

KETCHIKAN PUBLIC UTILITIES

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Your Community, Your Utility

2011-2015 CAPITAL
IMPROVEMENT PROGRAM

CITY OF KETCHIKAN, ALASKA

2011 - 2015 KETCHIKAN PUBLIC UTILITIES
CAPITAL IMPROVEMENT PROGRAM

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**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
2011 Capital Budget**

Department/Division/Project	Revenues/ Reserves	Federal/State Grants	Loans/ Other	Revenue Bonds	2011 Total
Administration					
Financial & Accounting Information System	401,000				401,000
Administration Division Total	401,000				401,000
Engineering					
None					
Engineering Division Total					
Sales, Marketing & Customer Service					
None					
Sales, Marketing & Customer Service Division Total					
Electric Division					
Whitman Lake Hydroelectric Plant		10,656,060			10,656,060
Bethe Substation		4,709,020			4,709,020
SCADA Upgrade	160,000				160,000
Ketchikan Tunnel Penstock Valves Replacement	50,000				50,000
Bailey Tank Farm Security Fence	25,000				25,000
Downtown Underground	100,000				100,000
Vehicles & Moving Equipment	275,000				275,000
34.5 kV Sectionalizing Breaker/Ward Cove	30,000				30,000
Transmission & Distribution Switches	25,000				25,000
Bailey Bi-directional Metering	35,000				35,000
Regulator Controllers	30,000				30,000
ASD Metering and Load Management	35,000				35,000
Electric Division Warehouse Roof and Siding	250,000				250,000
Additional Projects	150,000				150,000
Operating Equipment	174,100				174,100
Transformer Purchase	100,000				100,000
Reimbursables	158,000				158,000
Pennock-KIA Upgrades	150,000				150,000
Raptor Protection Program	5,000				5,000
Breaker Changes driven by SC Study	22,923				22,923
Ketchikan Generator Step-up Transformer	10,240				10,240
Beaver Falls Unit Exciter	12,190				12,190
Electric Division Total	1,797,453	15,365,080			17,162,533

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
2011 Capital Budget**

Department/Division/Project	Revenues/ Reserves	Federal/State Grants	Loans/ Other	Revenue Bonds	2011 Total
Telecommunications Division					
Normal Growth and Repair - Buildings	45,000				45,000
Normal Growth and Repair - Central Office Switching	125,000				125,000
Normal Growth and Repair - Copper Cable	25,000				25,000
Normal Growth and Repair - Fiber Cable	250,000				250,000
Normal Growth and Repair - CO Transmission	371,500				371,500
Normal Growth and Repair - Wireless	15,000				15,000
Normal Growth and Repair - Provisioning	25,000				25,000
Fiber to the Home	709,136				709,136
Remote Cabinets for Advanced Services	50,000				50,000
Operating Equipment	100,000				100,000
PC Hardware and Software	40,000				40,000
Battery Plant Augmentation	125,000				125,000
Router Enhancement	175,000				175,000
Core Router Redundancy	225,500				225,500
Phone System	30,000				30,000
Headend Expansion	73,000				73,000
ISP email Server	25,000				25,000
Video Set Top Boxes	125,000				125,000
4G Mobile	50,000				50,000
Vehicle Acquisition	130,000				130,000
Pennock Island Transport	50,000				50,000
Telecommunications Division Total	2,764,136				2,764,136
Water Division					
Baranof Reservoir Replacement		1,911,000		1,730,000	3,641,000
Jackson, 4th, & 7th Water Improvements	75,000	1,552,456		2,092,544	3,720,000
Alaska Avenue Water Improvements	639,812	1,317,893			1,957,705
Water Distribution Grid Improvements	60,000				60,000
UV Facility Warehouse				335,000	335,000
Adams St. Water Improvements	15,000				15,000
Additional Projects	40,000				40,000
Water Service Upgrade Program	30,000				30,000
Backflow Prevention Program	10,000				10,000
Sayle & Gorge Street Water	40,000				40,000
Dunton St. Viaduct Rebuild & Utilities	75,000				75,000
Vehicles and Moving Equipment	35,000				35,000
1st Ave. & Jefferson Water Improvements	25,000				25,000
Schoenbar Road Water Improvements	60,000				60,000
Creek Street Water/Sewer Replacement	65,000				65,000
Water Division Total	1,169,812	4,781,349		4,157,544	10,108,705
GRAND TOTAL	6,132,401	20,146,429		4,157,544	30,436,374

Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
Summary of Projects by Division - All Years

Division/Project	Prior Years	2011	2012	2013	2014	2015	Five Year Total	Project Total
Administration								
Financial & Accounting Information System	74,858	401,000					401,000	475,858
Administration Total	74,858	401,000					401,000	475,858
Engineering								
None								
Engineering Total								
Sales, Marketing & Customer Service								
None								
Sales, Mrktng & Cust Service Total								
Electric Division								
Whitman Lake Hydroelectric Project	2,293,940	10,656,060	4,700,000	1,500,000			16,856,060	19,150,000
Bethe Substation	339,190	4,709,020					4,709,020	5,048,210
SCADA Upgrade		160,000					160,000	160,000
Ketchikan Tunnel Penstock Valves Replacement		50,000	100,000	300,000			450,000	450,000
Bailey Tank Farm Security Fence		25,000					25,000	25,000
Downtown Underground	85,459	100,000	100,000	100,000	100,000	100,000	500,000	585,459
Vehicles & Moving Equipment		275,000					275,000	275,000
34.5 kV Sectionalizing Breaker/Ward Cove	12,000	30,000					30,000	42,000
Transmission & Distribution Switches	15,000	25,000	25,000				50,000	65,000
Bailey Bi-directional Metering		35,000					35,000	35,000
Regulator Controllers		30,000					30,000	30,000
ASD Metering and Load Management		35,000	15,000				50,000	50,000
Electric Division Warehouse Roof & Siding		250,000					250,000	250,000
Additional Projects		150,000	150,000	150,000	150,000	150,000	750,000	750,000
Operating Equipment		174,100	80,000	80,000	80,000	80,000	494,100	494,100
Transformer Purchase		100,000	100,000	100,000	100,000	100,000	500,000	500,000
Reimbursables		158,000	158,000	158,000	158,000	158,000	790,000	790,000
Pennock-KIA Upgrades	66,874	150,000	300,000	3,000,000			3,450,000	3,516,874
Raptor Protection Program	76,119	5,000	5,000	5,000	5,000	5,000	25,000	101,119
Breaker Changes driven by SC Study	17,077	22,923					22,923	40,000
Ketchikan Generator Step-up Transformer	39,760	10,240					10,240	50,000
Beaver Falls Unit Exciter	17,810	12,190					12,190	30,000
Property Acquisition-Materials & Equipment Storage			300,000	100,000	100,000		500,000	500,000
Beaver Falls Powerhouse Exterior Painting			250,000				250,000	250,000
Electric Division Total	2,963,229	17,162,533	6,283,000	5,493,000	693,000	593,000	30,224,533	33,187,762

Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
Summary of Projects by Division - All Years

Division/Project	Prior Years	2011	2012	2013	2014	2015	Five Year Total	Project Total
Telecommunications Division								
Normal Growth and Repair - Buildings		45,000	25,000	25,000	25,000	25,000	145,000	145,000
Normal Growth and Repair - Central Office Switching		125,000	40,000	40,000	40,000	40,000	285,000	285,000
Normal Growth and Repair - Copper Cable		25,000	25,000	25,000	25,000	25,000	125,000	125,000
Normal Growth and Repair - Fiber Cable		250,000	250,000	250,000	250,000	250,000	1,250,000	1,250,000
Normal Growth and Repair - CO Transmission		371,500	350,000	350,000	500,000	500,000	2,071,500	2,071,500
Normal Growth and Repair - Wireless		15,000	15,000	15,000	15,000	15,000	75,000	75,000
Normal Growth and Repair - Provisioning		25,000	25,000	25,000	25,000	25,000	125,000	125,000
Fiber to the Home		709,136	400,000	250,000	100,000	100,000	1,559,136	1,559,136
Remote Cabinets for Advanced Services		50,000	50,000	50,000	50,000	50,000	250,000	250,000
Operating Equipment		100,000	50,000	50,000	50,000	50,000	300,000	300,000
PC Hardware and Software		40,000	20,000	20,000	20,000	20,000	120,000	120,000
Battery Plant Augmentation		125,000					125,000	125,000
Router Enhancement		175,000					175,000	175,000
Core Router Redundancy		225,500					225,500	225,500
Phone System		30,000					30,000	30,000
Headend Expansion		73,000	100,000	100,000	100,000	100,000	473,000	473,000
ISP email Server		25,000					25,000	25,000
Video Set Top Boxes		125,000	100,000	100,000	100,000	100,000	525,000	525,000
4G Mobile		50,000	800,000	100,000	100,000	100,000	1,150,000	1,150,000
Vehicle Acquisition		130,000	100,000	100,000	100,000	200,000	630,000	630,000
Pennock Island Transport	171,474	50,000					50,000	221,474
Switch Upgrade				750,000			750,000	750,000
Gravina Island Buildout			100,000	100,000	100,000	100,000	400,000	400,000
Microwave Link to Prince Rupert			1,975,000				1,975,000	1,975,000
Telecommunications Division Total	171,474	2,764,136	4,425,000	2,350,000	1,600,000	1,700,000	12,839,136	13,010,610
Water Division								
Baranof Reservoir Replacement	1,673,338	3,641,000					3,641,000	5,314,338
Jackson, 4th, & 7th Water Improvements		3,720,000					3,720,000	3,720,000
Alaska Avenue Water Improvements	11,578	1,957,705					1,957,705	1,969,283
Water Distribution Grid Improvements		60,000					60,000	60,000
UV Facility Warehouse		335,000					335,000	335,000
Adams St. Water Improvements		15,000		110,000			125,000	125,000
Additional Projects		40,000					40,000	40,000

Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
Summary of Projects by Division - All Years

Division/Project	Prior Years	2011	2012	2013	2014	2015	Five Year Total	Project Total
Water Division (continued)								
Water Service Upgrade Program		30,000					30,000	30,000
Backflow Prevention Program		10,000					10,000	10,000
Sayle & Gorge Street Water		40,000		125,000			165,000	165,000
Dunton St. Viaduct Rebuild & Utilities		75,000		120,000			195,000	195,000
Vehicles and Moving Equipment		35,000					35,000	35,000
1st Ave. & Jefferson Water Improvements		25,000		120,000			145,000	145,000
Schoenbar Road Water Improvements		60,000		820,000			880,000	880,000
Creek Street Water/Sewer Replacement		65,000					65,000	65,000
Water Street Trestle No. 2 - Utility Replacement			100,000				100,000	100,000
Lund & Millar Water Improvements			100,000				100,000	100,000
Mill Street Water Improvements			75,000		6,000,000		6,075,000	6,075,000
Austin Street Water Replacement			60,000		465,000		525,000	525,000
Buren Road Water Improvements			35,000		135,000		170,000	170,000
Denali Street Water Improvements			35,000		295,000		330,000	330,000
Harris Street Water Replacement			45,000		422,000		467,000	467,000
Shoreline Water Extension - Phase I	381,943					3,490,000	3,490,000	3,871,943
Highlands Reservoir Replacement				100,000			100,000	100,000
Woodland Ave. Water Improvements				25,000		195,000	220,000	220,000
Tongass Ave. Water - Phase III			40,000		2,059,000		2,099,000	2,099,000
Confidence Reservoir Replacement				100,000			100,000	100,000
Water Division Total		2,066,859	10,108,705	490,000	1,520,000	9,376,000	3,685,000	25,179,705
TOTAL		5,276,420	30,436,374	11,198,000	9,363,000	11,669,000	5,978,000	68,644,374

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
Summary of Projects by Funding Source - All Years**

Division/Project	Prior Years	Revenue Generating Fund	Federal/State Grants	Local/ Other	Revenue Bonds	State Drinking Water Loan Fund	Total
Administration							
Financial & Accounting Information System	74,858	401,000					475,858
Administration Total	74,858	401,000					475,858
Engineering							
None							
Engineering Total							
Sales, Marketing & Customer Service							
None							
Sales, Marketing & Customer Service Total							
Electric Division							
Whitman Lake Hydroelectric Project	2,293,940		16,856,060				19,150,000
Bethe Substation	339,190		4,709,020				5,048,210
SCADA Upgrade		160,000					160,000
Ketchikan Tunnel Penstock Valves Replacement		450,000					450,000
Bailey Tank Farm Security Fence		25,000					25,000
Downtown Underground	85,459	500,000					585,459
Vehicles & Moving Equipment		275,000					275,000
34.5 kV Sectionalizing Breaker/Ward Cove	12,000	30,000					42,000
Transmission & Distribution Switches	15,000	50,000					65,000
Bailey Bi-directional Metering		35,000					35,000
Regulator Controllers		30,000					30,000
ASD Metering and Load Management		50,000					50,000
Electric Division Warehouse Roof & Siding		250,000					250,000
Additional Projects		750,000					750,000
Operating Equipment		494,100					494,100
Transformer Purchase		500,000					500,000
Reimbursables		790,000					790,000
Pennock-KIA Upgrades	66,874	150,000	3,300,000				3,516,874
Raptor Protection Program	76,119	25,000					101,119
Breaker Changes driven by SC Study	17,077	22,923					40,000
Ketchikan Generator Step-up Transformer	39,760	10,240					50,000
Beaver Falls Unit Exciter	17,810	12,190					30,000
Property Acquisition-Materials & Equipment Storage		500,000					500,000

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
Summary of Projects by Funding Source - All Years**

Division/Project	Prior Years	Revenue Generating Fund	Federal/State Grants	Local/ Other	Revenue Bonds	State Drinking Water Loan Fund	Total
Electric Division (continued)							
Beaver Falls Powerhouse Exterior Painting		250,000					250,000
Electric Division Total	2,963,229	5,359,453	24,865,080				33,187,762
Telecommunications Division							
Normal Growth and Repair - Buildings		145,000					145,000
Normal Growth and Repair - Central Office Switching		285,000					285,000
Normal Growth and Repair - Copper Cable		125,000					125,000
Normal Growth and Repair - Fiber Cable		1,250,000					1,250,000
Normal Growth and Repair - CO Transmission		2,071,500					2,071,500
Normal Growth and Repair - Wireless		75,000					75,000
Normal Growth and Repair - Provisioning		125,000					125,000
Fiber to the Home		1,559,136					1,559,136
Remote Cabinets for Advanced Services		250,000					250,000
Operating Equipment		300,000					300,000
PC Hardware and Software		120,000					120,000
Battery Plant Augmentation		125,000					125,000
Router Enhancement		175,000					175,000
Core Router Redundancy		225,500					225,500
Phone System		30,000					30,000
Headend Expansion		473,000					473,000
ISP email Server		25,000					25,000
Video Set Top Boxes		525,000					525,000
4G Mobile		1,150,000					1,150,000
Vehicle Acquisition		630,000					630,000
Pennock Island Transport	171,474	50,000					221,474
Switch Upgrade		750,000					750,000
Gravina Island Buildout		400,000					400,000
Microwave Link to Prince Rupert		1,975,000					1,975,000
Telecommunications Division Total	171,474	12,839,136					13,010,610

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program
Summary of Projects by Funding Source - All Years**

Division/Project	Prior Years	Revenue Generating Fund	Federal/State Grants	Local/ Other	Revenue Bonds	State Drinking Water Loan Fund	Total
Water Division							
Baranof Reservoir Replacement	1,673,338		1,911,000			1,730,000	5,314,338
Jackson, 4th, & 7th Water Improvements		75,000	1,552,456			2,092,544	3,720,000
Alaska Avenue Water Improvements	11,578	639,812	1,317,893				1,969,283
Water Distribution Grid Improvements		60,000					60,000
UV Facility Warehouse						335,000	335,000
Adams St. Water Improvements		48,000	77,000				125,000
Additional Projects		40,000					40,000
Water Service Upgrade Program		30,000					30,000
Backflow Prevention Program		10,000					10,000
Sayles & Gorge Street Water		77,500	87,500				165,000
Dunton St. Viaduct Rebuild & Utilities		111,000	84,000				195,000
Vehicles and Moving Equipment		35,000					35,000
1st Ave. & Jefferson Water Improvements		61,000	84,000				145,000
Schoenbar Road Water Improvements		60,000	574,000			246,000	880,000
Creek Street Water/Sewer Replacement		65,000					65,000
Water Street Trestle No. 2 - Utility Replacement		100,000					100,000
Lund & Millar Water Improvements		100,000					100,000
Mill Street Water Improvements		75,000	4,200,000		1,800,000		6,075,000
Austin Street Water Replacement		60,000	325,500			139,500	525,000
Buren Road Water Improvements		75,500	94,500				170,000
Denali Street Water Improvements		123,500	206,500				330,000
Harris Street Water Replacement		172,000	295,000				467,000
Shoreline Water Extension - Phase I	381,943		2,443,000	580,000	467,000		3,871,943
Highlands Reservoir Replacement		100,000					100,000
Woodland Ave. Water Improvements		83,000	137,000				220,000
Tongass Ave. Water - Phase III		40,000	1,441,300		617,700		2,099,000
Confidence Reservoir Replacement		30,000	70,000				100,000
Water Division Total	2,066,859	2,271,312	14,900,649	580,000	2,884,700	4,543,044	27,246,564
TOTAL	5,276,420	20,870,901	39,765,729	580,000	2,884,700	4,543,044	73,920,794

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program**

Division: Administration

Project Title	Priority	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Financial & Accounting Information System	1	74,858	401,000		401,000					475,858
Total		74,858	401,000		401,000					475,858

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	74,858	401,000		401,000					475,858
Total	74,858	401,000		401,000					475,858

Division: Administration	Project Priority: 1	Project Number:
Project Title: Financial & Accounting Information System	Start Date: 01/08 End Date: 12/11	Estimated Project Cost:
Description: This project will involve the replacement of the City's financial and accounting information system. The City's current systems are approximately 25 years old. The City has engaged the Government Finance Officers Association's Research and Consulting Division to review the City's current systems, develop an independent needs assessment and to prepare contract solicitation documents. The total project is expected to cost \$952,000. It has been proposed that one-half of the project be paid for by General Government and one-half be paid for by KPU.		Design Land/Right-of-Way Construction Management Training and Education Equipment Other Project Total
		43,358 7,500 425,000 475,858

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	74,858	401,000		401,000					475,858
Total	74,858	401,000		401,000					475,858

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program**

Division: Electric

Project Title	Priority	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Generation (Hydro and Diesel) Projects										
Whitman Lake Hydroelectric Plant	1	2,293,940		10,656,060	10,656,060	4,700,000	1,500,000			19,150,000
Ketchikan Tunnel Penstock Valves Replacement	4			50,000	50,000	100,000	300,000			450,000
Breaker Changes driven by SC Study	20	17,077	22,923		22,923					40,000
Ketchikan Generator Step-up Transformer	21	39,760	10,240		10,240					50,000
Beaver Falls Unit Exciter	22	17,810	12,190		12,190					30,000
Transmission and Distribution Projects										
Bethe Substation	2	339,190		4,709,020	4,709,020					5,048,210
Downtown Underground	6	85,459		100,000	100,000	100,000	100,000	100,000	100,000	585,459
Transformer Purchase	16			100,000	100,000	100,000	100,000	100,000	100,000	500,000
34.5 kV Sectionalizing Breaker/Ward Cove	8	12,000		30,000	30,000					42,000
Transmission & Distribution Switches	9	15,000		25,000	25,000	25,000				65,000
ASD Metering and Load Management	12			35,000	35,000	15,000				50,000
Reimbursable Projects	17			158,000	158,000	158,000	158,000	158,000	158,000	790,000
Pennock-KIA Upgrades	18	66,874	125,000	25,000	150,000	300,000	3,000,000			3,516,874
Automation Control and Data Technologies										
SCADA Upgrades	3			160,000	160,000					160,000
Bailey Bi-directional Metering	10			35,000	35,000					35,000
Regulator Controls	11			30,000	30,000					30,000
General Plant Projects										
Bailey Tank Farm Security Fence	5			25,000	25,000					25,000
Vehicles & Moving Equipment	7			275,000	275,000					275,000
Electric Division Warehouse Roof and Siding	13			250,000	250,000					250,000
Beaver Falls Exterior Coating	24					250,000				250,000
Operating Equipment	15			174,100	174,100	80,000	80,000	80,000	80,000	494,100
Additional Projects	14			150,000	150,000	150,000	150,000	150,000	150,000	750,000
Raptor Protection Program	19	76,119		5,000	5,000	5,000	5,000	5,000	5,000	101,119
Property Acquisition - Material & Equipment Storage	23					300,000	100,000	100,000		500,000
Total		2,963,229	170,353	16,992,180	17,162,533	6,283,000	5,493,000	693,000	593,000	33,187,762
Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project	
		Reappropriated	New Funding	Total	2012	2013	2014	2015		
Revenue Generating Fund	1,122,249	170,353	1,627,100	1,797,453	1,283,000	993,000	693,000	593,000	6,481,702	
State Grant	1,840,980		5,459,020	5,459,020					7,300,000	
Proposed Grant			9,906,060	9,906,060	5,000,000	4,500,000			19,406,060	
Total	2,963,229	170,353	16,992,180	17,162,533	6,283,000	5,493,000	693,000	593,000	33,187,762	

Division: Electric	Project Priority: 1	Project Number:
Project Title: Whitman Lake Hydroelectric Project	Start Date: 01/07 End Date: 12/13	Estimated Project Cost:
Description: The 4.6 MW Whitman Lake Hydroelectric Project will use water from the existing Whitman Lake reservoir to generate up to 16,000,000 kWh of electricity for KPU customers. Projected load increases indicate that KPU will require additional generation and capacity within the next 4-5 years. FERC issued a project license in March 2009 and has granted KPU a two-year extension of time to commence construction. KPU must begin construction no later than February 2013.		Design/License 2,488,760 Land/Right-of-Way 50,000 Construction Management 1,200,000 Construction 8,411,240 Equipment 7,000,000 Other Project Total 19,150,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	743,940								743,940
State Grant	1,550,000		750,000	750,000					2,300,000
Proposed Grant			9,906,060	9,906,060	4,700,000	1,500,000			16,106,060
Total	2,293,940		10,656,060	10,656,060	4,700,000	1,500,000			19,150,000

Division: Electric	Project Priority: 2	Project Number:
Project Title: Bethe Substation	Start Date: 09/09 End Date: 12/11	Estimated Project Cost:
Description: Bethe Substation is nearing its full capacity and in December 2008 the unit exceeded the rating of a 5 MVA transformer. Identified load growth within the schools, hospital, college campus and additional heating conversions currently fed from Bethe will well exceed this value. A state designated legislative grant has been approved in the amount of \$5,000,000.00 to provide funding to the City of Ketchikan for use towards the Bethe Substation replacement. This project includes, but is not limited to, design and construction of a larger capacity substation with feeder upgrades to replace existing capacity limitations. The project will consist of demolition of the existing Bethe site, followed by site improvements to accommodate a new larger transformer, switchgear, controls and feeder upgrades for increased capacity to match identified future load growth.		Design 348,210 Land/Right-of-Way Construction Management 300,000 Construction 3,550,000 Equipment 850,000 Other Project Total 5,048,210

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant	48,210 290,980		4,709,020	4,709,020					48,210 5,000,000
Total	339,190		4,709,020	4,709,020					5,048,210

Division: Electric	Project Priority: 3	Project Number:
Project Title: SCADA Upgrade	Start Date: 01/10 End Date: 12/11	Estimated Project Cost:
Description: The current SCADA system operated at Bailey Station forms the backbone for much of the City's infrastructure. Some 17 Remote Terminal Units (RTUs) in the field collect over 5,000 control points spanning generation sites, water department processes, substations, lake levels, telephone vaults and security information. The current system monitors 2,500 status points throughout the City, 30 miles of transmission lines and over 100 miles of distribution lines. The software application "Open View" from OSI that runs the system is 3 years out of date from a support standpoint. OSI no longer provides maintenance upgrades for that version and, therefore, continued support is limited. A migration to the current supported application is necessary, "Open View.Net" is necessary, in order to utilize advances in control automation and stay current with software maintenance releases and support. The estimated project cost includes the software application, hardware, and training.		Design Land/Right-of-Way Construction Management Construction Equipment 160,000 Other Project Total 160,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating			160,000	160,000					160,000
Total			160,000	160,000					160,000

Division: Electric					Project Priority: 4		Project Number:		
Project Title: Ketchikan Tunnel Penstock Valves Replacement					Start Date: 01/11 End Date: 12/13		Estimated Project Cost:		
Description: The gate valves on the penstocks at the downstream end of the Ketchikan power tunnel are old and are near the end of their reliable service life. They must be capable of closing under flow and are critical to penstock safety. The valves are embedded in concrete and will be difficult to remove or replace them due to their location. And, as the tunnel provides the City's only potable water supply, it cannot be drained during the work.							Design 50,000 Land/Right-of-Way Construction Management Construction 300,000 Equipment 100,000 Other Project Total 450,000		
Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			50,000	50,000	100,000	300,000			450,000
Total			50,000	50,000	100,000	300,000			450,000

Division: Electric	Project Priority: 5	Project Number:
Project Title: Bailey Tank Farm Security Fence	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: The Bailey tank farm, containing 185,000 gallon and 210,000 gallon diesel fuel tanks for the standby generators at Bailey Powerhouse, has no fencing around the perimeter. A security fence was strongly recommended by the EPA following a 2010 site inspection. Approximately 350' of barbed-wire topped fencing and four gates will be installed on top of the low concrete containment wall. This project was originally budgeted in 2009, but the funds were transferred in order to complete furnace braising on a cylinder head for Bailey Diesel Unit No. 4.		Design Land/Right-of-Way Construction Management Construction 25,000 Equipment Other Project Total 25,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			25,000	25,000					25,000
Total			25,000	25,000					25,000

Division: Electric	Project Priority: 6	Project Number:
Project Title: Downtown Underground	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: Work will continue to upgrade the downtown underground electrical system, including the underground vaults in the areas that are prone to tide and rainwater flooding, show signs of deteriorating structural integrity and present continual maintenance issues. Plans to fill in Vault 3 and move it's respective electrical equipment to above ground will continue with actual work being scheduled prior to or after the tourist season. Other aspects such as area switches, transformers, conduit, etc. will be upgraded as deemed necessary.		Design 85,459 Land/Right-of-Way Construction Management Construction 200,000 Equipment 300,000 Other Project Total 585,459

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	85,459		100,000	100,000	100,000	100,000	100,000	100,000	585,459
Total	85,459		100,000	100,000	100,000	100,000	100,000	100,000	585,459

Division: Electric	Project Priority: 7	Project Number:
Project Title: Vehicles & Moving Equipment	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: The existing digger/derrick (auger) line truck, a 1995 GMC Top-Kick, is rapidly aging and is showing signs of significant corrosion, including the under-carriage. This truck is used to set new power poles and is essential to the day-to-day and emergency operations for the utility. The new tandem axle truck will be capable of setting power poles, booming equipment and hauling large padmounted transformers of up to 15,000 pounds. Delivery time for the vehicle is anticipated to be 8 months. Other division vehicles will need replacement in the coming years, but the importance of replacing the existing digger/derrick line truck can not be over-emphasized.		Design Land/Right-of-Way Construction Management Construction Equipment 275,000 Other Project Total 275,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			275,000	275,000					275,000
Total			275,000	275,000					275,000

Division: Electric	Project Priority: 8	Project Number:
Project Title: 34.5 kV Sectionalizing Breaker/Ward Cove	Start Date: 01/10 End Date: 12/11	Estimated Project Cost:
Description: In its current configuration, the 34.5 kV sub-transmission line north is not sectionalized and must be de-energized for repair. Adding a sectionalizing breaker at Ward Cove would allow service flexibility under some circumstances by maintaining service while isolating a section requiring extensive maintenance. Similar sectionalizing can be done south at Mountain Point. Control would be remote from Bailey Operations. The budget amount is for labor and miscellaneous parts only, as a breaker is on hand.		Design 5,000 Land/Right-of-Way Construction Management Construction Equipment 37,000 Other Project Total 42,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating	12,000		30,000	30,000					42,000
Total	12,000		30,000	30,000					42,000

Division: Electric	Project Priority: 9	Project Number:
Project Title: Transmission & Distribution Switches	Start Date: 01/10 End Date: 12/12	Estimated Project Cost:
Description: Manual disconnect switches along the 34.5kV sub-transmission and 12.47kV distribution lines are deteriorated and difficult to operate. These switches are necessary for safety clearances during maintenance and outages periods. These funds will also allow switches to be placed in new areas throughout the system for greater sectionalizing capability, which is critical to system integrity. This is a multi-year program intended to address one aspect of the aging electrical system.		Design Land/Right-of-Way Construction Management Construction Equipment 65,000 Other Project Total 65,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	15,000		25,000	25,000	25,000				65,000
Total	15,000		25,000	25,000	25,000				65,000

Division: Electric	Project Priority: 10	Project Number:
Project Title: Bailey Bi-directional Metering	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: In its current configuration, metering 115 kV power in the Bailey Substation only registers one way, incoming. The current metering is also sub-standard in accuracy for a "revenue" grade meter. It is currently used to determine payment to SEAPA. Circumstances are anticipated where KPU must be in the position to know exported amounts as well. The budgeted amount is for metering upgrades to accomplish bi-directional "revenue" grade metering of the 115 kV power at the Bailey yard. Amounts are based on estimates only.		Design 5,000 Land/Right-of-Way Construction Management Construction Equipment 30,000 Other Project Total 35,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			35,000	35,000					35,000
Total			35,000	35,000					35,000

Division: Electric	Project Priority: 11	Project Number:
Project Title: Regulator Controllers	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: A standard SCADA controller package has been implemented on voltage regulators in the Point Higgins Substation. The move to SCADA control was required to improve voltage control and minimize losses. The budgeted amount is for continuing this SCADA controller package for voltage regulators in the remaining substations.		Design Land/Right-of-Way Construction Management Construction Equipment 30,000 Other Project Total 30,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			30,000	30,000					30,000
Total			30,000	30,000					30,000

Division: Electric	Project Priority: 12	Project Number:
Project Title: ASD Metering and Load Management	Start Date: 01/11 End Date: 12/12	Estimated Project Cost:
Description: The revenue metering at Alaska Ship and Drydock, located on the secondary side of an ASD owned transformer, does not meet metering standards. Specifically, the metering shares circuitry devices (protective relays) that can place a burden on the circuitry and affect that accuracy of the meter readings. Further, the existing metering can not be serviced without a shutdown of the shipyard which is almost impossible to schedule. New metering would be located on the KPU owned 34.5 kV primary, accessible and maintainable based on KPU's schedules. SCADA feedback of real time data to Bailey would be added. Real time monitoring does not currently exist to allow for load management during system tight supply events or system disturbances per the PSA. Further, a breaker will be added to support emergency load shedding.		Design 10,000 Land/Right-of-Way Construction Management Construction 10,000 Equipment 30,000 Other Project Total 50,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			35,000	35,000	15,000				50,000
Total			35,000	35,000	15,000				50,000

Division: Electric	Project Priority: 13	Project Number:
Project Title: Electric Division Warehouse Roof and Siding	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: The metal warehouse at the division headquarters leaks in multiple locations during heavy rain events and sweats with condensation during the winter. Both the roof and the siding are exhibiting significant signs of corrosion, with holes beginning to become visible. The warehouse contains the vehicle maintenance area, line crew supplies and tools, meter shop supplies (including sensitive metering equipment) and office space for six personnel. The warehouse is part of the long-term plan to upgrade and better utilize the existing property at 1065 Fair Street.		Design Land/Right-of-Way Construction Management Construction 250,000 Equipment Other Project Total 250,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			250,000	250,000					250,000
Total			250,000	250,000					250,000

Division: Electric	Project Priority: 14	Project Number:
Project Title: Additional Projects	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This project represents funds for materials and labor for unidentified jobs that the division will be called upon to perform in 2011. Examples of additional projects include the installation of new transformers and banks of transformers, upgrading existing transformers and banks and upgrading secondary lift poles. These non-reimbursable projects are O&M in nature but are capital since they represent new installations.		Design Land/Right-of-Way Construction Management Construction Equipment 750,000 Other Project Total 750,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generation Fund			150,000	150,000	150,000	150,000	150,000	150,000	750,000
Total			150,000	150,000	150,000	150,000	150,000	150,000	750,000

Division: Electric	Project Priority: 15	Project Number:
Project Title: Operating Equipment	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: Purchase of new or replacement equipment for the meter shop, warehouse and SCADA department. This equipment will be used for the operation and maintenance of electrical service.		Design Land/Right-of-Way Construction Management Construction Equipment 494,100 Other Project Total 494,100
Substation & Powerhouse Electronic Meters \$15,000		
Recorder Equipment \$10,000		
Current & Potential Transformers \$15,000		
Test Indication Equipment Repair & Calibration \$15,000		
Generation & Powerhouse Spare Parts \$20,000		
Data Radio Equipment \$10,600		
Pallet Racks \$20,000		
Flagging Equipment \$11,000		
Meters & Replacement Parts \$50,000		
Transmission/Distribution Apparatus Tagging Equipment \$ 7,500		

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			174,100	174,100	80,000	80,000	80,000	80,000	494,100
Total			174,100	174,100	80,000	80,000	80,000	80,000	494,100

Division: Electric	Project Priority: 16	Project Number:
Project Title: Transformer Purchase	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: KPU has historically seen demands of 3 to 5 kW per residence for residential service. Typically, a 25 kW distribution transformer has been installed to serve 5 to 7 residences. Due to the rapid conversion from oil heat, many residences are requiring a 10 to 15 kW electric heating system, which will quickly overload existing distribution service transformers. Many of KPU's existing service transformers will be overloaded and will require replacement.		Design Land/Right-of-Way Construction Management Construction Equipment 500,000 Other Project Total 500,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			100,000	100,000	100,000	100,000	100,000	100,000	500,000
Total			100,000	100,000	100,000	100,000	100,000	100,000	500,000

Division: Electric	Project Priority: 17	Project Number:
Project Title: Reimbursables	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This account represents funds for materials and labor for work that the division will be called upon to perform at the request of outside agencies. Examples of reimbursable projects are new line extensions, damage to the electrical system resulting from accidents, negligence and vandalism. The division's expectation is that such work will be reimbursed 100%.		Design Land/Right-of-Way Construction Management Construction 790,000 Equipment Other Project Total 790,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			158,000	158,000	158,000	158,000	158,000	158,000	790,000
Total			158,000	158,000	158,000	158,000	158,000	158,000	790,000

Division: Electric	Project Priority: 18	Project Number:
Project Title: Pennock-KIA Upgrades	Start Date: 01/09 End Date: 12/13	Estimated Project Cost:
Description: Preliminary in-house work will continue on developing plans for providing a 3-phase 12.47kV alternative feed to the Ketchikan International Airport, via Pennock Island, Clam Cove and the Gravina Island Highway. Specifications will be compiled of sufficient detail, based on the conceptual design study that is being undertaken in 2010, to begin the process of seeking grant funding for the project. Interim work will also continue to move Pennock Island and Clam Cove residents to KPU's standard single-phase system of 7.2kV and away from the existing 2.4kV, which is less robust and more susceptible to lightning damage. Crews will also install a new single-phase submarine cable which was damaged in late 2009 by a barge, as well as wrecking out and cleaning up abandoned 2.4kV-related equipment.		Design 250,000 Land/Right-of-Way Construction Management Construction 1,266,874 Equipment 2,000,000 Other Project Total 3,516,874

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund Proposed Grant	66,874	125,000	25,000	150,000	300,000	3,000,000			216,874 3,300,000
Total	66,874	125,000	25,000	150,000	300,000	3,000,000			3,516,874

Division: Electric	Project Priority: 19	Project Number:
Project Title: Raptor Protection Program	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This regulatory driven program is ongoing and adds protective devices to the system at sites that have been determined to pose a risk to raptors as well as other wildlife.		Design Land/Right-of-Way Construction Management Construction Equipment 101,119 Other Project Total 101,119

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	76,119		5,000	5,000	5,000	5,000	5,000	5,000	101,119
Total	76,119		5,000	5,000	5,000	5,000	5,000	5,000	101,119

Division: Electric	Project Priority: 20	Project Number:
Project Title: Raptor Protection Program	Start Date: 01/10 End Date: 12/11	Estimated Project Cost:
Description: A KPU system short circuit study is underway to assure adequate interrupting capability in the event of a fault considering the additional fault energy added with the Swan Lake/Lake Tyee Intertie. This need should be determined in the early fall of 2009. Transfer tip schemes will be set-up in late 2009 to mitigate any deficiencies pending breaker replacements in 2010. Preliminary results from EPS show maximum fault currents exceed fault interrupting ratings on six generator breakers.		Design 30,000 Land/Right-of-Way Construction Management Construction 10,000 Equipment Other Project Total 40,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	17,077	22,923		22,923					40,000
Total	17,077	22,923		22,923					40,000

Division: Electric	Project Priority: 21	Project Number:
Project Title: Ketchikan Generator Step-up Transformer	Start Date: 01/10 End Date: 12/11	Estimated Project Cost:
Description: The Ketchikan generator step up (GSU) transformer has a history of gassing, reflecting an internal problem with the electrical components. Periodic testing throughout early 2009 by gas analysis indicated overheating of the insulating oil and a failure will eventually occur.		Design 10,000 Land/Right-of-Way Construction Management Construction 10,000 Equipment 30,000 Other Project Total 50,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	39,760	10,240		10,240					50,000
Total	39,760	10,240		10,240					50,000

Division: Electric	Project Priority: 22	Project Number:
Project Title: Beaver Falls Unit 1 Exciter	Start Date: 01/10 End Date: 12/11	Estimated Project Cost:
Description: Excitation equipment on Beaver Falls Unit No. 1 performs slowly and does not compensate with Unit Nos. 3 & 4 during voltage changes. Unit No. 1 is a rotating exciter with a rheostat voltage regulator. Replacement of the rheostat with a controller to work with the rotating exciter should improve response and compensation with Unit Nos. 3 and 4 static exciters.		Design 3,000 Land/Right-of-Way Construction Management Construction 5,000 Equipment 22,000 Other Project Total 30,000

Source of Funds	Prior Years				Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	17,810	12,190		12,190					30,000
Total	17,810	12,190		12,190					30,000

Division: Electric	Project Priority: 23	Project Number:
Project Title: Property Acquisition-Material & Equipment Storage	Start Date: 01/11 End Date: 12/14	Estimated Project Cost:
Description: The Electric Division will begin to look for property to purchase (approximately 1 to 2 acres) for the purpose of consolidating it's material and equipment, which is currently spread between two smaller parcels. Power poles, wire reels, pad and pole-mount transformers, heavy equipment and the mobile substation would all be stored on the new property. Future improvements to the land would include fencing the entire perimeter, building containment for transformers and the bulk power pole areas, as well as a basic shed building to protect the mobile substation from the weather. Currently, all transformers are stored near Ketchikan Powerhouse, located alongside Ketchikan Creek, presenting a spill hazard. The location needs access to the Tongass Highway system for large trucks and equipment, that does not run through residential neighborhoods and has at least basic site preparation already completed.		Design 300,000 Land/Right-of-Way Construction Management Construction 125,000 Equipment 75,000 Other Project Total 500,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund					300,000	100,000	100,000		500,000
Total					300,000	100,000	100,000		500,000

Division: Electric	Project Priority: 24	Project Number:
Project Title: Beaver Falls Powerhouse Exterior Painting	Start Date: 01/12 End Date: 12/12	Estimated Project Cost:
Description: The exterior shell of Beaver Falls Powerhouse, built in 1954, contains asbestos and is flaking off the building. This project will include exterior asbestos abatement of the 120'x30' building and re-sealing the concrete structure with an asbestos-free coating. Interior asbestos-related issues will not be addressed at this time. Exterior material to be removed during this project include: - Surface coat/sealer of concrete shell (friable) - Caulking around penetrations and doors (friable) - Mortar in window pockets (non-friable)		Design Land/Right-of-Way Construction Management Construction 250,000 Equipment Other Project Total 250,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund					250,000				250,000
Total					250,000				250,000

Division: Telecommunications	Project Priority: 1	Project Number: 719-01
Project Title: Normal Growth and Repair - Buildings	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget will provide funding for improvements to existing buildings. To improve security and access to all Telecommunication remotes, the division needs to install key cards to all 7 buildings. Other small interior remodeling projects are scheduled as well.		Design Land/Right-of-Way Construction Management Construction 100,000 Equipment 45,000 Other Project Total 145,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			45,000	45,000	25,000	25,000	25,000	25,000	145,000
Total				45,000	45,000	25,000	25,000	25,000	25,000	145,000

Division: Telecommunications	Project Priority: 2	Project Number: 716-99
Project Title: Normal Growth and Repair - Central Office Switching	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget item is for switching upgrades and additional equipment required for Central Office Switching. The division will add redundancy to the T7000 switch in 2011. Additionally, the division will change its SS7 network to utilize IP connectivity, which will reduce ongoing operating costs.		Design 7,125 Land/Right-of-Way Construction Management Construction 14,250 Equipment 263,625 Other Project Total 285,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			125,000	125,000	40,000	40,000	40,000	40,000	285,000
Total				125,000	125,000	40,000	40,000	40,000	40,000	285,000

Division: Telecommunications		Project Priority: 3			Project Number: 710-99					
Project Title: Normal Growth and Repair - Copper Cable		Start Date: 01/11			Estimated Project Cost:					
Description:		End Date: 12/15			Design 5,000					
This budget item will fund the replacement of existing deteriorated cables and other minor cable projects, including line extensions. This budget item will also fund cable, cross arms and miscellaneous hardware needed to reconnect to poles replaced by the Electric Division. This item has been significantly reduced from prior years, as the division's focus moves to fiber cable.					Land/Right-of-Way					
					Construction Management					
					Construction 50,000					
					Equipment 70,000					
					Other					
					Project Total 125,000					
Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			25,000	25,000	25,000	25,000	25,000	25,000	125,000
Total				25,000	25,000	25,000	25,000	25,000	25,000	125,000

Division: Telecommunications	Project Priority: 4	Project Number: 711-99
Project Title: Normal Growth and Repair - Fiber Cable	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget item will provide funds that will be used to add fiber optic connectivity for various business data circuits and other smaller fiber projects necessary for the efficient operation of the utility. This item also includes materials and labor for KPU to continue installation of fiber drops for customers who order high bandwidth television services and are within areas served by the division's new fiber to the home facilities.		Design 25,000 Land/Right-of-Way Construction Management Construction 687,500 Equipment 537,500 Other Project Total 1,250,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappro- riated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Total				250,000	250,000	250,000	250,000	250,000	250,000	1,250,000

Division: Telecommunications		Project Priority: 5			Project Number: 712-99					
Project Title: Normal Growth and Repair - CO Transmission		Start Date: 01/11			Estimated Project Cost:					
Description:		End Date: 12/15			Design 51,788					
<p>This budget item will fund the purchase and installation of additional Intelligent Network Interface Devices (NIDS) and Optical Network Terminals (ONTS) needed to keep up with customer demand for IP video services. Fiber ports to connect end user customers to triple play services over fiber are included in this item. The division continues to receive orders for new private line services such as digital data service, T1, etc, which will require expanding its equipment to keep up with this demand. The division has another planned project to enhance its monitoring capability for network elements and to control access to key network systems.</p>					Land/Right-of-Way					
					Construction Management					
					Construction 207,150					
					Equipment 1,812,562					
					Other					
					Project Total 2,071,500					
Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			371,500	371,500	350,000	350,000	500,000	500,000	2,071,500
Total				371,500	371,500	350,000	350,000	500,000	500,000	2,071,500

Division: Telecommunications	Project Priority: 6	Project Number: 713-99
Project Title: Normal Growth and Repair - Wireless	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget item will provide funds to purchase 700 MHz radio equipment that will be used to serve remote locations within the division's serving area.		Design 1,875 Land/Right-of-Way Construction Management Construction 7,500 Equipment 65,625 Other Project Total 75,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			15,000	15,000	15,000	15,000	15,000	15,000	75,000
Total				15,000	15,000	15,000	15,000	15,000	15,000	75,000

Division: Telecommunications	Project Priority: 7	Project Number: 714-99
Project Title: Normal Growth and Repair - Provisioning	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This item is for a self help portal to assist customers in dealing with the ever increasing technicalities in operating their services. This would take place on multiple platforms such as a web portal and video instructions.		Design Land/Right-of-Way Construction Management Construction Equipment 125,000 Other Project Total 125,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			25,000	25,000	25,000	25,000	25,000	25,000	125,000
Total				25,000	25,000	25,000	25,000	25,000	25,000	125,000

Division: Telecommunications	Project Priority: 8	Project Number: 711-01
Project Title: Fiber to the Home	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This project will continue the deployment of fiber cable and terminals necessary to bring fiber to the home technology to Ketchikan. The project was started in 2008, concentrating on areas with long loop lengths and new subdivisions. Starting in 2009, the focus shifted to the higher density areas within the City in order to reach more potential subscribers. Most of the major areas will be completed as of the end of the 2010. Some small areas will, however, continue to be pursued. Additionally, the division will need to place the terminals for the opti-snap cable placed in 2010.		Design 38,978 Land/Right-of-Way Construction Management Construction 77,957 Equipment 1,442,201 Other Project Total 1,559,136

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415		209,136	500,000	709,136	400,000	250,000	100,000	100,000	1,559,136
Total			209,136	500,000	709,136	400,000	250,000	100,000	100,000	1,559,136

Division: Telecommunications	Project Priority: 9	Project Number: 712-01
Project Title: Remote Cabinets for Advanced Services	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: The division will replace the batteries in the remote cabinets in 2011. These backup batteries have reached the end of life and need to be replaced. The division will also be adding some monitoring sensors to the cabinets to ensure they are operating normally.		Design 6,250 Land/Right-of-Way Construction Management Construction 18,750 Equipment 225,000 Other Project Total 250,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			50,000	50,000	50,000	50,000	50,000	50,000	250,000
Total				50,000	50,000	50,000	50,000	50,000	50,000	250,000

Division: Telecommunications	Project Priority: 11	Project Number: 719-05-97
Project Title: PC Hardware and Software	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget item will allow for the replacement of outdated computers that have not been upgraded in at least six years.		Design Land/Right-of-Way Construction Management Construction Equipment 120,000 Other Project Total 120,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			40,000	40,000	20,000	20,000	20,000	20,000	120,000
Total				40,000	40,000	20,000	20,000	20,000	20,000	120,000

Division: Telecommunications	Project Priority: 12	Project Number: 716-01
Project Title: Battery Plant Augmentation	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This budget item will provide the funds to install a secondary 48 Volt direct current battery plant in the main Central Office. Now that the division has the space to augment its battery plant, the important project can move forward		Design 3,125
		Land/Right-of-Way
		Construction Management
		Construction 12,500
		Equipment 109,375
	Other	
	Project Total 125,000	

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			125,000	125,000					125,000
Total				125,000	125,000					125,000

Division: Telecommunications	Project Priority: 13	Project Number: 712-01
Project Title: Router Enhancement	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This budget item will provide the funds to enhance the division's routers at all remote offices. Increased network usage for high definition TV and VOD has strained the capacity of the existing routers. This will also allow multiple route paths to increase network resiliency.		Design 1,750 Land/Right-of-Way Construction Management Construction 7,000 Equipment 166,250 Other Project Total 175,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			175,000	175,000					175,000
Total				175,000	175,000					175,000

Division: Telecommunications	Project Priority: 14	Project Number: 712-02
Project Title: Core Router Redundancy	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This budget item will provide the funds to add redundancy to the core of our IP network. Since all voice, data and television traffic flows through this core equipment, the division desires to add redundancy in case of catastrophic failure of this key equipment. This is an important part of an overall initiative to increase network resiliency going forward.		Design 2,255
		Land/Right-of-Way
		Construction Management
		Construction 9,020
		Equipment 214,225
		Other
		Project Total 225,500

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			225,500	225,500					225,500
Total				225,500	225,500					225,500

Division: Telecommunications	Project Priority: 15	Project Number: 719-06
Project Title: Phone System	Start Date: 01/11	Estimated Project Cost:
Description: This budget item will provide the funds to install a Hosted PBX system for the KPU Telecommunications Division.	End Date: 12/11	Design 300
		Land/Right-of-Way
		Construction Management
		Construction 9,000
		Equipment 20,700
		Other
		Project Total 30,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			30,000	30,000					30,000
Total				30,000	30,000					30,000

Division: Telecommunications	Project Priority: 16	Project Number: 718-01
Project Title: Headend Expansion	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget item will provide the funds to purchase new receivers and IRDs (Intergraded receiver/decoder) to keep pace with changes. The division will also continue to expand the CommVision channel lineup with high definition channels as they become available.		Design 11,825 Land/Right-of-Way Construction Management Construction 47,300 Equipment 413,875 Other Project Total 473,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	420			73,000	73,000	100,000	100,000	100,000	100,000	473,000
Total				73,000	73,000	100,000	100,000	100,000	100,000	473,000

Division: Telecommunications	Project Priority: 17	Project Number: 718-03
Project Title: ISP email Server	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This budget item will modernize our email server to provide better service to the division's customers. This will lower operating costs going forward.		Design 625 Land/Right-of-Way Construction Management Construction 2,500 Equipment 21,875 Other Project Total 25,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	420			25,000	25,000					25,000
Total				25,000	25,000					25,000

Division: Telecommunications	Project Priority: 18	Project Number: 718-02
Project Title: Video Set Top Boxes	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: This budget item will provide the funds to purchase set top boxes that will be used to deploy CommVision video services. Additionally, Personal Video Recorders (PVRs) will be purchased in order to be able to support time shifted television. Set top boxes that are replaced with personal video recorders will be redeployed to new customers who do not order PVRs.		Design Land/Right-of-Way Construction Management Construction Equipment 525,000 Other Project Total 525,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	420			125,000	125,000	100,000	100,000	100,000	100,000	525,000
Total				125,000	125,000	100,000	100,000	100,000	100,000	525,000

Division: Telecommunications		Project Priority: 19			Project Number: 718-04					
Project Title: 4G Mobile		Start Date: 01/11			Estimated Project Cost:					
Description:		End Date: 12/15			Design 11,500					
This budget item will provide the funds to investigate and plan for KPU offering a 4G (4th Generation) Mobile product utilizing the AWS (Advanced Wireless Service) or 700 Mhz spectrum that KPU owns. This will encompass preliminary design, business plan, potential service offerings, roaming agreements, etc.					Land/Right-of-Way					
					Construction Management					
					Construction 57,500					
					Equipment 1,081,000					
					Other					
					Project Total 1,150,000					
Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415		50,000		50,000	800,000	100,000	100,000	100,000	1,150,000
Total			50,000		50,000	800,000	100,000	100,000	100,000	1,150,000

Division: Telecommunications	Project Priority: 20	Project Number: 719-02-92
Project Title: Vehicle Acquisition	Start Date: 01/11 End Date: 12/15	Estimated Project Cost:
Description: The division needs to add a bucket truck as the fiber installs require the placement of fiber drops from the terminal to the customers house. In order to efficiently utilize the crews for an increasing number of fiber installs, we will need this bucket truck. Also scheduled is the replacement of an installation van that is 10 years old.		Design Land/Right-of-Way Construction Management Construction Equipment 630,000 Other Project Total 630,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415			130,000	130,000	100,000	100,000	100,000	200,000	630,000
Total				130,000	130,000	100,000	100,000	100,000	200,000	630,000

Division: Telecommunications			Project Priority: 21			Project Number:				
Project Title: Pennock Island Transport			Start Date: 01/10 End Date: 12/11			Estimated Project Cost:				
Description: This budget item will provide the funds to place submarine cable to Pennock Island to establish a higher bandwidth transport facility. This project will be done in conjunction with the Electric Division.						Design 2,500 Land/Right-of-Way Construction Management Construction Equipment 221,474 Other Project Total 223,974				
Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415	171,474	50,000		50,000					221,474
Total			50,000		50,000					221,474

Division: Telecommunications	Project Priority: 22	Project Number:
Project Title: Switch Upgrade	Start Date: 01/13 End Date: 12/13	Estimated Project Cost:
Description: This budget item will provide the funds to upgrade the primary switching platform in order to offer the newest services to the division's customers.		Design 18,750 Land/Right-of-Way Construction Management Construction 75,000 Equipment 656,250 Other Project Total 750,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415						750,000			750,000
Total							750,000			750,000

Division: Telecommunications	Project Priority: 23	Project Number:
Project Title: Gravina Island Buildout	Start Date: 01/12	Estimated Project Cost:
Description: This budget item will provide the funds to build out telecommunications plant in the Gravina Island area as additional access and development is achieved.	End Date: 12/15	Design 10,000
		Land/Right-of-Way Construction Management Construction 40,000 Equipment 350,000 Other Project Total 400,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	415					100,000	100,000	100,000	100,000	400,000
Total						100,000	100,000	100,000	100,000	400,000

Division: Telecommunications	Project Priority: 24	Project Number:
Project Title: Microwave Link to Prince Rupert	Start Date: 01/12 End Date: 12/12	Estimated Project Cost:
Description: This budget item will provide the funds to establish a microwave link between Ketchikan and Prince Rupert for use to transport data traffic. It is anticipated that in the short term KPU will be able to purchase bandwidth on a contract basis, so this project has been moved out into the future. Depending on the outcome of the negotiations to purchase bandwidth, the division will keep this on the drawing board as a future project.		Design Land/Right-of-Way Construction Management Construction 1,975,000 Equipment Other Project Total 1,975,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	420					1,975,000				1,975,000
Total						1,975,000				1,975,000

**Ketchikan Public Utilities
2011 - 2015 Capital Improvement Program**

Division: Water

Project Title	Priority	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Baranof Reservoir Replacement	1	1,673,338		3,641,000	3,641,000					5,314,338
Jackson St., 4th & 7th Ave. Water Improvements	2			3,720,000	3,720,000					3,720,000
Alaska Ave. Water Improvements	3	11,578		1,957,705	1,957,705					1,969,283
Water Distribution Grid Improvements	4			60,000	60,000					60,000
UV Facility Warehouse	5			335,000	335,000					335,000
Adams Street Water Improvements	6			15,000	15,000		110,000			125,000
Additional Projects	7			40,000	40,000					40,000
Water Service Upgrade Program	8			30,000	30,000					30,000
Backflow Prevention Program	9			10,000	10,000					10,000
Sayles & Gorge Street Bridges & Utilities	10			40,000	40,000		125,000			165,000
Dunton Street Viaduct Rebuild & Utilities	11			75,000	75,000		120,000			195,000
Vehicles & Moving Equipment	12			35,000	35,000					35,000
1st Ave & Jefferson St. Water Impr.	13			25,000	25,000		120,000			145,000
Schoenbar Road Water Improvements	14			60,000	60,000		820,000			880,000
Creek Street Water/Sewer Replacement	15		65,000		65,000					65,000
Water St. Trestle # 2 Utility Replacement	16					100,000				100,000
Lund & Millar St. Water Improvements	17					100,000				100,000
Mill Street Water Improvements	18					75,000		6,000,000		6,075,000
Austin St. Water Improvements	19					60,000		465,000		525,000
Buren Road Water Improvements	20					35,000		135,000		170,000
Denali St. Water Improvements	21					35,000		295,000		330,000
Harris Street Water Improvements	22					45,000		422,000		467,000
Shoreline Water Extension - Phase I	23	381,943							3,490,000	3,871,943
Highlands Reservoir Replacement	24						100,000			100,000
Woodland Ave. Water Improvements	25						25,000		195,000	220,000
Tongass Ave. Water Impr. Phase III	26					40,000		2,059,000		2,099,000
Confidence Reservoir Replacement-Design	27						100,000			100,000
Total		2,066,859	65,000	10,043,705	10,108,705	490,000	1,520,000	9,376,000	3,685,000	27,246,564

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	573,464	65,000	1,104,812	1,169,812	490,000	297,500	256,000	58,000	2,844,776
Revenue Bonds	98,900		4,157,544	4,157,544		246,000	139,500		4,641,944
Proposed Revenue Bonds							2,417,700	467,000	2,884,700
State Grants	269,471		1,911,000	1,911,000					2,180,471
Proposed State Grants			2,870,349	2,870,349		976,500	6,562,800	2,580,000	12,989,649
Federal Grant	1,125,024								1,125,024
Local Improvement District								580,000	580,000
Total	2,066,859	65,000	10,043,705	10,108,705	490,000	1,520,000	9,376,000	3,685,000	27,246,564

Division: Water	Project Priority: 1	Project Number:
Project Title: Baranof Reservoir Replacement	Start Date: 10/07 End Date: 10/12	Estimated Project Cost:
Description: Construct replacement of the wooden reservoir located at the intersection of Jackson and Fairview Streets. Property acquisition was completed in 2007 and design of the reservoir followed in 2008. The site development is now complete and was financed through Group 2 of American Recovery & Reinvestment Act (ARRA) funding including \$1,101,532 of principal forgiveness. A SFY 2011 70% Municipal Matching Grant for construction was approved by the Governor and the Legislature for \$1.911 million. In addition, the division also has approval to make an application for the sale of revenue bonds through the State's low-interest SFY 2011 Drinking Water Loan program for up to another \$1.73 million which will provide sufficient funding for the reservoir's total estimated construction cost of about \$2.73 million. Construction will begin in early 2011 and be completed within eighteen months.		Design 150,000 Land/Right-of-Way 299,414 Construction Management Construction 3,641,000 Equipment Other 1,223,924 Project Total 5,314,338

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	299,414								299,414
ARRA Group 2 Funding (Site Preparation)	1,223,924								1,223,924
State Grant - SFY 2011			1,911,000	1,911,000					1,911,000
Revenue Bonds/Alaska Drinking Water Loan Fund			1,730,000	1,730,000					1,730,000
State Grant - Design - SFY09	150,000								150,000
Total	1,673,338		3,641,000	3,641,000					5,314,338

Division: Water	Project Priority: 2	Project Number:
Project Title: Jackson, 4th, & 7th Water Improvements	Start Date: 09/08 End Date: 10/11	Estimated Project Cost:
Description: In conjunction with the Wastewater Division, install 4,800 feet of 8 and 12-inch water main along Jackson Street between Fourth and the Monroe/ Lincoln Street intersection, along Fourth and Seventh Avenues to the Madison Street and College Avenue intersections (respectively), and along Monroe Street from Seventh Avenue to the Jackson Street intersection. A SFY 2011 Drinking Water Loan request for \$2,217,795 has been submitted for 100% of the cost. This is another segment of a multi-year program jointly developed by KPU and the General Government to replace substandard, defective utilities simultaneously whenever possible.		Design Land/Right-of-Way Construction Management 75,000 Construction 3,645,000 Equipment Other Project Total 3,720,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reapprop-riated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			75,000	75,000					75,000
Proposed State Grant			1,552,456	1,552,456					1,552,456
Revenue Bonds/Alaska Drinking Water Loan Fund			2,092,544	2,092,544					2,092,544
Total			3,720,000	3,720,000					3,720,000

Division: Water	Project Priority: 3	Project Number:
Project Title: Alaska Avenue Water Improvements	Start Date: 11/08 End Date: 11/11	Estimated Project Cost:
Description: Alaska Avenue's cast iron water main has been in service since 1969 and has failed at least six times between the Bryant and Tower intersections. The most recent failure in October 2008 occurred when a 3-inch x 12-inch piece of the cast iron main ruptured and hydraulically undermined the roadway. It also washed out a recently repaired homeowner's driveway that had been destroyed in a previous water main break at the same location. This water main has reached the end of its useful service life and if not replaced in a timely manner, further failures are imminent. This project will be a joint venture between Wastewater and Water Divisions. The water main will be replaced with corrosion-resistant, high-density polyethylene pipe. A SFY 2011 Drinking Water Loan request for \$1,275,781 has been submitted for 100% of the cost.		Design 11,578 Land/Right-of-Way Construction Management 75,000 Construction 1,882,705 Equipment Other Project Total 1,969,283

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappro- riated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund Proposed State Grant	11,578		639,812 1,317,893	639,812 1,317,893					651,390 1,317,893
Total	11,578		1,957,705	1,957,705					1,969,283

Division: Water	Project Priority: 4	Project Number:
Project Title: Water Distribution Grid Improvements	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: Each year the division has, in conjunction with the work of other agencies, unexpected opportunities to undertake repairs to improve the municipal water system. This account provides the funding for such improvements. In 2010, this account provided the funding for replacement of the buried portion of the water main, hydrant and valves in the City's Bayview Bridge project. Since Public Works had no other funding source available, this account also provided all of the necessary funding for the immediate replacement of the old cast-iron water service that had failed at the Ketchikan General Hospital.		Design Land/Right-of-Way Construction Management Construction 60,000 Equipment Other Project Total 60,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			60,000	60,000					60,000
Total			60,000	60,000					60,000

Division: Water	Project Priority: 5	Project Number:
Project Title: UV Facility Warehouse	Start Date: 01/11 End Date: 12/12	Estimated Project Cost:
Description: Site development for the UV Disinfection Facility Project on Schoenbar Road opened up far more property than was originally proposed. Once the overburden was stripped, substantially more rock was found than originally expected. Rather than simply dispose of the excess rock off-site, all of the underlying muskeg has been removed and replaced with shot rock for a minimal additional expense. This proposed 40' x 60' building will be used to store chemicals, equipment, and maintenance spare parts for the UV Facility along with the spare parts and chemicals used for pH adjustment. The feeders and pumps for pH adjustment are now located at the UV Facility building. The former pH Adjustment Building has been converted into a separate facility for ammonium hydroxide addition which will change our disinfection chemistry and reduce haloacetic acid formation.		Design 35,000 Land/Right-of-Way Construction Management Construction 300,000 Equipment Other Project Total 335,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reapprop-riated	New Funding	Total	2012	2013	2014	2015	
Revenue Bonds/Alaska Drinking Water Loan Fund				335,000	335,000					335,000
Total				335,000	335,000					335,000

Division: Water	Project Priority: 6	Project Number:
Project Title: Adams St. Water Improvements	Start Date: 01/11 End Date: 10/13	Estimated Project Cost:
Description: In conjunction with the Wastewater Division, install 150 feet of 6-inch main between 4th and 5th Avenues. The remainder of the Adams Street water main between Tongass and 1st Avenue was rebuilt in 1987. Another segment between 2nd and 3rd Avenues was replaced in 2001. This is another segment of a multi-year program jointly developed by KPU and the General Government to replace substandard, defective utilities simultaneously whenever possible. If the design is completed by July 2011, KPU and the Wastewater Division intend to submit an application in August 2011 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY13. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2012. If funding is approved, construction would begin in 2013.		Design 15,000 Land/Right-of-Way Construction Management Construction 110,000 Equipment Other Project Total 125,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund SFY 2013 70% Municipal Matching Grant			15,000	15,000		33,000 77,000			48,000 77,000
Total			15,000	15,000		110,000			125,000

Division: Water	Project Priority: 7	Project Number:
Project Title: Additional Projects	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This account provides for the cost of fire hydrants and other related materials, which are provided by the Utility in water line extensions and are then incorporated into the municipal water system. The Water Street Trestle No. 2 and the Hopkins Alley/Bauer Way projects should not require additional funding from KPU except for any buried main connections or services which are not grant eligible. This account would be the funding source if needed. This account also provides a source of funds for raising or replacing valve boxes in City streets when General Government repaving projects occur. Although specific streets have not yet been selected for asphalt paving in 2011, there will be paving next year.		Design Land/Right-of-Way Construction Management Construction Equipment Other Project Total
		40,000 40,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			40,000	40,000					40,000
Total			40,000	40,000					40,000

Division: Water	Project Priority: 8	Project Number:
Project Title: Water Service Upgrade Program	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: The water service upgrade program was initiated in 1997, in order to allow a number of residents to upgrade their individual water services. The division proposes to continue offering this program in 2011 and requests that the City Council authorize funding. Numerous water services, from the main to the residence, are in need of replacement to KPU standards. After completion of the work and inspection by KPU, this program allows the customer to provide cost documentation and receive a grant-in-aid. \$500 is available for work undertaken on private property and up to \$4,000 is available for work undertaken within the right-of-way. As a result of homeowners participating in the program, KPU will assume full responsibility for future repairs within the right-of-way as long as they are not caused by negligence by the property owner.		Design Land/Right-of-Way Construction Management Construction 30,000 Equipment Other Project Total 30,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			30,000	30,000					30,000
Total			30,000	30,000					30,000

Division: Water	Project Priority: 9	Project Number:
Project Title: Backflow Prevention Program	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This grant-in-aid program was established in 1995, in order to encourage businesses to install backflow preventers to help protect the municipal water system. The division proposes to continue offering this program in 2011 and requests that the City Council authorize funding. This program is part of ADEC's mandated cross-connection control regulations, which require the Utility to be responsible for system-wide protection. Until 2001, Ketchikan's lack of adoption and enforcement of the Uniform Plumbing Code allowed many substandard installations to be constructed within the community. These deficiencies are still being discovered and must be corrected by the property owner. Due to lesser interest by businesses this past year, the proposed 2011 Budget remains at the reduced amount of \$10,000.		Design Land/Right-of-Way Construction Management Construction 10,000 Equipment Other Project Total 10,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			10,000	10,000					10,000
Total			10,000	10,000					10,000

Division: Water	Project Priority: 10	Project Number:
Project Title: Sayles & Gorge Street Water	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This viaduct is in need of replacement also along with the utilities underneath. The Sayle & Gorge Viaduct has an estimated construction cost of \$1,280,000 and has been nominated for the 2012-2015 Statewide Transportation Improvement Program (STIP). Funding for the design at 6.5% of construction cost appears in both 2011 Water & Wastewater Budgets. If the design is completed by July 2011, KPU and the Wastewater Division intend to submit an application in August 2011 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY 2013. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2012. If funding is approved, construction would begin in 2013. Approximately 310' of the new 6-inch main will be buried and not eligible for being funded as part of the viaduct replacement. The buried water portion is estimated to cost \$125,000.		Design 40,000 Land/Right-of-Way Construction Management Construction 125,000 Equipment Other Project Total 165,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund SFY 2013 70% Municipal Matching Grant			40,000	40,000		37,500 87,500			77,500 87,500
Total			40,000	40,000		125,000			165,000

Division: Water	Project Priority: 11	Project Number:
Project Title: Dunton St. Viaduct Rebuild & Utilities	Start Date: 01/11 End Date: 12/13	Estimated Project Cost:
Description: This viaduct is in need of replacement along with the utilities underneath. The Dunton Viaduct has an estimated construction cost of \$4,200,000 and has been nominated for the 2012-2015 Statewide Transportation Improvement Program (STIP). Funding for the design at 6.5% of construction cost appears in both 2011 Water & Wastewater Budgets. If the design is completed by July 2011, KPU and the Wastewater Division intend to submit an application in August 2011 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY 2013. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2012. If funding is approved, construction would begin in 2013. Approximately 295' of the new 6-inch main will be buried and not eligible for being funded as part of the viaduct replacement. The buried water portion is estimated to cost \$120,000.		Design 75,000 Land/Right-of-Way Construction Management Construction 120,000 Equipment Other Project Total 195,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund SFY 2014 70% Municipal Matching Grant			75,000	75,000		36,000 84,000			111,000 84,000
Total			75,000	75,000		120,000			195,000

Division: Water	Project Priority: 12	Project Number:
Project Title: Vehicles and Moving Equipment	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: Purchased in 1999, Service Truck 38 is worn out and rusty to the extent that the floor boards have holes in them. Rather than replace it with another heavy-duty service truck equipped with all the tools and a crane hoist, it is more cost effective to just purchase a small pickup truck similar to the ones used by the other divisions. It would only be equipped with minimal tools and be assigned tasks that are more related to customer service and routine daily preventative maintenance at the pump stations and disinfection plants. Electric's Service Truck 19, which was loaned for Water's usage when daily hydrant flushing was required to reduce haloacetic acid disinfection byproducts, will also be retired and surplus.		Design Land/Right-of-Way Construction Management Construction Equipment 35,000 Other Project Total 35,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund				35,000	35,000					35,000
Total				35,000	35,000					35,000

Division: Water		Project Priority: 13			Project Number:				
Project Title: 1st Ave. & Jefferson Water Improvements		Start Date: 1/11			Estimated Project Cost:				
Description:		End Date: 12/13			Design 25,000				
<p>In conjunction with the Wastewater Division, install 260 feet of 6-inch water main along First Avenue between Madison to Jefferson and beyond. This is another segment of a multi-year program jointly developed by KPU and the General Government to replace substandard, defective utilities simultaneously whenever possible. KPU and the Wastewater Division intend to submit an application in August 2011 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY13. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2012. Design would need to be completed in early 2011 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2013.</p>					Land/Right-of-Way				
					Construction Management				
					Construction 120,000				
					Equipment				
					Other				
					Project Total 145,000				
Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund 70% State Grant - Proposed - SFY 13			25,000	25,000		36,000 84,000			61,000 84,000
Total			25,000	25,000		120,000			145,000

Division: Water	Project Priority: 14	Project Number:
Project Title: Schoenbar Road Water Improvements	Start Date: 01/11 End Date: 12/13	Estimated Project Cost:
Description: The Wastewater Division intends to replace the sewers along Schoenbar Road between the easterly intersection of Fairy Chasm and Park Avenue. Although some of the water mains have been replaced earlier, this project will allow 1,200 feet of undersized cast-iron mains to be replaced between Valley Forge and Schoenbar Trail intersections. The Schoenbar Road water main is the primary route from the Bear Valley Reservoir to Stedman Street. The expanding fish processing industries located along Stedman Street are consuming more water every year and supplying the fish processors is beginning to tax the ability of the Utility to supply their needs. KPU and the Wastewater Division intend to submit an application in August 2011 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY13 followed by a Drinking Water Loan request in February 2012. Design would need to be completed in early 2011 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2013.		Pre Design 60,000 Land/Right-of-Way Construction Management Construction 820,000 Equipment Other Project Total 880,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			60,000	60,000					60,000
State Grant - Proposed - SFY 13						574,000			574,000
Revenue Bonds/Alaska Drinking Water Loan Fund						246,000			246,000
Total			60,000	60,000		820,000			880,000

Division: Water	Project Priority: 15	Project Number:
Project Title: Creek Street Water/Sewer Replacement	Start Date: 01/11 End Date: 12/11	Estimated Project Cost:
Description: This project will involve Public Works and KPU rebuilding the support timbers of the wooden street, wooden walkways, and the complete replacement of the water and sewer utilities located beneath Creek St. The urgency of this project was demonstrated when several hangers supporting the sewer line failed in 2005, releasing raw, untreated sewage into Ketchikan Creek and Thomas Basin. Since all work must be completed before the tourist season begins, only 200-feet will be replaced next year along the Creek beginning at the Stedman Street Bridge. This is another segment of a multi-year program jointly developed by KPU and General Government to replace substandard, defective utilities simultaneously wherever possible and is an excellent opportunity to replace the existing ductile iron water main installed in 1976 with modern, non-corrodible polyethylene pipe.	Pre Design	5,000
	Land/Right-of-Way	
	Construction Management	
	Construction	60,000
	Equipment	
Other		
Project Total		65,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund			65,000		65,000					65,000
Total			65,000		65,000					65,000

Division: Water	Project Priority: 16	Project Number:
Project Title: Water Street Trestle No. 2 - Utility Replacement	Start Date: 01/10 End Date: 12/12	Estimated Project Cost:
Description: Construction in 2012 of the replacement for Water Street's Trestle No. 2 will also replace both the water and sewer mains located beneath the 1,000-foot long trestle. The design is already in progress including replacement of the utilities hung beneath the trestle. The Water Division will not be expected to fund the exposed portion of the replacement water main. As was experienced with the Bayview Trestle in 2010, the buried portion of the water main and services will not be grant eligible and will be funded from this account.		Pre Design Land/Right-of-Way Construction Management Construction 100,000 Equipment Other Project Total 100,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund						100,000				100,000
Total						100,000				100,000

Division: Water	Project Priority: 17	Project Number:
Project Title: Lund & Millar Water Improvements	Start Date: 01/12 End Date: 12/14	Estimated Project Cost:
Description: These streets are in serious need of repair along with replacement of the utilities beneath. Funding for the design appears in both 2012 Water & Wastewater Budgets. Each Utility is to share the design costs equally at \$100,000 each. If the design is completed by July 2012, KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY 2014. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. If funding is approved, construction would begin in 2014.		Design 100,000 Land/Right-of-Way Construction Management Construction Equipment Other Project Total 100,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund						100,000				100,000
Total						100,000				100,000

Division: Water		Project Priority: 18			Project Number:				
Project Title: Mill Street Water Improvements		Start Date: 01/12			Estimated Project Cost:				
Description:		End Date: 06/15			Design 75,000				
<p>The entire length of Mill Street is in need of replacement along with the utilities underneath. Replacement of Mill Street and the utilities underneath has an estimated construction cost of \$6,000,000 and has been nominated for the 2012-2015 Statewide Transportation Improvement Program (STIP). Funding for the design appears in both 2012 Water & Wastewater Budgets. Each Utility is to share the design costs equally at \$75,000 each. If the design is completed by July 2012, KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY 2014. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. If funding is approved, construction would begin in 2014 and continue into 2015.</p>					Land/Right-of-Way				
					Construction Management				
					Construction 6,000,000				
					Equipment				
					Other				
					Project Total 6,075,000				
Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund					75,000				75,000
SFY 2014 70% Municipal Matching Grant							4,200,000		4,200,000
Proposed Revenue Bond							1,800,000		1,800,000
Total					75,000		6,000,000		6,075,000

Division: Water	Project Priority: 19	Project Number:
Project Title: Austin Street Water Replacement	Start Date: 01/12 End Date: 12/14	Estimated Project Cost:
Description: This project is driven primarily by the immediate need to replace the leaking and collapsing municipal sewers beneath this street. Excavation to replace the substandard side sewers will also be necessary, which will destroy most of the existing asphalt pavement. Consequently, this is an ideal time to simultaneously replace the failure-prone, brittle, cast-iron water mains. As a joint project, General Government and KPU will share equally in the pavement restoration costs. In conjunction with the Wastewater Division, this project will replace both water and sewer mains in a three-block segment of Austin Street between Tongass and Third Avenues. KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY14. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. Design must be completed by July 2012 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2014.		Design 60,000 Land/Right-of-Way Construction Management Construction 465,000 Equipment Other Project Total 525,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 11 Revenue Bonds/Alaska Drinking Water Loan Fund					60,000		325,500 139,500		60,000 325,500 139,500
Total					60,000		465,000		525,000

Division: Water	Project Priority: 20	Project Number:
Project Title: Buren Road Water Improvements	Start Date: 01/12 End Date: 12/14	Estimated Project Cost:
Description: In conjunction with the Wastewater Division, install 300 feet of 6-inch water main between Baranof and Alaska Avenues. This is another segment of a multi-year program jointly developed by KPU and General Government to replace substandard, defective utilities simultaneously whenever possible. KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY14. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. The design would need to be completed in early 2012 to obtain maximum scoring points on the funding applications. If approved, construction would start as early as the summer of 2014.		Design 35,000 Land/Right-of-Way Construction Management Construction 135,000 Equipment Other Project Total 170,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 14					35,000		40,500 94,500		75,500 94,500
Total					35,000		135,000		170,000

Division: Water	Project Priority: 21	Project Number:
Project Title: Denali Street Water Improvements	Start Date: 01/12 End Date: 12/14	Estimated Project Cost:
Description: In conjunction with the Wastewater Division, install 650 feet of 6-inch water main along Denali Avenue between Tower to Hill Road. This is another segment of a multi-year program jointly developed by KPU and the General Government to replace substandard, defective utilities simultaneously wherever possible. KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY14. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. Design would need to be completed by July 2012 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2014.		Design 35,000 Land/Right-of-Way Construction Management Construction 295,000 Equipment Other Project Total 330,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 14					35,000		88,500 206,500		123,500 206,500
Total					35,000		295,000		330,000

Division: Water	Project Priority: 22	Project Number:
Project Title: Harris Street Water Replacement	Start Date: 01/12 End Date: 12/14	Estimated Project Cost:
Description: In conjunction with the Wastewater Division, install 880 feet of 6-inch water main along Harris Street. This is another segment of a multi-year program jointly developed by KPU and the General Government to replace substandard, defective utilities simultaneously whenever possible. KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY14. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. Design would need to be completed in early 2012 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2014.		Design 45,000 Land/Right-of-Way Construction Management Construction 422,000 Equipment Other Project Total 467,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 14					45,000		127,000 295,000		172,000 295,000
Total					45,000		422,000		467,000

Division: Water	Project Priority: 23	Project Number:	
Project Title: Shoreline Water Extension - Phase I	Start Date: 08/03	Estimated Project Cost:	
Description:	End Date: 12/18	Design 381,943	
<p>This infrastructure project is a multi-year project that will extend water and sewer utilities into the former Shoreline Service Area (SSA) that was previously annexed into the City Limits. The design was completed in 2006. Funding for this project will be a challenge requiring participation by the SSA property owners to form a LID for 15% of the cost. Given the massive capital requirement, this is a long-term project that will take several years just to get the funding in place. In 2007 dollars, the water main to Shoreline is estimated to be \$3.49 million and the water mains within the service area another \$18.1 million. KPU and General Government will begin submitting applications in August 2013 for the extension to Shoreline Drive under ADEC's 70% Municipal Matching Grant program. Ballot propositions in October 2013 would include acceptance of the loans and formation of the LID. If approved, construction for the extension to Shoreline Drive would start in 2014. Subsequent grant and loan requests would be made beginning in 2015 until the construction project is funded.</p>		Land/Right-of-Way	
			Construction Management
			Construction 3,490,000
			Equipment
			Other
		Project Total 3,871,943	

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund	262,472								262,472
State Grant - Proposed - SFY 15								2,443,000	2,443,000
Proposed Revenue Bond								467,000	467,000
Shoreline Service Area LID (15%)								580,000	580,000
State Grant - Awarded - #48184	119,471								119,471
Total	381,943							3,490,000	3,871,943

Division: Water	Project Priority: 24	Project Number:
Project Title: Highlands Reservoir Replacement	Start Date: 01/12 End Date: 12/18	Estimated Project Cost:
Description: Construct a modern replacement for the wooden reservoir located on the northerly slope above the intersection of Forest Avenue and the Third Avenue Extension. The existing reservoir is too small to provide adequate fire protection for the State Jail and adjacent residential area that the reservoir serves. Ketchikan is located in Seismic Zone 3 (major damage). This type of wooden reservoir will not survive a significant earthquake, nor can it be economically retrofitted with additional shear protection. Additional property at the site needs to be acquired and a large, modern 650,000 gallon reservoir constructed. KPU intends to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY14 followed by a Drinking Water Loan request in February 2013. Design of the project to obtain maximum scoring points on the funding applications would begin in 2012 to determine the amount of property required. If approved, property would be purchased by 2015 and construction would start in about 2018.		Pre Design 100,000 Land/Right-of-Way Construction Management Construction Equipment Other Project Total 100,000

Source of Funds	Prior Years	Adopted 2011			Projected Requirements				Total Project
		Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund						100,000			100,000
Total						100,000			100,000

Division: Water	Project Priority: 25	Project Number:
Project Title: Woodland Ave. Water Improvements	Start Date: 01/13 End Date: 12/15	Estimated Project Cost:
Description: The Wastewater Division intends to replace all of the sewer along Woodland Avenue between Deermount Street and Park Avenue. Although the wood-stave half of Woodland's water main was replaced in 1988, this project will allow the remaining 420 feet of undersized cast-iron mains to be replaced between the Nickey Way and Deermount Street intersections. This is another segment of a multi-year program jointly developed by KPU and the General Government to replace substandard, defective utilities simultaneously whenever possible. KPU and the Wastewater Division intend to submit an application in August 2013 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY15. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2014. Design would need to be completed in early 2013 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2015.		Pre Design 25,000 Land/Right-of-Way Construction Management Construction 195,000 Equipment Other Project Total 220,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappro- priated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 15							25,000		58,000 137,000	83,000 137,000
Total							25,000		195,000	220,000

Division: Water	Project Priority: 26	Project Number:
Project Title: Tongass Ave. Water - Phase III	Start Date: 01/12 End Date: 12/14	Estimated Project Cost:
Description: In conjunction with General Government, replace both the water and sewer mains within Tongass Avenue between Madison and First Avenue. The existing water main will be replaced with corrosion-resistant, high-density polyethylene pipe. This is the third segment in Tongass Avenue of a multi-year program jointly developed by KPU and General Government to replace substandard, defective utilities simultaneously wherever possible. KPU and the Wastewater Division intend to submit an application in August 2012 under ADEC's 70% Municipal Matching Grant program requesting funds in SFY14. The remaining funds would be obtained through a Drinking Water & Clean Water Loan request submitted in February 2013. The remaining portion of the design would need to be completed in early 2012 to obtain maximum scoring points on the funding applications. If approved, construction would start in 2014.		Pre Design 40,000 Land/Right-of-Way Construction Management Construction 2,059,000 Equipment Other Project Total 2,099,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 14 Proposed Revenue Bond						40,000		1,441,300 617,700		40,000 1,441,300 617,700
Total						40,000		2,059,000		2,099,000

Division: Water	Project Priority: 27	Project Number:
Project Title: Confidence Reservoir Replacement	Start Date: 01/13 End Date: 12/13	Estimated Project Cost:
Description: In the 1998 Comprehensive Plan, the cost of replacing the Confidence Zone Reservoir is estimated (in 1998 dollars) to cost \$2.94 million dollars. The area that it serves was originally expected to be a commercial zone (3,500 gpm for 4 hours fire fighting). Instead, it has become primarily a residential zone. Before investing significant amounts of money in a new reservoir, the sizing needs to be thoroughly investigated before design commences and suitable property acquired. The existing 21,380 gallon bolted steel reservoir was installed in 1992 as a temporary expedient planned to serve only the Solid Waste Handling Facility. Instead, this has become Ketchikan's fastest growing residential area. The division intends to submit an application in August 2012 (SFY 2014) under the 70% Municipal Matching Grant program requesting design funds for the proper size reservoir. If approved, funds would be released in summer 2013 and design would begin.		Pre Design 100,000 Land/Right-of-Way Construction Management Construction Equipment Other Project Total 100,000

Source of Funds	Fund No.	Prior Years	Adopted 2011			Projected Requirements				Total Project
			Reappropriated	New Funding	Total	2012	2013	2014	2015	
Revenue Generating Fund State Grant - Proposed - SFY 12							30,000 70,000			30,000 70,000
Total							100,000			100,000