



Madison Water Utility
2011-2030 Capital Improvement Budget

Updated: June 18, 2011

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Annual Totals \$ 18,118,300 \$ 1,860,000 \$ 21,263,300 \$ 28,648,200 \$ 26,097,460 \$ 28,786,920 \$ 30,438,980 \$ 28,969,760 \$ 26,974,400

Line	Project	Date/Description/Purpose	Primary Year	Tasks	2011	2011 Carryover to 2012	2012	2013	2014	2015	2016	2017	2018
1	Arbor Hills Supplemental Fire Flow Supply - BPS 118		2011										
2	A site for booster pump station 118 was selected and procured in 2010. The design was completed and the pump station will be under construction in the fall of 2011 and be finished and in service by 2012. The Arbor Hills Supplemental Fire Flow Supply project will correct a significant system deficiency identified by the Water Master Plan. Due to the fact that the area was previously fed by a single 8-inch main on the Bellline Highway frontage road, the area was vulnerable to water outages and there was a significant restriction in fire flow capacity. When fully completed, this project will provide the ability to transfer water from Well 18 in Zone 6. The Project includes a pipeline on the Cannonball Bike Trail that will link the area to the Verona Road Area. The pipeline is being constructed in 4 phases. Phase 1 & 2 are complete. Phase 3 will be constructed in 2012 and Phase 4 in 2013.			Public Participation Plan									
3				Property Purchase									
4					Consultant Design contract for Pump Station								
5					Construction Administration Services	66,500							
6					Pipeline Construction			1,000,000	750,000				
7					Pump Station Construction	950,000							
8					Project Total	1,016,500	-	1,000,000	750,000	-	-	-	-
9													
10	Zone 4 Fire Flow Supply Augmentation		2013										
11	Two areas within pressure zone 4 have been identified as potential well sites and will be investigated during 2011. A test well will be constructed in 2011 with the production well is scheduled to be drilled in 2012. Once adequate well capacity and water quality is verified via the test well, construction of Unit Well 31 is scheduled to start in 2013 and be finished and in service in 2014. The Zone 4 Fire Flow Supply Augmentation project will correct a significant system deficiency identified by the Water Master Plan in the southeast corner of the system within Pressure Zone 4. Due to significant expansion over the years to the south and east, the hydraulics of the system will not adequately serve this area for fire flow supply or system reliability and redundancy. There is also significant development pressure in the southeast and the proposed new well will support further development of the area. Adding a second source of supply to the area will improve fire flow capacity and bring the water system level of service for the area up to Utility standards. In the future, a pump station may be considered to allow water to be pumped from Zone 4 to Zone 6 and provide additional redundancy to Zone 6.			Public Participation Plan									
12				Additional Water Quality Analysis									
13					Property Purchase								
14					Drill Test Well & Analysis	130,000							
15					Production Well and Development		620,000						
16					Consultant Design contract for design of Unit Well, Reservoir, Pump Station, and Pipelines		416,000						
17					Construct Unit Well & Fe and Mn Filter				5,201,000				
18					Consultant Construction Administration Pipelines				312,000				
19											1,217,000		
20					Project Total	130,000	1,036,000	-	5,513,000	-	1,217,000	-	-
21													
22	E. Side Phase 1 - Unit Well No. 15 - VOC Mitigation		2012										
23	East Side Phase 1 - Unit Well No. 15 - VOC Mitigation will address the water quality issues that exist at Well 15 due to rising levels of VOC. There is a concern that the VOC levels could exceed current regulatory standards. Unit Well 15 is a critical supply component for the NE corner of the City. The project will benefit the Well 15 service area and improve the quality of the water bringing it up to minimum Utility water quality standards.			UW 15 - VOC Stripper Design	219,000								
24				Construction Admin Services			146,000						
25				Construction of Unit Well No. 15 VOC Stripper			2,430,000						
26				Project Total	219,000	-	2,576,000	-	-	-	-	-	-
27													
28	E. Side Phase 2 - Unit Well No. 8 - Fe and Mn Mitigation		2013										
29	East Side Phase 2 - Unit Well No. 8 - Fe and Mn Mitigation will address current water quality issues at Well 8 resulting from iron and manganese levels that exceed the EPA secondary standard's. Due to the colored water as a result of the iron and manganese, well operation is currently limited to summer only and a total of approximately 100 million gallons per year. A filter would allow the well to be operational all year long and produce significantly greater quantities of water. The project will benefit existing customers in the east Isthmus area and improve the quality of the water pumped from Well 8.			Public Participation			40,000						
30				UW 8 - Filter Design Documents			421,000						
31				Property Acquisition				450,000					
32				Construction Admin Services				281,000					
33				Well 8 Fe and Mn Filter Construction				4,680,000					
34				Pipelines						750,000	750,000		
35				Project Total	-	-	461,000	5,411,000	-	750,000	750,000	-	-
36													
37	E. Side Phase 3 - Unit Well No. 7 - Fe and Mn Mitigation		2014										
38	East Side Phase 3 - Unit Well No. 7 - Fe and Mn Mitigation will address the water quality issues that exist at Well 7 due to iron and manganese levels that exceed or approach the EPA secondary standard. Due to the colored water that occurs as a result of iron and manganese, customer complaints are common in the Well 7 service area. This condition limits the quantity of water that can be pumped annually from the well. A filter would significantly reduce the iron and manganese levels in the water			Public Participation			30,000		20,000				
39				UW 7 - Filter Design				438,000					
40				Property Purchase			400,000						
41				Construction Admin Services						292,000			



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42	produced by the well. Filtering the water and removing the iron and manganese will reduce the likelihood of customers experiencing colored water due to water pumped from Well 7 and will allow the Utility to increase the use of the well.	Construction of Unit Well No. 7 Fe and Mn Filter Pipelines							4,867,000				
44				Project Total	-	-	430,000	438,000	5,179,000	-	500,000	500,000	-
46	E. Side Phase 4 - East Isthmus Unit Well		2017										
47	Utility Well #3 was abandoned in early 2008 due to elevated levels of Carbon Tetrachloride. This project is intended to replace that lost supply capacity in Pressure Zone 6E. The <u>East Isthmus Unit Well</u> will restore lost supply redundancy and reliability to the east Isthmus area. It is expected that the well will need a filter for iron and manganese removal. There is also a possibility that VOC contamination will be present due to long term industrial land use on the Isthmus. The treatment plant will be designed with the intention of adding treatment if necessary. If the test well indicates that iron and manganese filtration is not needed, the capital cost will be significantly reduced.	Public Participation					30,000	15,000			20,000		
48		Drill test well and analysis			150,000				150,000				
49		Property Purchase					250,000						
50		Drill new E. Isthmus Well								677,000			
51		Consultant Design contract						75,000			540,000		
52		Construction of Filter, Res & Pump Station										6,004,000	
53		Pipeline Improvements											1,000,000
54		Construction Administration										360,000	
55				Project Total	150,000	-	280,000	90,000	150,000	677,000	560,000	6,364,000	1,000,000
57	Advanced Meter Infrastructure System		2012										
58	<u>Advanced Meter Infrastructure System</u> will install an automated meter reading system to the Utility's 65,000 accounts. This will allow customers to closely monitor and control water use and thereby conserve water reduce system demands. The Utility will be able to implement conservation water rates, monitor the system for leaks, evaluate and optimize system operation and improve customer service as a result of the AMI system.	Consultant Contract											
59		Other Misc Direct Expenses			35,000		40,000						
60		Procurement and Installation			5,600,000		6,400,000						
61				Project Total	5,635,000	-	6,440,000	-	-	-	-	-	-
64	Lakeview Reservoir Reconstruction		2013										
65	This project is scheduled to start construction in 2013 and be finished and in service in early summer 2014. <u>Reconstructing the Lakeview Reservoir</u> will replace an aging storage tank and provide needed additional gravity fed water storage in Zone 6E on the north side of the City. Improvements to the existing pump station feeding Pressure Zone 5 is also included in this project. This project is justified in the Water Master Plan and would improve fire fighting capacity and reliability within the system.	Public Participation Plan			50,000	50,000	213,000						
66		Consultant Design contract											
67		Construction Services						142,000					
68		Construct Two Zone Lakeview Reservoir						2,372,000					
69		Water Main Improvements							1,000,000				
70		Upgrade Booster Pumps @ Res. 113						250,000					
71		Water Main Improvements @ Res 113						400,000					
72				Project Total	50,000	50,000	213,000	3,164,000	1,000,000	-	-	-	-
74	Booster Pump Station #106 Reconstruction		2013										
75	Rebuilding the outdated Booster Pump Station 106 is scheduled to start construction in 2013 and be finished and in service in early 2014. Booster Pump Station 106 is a critical link between Pressure Zones 6 and 7 and allows water to be moved between zones. The facility is the oldest pump station in the system and has deteriorated to the point that it is difficult to maintain. It is also necessary to bring the pump station up to current safety standards and codes, to improve reliability of operation to the station, and to improve access and employee safety. With the pump station upgrade some pipeline replacement will be necessary to increase hydraulic capacity. Improvement to this facility provides significant operational flexibility to the Utility.	Public Participation Plan			50,000	50,000	150,000						
76		Consultant Design contract											
77		Construction of Pump Station						1,500,000					
78		Construction Contract Administration						90,000					
79		Pipeline Improvements							750,000	1,000,000			
80				Project Total	50,000	50,000	150,000	1,590,000	750,000	1,000,000	-	-	-
82	Paterson Street Building Remodel and Upgrade		2014										
83	Rebuilding the Utility's Operations Center at Paterson Street is scheduled to start construction in 2014 and be finished and in 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 standards. The office space, locker rooms and other functional storage spaces do not meet current needs. The project also includes the construction of a materials handling building that will free up space in the vehicle storage building and	Public Participation Plan						40,000					
84		Architectural Services/Review						403,000					
85		Materials Storage Building							1,184,000				
86		Furnishings and Equipment								350,000			
87		Construction Admin							252,000				



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	improve efficiency during winter operations.			Vehicle Maintenance Building Construction					3,849,000				
88													
89				Project Total	-	-	-	443,000	5,285,000	350,000	-	-	-
90													
91	Zone 7 & 8 Supplemental Supply - Whitney Way		2015										
92	The Water Master Plan recommends an additional well to serve Pressure Zones 7 and 8. The well project is scheduled to start construction in 2015 and be finished and in service in 2016. Adding a well to the area with the ability to pump water to either Zones 7 or 8 will provide additional water supply capacity the area and significant operational flexibility to the Utility. It is expected that a significant public participation process will be used to site a well and identify water quality issues and system operational needs. This well was identified in the Water Master Plan to address projected system demands and provided needed system redundancy to the area.			Public Participation Plan			50,000		25,000				
93				Property Purchase	250,000			250,000					
94				Drill test well	130,000			130,000					
95				Drill production Well					658,000				
96				Consultant Design contract for Unit Well			80,000		419,000				
97				Construction of Filter, Reservoir and Pump Station						5,240,000			
98				Consultant Contract Administration						314,000			
99				Pipeline Improvements								600,000	1,000,000
100				Project Total	380,000	-	130,000	380,000	1,102,000	5,554,000	-	600,000	1,000,000
101													
102	East Side Supplemental Water Supply		2016										
103	The Water Master Plan recommended an additional well on the east side that could provide water to Zones 6E and 3. No site has been identified at this point. The Utility has property for this purpose on Hoepker Road and could also construct a well in the Folland Road area. A public participation process is expected to developed the details of this project. This project is scheduled to start construction in 2016 and be finished and in service by 2017. Development pressure on the east side and the need for reliability and redundancy in the water system is the focus of this project.			Public Participation Plan				53,000					
104				Drill test well					134,000				
105				Drill Production Well						677,000			
106				Consultant Design contract						500,000			
107				Construction of Unit Well, Filter, Reservoir and Pump Station								6,244,000	
108				Consultant Contract Administration								375,000	
109			Pipelines									750,000	
110				Project Total	-	-	-	53,000	134,000	1,177,000	6,619,000	-	750,000
111													
112	Zone 11 - Blackhawk Elevated Reservoir		2017										
113	Pressure Zone 11 serves the far west side of the distribution system and currently does not have storage capacity. As the area develops and fills in construction of the Blackhawk Elevated Reservoir will provide the needed emergency supply storage and fire fighting capacity recommended for the area. The reservoir is scheduled for construction in 2017 and will be in operation in 2018. The <u>Blackhawk Elevated Reservoir</u> project will upgrade the service from pumped to gravity. This project is identified in the Master Plan as part of the long term needs in Pressure Zone 11.			Public Participation Plan					56,000				
114				Consultant Design contract							199,280		
115				Construction Services								149,460	
116				Construct 750,000 gallon reservoir									2,491,000
117				Reservoir piping improvements									250,000
118			Water Main Improvements										500,000
119				Project Total	-	-	-	-	-	56,000	199,280	2,890,460	500,000
120													
121	Booster Pump Station 114		2018										
122	Booster Pump Station 114 will provide the ability to move water from Pressure Zone 6W to Zone 8. This improves the operational flexibility of the system and provides the means of spreading out the capacity within the system. Construction is scheduled to start in 2018 and be finished and in service by 2019. Construction of BPS 114 will benefit customers through gained system reliability and redundancy.			Public Participation Plan						58,000			
123				Consultant Design contract								124,000	
124				Construction Services									83,000
125				Construct BPS 114									
126			Water Main Improvements									900,000	
127				Project Total	-	-	-	-	-	-	58,000	1,024,000	1,465,000
128													
129	Pressure Zone 9 Storage		2015										
130	Storage capacity within Pressure Zone 9 was identified in the Water Master Plan as being deficient. With the replacement of the elevated reservoir on Prairie Road in 2011 and 2012, this situation was partially mitigated. A second reservoir will resolve			Public Participation Plan				53,000					
131				Reservoir Property Purchase					300,000				



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132	the remainder of the deficiency. Construction of the proposed reservoir is scheduled to start in 2015 and be complete and in operation by 2016. Pressure Zone 9 has developed significantly with not only residential but commercial and institutional facilities. The fire flow requirements have increased due to this development to the point that current facilities do not meet minimum standards. The Master Plan proposes to construct storage on the west side of the zone to hydraulically balance the system.			Consultant Design Services					168,000						
133				Construct 750,000 gallon elevated reservoir						2,105,000					
134				Construction Contract Administration							126,000				
135				Reservoir Pipeline Construction							400,000				
136				Project Total	-	-	-	53,000	468,000	2,631,000	-	-	-		
137															
138	Pump Station 220 - Raymond Road PS		2019												
139	Construction of a booster pump station on the west side to move water between Zones 9 and 10 is scheduled to start in 2019 and be finished and in service by the end of the year. The <u>Pump Station 220 - Raymond Road Pump Station</u> project will setup operational flexibility within Pressure Zones 9 and 10. The station will transfer water from Zone 7 to Zones 9 and 10 and back again through a PRV. This operation will provide the ability to share water supply resources between zones and fully use existing facilities in providing operational flexibility. The project will also provide supply redundancy to the far west side.			Public Participation Plan								60,000			
140				Dual Zone Pump Station Design											115,000
141				Dual Zone Pump Station Construction											
142				PRV station											
143				Booster Station Piping Upgrade											
144				Project Total	-	-	-	-	-	-	-	60,000	115,000		
145															
146	Iron and Manganese Filter at Well 19		2016												
147	Construction of an <u>Iron and Manganese Filter at Well 19</u> will address the water quality issues and resulting colored water customer complaints that exist at Well 19. The accumulation of iron and manganese solids in the system results in additional flushing being required to minimize the risk of colored water reaching customers. A filter would improve finished water quality and reduce the need for flushing in the Well 19 service area. The project will benefit existing customers in the west campus area. The budget anticipates construction of a filter in 2016 following a significant public participation process and evaluation.			Public Participation					60,000						
148				UW 19 - Filter Design Documents						296,000					
149				Property Purchase											
150				Construction Admin Services								197,000			
151				Well 19 Fe and Mn Filter Construction							3,290,000				
152				Project Total	-	-	-	-	-	356,000	3,487,000	-	-		
153															
154	Iron and Manganese Filter at Well 30		2018												
155	Construction of an Iron and Manganese Filter at Well 30 will address the water quality issues and resulting colored water customer complaints that exist at Well 30. The accumulation of iron and manganese solids in the system results in annual flushing being required to minimize the risk of colored water reaching customers. A filter would improve finished water quality and reduce the need for annual flushing in the Well 30 service area. The budget anticipates construction of a filter in 2019 following a significant public participation process and evaluation.			Public Participation								60,000			
156				UW 30 - Filter Design Documents										320,000	
157				Property Purchase											-
158				Construction Admin Services											214,000
159				Well 30 Fe and Mn Filter Construction									3,560,000		
160				Project Total	-	-	-	-	-	-	-	380,000	3,774,000		
161															
162	Booster Pump Station 129 Reconstruction		2016												
163	Construction of a new and upgraded booster pump station 129 is scheduled for 2016. This project will replace the temporary pump station constructed on the Well 29 site in 1990. Pump Station 129 will continue to transfer water from Zone 6 to Zone 3 and back again through a PRV. This operation will provide supply and fire flow capability to the far east side of the system. It will benefit customers through gained reliability and flexibility of operations.			Public Participation Plan					55,000						
164				Design							102,000				
165				Construction Services									77,000		
166				Water Main Improvements										900,000	
167				Construct BPS 129								1,277,000			
168				Project Total	-	-	-	-	55,000	102,000	2,254,000	-	-		
169															
170	Zone 10 Far West Elevated Reservoir		2020												
171	Construction of the Zone 10 Far West Side Elevated Reservoir is scheduled for 2020 and will follow a significant public participation process and evaluation. The <u>Zone 10 Far West Elevated Reservoir</u> project will provide additional water storage capacity within Pressure Zone 10. As Pressure Zone 10 has developed with not only residential but commercial and			Public Participation Plan									61,000		
172				Consultant Design contract											-
173				Construction Services											



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		institutional facilities, the existing elevated tank on High Point Road no longer provides sufficient emergency reserve capacity. Providing minimum fire flow requirements to this area of the distribution system is necessary to meet minimum standards. This project is identified in the Master Plan.		Construct 750,000 gallon reservoir									
174				Reservoir piping improvements									
175				Water Main Improvements									
176				Project Total	-	-	-	-	-	-	-	-	61,000
177													
178													
179	Near West Side Water Supply Project		2021										
180		Construction of an additional well is scheduled for 2021. The Water Master Plan has identified this well project to mitigate a supply deficiency in Pressure Zones 6 and 7. The <u>Near West Side Water Supply Project</u> project will provide additional water supply capacity to both Zones 6 & 7. The final location of the proposed well will be determined following a significant public participation process and evaluation period.		Public Participation Plan								60,000	
181				Drill Test Well									151,000
182				Drill production Well									
183				Consultant Design contract for Unit Well, Reservoir and Pump Station									
184				Construction of Unit Well, Filter, Reservoir and Pump Station									
185				Construction Contract Administration									
186				Water Main Hydraulic Improvements									
187				Project Total	-	-	-	-	-	-	-	60,000	151,000
188													
189	Booster Pump Station 320		2024										
190		This project is scheduled to be constructed in 2024. <u>Booster Pump Station 320</u> project will provide the Utility with operational flexibility on the west side. The station will transfer water from Zone 6 to Zones 7 and 8 and back again through a PRV. This operation will provide flexibility in source of supply to the west side of the system. It will benefit customers through gained system reliability.		Public Participation Plan									
191				Consultant Design contract									
192				Construction Services									
193				Construct BPS 320									
194				Water Main Improvements									
195				Project Total	-	-	-	-	-	-	-	-	-
196													
197	Unit Well No. 10 - Fe and Mn Mitigation		2025										
198		Construction of a filter on Well 10 is scheduled for 2025. <u>Unit Well No. 10 - Fe and Mn Mitigation</u> will address the water quality issues that exist at Well 10 due to iron and manganese levels that exceed the EPA secondary standard. Due to the elevated iron and manganese concentrations, the well has been placed on supply reserve status. Removing the iron and manganese using a filter would allow the well to be returned to year around service. The project will benefit existing customers in the Zone 7 service area by providing additional supply redundancy and reliability and it would bring the water quality at Well 10 up to minimum Utility water quality standards.		Public Participation									
199				Pilot Study									
200				Deep Well reconstruction									
201				UW 10 - Filter Design									
202				Construction Administration Services									
203				Construction of Unit Well No. 10 Fe and Mn Filter									
204				Project Total	-	-	-	-	-	-	-	-	-
205													
206	SCADA System Upgrade		Ongoing										
207		The supervisory control and data acquisition (SCADA) system is a key component to system operation. The computer system requires regular and routine upgrades to maintain effectiveness.		System Wide SCADA Upgrade to PLC (2007 - 2010)	30,000		32,000	34,000	36,000	38,000	250,000	263,000	276,000
208				Project Total	30,000	-	32,000	34,000	36,000	38,000	250,000	263,000	276,000
209													
210	Infrastructure System Plan Improvements		Ongoing	Total Replacement Budget	7,310,000		7,816,000						
211		Madison Water Utility has a planned system replacement and upgrade program that provides for annual main replacements. The Utility needs to replace over 400 miles of pipe in the next 40 years to renew the system. A planned annual increase in spending to accomplish this goal by 2050 will be continued. The Utility's Water Master Plan also recommends hydraulic improvements to the system. It is proposed to significantly increase pipeline investment for hydraulic needs in 2015 and then increase this budget over the next 15 years to meet Master Plan recommendations.		Reconstruction Projects	3,564,000		3,689,000	3,837,000	4,413,000	4,678,000	4,959,000	5,257,000	5,572,000
212				Resurfacing Projects	3,746,000		3,877,000	4,032,000	4,637,000	4,915,000	5,210,000	5,523,000	5,854,000
213				East Washington Improvements									
214				New Pipeline Construction	788,000		835,000	893,000	1,027,000	1,150,000	1,236,000	1,329,000	1,429,000



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215				Long Range Master Plan Pipelines Upgrade						2,139,000	2,246,000	2,358,000	2,476,000	
216				Security Upgrades	191,000		199,000	207,000	215,000	224,000	233,000	242,000	252,000	
217				Project Total	8,289,000	-	8,850,000	8,969,000	10,292,000	13,106,000	13,884,000	14,709,000	15,583,000	
218										3.70				
219	Misc. Pump Station/PRV/Facility Projects		Ongoing							3.29				
220	The Water Master Plan identified various minor improvement projects that are necessary to sustain the established level of service. For budgeting purposes, these projects are itemized under a single heading.			PRV Station Vondron Rd	50,000	50,000								
221				PRV Station Gammon Rd					50,000					
222				Upgrade Booster Pumps @ UW 20	350,000	350,000								
223				Upgrade Booster Pumps @ Res. 115				175,000						
224				Water Main Improvements @ BPS 115				750,000						
225				PRV @ 126						50,000				
226				Generator @ UW 26	235,000	235,000								
227				Misc. Projects	1,000,000		350,000	350,000	368,000	386,000	405,000	500,000	525,000	
228				Consultant Services	196,200	89,000	42,000	153,000	50,160	52,320	48,600	60,000	63,000	
229					Project Total	1,831,200	724,000	392,000	1,428,000	468,160	488,320	453,600	560,000	588,000
230														
231	System Wide		Ongoing											
232	Several system wide tasks are included in the Capital Budget that cover a variety of repair, rehabilitation, and upgrade projects. The Utility's Infrastructure Management Plan recommends a reinvestment of \$2.5 (2005 dollars) in system facilities to sustain their viability for the long term. This would include Unit Well, pump station, and reservoir improvements and renewal. This budget proposes that an allotment for this purpose be started in 2014 and then increased annually to raise it to the recommended level. For budgeting purposes, these projects are itemized under a single heading.			Meter Program	50,000			-	383,000	391,000	399,000	407,000	415,000	
233				Safety Additions to the Plant	25,000		26,900	28,900	31,100	33,400	35,900	38,000	40,000	
234				Olin Admin Office Maintenance	16,600		17,400	18,300	19,200	20,200	21,200	22,300	23,400	
235				Unit Well Rehab	108,000		116,000	125,000	134,000	144,000	155,000	167,000	180,000	
236				Long Range Pumping and Storage Facility Renewal Projects						500,000	575,000	661,000	760,000	874,000
237				General Consultant Services	55,000		61,000	67,000	74,000	81,000	89,000	98,000	108,000	
238				Paterson Vehicle Storage Bldg Maintenance	30,000		32,000	34,000	37,000	40,000	43,000	46,000	49,000	
239				Paterson Office and Shop Maintenance	53,000		56,000	59,000			20,000	21,000	22,000	
240					Project Total	337,600	-	309,300	332,200	1,178,300	1,284,600	1,424,100	1,559,300	1,711,400
241														
242				Total Estimated Annual Costs	18,118,300	1,860,000	21,263,300	28,648,200	26,097,460	28,786,920	30,438,980	28,969,760	26,974,400	