process will be used to site a well		Drill test well			108,000						
	and identify water quality issues and system operational needs. Currently the project is scheduled for construction in 2016 a nd w						677,000				·	
be fully operational in 2017.	be fully operational in 2017.						445,000					
	76						410,000					
77			and Pump Station					5,560,000				
78			Consultant Contract Administration					334,000				
79			Pipeline Improvements						893,000			
			· · · · · · · · · · · · · · · · · · ·				•					

1	Madison Water Utility - 201	4 Capital Bu					117,099,000					
Quality and Reliability since 1882	2014-2030 Capital Improve					35.360.000	28,985,000	28,425,000	31,210,000	28.479.000		
Madison		Updated:	May 20, 2013			,,	\$ 106,698,000	91.1%	01,210,000	20, 0,000		
Water IIII		Opuateu.	Way 20, 2013			70.176	\$ 100,098,000	91.170				
Utility mwa	DKALI	Primary	Annual Totals	\$ 20,276,000	\$ 11,430,000	\$ 26,926,000	\$ 27,322,000	\$ 25,092,000	\$ 25,473,000	\$ 28,811,000	\$ 29,298,000	\$ 31,868,600
		Primary Construction										
Line Project	Date/Description/Purpose	Year	Tasks	2013	2013 Carryover	2014	2015	2016	2017	2018	2019	2020
80			Project Total	-	-	397,000	1,122,000	5,894,000	893,000	-	-	-
81		2212			-							
82 Booster Pump Station 109 (S		2016	Dublic Engagement		-		50,000					
	le the east side operational functionality and improve reliability to the vim Pressure Zone 4 to Pressure Zone 6E and a pressure reducing val		Public Engagement Site Selection and				50,000					
water to move from Pressure Zone 6		o diation will allow	Property Purchase				168,000					
85			Consultant Design contract				102,000					
86			Construction Services					77,000				
87			Construct BPS 109					1,280,000				
88			Water Main Improvements						765,000	657,000		
89			Project Total	-	-	-	320,000	1,357,000	765,000	657,000	-	-
90 91 <i>Iron and Manganese Filter at</i>	t Woll 30	2017			-							
	at Well 30 exceed Utility water quality standards and guidelines. Cons		Public Participation				-	60,000				
	at well so exceed utility water quality standards and guidelines. Cons ress the water quality issues and risk of colored water events and cus		UW 30 - Filter Design					60,000				
Well 30 service area. Annual system	flushing is required in the Well 30 service area to minimize the risk of	colored water ev ents	Documents					320,000				
due to the accumulation of iron and n	manganese solids in the system. A filter would improve finished water		Property Purchase					320,000				
95 public participation process and evaluation	80 service area. The budget anticipates construction of a filter in 2018	following a sig nificant	Construction Admin Services						214,000			
public participation process and evalu	uation.		Well 30 Fe and Mn Filter						214,000			
96			Construction						3,560,000			
97			Project Total	-	-	-	-	380,000	3,774,000	-	-	-
98												
99 Booster Pump Station 129 R		2017										
	booster pump station 129 is scheduled for 2017. This project will replace the scheduled for 2017 by the scheduled for 2017		Public Engagement				56,000	404.000				
	I 29 site in 1990. Pump Station 129 will continue to transfer water fron operation will provide supply and fire flow capability to the far east sid		Design Construction Services					121,000	91.000			
103 benefit customers through gained reli		e of the system. It will	Water Main Improvements						91,000	919,000	947,000	
104			Construct BPS 129						1,518,000	0.10,000	011,000	
105			Project Total	-	-	-	56,000	121,000	1,609,000	919,000	947,000	-
106												
107 East Side Replacement Well	(Well 3)	2018										
	ly 2008 due to elevated levels of Carbon Tetrachloride. This project is		Public Participation		15,000	15,000			20,000			
	Zone 6E. The need for a replacement well was verified by the East Si If will restore lost supply redundancy and reliability to the east Isthmus		Drill test well and WQ analysis			150,000						
	n will restore lost supply redundancy and reliability to the east is infinite and manganese removal and this is included in the budget for the project n		Property Purchase Drill new E. Isthmus Well		250,000				636.000			
possibility that VOC contamination w	ill be present due to long term industrial land use on the Isthmus. The	treatment plant will be	Consultant Design contract		-	50,000	-		468.000			
designed with the intention of adding	treatment if necessary. If the test well indicates that iron and mangan	ese filtration is not	Construction of Filter, Res &			30,000	-		+00,000			
needed, the capital cost will be signifi	icanily reduced.		Pump Station							6,244,000		
114			Pipeline Improvements								1,071,000	736,000
115			Construction Administration							250,000		
116 117			Project Total	-	265,000	215,000	 	-	1,124,000	6,494,000	1,071,000	736,000
118 Booster Pump Station/PRV 1	124 Construction	2018			-							
			Public Engagement				-	58,000				
Concuración or a non secesio pamp	station 124 to transfer water across the Yahara River and provide ope er water from Zone 6W to Zone 6E and back again through a PRV. The	Design		-			30,000	126,000				
121 customers through gained reliability a	and flexibility of operations. The pump station will allow the transfer of	Construction Services						.20,000	95,000			
122 wells if needed during a water shorta	ge or equipment maintenance period.	•	Water Main Improvements							-	947,000	975,000
123			Construct BPS 129							1,579,000		
124			Project Total	-	-	-	-	58,000	126,000	1,674,000	947,000	975,000
125												

	ı	Madison Water Utility - 2014	Capital B			TOT / KKGOTITI		117,099,000					
	iy and Reliability since 1882	2014-2030 Capital Improvem	•				35,360,000	28,985,000	28,425,000	31,210,000	28,479,000		
	adison 🚐		Updated:	May 20, 2013				\$ 106,698,000	91.1%	, ,,,,,,,,	3, 2,222		
	ater IIII tility mun		- Opaatoa.					Ψ .00,000,000	011170				
0	tility ///			Annual Totals	\$ 20,276,000	\$ 11,430,000	\$ 26,926,000	\$ 27,322,000	\$ 25,092,000	\$ 25,473,000	\$ 28,811,000	\$ 29,298,000	\$ 31,868,600
			Primary Construction										
Line	Project	Date/Description/Purpose	Year	Tasks	2013	2013 Carryover	2014	2015	2016	2017	2018	2019	2020
126	Zone 10 Far West Elevated F	Reservoir	2019										
127	Construction of the Zone 10 Far Wes	st Side 750,000 gallon elevated reservoir is scheduled for 2020 and will fo	llow a public	Public Engagement						60,000			
128		. The Zone 10 Far West Elevated Reservoir project will provide addition to 10. As Pressure Zone 10 has developed with not only residential but or		Site Selection and Property Purchase							438,000		
129),000 gallon elevated tank on High Point Road no longer provides sufficiel		Consultant Design contract		_					217,000		
130		fire flow requirements to this area of the distribution system is necessary	to meet minim um	Construction Services							,	190,000	
131	Utility standards. This project is ident	ified in the 2006 Water Master Plan.		Construct 750,000 gallon								2,309,000	
131	-			reservoir Reservoir piping improvements		_						2,309,000	
132				rtees van piping improvemente								406,000	
133				Water Main Improvements								812,000	
134 135			ı	Project Total	-	-	-	-	-	60,000	655,000	3,717,000	-
135	Booster Pump Station 114		2019			_							
136	•	I le the ability to move water from Pressure Zone 6W to Zone 8 and back a		Public Engagement		_					61,000		
107		side supply system and provides the means of spreading out the current v		Site Selection and		_					01,000		
138	_ capacity within the system. Construc	tion is scheduled to start in 2016 and be finished and in service by 2017.									438,000		
139 140	114 will benefit west side customers	through gained system reliability and redundancy.		Consultant Design contract Construction Services		_					148,000	99,000	
141	-			Construct BPS 114		_						1,642,000	
142	=			Water Main Improvements								1,429,000	1,115,000
143				Project Total	-	-	-	-	-	-	647,000	3,170,000	1,115,000
144						_							
145		al Water Supply (American Family)	2020	D. His Free constitution		_				20,000			
146 147		mended an additional well on the east side that could provide water to Zor the system analysis completed for the East Side Water Supply project. To		Public Engagement Property Purchase		_				60,000	321,000		
148	tentatively located in the NE corner of	of the system and would provide water to Zones 3 and 6E. While no site has	as been identifi ed at	Drill test well							151,000		
149		or this purpose on Hoepker Road. A public participation process is expected										762,000	
150		is project. This project is scheduled to start construction in 2021 and be finent pressure on the east side and the need for reliability and redundance.		Consultant Design contract		_						584,000	
	of the water system is the focus of the		,	Construction of Unit Well, Filter, Reservoir and Pump Station									
151	_			1.300.1011 and 1 amp olditori									7,305,000
152				Consultant Contract									438,000
152	-			Administration Pipelines		_							430,000
154				Project Total	-	-	-	-	-	60,000	472,000	1,346,000	7,743,000
155				,						,	,		
156	Unit Well No. 8 - Fe and Mn		2021	<u></u>									
157		<u>B - Fe and Mn Mitigation</u> will address current water quality issues at Well		Public Participation									30,000
158		and manganese levels that exceed the EPA secondary standard's. Due to the colored water as a result of the iron and ganese, well operation is currently limited to summer only and a total production of approximately 100 million gallons per		UW 8 - Filter Design Documents Property Acquisition									541,600
159 160	year. The need for this project was v	ir. The need for this project was verified by the East Side Water Supply project and a public engagement process has start											500,000
100		initially this project was scheduled for construction in 2013. Due to concerns about the nearby KIP Corporation contamination neighborhood concerns about the facility in the park, the project has been delayed a year. A monitoring well will be installed in											
161	□ 2012 and additional data will be obta	ined regarding the KIP contamination. Installation of a filter would allow the	e well to be	Well 8 Fe and Mn Filter Construction									
162		e significantly greater quantities of water. Space will be included in the pro		Hydraulic Improvement Pipelines									
163	pumped from Well 8.	t will benefit existing customers in the east Isthmus area and improve the	quality of the water	Project Total	-	-	_	_	_	_	-	-	1,071,600
164	<u> </u>		<u> </u>										.,011,000

1	Madison Water Utility - 2014	Canital B			TOT / KILACITITI		117,099,000					
7	<u>. </u>											
Quality and Reliability since 1882 Madison	2014-2030 Capital Improvem	ent buage	et			35,360,000	28,985,000	28,425,000	31,210,000	28,479,000		
Water IIII		Updated:	May 20, 2013			76.1%	\$ 106,698,000	91.1%				
Utility mww	DKAFL		Annual Totals	\$ 20,276,000	\$ 11,430,000	\$ 26,926,000	\$ 27,322,000	\$ 25,092,000	\$ 25,473,000	\$ 28,811,000	\$ 29,298,000	\$ 31,868,600
		Primary Construction										
Line Project	Date/Description/Purpose	Year	Tasks	2013	2013 Carryover	2014	2015	2016	2017	2018	2019	2020
165 Zone 11 Blackhawk Elevated		2021			, , , , , , , , , , , , , , , , , , , ,				-			
	n Pressure Zone 11 on the far west side of the distribution system. The ar		Public Engagement								63,000	
dedicated booster pump station (BPS	S 128). As the area develops and fills in, construction of the Blackhawk Ele	evated Reservoir	Consultant Design contract									234,000
	upply storage and fire fighting capacity recommended for the area. The re		Construction Services									
	nd will be in operation in 2017. The <i>Blackhawk Elevated Reservoir</i> projemped to gravity. The Utility currently owns property on the far west side fo		Construct 750,000 gallon									
siting a water reservoir.	imped to gravity. The officty currently owns property on the lat west side to	i tile purpose or	reservoir Reservoir piping improvements		-							
170			reserven piping improvements									
171			Water Main Improvements									
172			Project Total	-	-	-	-	-	-	-	63,000	234,000
173												
174 Pressure Zone 9 Storage		2022										
175 Storage capacity within Pressure Zor	ne 9 was identified in the Water Master Plan as being deficient. With the re	eplacement of the	Public Engagement									65,000
elevated reservoir on Prairie Road in	2011 and 2012 with a 400,000 gallon tank, this situation was partially mit	igated. A sec ond	Reservoir Property Purchase		-							
	gallons will resolve the remainder of the Zone 9 storage deficiency. An ele ovide hydraulic balance to the system. Construction of the proposed reser		Consultant Design Services Construct 750,000 gallon									
	operation by 2017. Pressure Zone 9 has developed significantly with not		elevated reservoir									
commercial and institutional facilities.	. The fire flow requirements have increased due to this development to the	e point that current	Construction Contract									
facilities do not meet minimum standa	ards.		Administration									
			Reservoir Pipeline Construction									
180			Project Total			-				_		65,000
182			rioject rotar		-	-	-	-	-	-	-	65,000
183 Pump Station 220 - Raymond	d Road PS	2022										
	on on the west side to move water between Zones 7, 9 and 10 and back a	again through a	Public Engagement									65,000
	I to start in 2018 and be finished and in service by the end of the year.		Dual Zone Pump Station Design									
185 Station 220 - Raymond Road Pump	<u>p Station</u> will setup operational flexibility within Pressure Zones 7, 9 and 1	10. The station will	1									
	9 and 10 and back again through a PRV. This operation will provide the a If fully use existing facilities in providing operational flexibility. The project we		Dual Zone Pump Station Construction									
186 supply resources between 20nes and supply redundancy to the far west side		will also provide	PRV station									
107			Booster Station Piping Upgrade									
188												
189			Project Total	•	-	-	-	-	-	-	-	65,000
190												
191 Near West Side Water Suppl		2023	8.11.5								00	
Construction of an additional well is s	scheduled for 2021. The Water Master Plan has identified this well project	to mitigate a	Public Engagement								63,000	
	6 and 7. The Near West Side Water Supply Project project will provide The final location of the proposed well will be determined following a sign		Site Selection and Property Purchase									483,000
194 participation process and evaluation		ilicant publi c	Drill Test Well									160,000
195	•		Drill production Well									,
			Consultant Design contract for									
400			Unit Well, Reservoir and Pump									
196			Station Construction of Unit Well, Filter,									
197			Reservoir and Pump Station									
		Construction Contract										
198		Administration Water Main Hydraulic										
199			Improvements									
200			Project Total	-	-	-	-	-	-	-	63,000	643,000
			•				ĺ				,	,
201												

1	Madison Water Utility - 2014	Capital Bu	udget	•			117,099,000					
Quality and Reliability since 1882	2014-2030 Capital Improvem	ent Budge	et			35,360,000	28,985,000	28,425,000	31,210,000	28,479,000		
Madison		Updated:	May 20, 2013			76.1%	\$ 106,698,000	91.1%				
Water IIII												
Utility mwi			Annual Totals	\$ 20,276,000	\$ 11,430,000	\$ 26,926,000	\$ 27,322,000	\$ 25,092,000	\$ 25,473,000	\$ 28,811,000	\$ 29,298,000	\$ 31,868,600
		Primary Construction										
Line Project	Date/Description/Purpose	Year	Tasks	2013	2013 Carryover	2014	2015	2016	2017	2018	2019	2020
Booster Pump Station 320		2024										
	de the Utility with operational flexibility on the west side. The station will trak again through a PRV. This operation will provide flexibility in source of su		Public Engagement									
	ik again through a PRV. This operation will provide flexibility in source of st stomers through gained system reliability.	apply to the we st	Site Selection and Property Purchase									
205	, ,		Consultant Design contract									
206			Construction Services Construct BPS 320									
208			Water Main Improvements									
209			Project Total	-	-	-	-	-	-	-	-	-
210					Dine Denis	Wastmant Budget C	11,090,000			Dine Deal	wastment Dudget C.	14,020,000
211 Pipeline Replacement/Reha.	 b/Improvements	Ongoing	Total Pipe Rehab Budget	7,500,000	Pipe Replacement Reir 1,700,000	vestment Budget Goal	9,033,000	9,938,000	10,262,000	Pipe Replacement Rei 11,032,000	11,869,000	14,020,000 12,778,000
	d system replacement and upgrade program that provides for annual main		Reconstruction Pipe Projects	3,500,000	750,000	3,000,000	3,950,000	4,108,000	4,272,000	4,443,000	4,621,000	4,806,000
rehabilitation. Assessment of an agi	ng infrastructure indicates the Utility needs to replace or rehabilitate over 4	100 miles of pipe in	Resurfacing Pipe Projects	3,500,000	750,000	2,000,000	3,850,000	4,000,000	4,400,000	4,840,000	5,324,000	5,856,000
	ntain the system. A planned annual increase in spending to accomplish this aster Plan also recommends hydraulic improvements to the system. It is pr		Pipe Lining Projects Verona Road Pipeline	500,000	200,000	1,000,000 1,418,000	1,100,000 133,000	1,445,000 385,000	1,590,000	1,749,000	1,924,000	2,116,000
significantly increase pipeline invest	ment for hydraulic needs in 2015 and then increase this budget over the n		East Johnson		-	2,600,000	133,000	303,000				
meet Master Plan recommendations	5.		New Pipeline Projects	840,000	400,000	966,000	1,082,000	1,163,000	1,250,000	1,344,000	1,445,000	1,553,000
219			Master Plan Hydraulic Improvement Pipe Projects				713,000	799,000	895,000	1,002,000	1,122,000	1,257,000
220			Project Total	8,340,000	2,100,000	10,984,000	10,828,000	11,900,000	12,407,000	13,378,000	14,436,000	15,588,000
221			,,		Pipe Hydraulic Upgrade Ir		2,220,000	,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	Pipe Hydraulic Upgrade I	nvestment Budget Goal	4,500,000
222	<u></u>	0			Pipe Hydraulic Upg	rade Investment Actual	2,182,000			Pipe Hydraulic Upg	rade Investment Actual	3,669,000
223 Misc. Pump Station/PRV/Factors 224 The Water Master Plan identified va	cility Projects rious minor improvement projects that are necessary to sustain the establi	Ongoing ished level of	PRV Station Gammon Rd			50,000						
The trate master han acrement	ese projects are itemized under a single heading. Pressure Reducing stati		Upgrade Booster Pumps			33,333						
constructed throughout the system a	as needed to reduce areas of excessive pressure.		@ UW 20	350,000	150,000							
226			Upgrade Booster Pumps @ Res. 115 w/generator			850,000						
			Water Main Improvements									
227 228			@ BPS 115 Generator @ UW 26	335,000	200,000	750,000						
229			PRV Projects 2 per year	000,000	200,000	100,000	104,000	108,000	112,000	116,000	121,000	126,000
230			Misc. Projects	100,000	50,000	500,000	525,000	1,000,000	1,050,000	1,103,000	1,158,000	1,216,000
231 232			Consultant Services Project Total	24,000 809,000	24,000 424,000	270,000 2,520,000	75,000 704,000	133,000 1,241,000	139,000 1,301,000	146,000 1,365,000	153,000 1,432,000	161,000 1,503,000
233			Project rotal	003,000	424,000	2,320,000	704,000	1,241,000	1,301,000	1,303,000	1,432,000	1,303,000
234 System Wide Misc Projects		Ongoing										
	ded in the Capital Budget that cover a variety of repair, rehabilitation, and nent Plan recommends a reinvestment of \$2.5 (2005 dollars) in system fac		West Side Water Master Plan	300,000	250,000					365,000		
	d include Unit Well, pump station, and reservoir improvements and renewa		Update Infrastructure Plan SCADA Maintenance and	200,000	150,000					243,000		
	surpose be started in 2014 and then increased annually to raise it to the receivers are itemized under a circle begding.	commended lev el.	6 Year Upgrade	33,000		76,000	78,000	250,000	263,000	40,000	40,000	42,000
238	ects are itemized under a single heading.		Flow Meter and VFD Retrofit	,		125,000						
239			Meter Program Private Well Connection			180,000	187,000	194,000	202,000	210,000	218,000	227,000
240			Private Well Conflection Program	50,000	50,000	50,000	50,000					
241			Safety Additions to the Plant	29,000	29,000	31,000	33,000	35,000	37,000	39,000	41,000	43,000
242			Olin Admin Office Maintenance	18,000	18,000	19,000	70,000	51,000	55,000	59,000	63,000	143,000
			Unit Well/PS/Reservoir			,	,		•	,	•	,
243			Rehab/Maintenance	200,000	200,000	950,000	1,045,000	1,150,000	1,265,000	1,392,000	1,531,000	1,684,000
244			Well 24 Generator Connection Generator emissions mods @			100,000						
245			Wells 20 & 30			100,000						
2014 Can Rdat				Page 6								nted: 10/18/2014

	i	Madison Water Utility - 2014	Capital Bu	udget				117,099,000					
	d Reliability since 1882	2014-2030 Capital Improven	nent Budge	et			35,360,000	28,985,000	28,425,000	31,210,000	28,479,000		
	dison (1111)		Updated:	May 20, 2013			76.1%	\$ 106,698,000	91.1%				
	ility mwn	DRAFI		Annual Totals	\$ 20,276,000	\$ 11,430,000	\$ 26,926,000	\$ 27,322,000	\$ 25,092,000	\$ 25,473,000	\$ 28,811,000	\$ 29,298,000	\$ 31,868,600
			Primary Construction										
Line	Project	Date/Description/Purpose	Year	Tasks	2013	2013 Carryover	2014	2015	2016	2017	2018	2019	2020
246				Dump Site Purchase			125,000						
247				General Consultant Services	67,000	67,000	74,000	81,000	89,000	98,000	108,000	113,000	119,000
				Paterson Vehicle									
248				Storage Bldg Maintenance	34,000	34,000	50,000	54,000	58,000	62,000	67,000	72,000	77,000
				Paterson Office	F0 000	F0 000			25 000	20,000	27,000	20,000	20,000
249				and Shop Maintenance	59,000				25,000	26,000	27,000	28,000	
250				Project Total	990,000	857,000	1,880,000	1,598,000	1,852,000	2,008,000	2,550,000	2,106,000	2,364,000
251				Table 1					l .				
				Total Estimated Annual Costs	00.070.000	44 400 000	22 222 222	07.000.000	05 000 000	05 470 000	00.044.000	22 222 222	04 000 000
252 253				Facility Delays	20,276,000	11,430,000	26,926,000	27,322,000	25,092,000	25,473,000	28,811,000	29,298,000	31,868,600
253							3.26 1.45	-				ment and Renewal Goal nent and Renewal Actual	
255				1 aciity Reinvest	mont and Nonewal Actual	anoni ana Nenewai Actual	1.45				1 donity Nemvesur	Territ und Terriewal Actual	2.10

	1	Madison Water Utility - 20	15 Capital		ilibit 5 - Sul	, post 101 1 to					
	stratulating since 1972	2015-2030 Capital Improv	-								
	lison	DD A DO	Updated:	May 21, 2014							
Wat Util	ity mwu	DRAFI			\$ 20,009,000	\$ 24,586,000	\$ 28,416,500	\$ 27,786,000	\$ 20,684,000	\$ 17,982,000	\$ 28,778,000
			Primary Construction		2014						
Line	Project	Date/Description/Purpose	Year	Tasks	Carry Over	2015	2016	2017	2018	2019	2020
	bor Hills Supplemental Fir		2011	Cannonball Pipeline	642,000						
D00	oster Pump Station 118 was const Innonball Pipeline is budgeted to b	ructed and put into service in 2012. The last phase of the pro e constructed in 2015.	ect, Phase 4 of the	Project Total	642,000	-	-	-	-	-	-
4					,						
	it Well No. 7 - Fe and Mn F		2014	5.1							
		ddress the water quality issues that exist due to iron and man ary standard. A filter will significantly reduce the iron and man		Public Engagement UW 7 - Filter Design							
		e system. Filtering the water and removing the iron and man		Property Purchase							
likel	lihood of customers experiencing	colored water due to water pumped from Well 7 and will allow	the Utility to increase	Construction Admin Services	144,000						
imn		ommencing in June 2014 and the facility will be fully operation dget to improve hydraulics in the system and allow water fron		Construction of Unit Well No. 7							
		side of Madison. This improvement provides flexibility and reli		Fe and Mn Filter	2,400,000						
11				Hydraulic Improvement Pipelines			891,000				1,003,000
12				Project Total	2,544,000	-	891,000	-	-	-	1,003,000
13											
	oster Pump Station #106 I		2013								
		np Station 106 will be finished by mid 2014. Booster Pump St		Public Engagement							
		I and allows water to be moved between zones. The new fact ation up to current safety standards and codes. The pump sta		Consultant Design contract Construction of Pump Station							
relia	ability of operation and improves a	access and employee safety. To fully benefit from the pump s	ation upgrade,	Construction Contract							
DDC		he distribution system have been budgeted. These piping imp	rovements will allow	Administration							
17	S 106 provide excellent water sup	pry service to the hear west side.		Pipeline Improvements	616,000	483,000	891,000	612,000			
20				Project Total	616,000	483,000	891,000	612,000	-	-	-
	terson Street Building Rei	model and Upgrade	2015			7.623.000	Total Budgeted Co	nstruction Cost			
		enter at Paterson Street is currently scheduled to start constru	ction in 2015 and be	Public Engagement	24,000	,,					
24 finis	shed and in service in early 2016.	The existing facility is outdated and cramped and in need of	eplacement and this	Architectural Services/Review	281,000						
		over 10 years. The vehicle maintenance area is too small for Building air quality and ventilation does not meet modern star		Materials Storage Building			1,219,000				
		onal storage spaces do not meet current needs. The project		Furnishings and Equipment Construction Admin	308,000		522,000				
con	nstruction of a materials handling b	building that will free up space in the vehicle storage building	and improve efficiency	Fleet Maintenance and Office	555,000						
CON	ing winter operations. Utility staff I Isidering the long term redevelopn	nave been working with City Planning on efficient and effectiv nent of the area.	e use of the property	Building Construction	6,158,000	246,000					
29	gg			Project Total	6,771,000	246,000	1,741,000	-	-	-	-
30 31 Lal	keview Reservoir Reconst	ruction (Res 113)	2015								
-		the Lakeview Reservoir has been pushed back to 2015 with t	_0.0	Public Engagement							
1110		ine cakeview Reservoir has been pushed back to 2015 with t P <u>view Reservoir</u> will replace an aging storage tank for Pressu		Engineering Services	60,000						
mud	ch needed additional gravity fed w	vater storage in Zone 6E on the north side of the City. Storage	is needed in Zone 6E								
		bility and emergency backup. The reservoir is being develope This project is justified in the Water Master Plan and will imp		Reservoir System Hydraulic Water Main	2,680,000	1,820,000					
		ire Zone 5 and Pressure Zone 6E.		Improvements			594,500				
				Upgrade Booster Pumps @			·				
36				Res. 113 Water Main Improvements @		840,000					
37				water Main Improvements @ Res 113		692,000					
38				Project Total	2,740,000	3,352,000	594,500	-	-	-	-
39		<u> </u>									

Water Utility Board 5-27-14 Meeting Page 1 of 5

		Madison Water Utility - 201	5 Capital	Budget							
	and Optivalisting places 1992	2015-2030 Capital Improve	ment Bud	get							
	edison (1)	DDADA	Updated:	May 21, 2014							
	ility mwa										
UL	inty www.	$DIV\Delta I$		Annual Totals	\$ 20,009,000	\$ 24,586,000	\$ 28,416,500	\$ 27,786,000	\$ 20,684,000	\$ 17,982,000	\$ 28,778,000
			Primary Construction		2014						
Line	Project	Date/Description/Purpose	Year	Tasks	Carry Over	2015	2016	2017	2018	2019	2020
40	UW 29 Filter Capacity Expan	sion	2014								
		constructed with 50% capacity of the well. The filters are rated a ne Sycamore Landfill. A sentry well was installed between the la		Engineering Services Increase Filter Capacity	30,000						
42 r	monitor water quality. Current pumpir	ng and water quality data show no indication of a problem with the	ne Sycamore		400,000						
		on at the sentry well. It is proposed to increase the capacity of t		Construction Engineering	16,000						
		ity and peak demand supply capacity on the east side of Pressu		Project Total	446,000	-	-	-	-	-	-
45			2245								
	Zone 4 Fire Flow Supply Aug	imentation - Well 31 nificant system deficiency identified by the Water Master Plan in	2015	Public Engagement	5,000						
		int expansion of the system over the years to the south and eas		Drill Production Well	3,000						
		this area for fire flow supply or system reliability and redundance		Engineering Services	180,000						
J0		ove fire flow capacity and bring the water system level of service constructed in 2012 and the production well was drilled in 2013		Construction Construction Administration		5,150,000 258,000					
		d construction will start in mid 2015 and be finished and in servi		Hydraulic Improvement		256,000					
52				Pipelines			654,000				
53			Г	Project Total	185,000	5,408,000	654,000	-	-	-	-
54 55	Unit Well 12 Conversion to a	Two Zone Well	2015								
		nended that Well 12 be converted to a two zone well. This conve		Engineering Services	48,000						
57 (operational flexibility and reliability to	the west side supply system. Pumps and a pressure reducing v	alve will be added	Construction Administration	40,000	30,000					
		rom Pressure Zone 7 to Pressure Zone 8 or from Pressure Zone	8 to Pressure	Construction		600,000					
37	Zone 7.			Water Main Improvements Project Total	48,000	361,000 991,000	<u> </u>	_	_		
60				Froject rotal	40,000	991,000	-	-	-	-	-
	Upgrade of BPS 115		2015								
		n 115 will mitigate a long standing low pressure problem in the E		Engineering Services	67,000						
		provide the Utility with operational flexibility and an supplementa ill transfer water from Zone 6E to Zone 3 and back again throug		Upgrade BPS 115 to a 2 Zone facility with Generator	850,000						
65 H	Hospital is building a new facility in th	e American Family area and requires a redundant water supply		Water Main Improvements	750,000	700,000					
00	meet that need. The upgraded pump	station will benefit customers through gained system reliability.		Project Total	1,667,000	700,000	-	-	-	-	-
67	Iron and Manganese Filter at	Wall 40	2016								
		nese Filter at Well 19 will address the water quality in the Well 1		Public Engagement							
69 t	to elevated levels of iron and mangar	nese. The iron and manganese levels exceed Madison Water Ut	ility water quality		53,000						
1		ganese solids in the distribution system results in a need for ad- iching customers. Removing the iron and manganese from the v		Engineering Services	205.000	142.000					
i	improves finished water quality and re	educes the need for frequent flushing. The project will benefit ex		Construction	285,000	143,000					
71	the west campus area in Pressure Zo	one 6W.					3,290,000				
72 73				Project Total	338,000	143,000	3,290,000	-	-	-	-
	Far West Elevated Reservoir		2016								
_		nes 10 and 11 and construct a single Far West Side 1.0 MG ele		Public Engagement		55,000					
76 h	hydraulicly balance the two zones an	d supplement the storage at High Point Road. The F <u>ar West El</u>	evated Reservoir	Engineering Services		301,000					
		fed water storage capacity within Pressure Zone 10 and will add ,000 gallon High Point Road reservoir is reaching its capacity ar		Construct 1 MG reservoir			2,737,000				
78	sufficient emergency reserve capacity	y. Providing minimum fire flow requirements to this area of the d	istribution system is	Reservoir piping improvements			338,000				
		andards. The project also provides a second feed to the area by Master Plan identified two elevated reservoirs for the far west s		Water Main Improvements				927,000			
	will combine those two projects.	iviasier r iam identifiled two elevated reservoirs for the fall west s	iue anu inis project	Project Total		356,000	3,075,000	927,000	_	_	_
81						000,000	3,0.0,000	521,000			

Water Utility Board 5-27-14 Meeting Page 2 of 5

	i	Madison Water Utility - 201	5 Capital	Budget		•					
	and Ostability since 1892	2015-2030 Capital Improve	ment Bud	get							
	adison ater	DDADT	Updated:	May 21, 2014							
	ater IIII tility mww	DRAFI		Annual Totals	\$ 20,009,000	\$ 24,586,000	\$ 28,416,500	\$ 27,786,000	\$ 20,684,000	\$ 17,982,000	\$ 28,778,000
			Primary Construction		2014						
Line	Project	Date/Description/Purpose	Year	Tasks	Carry Over	2015	2016	2017	2018	2019	2020
82	Zone 7 & 8 Supplemental Su	oply - Whitney Way	2017								
83		nends an additional well to serve Pressure Zones 7 and 8 to imp		Public Engagement	25,000						
84		ecommendation was verified in 2009 during some preliminary p		Site Selection and Property	264,000						
85		n the ability to pump water to either Zones 7 or 8 will provide add ystem reliability and redundancy. This facility will provide signifi		Purchase Drill test well	108,000						
86	flexibility to the Utility within this portion	on of the system and ultimately benefit 5 different pressure zone	s across the entire	Drill production Well	100,000		863,000				
87	west side. Projected development an	d growth on the west side and the Utility stated policy of limiting	average well	Well Siting Eng Services		129,000					
	pumping to 50% of capacity for long t	erm groundwater management make this an important water su	pply project.	Unit Well Engineering Services							
88	_						683,000	F 0F0 000			
89	-			Construction Administration				5,250,000			1 474 000
90 91	-			Pipeline Improvements	207.000	400,000	4 540 000	F 0F0 000			1,471,000 1,471,000
91				Project Total	397,000	129,000	1,546,000	5,250,000	-	-	1,471,000
93	Iron and Manganese Filter at	Well 30	2020								
	· ·			Public Engagement							
94		at Well 30 exceed Utility water quality standards and guidelines, will address the water quality issues and risk of colored water e								61,000	
95		a. Annual system flushing is required in the Well 30 service area		Engineering Services						499,000	
96		e accumulation of iron and manganese solids in the system. A f	Iter would improve	Construction							3,840,000
70	I finished water quality and reduce the	need for annual flushing in the Well 30 service area.		Project Total							
97			Т	110,000 1000	-	-	-	-	-	560,000	3,840,000
98	1/00 1: 0: :		2040								
99	VOC Air Stripper at Well 18		2018	5.15.5							
100		<u>at Well 18</u> will address the pending water quality and regulator cent Water Quality monitoring at the well has indicated an incre		Public Engagement				58,000			
101		hanges may result in lower VOC limits dictating the need to trea		Engineering Services			_	378,000			
		rce of water to the south side of Madison within Pressure Zone		Construction				2,222			
102	Utility's best interests to maintain the	well.							2,910,000		
103 104				Project Total	-	-	<u> </u>	436,000	2,910,000		-
104	Unit Well No. 8 - Fe and Mn F	Eiltration	2017								
-				Public Engagement		FF 000					
106		R - Fe and Mn Mitigation will address current water quality issue exceed the EPA secondary standard's. Due to the colored water		Engineering Services		55,000	000 000				
107		s currently limited to summer only and a total production of appr		Property Acquisition			696,000				
108		this project was verified by the East Side Water Supply project					500,000				
	engagement process was started. Initially this project was scheduled for construction in 2013. Due to concerns about the nearby Madison Kipp Corporation, the project was delayed. Installation of a filter would allow the well to be operational all year long. The project will benefit existing customers in the east Isthmus area and improve the quality of the water pumped from Well 8. Space will be included in the project for the future addition of an air stripper if it is needed.		Well 8 Fe and Mn Filter			*					
109			Construction				5,350,000				
110			Hydraulic Improvement Pipelines					1.040.000		1,104,000	
111	=			Project Total		55,000	1,196,000	5,350,000	1,040,000	_	1,104,000
112	-			-		,-50	,,	-,,	,= :=,=		,,
113	Booster Pump Station 129 R	econstruction	2021								
114			Public Engagement							63,000	
115	continue to transfer water from Zone 6E to Zone 3 and back again through a PRV. This operation will provide supply and		Engineering Services							231,000	
116	fire flow capability to the far east side of the system. It will benefit customers through gained reliability and flexibility of		Water Main Improvements								
117	operations.			Construct BPS 129							
118			I	Project Total	-	-	-	-	-	-	294,000
119											

Water Utility Board 5-27-14 Meeting
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	j	Madison Water Utility - 201	5 Capital	Budget							
	and Optimizing since 1992	2015-2030 Capital Improve	ment Bud	get							
	adison ater		Updated:	May 21, 2014							
	ility mww	\square R Δ R \square									
0.	ility move		Primary	Annual Totals	\$ 20,009,000	\$ 24,586,000	\$ 28,416,500	\$ 27,786,000	\$ 20,684,000	\$ 17,982,000	\$ 28,778,000
			Construction		2014						
Line	Project	Date/Description/Purpose	Year	Tasks	Carry Over	2015	2016	2017	2018	2019	2020
	East Side Replacement Well	• ,	2021	D.I.E. E.							
121 122		rly 2008 due to elevated levels of Carbon Tetrachloride. This pro Pressure Zone 6E. The need for a replacement well was verified		Public Engagement Drill test well and WQ analysis							63,000
123	Water Supply project. The East Isth	hmus Unit Well will restore lost supply redundancy and reliabilit	y to the east Isthmus	Property Purchase							
124		need a filter for iron and manganese removal and this is include y that VOC contamination will be present due to long term indus		Drill new E. Isthmus Well							951,000
125		designed with the intention of adding treatment if necessary. If t	he test well indicates	Consultant Design contract Construction of Filter, Res &							799,000
126	that hon and manganese illuation is	not needed, the capital cost will be significantly reduced.		Pump Station							
127 128				Pipeline Improvements Project Total			_	-	-	-	1,813,000
129				Trojest rotal			-	_	_	_	1,013,000
_	Booster Pump Station/PRV	124 Construction	2021								
131		station 124 to transfer water across the Yahara River and provin 124 will transfer water from Zone 6W to Zone 6E and back ag		Public Engagement Engineering Services							63,000 231,000
133		it trough gained reliability and flexibility of operations. The pump		Water Main Improvements							231,000
134	the transfer of water from multiple we	ells if needed during a water shortage or equipment maintenanc	e period.	Construct BPS 124							
135 136			1	Project Total	-	-	-	-	-	-	294,000
_	Pressure Zone 9 Storage		2022								
144		ne 9 was identified in the Water Master Plan as being deficient.		Public Engagement							63,000
145 146		ir on Prairie Road in 2011 and 2012 with a 400,000 gallon tank, ir with a capacity of 750,000 gallons will resolve the remainder o		Reservoir Property Purchase Consultant Design Services							
	deficiency. An elevated reservoir in t	he western portion of Zone 9 will provide hydraulic balance to the	ne system. Pressure	Construct 750,000 gallon	_						
147		with not only residential but commercial and institutional facilities this development to the point that current facilities do not meet		elevated reservoir Reservoir Pipeline Construction							
148	, '	·		reservoir ripeline construction							
149			1	Project Total	-	-	-	-	-	-	63,000
150 151	Pump Station 220 - Raymon	d Road PS	2022		-						
152	•	on on the west side to move water between Zones 7, 9 and 10	1	Public Engagement	-						65,000
153	through a pressure reducing valve is	scheduled to start in 2022 and be finished and in service by the	e end of the year.	Engineering Services							
154		nond Road Pump Station will setup operational flexibility within from Zone 7 to Zones 9 and 10 and back again through a PR		Dual Zone Pump Station Construction							
155		ply resources between zones and fully use existing facilities in le supply redundancy to the far west side.	providing operational	PRV station							
156	meanimity. The project will also provid	ic suppry redundancy to the fail west slide.		Booster Station Piping Upgrade							
157			_	Project Total	-	-	-	-	-	-	65,000
158	Noor Wood Side Weter S	hr Project (Clamus)	2022								
188	Near West Side Water Suppl		2023	Public Engagement						63,000	
107	Near West Side Water Supply Proj	d this well project to mitigate a supply deficiency in Pressure Zo <i>i<u>ect</u></i> project will provide additional water supply capacity to both	Zones 6 & 7. The	Site Selection and Property	-					00,000	
190 191	final location of the proposed well wi period.	ll be determined following a significant public participation proce	ss and evaluation	Purchase Drill Test Well							322,000 160,000
191	period.			Drill production Well							100,000
193				Engineering Services Construction of Unit Well, Filter.							
				Construction of Unit Well, Filter, Reservoir and Pump Station							
194				· ·							
195				Water Main Hydraulic Improvements							
196				Project Total		-	-	-	-	63,000	482,000
197											

Water Utility Board 5-27-14 Meeting

	1	Madison Water Utility - 20 ⁻	15 Capital	Budget							
	and Delindrity since 1992	2015-2030 Capital Improve	ment Bud	get							
	adison		Updated:	May 21, 2014							
	ater IIII	DRAFI	Duimonu	Annual Totals	\$ 20,009,000	\$ 24,586,000	\$ 28,416,500	\$ 27,786,000	\$ 20,684,000	\$ 17,982,000	\$ 28,778,000
			Primary Construction		2014						
Line	Project	Date/Description/Purpose	Year	Tasks	Carry Over	2015	2016	2017	2018	2019	2020
207				ment Reinvestment Budget Goal		11,090,000				nvestment Budget Goal	14,020,000
208	Pipeline Replacement/Rehab	•	Ongoing	Total Pipe Rehab Budget	000 000	8,973,000	9,637,000	9,930,000	10,667,000	11,467,000	12,336,000
209		system replacement and upgrade program that provides for an		Reconstruction Pipe Projects Resurfacing Pipe Projects	900,000	3,950,000 3,850,000	4,108,000 4,000,000	4,272,000 4,400,000	4,443,000 4,840,000	4,621,000 5,324,000	4,806,000 5,856,000
210		ssment of an aging infrastructure indicates the Utility needs to years to renew and maintain the system. A planned annual inc		Pipe Lining Projects	300,000	1,040,000	1,144,000	1,258,000	1,384,000	1,522,000	1,674,000
211		continued. The Utility's Water Master Plan also recommends h		Verona Road Pipeline	425,000	133,000	385,000	1,230,000	1,304,000	1,322,000	1,074,000
213	improvements to the system. It is pro	posed to significantly increase pipeline investment for hydrauli		East Johnson	780,000	100,000	000,000				
214	then increase this budget over the ne	ext 15 years to meet Master Plan recommendations.		New Pipeline Projects	290,000	966,000	1,038,000	1,116,000	1,200,000	1,290,000	1,387,000
				Master Plan Hydraulic	,	,	,,,,,,,,	, ,,,,,,,,	,,	,,	, ,
215				Improvement Pipe Projects			799,000	895,000	1,002,000	1,122,000	1,257,000
216				Project Total	3,295,000	9,939,000	11,474,000	11,941,000	12,869,000	13,879,000	14,980,000
217				Pipe Hydraulic Upgrade Inves		2,020,000			Pipe Hydraulic Upgrade I		3,890,000
218				Pipe Hydraulic Upgrade	Investment Actual	966,000			Pipe Hydraulic Upg	grade Investment Actual	3,061,000
219	Misc. Pump Station/PRV/Fac	ility Projects	Ongoing								
220		ious minor improvement projects that are necessary to sustain		PRV Station Gammon Rd			0.15.000	201 200	0.40.000	005.000	
221		hese projects are itemized under a single heading. Pressure R	educing stations will	Chemical Feed Room Mods		300,000	315,000	331,000	348,000	365,000	00.000
222	be constructed inroughout the system	n as needed to reduce areas of excessive pressure.		PRV Projects 2 per year		52,000	54,000 515,000	56,000 541,000	58,000 568,000	60,000 596,000	62,000 626.000
223 224	-			Misc. Projects Consultant Services		440,000 95,000	106,000	111.000	117.000	123.000	83,000
225	-			Project Total		887,000	990,000	1,039,000	1,091,000	1,144,000	771,000
226				Troject rotar		007,000	990,000	1,039,000	1,031,000	1,144,000	771,000
227	System Wide Misc Projects		Ongoing								
228		led in the Capital Budget that cover a variety of repair, rehabilit		West Side Water Master Plan	175,000				365,000		
229		lanagement Plan recommends a reinvestment of \$2.5 (2005 do		Asset Management Plan	105,000				243,000		
229		ne long term. This would include Unit Well, pump station, and re		SCADA Maintenance and	103,000				243,000		
230		lget proposes that an allotment for this purpose be started in 20		6 Year Upgrade		108,000	250,000	263,000	40,000	40,000	42,000
231	Increased annually to raise it to the resisting single heading.	ecommended level. For budgeting purposes, these projects are	e itemized under a	Video System Upgrades		42,000	43,000	44,000	45,000	46,000	47,000
232	Single fleading.			Flow Meter and VFD Retrofit		211,000	217,000	224,000	231,000	238,000	245,000
233	_			Meter Program		200,000	208,000	216,000	225,000	234,000	243,000
				Private Well Connection	40.000	50.000					
234	-			Program Safety Additions to the Plant	40,000	50,000	72,000	76,000	80,000	84,000	88,000
235	-			Olin Admin Office Maintenance		67,000	12,000	76,000	80,000	84,000	88,000
236				Oiiii Aumini Omice iviainteriance		70,000	51,000	55,000	59,000	63,000	143,000
200	1			Unit Well/PS/Reservoir		. 5,000	0.,000	22,000	33,000	33,000	5,500
237				Rehab/Maintenance		1,045,000	1,150,000	1,265,000	1,392,000	1,531,000	1,684,000
]			Paterson Vehicle							
238	-			Storage Bldg Maintenance		54,000	58,000	62,000	67,000	72,000	77,000
222				Paterson Office		50,000	25,000	26,000	27,000	28,000	20.000
239 240	-			and Shop Maintenance Project Total	320,000	1,897,000	2,074,000	2,231,000	2,774,000	2,336,000	29,000 2,598,000
240				Project 10tal	320,000	1,897,000	2,074,000	2,231,000	2,774,000	∠,336,000	∠,598,000
241				Total Estimated Annual Costs							
242				Total Estillated Allifudi Costs	20,009,000	24,586,000	28,416,500	27,786,000	20,684,000	17.982.000	28,778,000
242			1	I Facility Reinvestment and Renewal Goal	20,000,000	3.360	23,710,300	21,100,000		ment and Renewal Goal	3.89
244				acility Reinvestment and Renewal Actual		1.29				ent and Renewal Actual	2.02
245											

Water Utility Board 5-27-14 Meeting
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Madison Water Utility

h/3/2013 WORK IN PROGRESS

WORK ORDERS IN 10700

	Job No.	Description	Amount
	1-0460-08	The Meadowlands Phase 3 - Mains - PC	872.81
	1-0460-09	The Meadowlands Phase 3 - Services - PC	0.00
	1-0460-18	Grandview Commons Phase 11 - Mains - PC	13,165.87
		Village @ Autumn Lake - Phase I - Mains - PC	2,895.71
	1-0460-74	Village @ Autumn Lake - Phase I - Svcs - PC	0.00
	1-0460-75	Village @ Autumn Lake - Phase II - Mains - PC	2,434.05
	1-0460-76	Village @ Autumn Lake - Phase II - Svcs - PC	0.00
	1-0730-39	Lower 20" Main for UW (near Warf Bldg)	16,379.39
	1-0750-82		106,935.03
	1-0850-82		1,259,353.39
	1-0860-13	Fifth Addition to Cherokee Park - Mains - PC	2,102.78
	1-0860-14	Fifth Addition to Cherokee Park - Services - PC	0.00
	1-0950-81	•	24,887.54
	1-0960-09	Brown Business Park - Mains - PC	859.96
	1-0960-10	4	0.00
	1-0960-17	·	1,499.54
	1-0960-18	Northport Commons Addendum - Services - PC	0.00
	1-1030-39	Eastside Water Supply Study Albertall new laterals	595,553.88
	1-1030-40	South Pt Ra Relocate Hydrs & install new Laterals	52,454.60
<	1-1040-61	AMI Project Phase 1 RFP	298,279.20
	1-1050-81	UW 17 FSN Enhancements	16,400.40
	1-1050-84		1,351,341.58
	1-1060-11	6901 McKee Road - Mains - PC	52.74
	1-1060-12		0.00
	1-1130-33	Koster St - Reconnect Svcs & Abandon Main	26,597.45
	1-1130-35	Distribution System Monitoring de Some	29,233.96
	1-1130-40	Warner Park Meter Pit	9,085.99
	1-1130-52	UW 15 VOC Air Stripper	2,629,718.09
	1-1150-75	Installation of Fiber Optic Equipment	15,063.81
		Pressure Zone 4 (Tradewinds Test Well #31)	588,835.08
	1-1160-12	University Research Park Pioneer Phase 1 – Mains – PC	0.00
	1-1160-13		0.00
	1-1170-11		0.00
		Koster - Services MWU - USE 1-1130-33	0.00
	1-1180-25	7173 Manufacturers Dr 10" Svc (Cut-In)	0.00
	1-1220-22	Manitou Way - Replace backyard services - MWU	19,895.87
K	1-1230-36		8,037,237.32
	1-1230-39	MWU 130th Anniversary タータン(をひりって)	4,278.56
	1-1230-43	5555 High Crossing Blvd - Relocate Hydrant	1,257.01
	1-1230-44	Industrial Drive/Nob Hill Connection	871.72
	1-1250-73	UW 3 Replacement - East Isthmus Well	21,045.26
	1-1250-74	Repaint Cross Hill Drive Elevated Tank 315 word	19,195.50
		Pressure Zone 4 (Dairy Drive Test Well)	140,664.89
		UW 7 Iron and Manganese Filter	725,888.87
	1-1250-82	Booster Station 106 Reconstruction	1,169,941.66

Exhibit 6 - support for Attachment 11

Madison Water Utility

MRING

	10/0.10	
1-1250-83	UW 20 Pump Upgrade	469,578.65
1-1250-84	UW 26 Generator Addition	73,060.74
1-1250-85	UW 24 Pump removal, repair & bore hole rehab	60,340.90
1-1260-13	Cardinal Glen Phase 6 - Mains - PC	5,424.48
1-1260-15	Linden Park Phase 10 - Mains - PC	5,640.56
1-1260-16	Linden Park Phase 10 - Services - PC	1,185.04
1-1260-17	Oak Park Place-Shorewood Hills - Mains - PC	0.00
1-1260-18	Oak Park Place-Shorewood Hills - Services - PC	0.00
1-1260-25	First Addn to Hawks Creek Phase 1A - Mains - PC	4,110.97
1-1260-29	Elderberry Rd & Samuel Dr - Mains - CC	148,910.19
1-1260-30	Elderberry Rd & Samuel Dr - Services - CC	0.00
1-1270-21	Park Way - Mains - MWU	566.40
1-1270-22	Park Way - Services - MWU	0.00
1-1270-23	1766 Fordem - Mains - MWU	1,421.19
1-1270-28	Ice Age Trail - Lower Main - Mains - MWU	652.19
1-1270-29	Ice Age Trail - Lower Main - Services - MWU	0.00
1-1270-30	Verona Road WI-DOT Ph 1 - Mains - CC	155,199.53
1-1270-31	Verona Road WI-DOT Ph 1 - Services - CC	0.00
1-1270-38	East Johnson: Butler to Baldwin - Mains - CC	38,186.96
1-1270-39	East Johnson: Butler to Baldwin - Services - CC	· 7,538.20
1-1270-40	Livingston St: E Johnson to E Wash - Mains - CC	169,382.94
1-1270-41	Livingston St: E Johnson to E Wash - Svcs - CC	2,098.91
1-1270-42	E Washington & Livingston Intersection - Mains - CC	65,684.27
1-1270-44	E Dayton & N Brearly - Mains - CC	438,498.74
1-1270-45	E Dayton & N Brearly - Services - CC	7,902.84
1-1270-46	N. Fairchild & W Mifflin – Mains – CC	77,653.68
1-1270-47	N. Fairchild & W Mifflin – Services - CC	605.11
1-1270-48	Webster St: E Washington to Doty – Mains – CC	244,945.33
1-1270-49	Webster St: E Washington to Doty – Services – CC	1,007.70
1-1270-50	N Henry St & Iota Ct – Mains – CC	244,798.17
1-1270-51	N Henry St & Iota Ct – Services - CC	4,248.88
1-1270-52		158,248.74
1-1280-16	EEEE High Crossing Rhyd 9" Syc - Cl /Car Wash) Nolson Rd	0.00
1-1330-34	Which Well Serves My Home Update Bod + washing to the washing the sound of the washing the washing the washing the sound of the washing the	25,257.72
1-1330-36	Langdon St Lower Water Main	2,991.05
1-1330-38	Sphara 215 Lightning Strike 4/0/12	3,633.77
1-1330-40	UW Engineering Grad Student Project-Motor Efficiency Study	2,557.89
1-1330-42	Larkin Tower Antenna Storm Damage	918.50
1-1330-44	1300 Block of W Dayton (Cut-In Valve)	. 316.82
1-1330-45	Dane County SREF Bldg - Lower Water Main	0.00
1-1330-47	5927 Schroeder Rd Well Abandonment	5,471.59
1-1330-48	3102 Progress Rd MMSD NE Interceptor	1,835.51
1-1330-50	Johnson @ Livingston Water Main Abandonment	11,225.83
1-1340-52	Purchase Ford E-350 W-16A W-64A	40,126.77
1-1340-52	Purchase Ford E-450-W-8A-W-22A W-8A	51,863.27
1-1340-57	Purchase Ford F450 W-59A	0.00
1-1340-57	Purchase John Deere Backhoe W-84A	113,127.07
1-1340-59	Purchase Ford F-350 W-52B (2013 budget)	0.00
1-1340-59	Purchase Ford F-350 W-32B (2013 budget)	0.00
1-1240-00	Larchase Lora L-220 M-130 (5014 panger)	0.00

Exhibit 6 - support for Attachment 11 Madison Water Utility 131/3

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1-1350-72	UW 31 - Drill Well	725,495.97
1-1350-76	UW 17 Rebuild Booster Pump #2	28,455.12
1-1350-77	Op Center Rebuild	36,864.37
1-1350-79	UW 26 Reservoir Repairs	132,288.88
1-1350-80	UW 10 - Abandon Well	83,215.99
1-1350-81	UW 13 Deep Well Pump	50,810.55
1-1350-82	UW 20 Cell Compound Fence Construction	36,571.22
1-1350-83	UW 24 Reservoir Roof Repair	15,157.18
1-1350-85	UW 6 Reservoir Roof	23,296.00
1-1350-86	Lake View Reservoir 113 Reconstruction	33,359.56
1-1350-87	UW 6 Booster Pump VFD Addition	49,035.55
1-1350-88	UW 29 Deep Well Removal, Treatment & Reinstallation	55,187.18
1-1350-90	UW 28 Deep Well Removal, Treatment & Reinstallation	9,502.74
1-1350-91	Booster Station 115 Upgrade	1,089.86
1-1350-92	UW 24 Booster Frequency Drives	62,746.55
1-1350-93	UW 20 Generator Emissions Upgrade	1,671.89
1-1350-94	UW 30 Generator Emissions Upgrade	1,671.89
1-1350-95	UW 24 Reservoir Electric Service Addition	0.00
1-1360-01	1815 University Ave - Services - MWU	271.29
1-1360-02	6002 Cottage Grove Road – Copps Market – Mains – PC	4,607.95
1-1360-03	6002 Cottage Grove Road – Copps Market – Svcs – PC	0.00
1-1360-04	Town Center Addition to Grandview Commons – Utilities – Mains – PC	3,714.22
1-1360-05	Town Center Addition to Grandview Commons – Utilities – Svcs – PC	431.34
1-1360-06	Cardinal Glenn – Phase 7 – Mains – PC	6,234.21
1-1360-07	Cardinal Glenn – Phase 7 – Svcs – PC	596.40
1-1360-08	5302 Tancho Dr - Mains - PC	5,669.32
1-1360-09	5302 Tancho Dr - Services - PC	372.81
1-1360-10	Woodstone Replat #2 - Mains - PC	11,247.97
1-1360-11	Woodstone Replat #2 - Services - PC	2,256.81
1-1360-12	Blackhawk Eighth Addition Phase 7 - Mains - PC	5,660.83
1-1360-13	Blackhawk Eighth Addition Phase 7 - Services - PC	339.01
1-1360-14	Grandview Commons Phase 18 – Mains – PC	1,034.63
1-1360-15	Grandview Commons Phase 18 – Services – PC	0.00
1-1360-16	Linden Park Phase 11 – Mains - PC	69.59
1-1360-17	Linden Park Phase 11 – Services - PC	0.00
1-1360-18	Meadowlands Phase 6 - Mains - PC	5,323.20
1-1360-19	Meadowlands Phase 6 - Services - PC	223.69
1-1360-20	Secret Places Phase 9 - Mains - PC	6,820.15
1-1360-21	Secret Places Phase 9 - Services - PC	208.36
1-1360-22	Grandview Commons Phase 19 – Mains – PC	5,831.73
1-1360-23	Grandview Commons Phase 19 – Services – PC	818.01
1-1360-24	Secret Places Phase 10 - Mains - PC	3,895.80
1-1360-25	Secret Places Phase 10 - Services - PC	108.99
1-1360-26	Jeffy Tr Water Main Extension-Mains-CC	39,494.03
1-1360-27	Jeffy Tr Water Main Extension-Services-CC	0.00
1-1360-28	Trevor Way Water Main Extension-Mains-CC	67,945.51
1-1360-29	Trevor Way Water Main Extension-Services-CC	608.88
1-1360-30	Cardinal Glenn Phase 8 - Mains - PC	3,406.41
1-1360-31	Cardinal Glenn Phase 8 - Services - PC	866.25
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Exhibit 6 - support for Attachment 11 Madison Water Utility (7)

1-1360-32	Hawks Woods Estates - Mains - PC	1,777.36
1-1360-33	Hawks Woods Estates - Services - PC	0.00 .
1-1360-34	Novation Campus II Ph 2 (Town of Madison) - Mains - CC	0.00
1-1360-35	Hayes-Independence-Declaration - Mains - CC	12,715.13
1-1360-36	Hayes-Independence-Declaration - Services - CC	62.29
1-1360-37	Cannonball Ph 4-Ridgewood Way - Mains - CC	2,682.09
1-1360-38	Cannonball Ph 4-Ridgewood Way - Services - CC	0.00
1-1360-39	Cannonball Ph 5-UW Arboretum - Mains - CC	1,155.43
1-1360-40	Cannonball Ph 5-UW Arboretum - Services - CC	0.00
1-1360-41	Woodstone Phase 3 - Mains - PC	1,061.47
1-1360-42	Woodstone Phase 3 - Services - PC	0.00
1-1360-43	McAllen 120 Business Park - Mains - PC	9,975.12
1-1360-44	McAllen 120 Business Park - Services - PC	234.31
1-1360-45	3901 Hanson Rd - Mains - PC	28.68
1-1360-46	3901 Hanson Rd - Services - PC	0.00
1-1360-47	1802 Maplecrest Ph 3 - Mains - PC	3,632.60
1-1360-48	1802 Maplecrest Ph 3 - Svcs - PC	595.09
1-1360-49	Lancaster Dr - Mains - CC	1,005.30
1-1360-50	Lancaster Dr - Svcs - CC	0.00
1-1360-51	Hwy 151/Lancaster Dr Watermain Crossing - CC	893.30
1-1370-01	Mound St - Randall to Brooks - Mains - CC	228,427.74
1-1370-02	Mound St - Randall to Brooks - Svcs - CC	2,933.92
1-1370-03	N Stoughton Rd Service Rd - N Stoughton to Orin - Mains - CC	178,944.11
1-1370-04	N Stoughton Rd Service Rd - N Stoughton to Orin - Svcs - CC	703.98
1-1370-05	N Whitney Way - Old Middleton to University - Mains - CC	177,516.52
1-1370-06	N Whitney Way - Old Middleton to University - Svcs - CC	469.27
1-1370-07	Pinecrest Dr - E Washington to Burke - Mains - CC	847.27
1-1370-08	Pinecrest Dr - E Washington to Burke - Svcs - CC	77.84
1-1370-09	Storm w/Resurfacing - Kinsman Blvd - Mains - CC	170,954.11
1-1370-10	Storm w/Resurfacing - Kinsman Blvd - Services - CC	65.84
1-1370-11		94,789.11
1-1370-12	Highland Ave - University to north end - Services - CC	574.16
1-1370-13	Wheeler, Deleware, Northland - Mains - CC	344,666.55
1-1370-14	Wheeler, Deleware, Northland - Services - CC	2,627.84
1-1370-14	Baltzell St, Cross St - Mains - CC	145,399.40
1-1370-15	Baltzell St, Cross St - Services - CC	1,761.38
1-1370-17	Storm w/Resurfacing - Agate Ln - Mains - CC	164,544.17
1-1370-17	Storm w/Resurfacing - Agate Ln - Services - CC	1,408.74
1-1370-18	Storm w/Resurfacing - Whitcomb & Loruth - Mains - CC	308,052.57
1-1370-19	Storm w/Resurfacing - Whitcomb & Loruth - Services - CC	735.29
1-1370-20	N Brooks St, Clymer PI & Bernard Ct: Dayton to Univ/Park to Mills - Mains - CC	48,838.79
1-1370-21	N Brooks St, Clymer PI & Bernard Ct: Dayton to Univ/Park to Mills - Svcs - CC	1,137.04
1-1370-22	Dow Ct: Wilson to end - Mains - CC	42,057.91
	Dow Ct: Wilson to end - Nams - CC Dow Ct: Wilson to end - Services - CC	0.00
1-1370-24 1-1370-25	Langdon St: Wisconsin to Carroll - Mains - CC	169,806.89
	Langdon St: Wisconsin to Carroll - Mains - CC Langdon St: Wisconsin to Carroll - Services - CC	415.98
1-1370-26	Cherokee Dr: Midvale to Nakoma - Mains - CC	265,559.40
1-1370-27	Cherokee Dr: Midvale to Nakoma - Services - CC	31,160.75
1-1370-28		163,491.31
1-1370-29	Merrill Crest Dr: Langlois to Old Middleton - Mains - CC	105,451.51

Exhibit 6 - support for Attachment 11 Madison Water Utility Madison Water Utility

1-1370 - 30	Merrill Crest Dr: Langlois to Old Middleton - Services - CC	995.09
1-1370-31	Keyes Ave: Commonwealth to Edgewood - Mains - CC	127,525.64
1-1370-32	Keyes Ave: Commonwealth to Edgewood - Services - CC	3,623.54
1-1370-33	Johns St: Walter to Dennett - Mains - CC	212,651.03
1-1370-34	Johns St: Walter to Dennett - Services - CC	2,064.35
1-1370-35	Gammon Rd: Gammon Ln - Mains - MWU (no services)	30,069.87
1-1370-36	University Relief Storm Sewer - Mains - CC	48,521.07
1-1370-37	University Relief Storm Sewer - Services - CC	0.00
1-1370-38	World Dairy Drive Replat - Mains - CC	3,386.49
1-1370-39	World Dairy Drive Replat - Services - CC	0.00
1-1370-40	State St 700-800 Blocks - Mains - CC	3,769.29
1-1370-41	State St 700-800 Blocks - Services - CC	0.00
1-1370-42	2013 CIPP Water Main Rehabilitation - Mains - CC	657,712.59
1-1370-43	2013 CIPP Water Main Rehabilitation - Svcs - CC	0.00
1-1370-44	Larkin St-Hillcrest Dr-Glenway St - Mains - CC	186.91
1-1370-45	Larkin St-Hillcrest Dr-Glenway St - Services - CC	0.00
1-1370-46	Edgewater - Mains - CC	1,879.05
1-1370-47	Edgewater - Services - CC	0.00
1-1370-48		716.24
1-1370-49	Charter & Spring St - Svcs - CC	0.00
1-1370-50	King & E. Main - Mains - CC	1,841.67
1-1370-51	King & E. Main - Svcs - CC	0.00
1-1370-52	W Badger Rd: Fish Hatch to west end - Mains - CC	10,301.39
1-1370-53	W Badger Rd: Fish Hatch to west end - Svcs - CC	1,347.82
1-1370-54	Gilbert Rd: Whitney to Hammersley - Mains - CC	124.57
1-1370-55	Gilbert Rd: Whitney to Hammersley - Svcs - CC	0.00 ·
1-1370-56	Oakridge Ave - Mains - CC	· 237.87
1-1370-57	-	0.00
1-1370-58	Highland Ave: Phase 2 - Mains - CC	0.00
1-1370-59	Highland Ave: Phase 2 - Services - CC	0.00
1-1380-33	-	0.00
	3302 Packers Ave 6" Fire Svc Cut-In	. 0.00
1-1410-07	Change Meters 5/8", 3/4", 1"	0.00
1-1410-10	Purchase Meters AMI	(1,866.70)
	Purchase 2014 JD 410K Backhoe W-24B	15.42
1-1450-63	Purchase and Install Chlorinators/Fluoridators	10,287.36
1-1450-66	Unit Well Improvements - move via journal entry to 2013 w/o number	0.00
1-1470-01	•	261.03
1-1470-23	Utilities w/Resurfacing - Larkin St -Mains - CC	600.00
		25,055,012.14
	Retainages booked J1201T, 4/18/14	322,702.12
	Final Balance Work Orders in 10700	25,377,714.26
	General Ledger Balance 10700 12/31/13	25,377,714.26
1-1040-61		(798 TR 20)
1-1040-61 -1736-36	Inst Oxed Clar I CTB 5-12014 4/25/14 Inst Oxed Clar I CTB 5-12014 4/25/14	10.00 m
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Madison Water Utility

WORK IN PROGRESS WORK ORDERS IN 10600

Job No.	Description	Amount
1 0 1 5 0 1 0	O Literatura Ada Caminas DC	214.01
1-0460-19	Grandview Commons Phase 11 - Services - PC	214.01
1-0560-73	Kennedy Point Condominiums PUD - Mains - PC	3,506.79
1-0560-74	Kennedy Point Condominiums PUD - Services -PC	47.45
1-0760-04	First Addn to Hawks Creek Phase 1 - Services - PC - Close w/1-1260-26	2,474.47
1-0760-17	Airport Ramp Expansion - PC	17,051.57
1-0760-25	8th Addition to Blackhawk Phase 3 - Mains - PC	6,353.16
1-0760-26	8th Addition to Blackhawk Phase 3 - Services - PC	104.18
1-0860-03	Tradesman Commerce Park - Mains - PC	5,429.79
1-0860-04	Tradesman Commerce Park - Services - PC	486.24
1-0860-15	Woodstone Phase 1 - Mains - PC	14,588.53
1-0860-16	Woodstone Phase 1 - Services - PC	399.27
1-0870-09	Merry - Mains - CC	93,591.66
1-0870-10	Merry - Services - CC	1,457.85
1-0870-49	East Campus Utilities Main Replacement - Mains - CC	21,266.10
1-0870-50	East Campus Utilities Main Replacement - Svcs - CC	. 0.00
1-0960-01	Union South Redevelopment - Mains - PC	. 11,306.97
1-0960-02	Union South Redevelopment - Services - PC	0.00
1-0960-05	Novation Campus II - Mains - (Town of Madison)	123,863.32
1-0960-06	Novation Campus II - Services - (Town of Madison)	32.66
1-0960-20	Regas Road - New Main - CC	119,282.19
1-0960-23	Cardinal Glenn Phs 2B - Services - PC	1,732.03
1-0970-17	University Ave Main Replacement- University @ Breese - Mns	532,373.63
1-0970-18	University Ave Main Replacement- University @ Breese - Svcs	75.23
1-0970-27	Hargrove St: Margaret to Dennett-Mains	990.42
1-0970-28	Hargrove St: Margaret to Dennett-Services	0.00
1-0970-33	University Bay Dr-Replace 16" Main - CC	7,341.56
1-0970-40	University Ave: Shorewood to Segoe-Mns-CC	1,195,769.72
1-0970-41	University Ave: Shorewood to Segoe-Svs-CC	577.65
1-1060-04	Linden Park Phase 9 - Svs - PC	1,246.13
1-1060-07	1802 Maplecrest Dr PUD Phase 2 - Mns - PC	6,103.49
1-1060-08	1802 Maplecrest Dr PUD Phase 2 - Svcs - PC	104.79
1-1060-14	Grandview Commons - Phase 16 - Svcs PC	1,059.22
1-1060-15	Anderson St Water Main - CC	751,395.19
1-1070-13	STH 113: Packers Replace Water Main - Mns - CC	1,109,154.17
1-1070-14	STH 113: Packers Replace Water Main - Svcs - CC	3,044.29
1-1070-19	Camden Rd: Pflaum to Hob - Mns - CC	237,986.36
1-1070-20	Camden Rd: Pflaum to Hob - Svcs - CC	2,726.34
1-1070-23	Buckeye Rd: Spaanem to Shaffer - Mns&Svc-MWU	74,949.09
1-1070-41	300 Block N Park - Mains	23,526.62
1-1070-42	1100 Block Milton Street - Mains (WU)	. 35,487.96
1-1070-43	400 Block N Park Relocate Main	13,929.50
1-1070-44	Droster Rd - Buckeye to north - Mains	241,688.98
1-1070-45	Droster Rd - Buckeye to north - Services	0.00
1-1070-54	University - Breese Terr to Allen Street Mains	649,370.38
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Madison Water Utility

WORK IN PROGRESS
WORK ORDERS IN 10600

Job No.	Description	Amount
1-1070-55	University - Breese Terr to Allen Street Svcs	3,755.05
1-1130-32	1741 Commercial Ave 6" Fire Service	363.02
1-1160-01	Secret Places - Phase 7 - Mains PC	7,083.85
1-1160-02	Secret Places - Phase 7 - Svcs PC	266.56
1-1160-03	Cherokee Condominiums Mains & Service - PC	1,815.78
1-1160-04	Manufacturers Dr Assessment Dist - Mains - CC	224,516.27
1-1160-05	Manufacturers Dr Assessment Dist - Svcs - CC	404.19
1-1160-06	Genesis Plat - Tradewinds Pkwy - Mains - CC	547,140.91
1-1160-07	Genesis Plat - Tradewinds Pkwy - Services - CC	1,652.45
1-1160-08	Grim St Relocation - Mains - PC	30,950.91
1-1160-09	Grim St Relocation - Services - PC	1,094.51
1-1160-14	University Crossing - Mains - PC	18,302.94
1-1160-15	University Crossing - Services - PC	902.00
1-1170-13	Fish Hatch-Beltline Interchange Mains CC	408,727.85
1-1170-14	Fish Hatch-Beltline Interchange Svcs CC	569.28
1-1170-15	Fish Hatch-Emil to RR Tracks Mains CC	443,880.40
1-1170-16	Fish Hatch-Emil to RR Tracks Svcs CC	0.00
1-1170-31	Norris Ct - Replace Services - MWU	52,869.70
1-1170-32	N Pinckney - Gorham to Gilman - Replace Mains MWU	46,522.51
1-1170-33	N Pinckney - Gorham to Gilman - Replace Svcs MWU	10,503.00
1-1170-34	STH 113 Northport Replace Mains CC	935,246.35
1-1170-35	STH 113 Northport Replace Services CC	6,378.79
1-1170-36	University-Segoe to Allen Blvd-Replace Mains CC	832,851.20
1-1170-37	University-Segoe to Allen Blvd-Replace Svcs CC	4,285.98
1-1170-40	W Lakelawn PI - Langdon to End - Mains - CC	92,874.61
1-1170-41	W Lakelawn PI - Langdon to End - Services - CC	654.44
1-1170-42	630 N Frances relocate hydrant - CC	20,619.42
1-1170-43	Monona Dr:Winnequah to Cottage Grove Rd-Relocate Hydrants & Curbstops-MWU	202,852.95
1-1170-44	Outer Loop - Fairchild & Carroll - Mains - CC	681,997.26
1-1170-45	Outer Loop - Fairchild & Carroll - Services - CC	1,510.87
1-1170-46	Camden - Hob to Allis - Mains - CC	209,519.20
1-1170-47	Camden - Hob to Allis - Services - CC	6,668.02
1-1170-48	Lawrence / O'Sheridan / Bresland - Mains - CC	259,474.10
1-1170-49	Lawrence / O'Sheridan / Bresland - Services - CC	4,161.73
1-1170-50	N Orchard / Spring - Mains - CC	275,942.78
1-1170-51	N Orchard / Spring - Services - CC	1,779.37
1-1230-35	Truax ANG Building Water Main Relocate	3,551.27
1-1230-46	Kraft Foods Main & Service Replacement	593.64
1-1230-47	Lower Water Main @ Madison College	396.09
1-1260-01	Blackhawk 8th Addition - Phase 6 - Mains - PC	2,047.66
1-1260-02	Blackhawk 8th Addition - Phase 6 - Svcs - PC	502.19
1-1260-05	Country Club Road - MWU	69,274.73
1-1260-06	Mineral Point / Junction Road – Mains – CC	555,086.65
1-1260-07	Mineral Point / Junction Road – Svcs – CC	0.00

Exhibit 7 - support for Attachment 11 , Madison Water Utility

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WORK	ORDERS	IN 10600

Job No.	Description	Amount
1-1260-09	Grandview Commons Phase 17 - Mains - PC	7,339.41
1-1260-10	Grandview Commons Phase 17 - Services - PC	1,214.62
1-1260-12	Cardinal Glen Phase 5 - Services - PC	907.13
1-1260-14	Cardinal Glen Phase 6 - Services - PC	540.32
1-1260-19	Pankratz Street CSM - Mains - PC	11,793.60
1-1260-20	Pankratz Street CSM - Services - PC	57.23
1-1260-23	Secret Places Ph 8 - Mains - PC	6,663.24
1-1260-24	Secret Places Ph 8 - Services - PC	939.13
1-1260-26	First Addn to Hawks Creek Phase 1A - Services - PC	293.78
1-1260-27	Rodefeld Landfill Water Main - Mains - PC	11,706.29
1-1260-28	Rodefeld Landfill Water Main - Services - PC	449.19
1-1270-01	Rosa Road - Mains - CC	841,167.27
1-1270-02	Rosa Road - Services - CC	4,524.79
1-1270-03	Jenifer St: Rogers to Thornton - Mains - CC	195,309.98
1-1270-04	Jenifer St: Rogers to Thornton - Services - CC	1,438.72
1-1270-05	E Dayton St: Few to Baldwin - Mains - CC	11,124.94
1-1270-06	E Dayton St: Few to Baldwin - Services - CC	2,168.16
1-1270-09	Ingersoll / Rutledge - Mains - CC	233,913.52
1-1270-10	Ingersoll / Rutledge - Services - CC	2,775.82
1-1270-13	Frances / Gorham / Henry - Mains - CC	68,649.86
1-1270-14	Frances / Gorham / Henry - Services - CC	1,373.66
1-1270-15	Midland St: Fish Hatchery to Wingra - Mains - CC	89,524.98
1-1270-16	Midland St: Fish Hatchery to Wingra - Services - CC	2,368.31
1-1270-17	Madison St: Grant to Van Buren - Mains - CC	160,497.14
1-1270-18	Madison St: Grant to Van Buren - Services - CC	2,167.22
1-1270-19	1600 Block W Beltline Frontage Rd - Mains - MWU	42,968.59
1-1270-20	1600 Block W Beltline Frontage Rd - Svcs - MWU	2,110.53
1-1270-24	Segoe Road @ Odana Road - Mains - CC	92,733.36
1-1270-25	Segoe Road @ Odana Road - Services - CC	20.71
1-1270-26	Conklin Place - Mains - CC	131,979.34
1-1270-27	Conklin Place - Services - CC	1,193.51
1-1270-34	CIPP Water Main Rehab 2012 - Mains - CC	398,053.41
1-1270-35	CIPP Water Main Rehab 2012 - Services - CC	(445.44)
1-1270-36	Rutledge Street - West Dead End - Mains - MWU	40,552.84
1-1270-37	Rutledge Street - West Dead End - Services - MWU	13,397.42
1-1270-43	Arboretum Pond 3 - Lower Main - Mains - CC	3,723.05
		13,666,875.07

2015 INCREASE AT 6.50% ROR Debt Financing for All Capital Improvements

Debt Financing for All Capital Improve	ements 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
-																	
Overall Rate Increase	0.0%	0.0%	0.0%	30.42%	0.0%	12.0%	0.0%	10.0%	0.0%	10.0%	0.0%	8.0%	0.0%	8.0%	0.0%	8.0%	0.0%
Unmetered Sales	\$110,945	\$72,497	\$70,000	\$80,646	\$91,291	\$102,246	\$102,246	\$112,471	\$112,471	\$123,718	\$123,718	\$133,616	\$133,616	\$144,305	\$144,305	\$155,849	\$155,849
Revenues from Residential	\$12,545,053	\$11,124,051	\$11,272,537	\$13,076,518	\$14,802,700	\$16,579,024	\$16,579,024	\$18,236,926	\$18,236,926	\$20,060,619	\$20,060,619	\$21,665,468	\$21,665,468	\$23,398,706	\$23,398,706	\$25,270,602	\$25,270,602
Revenues from Multi-Family		\$4,728,127	\$4,699,698	\$5,424,084	\$6,140,097	\$6,876,909	\$6,876,909	\$7,564,600	\$7,564,600	\$8,321,059	\$8,321,059	\$8,986,744	\$8,986,744	\$9,705,684	\$9,705,684	\$10,482,138	\$10,482,138
Revenues from Commercial	\$9,342,942	\$4,228,870	\$4,190,427	\$4,775,616	\$5,406,027	\$6,054,751	\$6,054,751	\$6,660,226	\$6,660,226	\$7,326,248	\$7,326,248	\$7,912,348	\$7,912,348	\$8,545,336	\$8,545,336	\$9,228,963	\$9,228,963
Revenues from Industrial	\$1,136,010	\$1,153,442	\$1,078,225	\$1,238,064	\$1,401,497	\$1,569,676	\$1,569,676	\$1,726,644	\$1,726,644	\$1,899,308	\$1,899,308	\$2,051,253	\$2,051,253	\$2,215,353	\$2,215,353	\$2,392,582	\$2,392,582
Revenues from Public Authority	\$2,814,579	\$2,834,934	\$2,676,592	\$3,168,264	\$3,586,495	\$4,016,874	\$4,016,874	\$4,418,562	\$4,418,562	\$4,860,418	\$4,860,418	\$5,249,251	\$5,249,251	\$5,669,191	\$5,669,191	\$6,122,726	\$6,122,726
Revenues from Wholesale	\$330,242	\$344,064	\$340,848	\$385,910	\$436,852	\$489,275	\$489,275	\$538,202	\$538,202	\$592,022	\$592,022	\$639,384	\$639,384	\$690,535	\$690,535	\$745,778	\$745,778
Revenues from Public Fire	\$2,873,140	\$2,925,698 \$377,184	\$3,047,526 \$377,180	\$3,515,147 \$434,542	\$3,979,169 \$491,905	\$4,456,669 \$491,905	\$4,456,669 \$491,905	\$4,902,336 \$491,905	\$4,902,336 \$491,905	\$5,392,570 \$491,905	\$5,392,570 \$491,905	\$5,823,975 \$491,905	\$5,823,975 \$491,905	\$6,289,893 \$491,905	\$6,289,893 \$491,905	\$6,793,085 \$491,905	\$6,793,085 \$491,905
Revenues from Private Fire Other Operating Revenues	\$367,791 \$797,441	\$1,205,912	\$1,210,000	\$1,210,000	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$1,210,000	\$1,210,000	\$1,210,000	\$491,905	\$1,210,000	\$1,210,000
Total Operating Revenues	\$30,318,143	\$1,205,912	\$28,963,033	\$33,308,792	\$37,546,033	\$41,847,328	\$1,210,000	\$45,861,871	\$45,861,871	\$50,277,867	\$50,277,867	\$54,163,944	\$54,163,944	\$58,360,908	\$58,360,908	\$62,893,628	\$62,893,628
rotal operating nevenues	\$30,510,143	\$20,55 4 ,775	\$20,505,055	Ç33,300,732	Ç37,540,033	Ç41,047,320	J41,047,320	\$45,001,071	\$45,001,071	,50,277,007	\$30,£77,007	754,105,544	754,105,544	730,300,300	\$30,300,300	302,033,020	302,033,020
Non-Operating Revenues	\$380,532	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196
O&M - Source of Supply	\$70,902	\$63,875	\$72,249	\$148,296	\$151,262	\$154,287	\$157,373	\$160,520	\$163,731	\$167,005	\$170,345	\$173,752	\$177,227	\$180,772	\$184,387	\$188,075	\$191,837
O&M - Pumping	\$3,594,642	\$3,604,286	\$3,665,404	\$4,008,722	\$4,088,896	\$4,170,674	\$4,254,088	\$4,339,170	\$4,425,953	\$4,514,472	\$4,604,762	\$4,696,857	\$4,790,794	\$4,886,610	\$4,984,342	\$5,084,029	\$5,185,709
O&M - Water Treatment	\$748,477	\$775,044	\$745,343	\$789,252	\$805,037	\$821,138	\$837,561	\$854,312	\$871,398	\$888,826	\$906,602	\$924,735	\$943,229	\$962,094	\$981,336	\$1,000,962	\$1,020,982
O&M - Transmission & Distributio	\$5,148,520	\$5,601,638	\$5,611,434	\$5,764,660	\$5,879,953	\$5,997,552	\$6,117,503	\$6,239,853	\$6,364,650	\$6,491,943	\$6,621,782	\$6,754,218	\$6,889,302	\$7,027,088	\$7,167,630	\$7,310,983	\$7,457,202
O&M - Customer Accounts	\$618,491	\$718,659	\$664,615	\$677,908	\$691,466	\$705,295	\$719,401	\$733,789	\$748,465	\$763,435	\$778,703	\$794,277	\$810,163	\$826,366	\$842,893	\$859,751	\$876,946
O&M - Admin. & General	\$3,354,667	\$3,469,956 \$14,233,458	\$3,496,688	\$3,718,785	\$3,793,161	\$3,869,024	\$3,946,404	\$4,025,332	\$4,105,839	\$4,187,956	\$4,271,715 \$17,353,910	\$4,357,149	\$4,444,292	\$4,533,178	\$4,623,842	\$4,716,319	\$4,810,645
Total O&M Expenses	\$13,535,699	\$14,233,458	\$14,255,733	\$15,107,623	\$15,409,775	\$15,717,971	\$16,032,330	\$16,352,977	\$16,680,037	\$17,013,637	\$17,353,910	\$17,700,988	\$18,055,008	\$18,416,108	\$18,784,430	\$19,160,119	\$19,543,321
PILOT	\$4,931,166	\$5.390.047	\$5,736,002	\$6,251,690	\$6.685.396	\$7.138.544	\$7.621.549	\$8.144.492	\$8,701,231	\$9,293,818	\$9.927.509	\$10,605,706	\$11.329.441	\$12,102,230	\$12,928,056	\$13,810,406	\$14,752,757
Other Tax Expenses	\$386,507	\$231,875	\$117,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000
Debt																	
Revenue Bonds																	
Interest Expense	\$2,008,764	\$2,782,739	\$3,399,942	\$3,775,142	\$3,647,856	\$3,500,880	\$3,335,193	\$3,156,237	\$2,962,035	\$2,753,500	\$2,539,566	\$2,332,545	\$2,122,477	\$1,908,296	\$1,696,419	\$1,508,930	\$1,173,944
Principal Retirement	\$2,465,000	\$3,365,000	\$4,325,000	\$4,535,000	\$4,635,000	\$4,775,000	\$4,915,000	\$5,075,000	\$5,245,000	\$5,285,000	\$5,145,000	\$5,320,000	\$5,505,000	\$5,710,000	\$6,440,000	\$6,685,000	\$7,175,000
Refunding Bonds	\$1,632,944	44.504.456	\$1,540,131	\$1,470,306	\$1,412,806	44 240 000	44 254 406	44 474 220	44 070 550	\$975,819	\$860,319	\$723,694	\$577,319	\$446,819	4220 440	6220.240	\$190,209
Interest Expense Principal Retirement	\$1,532,944	\$1,584,456 \$1,570,000	\$1,540,131	\$1,470,306	\$1,412,806	\$1,348,806 \$2,070,000	\$1,251,406 \$2,055,000	\$1,174,238 \$2,040,000	\$1,079,569 \$2,110,000	\$2,510,000	\$2,955,000	\$2,900,000	\$2,900,000	\$2,970,000	\$329,419 \$2,085,000	\$228,319 \$2,175,000	\$190,209
Advance from Municipality	\$1,510,000	\$1,570,000	\$1,010,000	\$1,565,000	\$2,010,000	\$2,070,000	\$2,055,000	\$2,040,000	\$2,110,000	\$2,510,000	\$2,955,000	\$2,900,000	\$2,900,000	\$2,970,000	\$2,065,000	\$2,175,000	\$2,280,000
Interest Expense	\$92,181	\$85,746	\$77,763	\$71,169	\$64,162	\$56,620	\$48,687	\$40,056	\$30,871	\$26,790	\$22,110	\$16,763	\$10,611	\$3,891	\$3,923	\$3,955	\$3,988
Principal Retirement	\$822,717	\$827,357	\$833,158	\$839,249	\$846,499	\$854,040	\$862,451	\$872,022	\$117,464	\$129,065	\$141,536	\$154,588	\$168,799	\$0	\$0	\$0	\$0
New Debt Service	\$0	\$0	\$0	\$0	\$3,311,179	\$4,749,678	\$6,185,627	\$7,641,784	\$9,092,510	\$10,537,842	\$11,984,884	\$13,434,698	\$14,882,926	\$16,330,530	\$17,778,702		\$20,675,272
Total Debt Service	\$8,531,605	\$10,215,298	\$11,785,994	\$12,275,866	\$15,927,502	\$17,355,025	\$18,653,364	\$19,999,337	\$20,637,448	\$22,218,016	\$23,648,415	\$24,882,287	\$26,167,133	\$27,369,536	\$28,333,463	\$29,828,361	\$31,498,413
Capital Projects		4															
Capital Expenditures New Borrowing	\$19,688,300 \$21.095.000	\$18,416,469 \$24.335.000	\$20,084,920	\$20,009,000 \$45,000,000	\$19,549,672 \$19,549,672	\$19,515,015	\$19,789,652	\$19,715,835 \$19,715,835	\$19,642,544 \$19,642,544	\$19,665,761 \$19,665,761	\$19,703,448 \$19,703,448	\$19,681,897 \$19.681.897		\$19,681,130	\$19,684,972	\$19,680,353	
Net Cash Flow from Capital Financing	\$1,406,700	\$5,918,531	(\$20,084,920)	\$24,991,000	\$19,549,672	\$19,515,015	\$19,789,652	\$19,715,835	\$19,642,544	\$19,005,761	\$19,703,448	\$19,681,897	\$19,673,412	\$19,681,130	\$19,684,972	\$19,680,353	\$19,679,967
Net easi flow from eapital financing	Ş1,400,700	\$3,310,331	(\$20,004,320)	Ş24,331,000	ŞÜ	ŞÜ	ŞÜ	ÇÜ	Şū	Ç	ÇÜ	Şū	ÇÜ	ÇÜ	Şū	ÇÜ	γo
Total Cash In	\$51,793,675	\$53,569,975		\$78,548,988	\$57,335,901	\$61,602,540	\$61,877,176		\$65,744,610	\$70,183,825	\$70,221,511	\$74,086,037					
Total Cash Out	\$47,073,277	\$48,487,147	\$51,979,649	\$53,956,179	\$57,884,346	\$60,038,555	\$62,408,895	\$64,524,641	\$65,973,259	\$68,503,232	\$70,945,282	\$73,182,878	\$75,536,994	\$77,881,004	\$80,042,921		\$85,786,458
Net Cash Flow	\$4,720,398	\$5,082,828	(\$22,776,420)	\$24,592,809	(\$548,444)	\$1,563,985	(\$531,718)	\$1,293,261	(\$228,649)	\$1,680,593	(\$723,771)	\$903,159	(\$1,459,441)	\$401,230	(\$1,756,846)	\$22,938	(\$2,972,667)
Pasanias																	
Reserves Restricted Reserves																	
Operating Reserve	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150.000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Debt Service Fund	\$5,925,680	\$7,243,803	\$9,302,195	\$10,875,073	\$1365,449	\$15,016,841	\$150,000	\$17,742,226	\$19,087,259	\$20,489,114	\$22,062,161	\$23,484,769	\$24,710,936	\$25,987,722	\$27,365,645	\$28,329,540	\$29,824,406
Special Redemption Reserve	\$9,853,127	\$11,703,873	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538		\$11,767,538
Depreciation Fund	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
Subtotal Restricted Reserves	\$16,678,807	\$19,847,676	\$21,969,733		\$24,032,987	\$27,684,379			\$31,754,797	\$33,156,652	\$34,729,699				\$40,033,183		\$42,491,944
Construction Fund	\$14,011,600	\$19,606,390															
Unrestricted Reserves	\$2,669,923	\$2,875,130															
Subtotal Available Reserves	\$16,681,523	\$22,481,520	(\$294,900)		\$23,749,464			\$26,074,992		\$27,526,936	\$26,803,164					\$24,914,204	
Total Reserves - End of Year	\$33,360,330	\$42,329,196	\$21,674,833	\$47,840,519	\$47,782,451	\$52,997,828	\$53,893,633	\$56,484,756	\$57,601,140	\$60,683,587	\$61,532,864	\$63,858,631	\$63,625,357	\$65,303,373	\$64,924,450	\$65,911,283	\$64,433,481
Debt Courses Col. 1 ::																	
Debt Coverage Calculation Operating Revenues	\$30,318,143	\$28,994,779	\$28,963,033	בחד פחב בכל	\$37,546,033	\$41,847,328	\$41,847,328	\$45,861,871	CAE 061 071	\$50,277,867	\$50,277,867	¢E4 162 044	\$54,163,944	¢E0 260 000	\$58,360,908	\$62,893,628	¢62 902 620
less: O&M Expenses	\$30,318,143		\$28,963,033	\$33,308,792	\$37,546,033	\$41,847,328	\$16,032,330		\$16,680,037	\$17,013,637	\$50,277,867			\$18,416,108	\$18,784,430	\$19,160,119	
less: Other Tax Expenses	\$386,507	\$14,233,458	\$14,255,733	\$15,107,623	\$15,409,775	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$17,700,988	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000
divided by: Total Bond Debt Servic	\$7,616,708	\$9,302,195	\$10,875,073	\$11,365,449	\$15,016,841	\$16,444,364	\$17,742,226	\$19,087,259	\$20,489,114	\$22,062,161	\$23,484,769	\$24,710,936	\$25,987,722	\$27,365,645	\$28,329,540	\$29,824,406	
Debt Coverage	215%	156%	134%	157%	145%	157%	144%	153%	141%	149%	139%	146%	138%		139%	146%	137%
•						- /-						***					

2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
8.0%	0.0%	3.0%	0.0%	6.0%	0.0%	3.0%	0.0%	6.0%	0.0%
\$168,317	\$168,317	\$173,367	\$173,367	\$183,769	\$183,769	\$189,282	\$189,282	\$200,639	\$200,639
\$27,292,250	\$27,292,250	\$28,111,018	\$28,111,018	\$29,797,679	\$29,797,679	\$30,691,609	\$30,691,609	\$32,533,106	\$32,533,106
\$11,320,710	\$11,320,710	\$11,660,331	\$11,660,331	\$12,359,951	\$12,359,951	\$12,730,749	\$12,730,749	\$13,494,594	\$13,494,594
\$9,967,280	\$9,967,280	\$10,266,298	\$10,266,298	\$10,882,276	\$10,882,276	\$11,208,745	\$11,208,745	\$11,881,269	\$11,881,269
\$2,583,988	\$2,583,988	\$2,661,508	\$2,661,508	\$2,821,198	\$2,821,198	\$2,905,834	\$2,905,834	\$3,080,184	\$3,080,184
\$6,612,545	\$6,612,545	\$6,810,921	\$6,810,921	\$7,219,576	\$7,219,576	\$7,436,163	\$7,436,163	\$7,882,333	\$7,882,333
\$805,440	\$805,440	\$829,603	\$829,603	\$879,379	\$879,379	\$905,761	\$905,761	\$960,106	\$960,106
\$7,336,532	\$7,336,532	\$7,556,628	\$7,556,628	\$8,010,025	\$8,010,025	\$8,250,326	\$8,250,326	\$8,745,345	\$8,745,345
\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905	\$491,905
\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000
\$67,788,966	\$67,788,966	\$69,771,578	\$69,771,578	\$73,855,758	\$73,855,758	\$76,020,374	\$76,020,374	\$80,479,482	\$80,479,482
\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196
\$195,673	\$199,587	\$203,579	\$207,650	\$211,803	\$216,039	\$220,360	\$224,767	\$229,263	\$233,848
\$5,289,424	\$5,395,212	\$5,503,116	\$5,613,179	\$5,725,442	\$5,839,951	\$5,956,750	\$6,075,885	\$6,197,403	\$6,321,351
\$1,041,401	\$1,062,229	\$1,083,474	\$1,105,143	\$1,127,246	\$1,149,791	\$1,172,787	\$1,196,243	\$1,220,168	\$1,244,571
\$7,606,346	\$7,758,473	\$7,913,643	\$8,071,916	\$8,233,354	\$8,398,021	\$8,565,982	\$8,737,301	\$8,912,047	\$9,090,288
\$894,485	\$912,375	\$930,622	\$949,235	\$968,220	\$987,584	\$1,007,336	\$1,027,482	\$1,048,032	\$1,068,993
\$4,906,858	\$5,004,995	\$5,105,095	\$5,207,197	\$5,311,341	\$5,417,568	\$5,525,919	\$5,636,437	\$5,749,166	\$5,864,149
\$19,934,188	\$20,332,871	\$20,739,529	\$21,154,319	\$21,577,406	\$22,008,954	\$22,449,133	\$22,898,116	\$23,356,078	\$23,823,200
445 750 200	445 024 705	447.000.504	640 240 725	420 524 624		422 447 002	425.045.074	426 722 006	420 546 400
\$15,759,388 \$312,000	\$16,834,795 \$312,000	\$17,983,594 \$312,000	\$19,210,736 \$312,000	\$20,521,624 \$312,000	\$21,921,981 \$312,000	\$23,417,892 \$312,000	\$25,015,871 \$312,000	\$26,722,896 \$312,000	\$28,546,409 \$312,000
\$1,023,393	\$601,483	\$427,581	\$244,525	\$133,800	\$0	\$0	\$0	\$0	\$0
\$8,135,000	\$4,905,000	\$4,200,000	\$2,980,000	\$1,690,000	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$4,021	\$4,054	\$4,087	\$4,121	\$4,155	\$4,189	\$4,223	\$4,258	\$4,293	\$4,328
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$22,123,358	\$23,571,565	\$25,019,781	\$26,467,937	\$27,916,103	\$29,364,289	\$30,812,470	\$28,949,464	\$28,959,141	\$28,971,371
\$31,285,771	\$29,082,102	\$29,651,449	\$29,696,582	\$29,744,058	\$29,368,478	\$30,816,694	\$28,953,722	\$28,963,434	\$28,975,700
\$19,681,605	\$19,681,724	\$19,680,912	\$19,681,052	\$19,681,323	\$19,681,253	\$19,681,135	\$19,681,191	\$19,681,226	\$19,681,201
\$19,681,605	\$19,681,724	\$19,680,912	\$19,681,052	\$19,681,323	\$19,681,253	\$19,681,135	\$19,681,191	\$19,681,226	\$19,681,201
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$87,710,767	\$87,710,886	\$89,692,686	\$89,692,826	\$93,777,277	\$93,777,207	\$95,941,705	\$95,941,760		***************************************
\$86,972,952	\$86,243,493	\$88,367,485	\$90,054,690	\$91,836,410	\$93,292,666	\$96,676,854	\$96,860,899	\$99,035,634	***************************************
\$737,814	\$1,467,393	\$1,325,201	(\$361,865)	\$1,940,867	\$484,540	(\$735,149)	(\$919,139)	\$1,365,269	(\$937,630)
\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
\$31,494,425	\$31,281,751	\$29,078,048	\$29,647,362	\$29,692,462	\$29,739,903	\$29,364,289	\$30,812,470	\$28,949,464	\$28,959,141
\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538
\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
\$44,161,963	\$43,949,289	\$41,745,586	\$42,314,900	\$42,360,000	\$42,407,441	\$42,031,827	\$43,480,008	\$41,617,002	\$41,626,679
\$22,679,352	\$24,146,745	\$25,471,946	\$25,110,082	\$27,050,949	\$27,535,489	\$26,800,340	\$25,881,201	\$27,246,470	\$26,308,840
\$66,841,315	\$68,096,034	\$67,217,532	\$67,424,982	\$69,410,948	\$69,942,930	\$68,832,167	\$69,361,210	\$68,863,472	\$67,935,520
\$67,788,966	\$67,788,966	\$69,771,578	\$69,771,578	\$73,855,758	\$73,855,758	\$76,020,374	\$76,020,374	\$80,479,482	\$80,479,482
\$19,934,188	\$20,332,871	\$20,739,529	\$21,154,319	\$21,577,406	\$22,008,954	\$22,449,133	\$22,898,116	\$23,356,078	\$23,823,200
\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000
\$31,281,751	\$29,078,048	\$29,647,362	\$29,692,462	\$29,739,903	\$29,364,289	\$30,812,470	\$28,949,464	\$28,959,141	\$28,971,371
152%	162%	164%	163%	175%	176%	173%	182%	196%	194%

2015 INCREASE AT 6.50% ROR
Gradual Increase of Cash Financing Starting in 2017

Gradual Increase of Cash Financing Sta	arting in 2017																	
_	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Overall Rate Increase	0.0%	0.0%	0.0%	30.42%	0.0%	18.0%	0.0%	15.0%	0.0%	12.0%	0.0%	6.0%	0.0%	6.0%	0.0%	6.0%	0.0%	3.0%
Unmetered Sales	\$110,945	\$72,497	\$70,000	\$80,646	\$91,292	\$107,725	\$107,725	\$123,884	\$123,884	\$138,750	\$138,750	\$147,075	\$147,075	\$155,899	\$155,899	\$165,253	\$165,253	\$170,211
Revenues from Residential	\$12,545,053	\$11,124,051	\$11,272,537	\$13,076,518	\$14,802,701	\$17,467,187	\$17,467,187	\$20,087,265	\$20,087,265	\$22,497,737	\$22,497,737	\$23,847,601	\$23,847,601	\$25,278,457	\$25,278,457	\$26,795,164	\$26,795,164	\$27,599,019
Revenues from Multi-Family		\$4,728,127	\$4,699,698	\$5,424,084	\$6,140,098	\$7,245,316	\$7,245,316	\$8,332,113	\$8,332,113	\$9,331,967	\$9,331,967	\$9,891,885	\$9,891,885	\$10,485,398	\$10,485,398	\$11,114,521	\$11,114,521	\$11,447,957
Revenues from Commercial	\$9,342,942	\$4,228,870	\$4,190,427	\$4,775,616	\$5,406,028	\$6,379,114	\$6,379,114	\$7,335,981	\$7,335,981	\$8,216,298	\$8,216,298	\$8,709,276	\$8,709,276	\$9,231,833	\$9,231,833	\$9,785,743	\$9,785,743	\$10,079,315
Revenues from Industrial	\$1,136,010	\$1,153,442	\$1,078,225	\$1,238,064	\$1,401,498	\$1,653,767	\$1,653,767	\$1,901,832	\$1,901,832	\$2,130,052	\$2,130,052	\$2,257,855	\$2,257,855	\$2,393,327	\$2,393,327	\$2,536,926	\$2,536,926	\$2,613,034
Revenues from Public Authority	\$2,814,579	\$2,834,934	\$2,676,592	\$3,168,264	\$3,586,496	\$4,232,065	\$4,232,065	\$4,866,875	\$4,866,875	\$5,450,900	\$5,450,900	\$5,777,954	\$5,777,954	\$6,124,631	\$6,124,631	\$6,492,109	\$6,492,109	\$6,686,872
Revenues from Wholesale	\$330,242	\$344,064	\$340,848	\$385,910	\$436,853	\$515,487	\$515,487	\$592,810	\$592,810	\$663,947	\$663,947	\$703,784	\$703,784	\$746,011	\$746,011	\$790,772	\$790,772	\$814,495
Revenues from Public Fire	\$2,873,140	\$2,925,698	\$3,047,526	\$3,515,147	\$3,979,170	\$4,695,421	\$4,695,421	\$5,399,734	\$5,399,734	\$6,047,702	\$6,047,702	\$6,410,564	\$6,410,564	\$6,795,198	\$6,795,198	\$7,202,909	\$7,202,909	\$7,418,997
Revenues from Private Fire	\$367,791	\$377,184	\$377,180	\$434,542	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906
Other Operating Revenues	\$797,441	\$1,205,912	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000
Total Operating Revenues	\$30,318,143	\$28,994,779	\$28,963,033	\$33,308,792	\$37,546,042	\$43,997,987	\$43,997,987	\$50,342,399	\$50,342,399	\$56,179,258	\$56,179,258	\$59,447,899	\$59,447,899	\$62,912,659	\$62,912,659	\$66,585,304	\$66,585,304	\$68,531,806
Non-Operating Revenues	\$380,532	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196
O&M - Source of Supply	\$70,902	\$63,875	\$72,249	\$148,296	\$151,262	\$154,287	\$157,373	\$160,520	\$163,731	\$167,005	\$170,345	\$173,752	\$177,227	\$180,772	\$184,387	\$188,075	\$191,837	\$195,673
O&M - Pumping	\$3,594,642	\$3,604,286	\$3,665,404	\$4,008,722	\$4,088,896	\$4,170,674	\$4,254,088	\$4,339,170	\$4,425,953	\$4,514,472	\$4,604,762	\$4,696,857	\$4,790,794	\$4,886,610	\$4,984,342	\$5,084,029	\$5,185,709	\$5,289,424
O&M - Water Treatment	\$748,477	\$775,044	\$745,343	\$789,252	\$805,037	\$821,138	\$837,561	\$854,312	\$871,398	\$888,826	\$906,602	\$924,735	\$943,229	\$962,094	\$981,336	\$1,000,962	\$1,020,982	\$1,041,401
O&M - Transmission & Distribution	\$5,148,520	\$5,601,638	\$5,611,434	\$5,764,660	\$5,879,953	\$5,997,552	\$6,117,503	\$6,239,853	\$6,364,650	\$6,491,943	\$6,621,782	\$6,754,218	\$6,889,302	\$7,027,088	\$7,167,630	\$7,310,983	\$7,457,202	\$7,606,346
O&M - Customer Accounts	\$618,491	\$718,659	\$664,615	\$677,908	\$691,466	\$705,295	\$719,401	\$733,789	\$748,465	\$763,435	\$778,703	\$794,277	\$810,163	\$826,366	\$842,893	\$859,751	\$876,946	\$894,485
O&M - Admin. & General	\$3,354,667	\$3,469,956	\$3,496,688	\$3,718,785	\$3,793,161	\$3,869,024	\$3,946,404	\$4,025,332	\$4,105,839	\$4,187,956	\$4,271,715	\$4,357,149	\$4,444,292	\$4,533,178	\$4,623,842	\$4,716,319	\$4,810,645	\$4,906,858
Total O&M Expenses	\$13,535,699	\$14,233,458	\$14,255,733	\$15,107,623	\$15,409,775	\$15,717,971	\$16,032,330	\$16,352,977	\$16,680,037	\$17,013,637	\$17,353,910	\$17,700,988	\$18,055,008	\$18,416,108	\$18,784,430	\$19,160,119	\$19,543,321	\$19,934,188
211.07	44.004.455	45 200 047	45 305 000	45.054.500	45 505 005	47.400.544	47.04.540	40.444.60	40 704 224	40 202 242	40.007.500	440 505 305	*** ***	440 400 000	440.000.000	440.040.400	444 750 757	445 750 000
PILOT	\$4,931,166	\$5,390,047	\$5,736,002	\$6,251,690	\$6,685,396	\$7,138,544	\$7,621,549	\$8,144,492	\$8,701,231	\$9,293,818	\$9,927,509	\$10,605,706		\$12,102,230	\$12,928,056	\$13,810,406	\$14,752,757	\$15,759,388
Other Tax Expenses	\$386,507	\$231,875	\$117,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000
Debt																		
Revenue Bonds																		
Interest Expense	\$2,008,764	\$2,782,739	\$3,399,942	\$3,775,142	\$3,647,856	\$3,500,880	\$3,335,193	\$3,156,237	\$2,962,035	\$2,753,500	\$2,539,566	\$2,332,545	\$2,122,477	\$1,908,296	\$1,696,419	\$1,508,930	\$1,173,944	\$1,023,393
Principal Retirement	\$2,465,000	\$3,365,000	\$4,325,000	\$4,535,000	\$4,635,000	\$4,775,000	\$4,915,000	\$5,075,000	\$5,245,000	\$5,285,000	\$5,145,000	\$5,320,000	\$5,505,000	\$5,710,000	\$6,440,000	\$6,685,000	\$7,175,000	\$8,135,000
Refunding Bonds	\$2,403,000	\$3,303,000	Ş4,323,000	Ç4,555,000	34,033,000	54,775,000	54,515,000	\$3,073,000	\$3,£43,000	93,203,000	93,143,000	93,320,000	\$5,505,000	\$3,710,000	30,440,000	50,005,000	\$7,173,000	50,133,000
Interest Expense	\$1,632,944	\$1,584,456	\$1,540,131	\$1,470,306	\$1,412,806	\$1,348,806	\$1,251,406	\$1,174,238	\$1,079,569	\$975,819	\$860,319	\$723,694	\$577,319	\$446,819	\$329,419	\$228,319	\$190,209	\$0
Principal Retirement	\$1,510,000	\$1,570,000	\$1,610,000	\$1,585,000	\$2,010,000	\$2,070,000	\$2,055,000	\$2,040,000	\$2,110,000	\$2,510,000	\$2,955,000	\$2,900,000	\$2,900,000	\$2,970,000	\$2,085,000	\$2,175,000	\$2,280,000	\$0
Advance from Municipality	\$1,510,000	<i>\$1,570,000</i>	\$1,010,000	\$1,505,000	\$2,010,000	\$2,070,000	Q2,033,000	\$2,010,000	<i>\$2,110,000</i>	Ų2,310,000	42,333,000	\$2,500,000	\$2,500,000	ψ 2 ,370,000	\$2,003,000	Q2,175,000	Ų 2,2 00,000	Ç.
Interest Expense	\$92,181	\$85,746	\$77,763	\$71,169	\$64,162	\$56,620	\$48,687	\$40,056	\$30,871	\$26,790	\$22,110	\$16,763	\$10,611	\$3,891	\$3,923	\$3,955	\$3,988	\$4,021
Principal Retirement	\$822,717	\$827,357	\$833,158	\$839,249	\$846,499	\$854,040	\$862,451	\$872.022	\$117,464	\$129,065	\$141,536	\$154,588	\$168,799	\$0	\$0	\$0	\$0	\$0
New Debt Service	\$0	\$0	\$0	\$0	\$3,311,179	\$4,782,814	\$6,107,285	\$7,358,175	\$8,535,483	\$9,639,209	\$10,571,178	\$11,505,920	\$12,439,076	\$13,371,608	\$14,304,708	\$15,238,090	\$16,171,133	\$17,104,147
Total Debt Service	\$8,531,605	\$10,215,298	\$11,785,994	\$12,275,866	\$15,927,502	\$17,388,161	\$18,575,022	\$19,715,728	\$20,080,421	\$21,319,383	\$22,234,710	\$22,953,510	\$23,723,283	\$24,410,614	\$24,859,469	\$25,839,294	\$26,994,274	\$26,266,560
Cash Flow Before New Capital	\$3,313,698	(\$835,703)	(\$2,691,500)	(\$398,191)	(\$548,435)	\$3,681,507	\$1,697,281	\$6,057,398	\$4,808,906	\$8,480,616	\$6,591,325	\$8,115,892	\$6,268,364	\$7,911,903	\$6,268,900	\$7,703,680	\$5,223,148	\$6,499,866
Capital Projects		(,,,,,,,,,	(, , , , , , , , ,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,													
Capital Expenditures	\$19,688,300	\$18,416,469	\$20,084,920	\$20,009,000	\$19,549,672	\$19,515,015	\$19,789,652	\$19,715,835	\$19,642,544	\$19,665,761	\$19,703,448	\$19,681,897	\$19,673,412	\$19,681,130	\$19,684,972	\$19,680,353	\$19,679,967	\$19,681,605
New Borrowing	\$21,095,000	\$24,335,000		\$45,000,000	\$20,000,000	\$18,000,000	\$17,000,000	\$16,000,000	\$15,000,000	\$12,665,761	\$12,703,448	\$12,681,897	\$12,673,412	\$12,681,130	\$12,684,972	\$12,680,353	\$12,679,967	\$12,681,605
Net Cash Flow from Capital Financing	\$1,406,700	\$5,918,531	(\$20,084,920)	\$24,991,000	\$450,328	(\$1,515,015)	(\$2,789,652)	(\$3,715,835)	(\$4,642,544)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)
Total Cash In	\$51,793,675	\$53,569,975	\$29,203,229	\$78,548,988	\$57,786,238	\$62,238,183	\$61,238,183	\$66,582,595	\$65,582,595	\$69,085,215	\$69,122,902	\$72,369,992		\$75,833,984	\$75,837,826	\$79,505,852	\$79,505,466	\$81,453,607
Total Cash Out Net Cash Flow	\$47,073,277 \$4,720,398	\$48,487,147 \$5,082,828	\$51,979,649 (\$22,776,420)	\$53,956,179 \$24,592,809	\$57,884,346 (\$98.108)	\$60,071,691 \$2,166,492	\$62,330,553 (\$1.092,370)	\$64,241,032 \$2,341,563	\$65,416,233 \$166,362	\$67,604,599 \$1,480,616	\$69,531,577 (\$408,675)	\$71,254,100 \$1,115,892	\$73,093,144 (\$731.636)	\$74,922,082 \$911,903	\$76,568,927 (\$731.100)	\$78,802,172 \$703,680	\$81,282,319 (\$1,776,852)	\$81,953,741 (\$500,134)
Net Casii Flow	34,720,336	33,082,828	(322,770,420)	324,332,803	(338,108)	32,100,432	(\$1,032,370)	32,341,303	\$100,302	31,480,010	(3408,073)	\$1,113,032	(3731,030)	3311,303	(\$731,100)	\$703,080	(31,770,832)	(\$300,134)
Reserves																		
Restricted Reserves																		
Operating Reserve	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Debt Service Fund	\$5,925,680	\$7,243,803	\$9,302,195	\$10,875,073	\$11,365,449	\$15,016,841	\$16,477,500	\$17,663,884	\$18,803,650	\$19,932,087	\$21,163,528	\$22,071,063	\$22,782,159	\$23,543,872	\$24,406,723	\$24,855,546	\$25,835,339	\$26,990,286
Special Redemption Reserve	\$9,853,127	\$11,703,873	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538		\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538	\$11,767,538
Depreciation Fund	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
Subtotal Restricted Reserves	\$16,678,807	\$19,847,676	\$21,969,733	\$23,542,611	\$24,032,987	\$27,684,379	\$29,145,038	\$30,331,422	\$31,471,188	\$32,599,625	\$33,831,066		\$35,449,697	\$36,211,410		\$37,523,084	\$38,502,877	\$39,657,824
Construction Fund	\$14,011,600	\$19,606,390																
Unrestricted Reserves	\$2,669,923	\$2,875,130																
Subtotal Available Reserves	\$16,681,523	\$22,481,520	(\$294,900)	\$24,297,908	\$24,199,801	\$26,366,293	\$25,273,922	\$27,615,485	\$27,781,848	\$29,262,464	\$28,853,789	\$29,969,680	\$29,238,044	\$30,149,946	\$29,418,846	\$30,122,526	\$28,345,674	\$27,845,540
Total Reserves - End of Year	\$33,360,330	\$42,329,196	\$21,674,833	\$47,840,519	\$48,232,787	\$54,050,671	\$54,418,961	\$57,946,908	\$59,253,035	\$61,862,089	\$62,684,854	\$64,708,281	\$64,687,740	\$66,361,357	\$66,493,107	\$67,645,610	\$66,848,551	\$67,503,364
Debt Coverage Calculation																		
Operating Revenues	\$30,318,143	\$28,994,779	\$28,963,033	\$33,308,792	\$37,546,042	\$43,997,987	\$43,997,987	\$50,342,399	\$50,342,399	\$56,179,258	\$56,179,258	\$59,447,899	\$59,447,899	\$62,912,659	\$62,912,659	\$66,585,304	\$66,585,304	\$68,531,806
less: O&M Expenses	\$13,535,699	\$14,233,458	\$14,255,733	\$15,107,623	\$15,409,775	\$15,717,971	\$16,032,330	\$16,352,977	\$16,680,037	\$17,013,637	\$17,353,910	\$17,700,988	\$18,055,008	\$18,416,108	\$18,784,430	\$19,160,119	\$19,543,321	\$19,934,188
less: Other Tax Expenses	\$386,507	\$231,875	\$117,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312.000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000
divided by: Total Bond Debt Service	\$7.616.708	\$9.302.195	\$10.875.073	\$11.365.449	\$15.016.841	\$16,477,500	\$17.663.884	\$18.803.650	\$19.932.087	\$21.163.528	\$22.071.063	\$22,782,159	\$23.543.872	\$24.406.723	\$24.855.546	\$25.835.339	\$26.990.286	\$26,262,540
Debt Coverage	215%	156%	134%	157%	145%	170%	157%	179%	167%	184%	174%	182%	174%	181%	176%	182%	173%	184%
Sest coverage	213/0	130/6	134/6	13776	143/6	1,0/6	13776	1,3/6	10776	104/0	1,4/0	102/0	1,4/0	101/6	1,0/6	102/6	1,3/0	104/0

2030	2031	2032	2033	2034	2035	2036	2037	2038
0.0%	3.0%	0.0%	3.0%	0.0%	3.0%	0.0%	3.0%	0.0%
\$170,211	\$175,317	\$175,317	\$180,577	\$180,577	\$185,994	\$185,994	\$191,574	\$191,574
\$27,599,019	\$28,426,990	\$28,426,990	\$29,279,800	\$29,279,800	\$30,158,194	\$30,158,194	\$31,062,939	\$31,062,939
\$11,447,957	\$11,791,396	\$11,791,396	\$12,145,138	\$12,145,138	\$12,509,492	\$12,509,492	\$12,884,777	\$12,884,777
\$10,079,315	\$10,381,694	\$10,381,694	\$10,693,145	\$10,693,145	\$11,013,940	\$11,013,940	\$11,344,358	\$11,344,358
\$2,613,034	\$2,691,425	\$2,691,425	\$2,772,168	\$2,772,168	\$2,855,333	\$2,855,333	\$2,940,993	\$2,940,993
\$6,686,872	\$6,887,478	\$6,887,478	\$7,094,102	\$7,094,102	\$7,306,926	\$7,306,926	\$7,526,133	\$7,526,133
\$814,495	\$838,930	\$838,930	\$864,098	\$864,098	\$890,021	\$890,021	\$916,721	\$916,721
\$7,418,997	\$7,641,567	\$7,641,567	\$7,870,814	\$7,870,814	\$8,106,938	\$8,106,938	\$8,350,146	\$8,350,146
\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906	\$491,906
\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000	\$1,210,000
\$68,531,806	\$70,536,703	\$70,536,703	\$72,601,747	\$72,601,747	\$74,728,742	\$74,728,742	\$76,919,547	\$76,919,547
\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196	\$240,196
\$199,587	\$203,579	\$207,650	\$211,803	\$216,039	\$220,360	\$224,767	\$229,263	\$233,848
\$5,395,212	\$5,503,116	\$5,613,179	\$5,725,442	\$5,839,951	\$5,956,750	\$6,075,885	\$6,197,403	\$6,321,351
\$1,062,229	\$1,083,474	\$1,105,143	\$1,127,246	\$1,149,791	\$1,172,787	\$1,196,243	\$1,220,168	\$1,244,571
\$7,758,473	\$7,913,643	\$8,071,916	\$8,233,354	\$8,398,021	\$8,565,982	\$8,737,301	\$8,912,047	\$9,090,288
\$912,375	\$930,622	\$949,235	\$968,220	\$987,584	\$1,007,336	\$1,027,482	\$1,048,032	\$1,068,993
\$5,004,995	\$5,105,095	\$5,207,197	\$5,311,341	\$5,417,568	\$5,525,919	\$5,636,437	\$5,749,166	\$5,864,149
\$20,332,871	\$20,739,529	\$21,154,319	\$21,577,406	\$22,008,954	\$22,449,133	\$22,898,116	\$23,356,078	\$23,823,200
\$16,834,795	\$17,983,594	\$19,210,736	\$20,521,624	\$21,921,981	\$23,417,892	\$25,015,871	\$26,722,896	\$28,546,409
\$312,000	\$312.000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000	\$312,000
\$601,483	\$427,581	\$244,525	\$133,800	\$0	\$0	\$0	\$0	\$0
\$4,905,000	\$4,200,000	\$2,980,000	\$1,690,000	\$0	\$0	\$0	\$0	\$0
40	40	40	40	40	40	40	40	40
\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	Ş0	\$0	\$0
\$4,054	\$4,087	\$4,121	\$4,155	\$4,189	\$4,223	\$4,258	\$4,293	\$4,328
\$4,034	\$4,087	\$4,121	\$4,133	\$4,189	\$4,223	\$4,238	\$4,293	\$4,328
\$18,037,282	\$18,970,425	\$19,903,509	\$20,836,603	\$21,769,717	\$22,702,826	\$20,324,747	\$19,786,216	\$19,394,851
\$23,547,818	\$23,602,093	\$23,132,155	\$22,664,557	\$21,773,906	\$22,707,049	\$20,329,005	\$19,790,509	\$19,399,180
\$7,744,517	\$8,139,682	\$6,967,689	\$7,766,356	\$6,825,102	\$6,082,864	\$6,413,947	\$6,978,260	\$5,078,955
\$19,681,724	\$19,680,912	\$19,681,052	\$19,681,323	\$19,681,253	\$19,681,135	\$19,681,191	\$19,681,226	\$19,681,201
\$12,681,724	\$12,680,912	\$12,681,052	\$12,681,323	\$12,681,253	\$12,681,135	\$12,681,191	\$12,681,226	\$12,681,201
(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000
\$81,453,726	\$83,457,811	\$83,457,951	\$85,523,266	\$85,523,196	\$87,650,073	\$87,650,129	\$89,840,969	\$89,840,944
\$80,709,209	\$82,318,129	\$83,490,262	\$84,756,910	\$85,698,094	\$88,567,209	\$88,236,182	\$89,862,709	\$91,761,989
\$744,517								
	\$1.139.682	(\$32.311)	\$766.356	(\$174.898)	(\$917.136)	(\$586.053)	(\$21.740)	(S1.921.045
	\$1,139,682	(\$32,311)	\$766,356	(\$174,898)	(\$917,136)	(\$586,053)	(\$21,740)	(\$1,921,045
\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
\$26,262,540	\$150,000 \$23,543,764	\$150,000 \$23,598,006	\$150,000 \$23,128,034	\$150,000 \$22,660,403	\$150,000 \$21,769,717	\$150,000 \$22,702,826	\$150,000 \$20,324,747	\$150,000 \$19,786,216
\$26,262,540 \$11,767,538	\$150,000 \$23,543,764 \$11,767,538	\$150,000 \$23,598,006 \$11,767,538	\$150,000 \$23,128,034 \$11,767,538	\$150,000 \$22,660,403 \$11,767,538	\$150,000 \$21,769,717 \$11,767,538	\$150,000 \$22,702,826 \$11,767,538	\$150,000 \$20,324,747 \$11,767,538	\$150,000 \$19,786,216 \$11,767,538
\$26,262,540 \$11,767,538 \$750,000	\$150,000 \$23,543,764 \$11,767,538 \$750,000	\$150,000 \$23,598,006 \$11,767,538 \$750,000	\$150,000 \$23,128,034 \$11,767,538 \$750,000	\$150,000 \$22,660,403 \$11,767,538 \$750,000	\$150,000 \$21,769,717 \$11,767,538 \$750,000	\$150,000 \$22,702,826 \$11,767,538 \$750,000	\$150,000 \$20,324,747 \$11,767,538 \$750,000	\$150,000 \$19,786,216 \$11,767,538 \$750,000
\$26,262,540 \$11,767,538	\$150,000 \$23,543,764 \$11,767,538	\$150,000 \$23,598,006 \$11,767,538	\$150,000 \$23,128,034 \$11,767,538	\$150,000 \$22,660,403 \$11,767,538	\$150,000 \$21,769,717 \$11,767,538	\$150,000 \$22,702,826 \$11,767,538	\$150,000 \$20,324,747 \$11,767,538	\$150,000 \$19,786,216 \$11,767,538 \$750,000
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078 \$28,590,057	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302 \$29,729,739	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544 \$29,697,427	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941 \$30,288,884	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255 \$29,371,749	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364 \$28,785,695	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078 \$28,590,057	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302 \$29,729,739	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544 \$29,697,427	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941 \$30,288,884	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255 \$29,371,749	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364 \$28,785,695	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754 \$26,842,910 \$59,296,664
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078 \$28,590,057 \$67,520,134	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302 \$29,729,739 \$65,941,041	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544 \$29,697,427 \$65,962,971	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572 \$30,463,783 \$66,259,355	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941 \$30,288,884 \$65,616,825	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255 \$29,371,749 \$63,809,003	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364 \$28,785,695 \$64,156,059	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285 \$28,763,955 \$61,756,240	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754 \$26,842,910 \$59,296,664 \$76,919,547
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078 \$28,590,057 \$67,520,134 \$68,531,806 \$20,332,871 \$312,000	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302 \$29,729,739 \$65,941,041 \$70,536,703 \$20,739,529 \$312,000	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544 \$29,697,427 \$65,962,971 \$70,536,703 \$21,154,319 \$312,000	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572 \$30,463,783 \$66,259,355 \$72,601,747 \$21,577,406 \$312,000	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941 \$30,288,884 \$65,616,825 \$72,601,747 \$22,008,954 \$312,000	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255 \$29,371,749 \$63,809,003 \$74,728,742 \$22,449,133 \$312,000	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364 \$28,785,695 \$64,156,059 \$74,728,742 \$22,898,116 \$312,000	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285 \$28,763,955 \$61,756,240 \$76,919,547 \$23,356,078 \$312,000	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754 \$26,842,910 \$59,296,664 \$76,919,547 \$23,823,200 \$312,000
\$26,262,540 \$11,767,538 \$750,000 \$38,930,078 \$28,590,057 \$67,520,134 \$68,531,806 \$20,332,871	\$150,000 \$23,543,764 \$11,767,538 \$750,000 \$36,211,302 \$29,729,739 \$65,941,041 \$70,536,703 \$20,739,529	\$150,000 \$23,598,006 \$11,767,538 \$750,000 \$36,265,544 \$29,697,427 \$65,962,971 \$70,536,703 \$21,154,319	\$150,000 \$23,128,034 \$11,767,538 \$750,000 \$35,795,572 \$30,463,783 \$66,259,355 \$72,601,747 \$21,577,406	\$150,000 \$22,660,403 \$11,767,538 \$750,000 \$35,327,941 \$30,288,884 \$65,616,825 \$72,601,747 \$22,008,954	\$150,000 \$21,769,717 \$11,767,538 \$750,000 \$34,437,255 \$29,371,749 \$63,809,003 \$74,728,742 \$22,449,133	\$150,000 \$22,702,826 \$11,767,538 \$750,000 \$35,370,364 \$28,785,695 \$64,156,059 \$74,728,742 \$22,898,116	\$150,000 \$20,324,747 \$11,767,538 \$750,000 \$32,992,285 \$28,763,955 \$61,756,240 \$76,919,547 \$23,356,078	\$150,000 \$19,786,216 \$11,767,538 \$750,000 \$32,453,754 \$26,842,910 \$59,296,664 \$76,919,547 \$23,823,200 \$312,000 \$19,394,851