2017 - 2021 Financial Plan

Presentation – February 23, 2017



- 2015 03 to 2016 09 the Intergroup completed a Utility Rate Review
- Looked at Electric, Sanitary Sewer and Water
- Work done with assistance from City staff, a Focus Group and Public Consultation
- The work lead to the adoption of 5 year Utility Rates (2016 2020) into the Fees and Charges Bylaw



The New Utility Rates:

- Move the City Utility Rates toward sustainability;
- Will need to revisit Utility Rates in 2018 to address Asset Management Investment requirements;
- Adjusted the distribution of Administration Charges:
 - Reduced for Electric;
 - Increased for Water; and
 - Increased for Sanitary Sewer.



The New Utility Rates:

- Electric Dividend made consistent with the industry, based on 7% of net book value of the electrical assets;
- Shifted costs, based on a cost of service analysis:
 - Electrical cost shift from commercial / industrial to residential;
 - Water cost shift from commercial / industrial to residential; and
 - Sanitary sewer shift from residential to commercial / industrial;
- Adjustments to Administration Charges, Electric Dividend and cost of service shifts are phased in over a five year period;



The New Utility Rates:

- Created a new rate structure for sanitary sewer consistent with that used in other locations, based on water use not the number of fixtures, land and property values;
- The new sanitary sewer rate has:
 - A fixed component applied during the summer months (April to September);
 - A variable component based on water used during the winter months (October to March)
 - Mechanism for commercial establishments to apply for a reduction if they meet certain criteria.
- Moved to monthly billing for all Utilities



For 2017 Rates are estimated to increase as follows:

	Estimated Average Monthly Increase 2016 to 2017							
	Large Commercia							
Utility	Residential	Sm	all Commercial		Industrial			
Electrical	\$ 5.00	\$	9.00	\$	81.00			
Sanitary Sewer	\$ -	\$	50.00	-\$	79.00			
Water	\$ 5.00	\$	22.00	\$	64.00			
TOTAL	\$ 10.00	\$	81.00	\$	66.00			

Notes: Source Intergroup Consultants 2015 11 Report Electric and Water

Source Intergroup Consultants 2017 02 Email Sanitary



Questions



Financial Plan Reporting Structure

		Ger							
General Government	Protective Services	Transportation Services	Environmental Health Services	Public Health and Safety	Environmental Development Services	Recreation and Culture	Electrical Supply	Sewer System	Water Utility
Corporate Administration	Dog Control	Fleet	Solid Waste Management	Cemetery	Development Services	Recreation	Electrical Supply	AWWTP	WTP
Finance	Building and License	Roads and Maintenance Storm Sewer			Development Engineering	Museum		Sewer Collection	Water Distribution
Procurement	Bylaw Enforcement	Street Lighting			Land Management	Parks		Engineering	Engineering
Revenue & Collections	RCMP	Traffic Control			Planning	SOEC			
General Government	Fire Services	Transit			Engineering	Library			
Communications					Economic Development Tourism				
Human Resources									
Information Technology									
Mayor and Council									
Municipal Grants									
Facilities					Public Works	Engineering	Electric	Developm	ent Services
CITY OF									

Electrical Supply: Electrical





Overview

Electrical Supply Electrical

 The Electric Department is responsible for providing safe, efficient, and reliable electrical service to residential, commercial and industrial customers within the municipal boundaries of the City of Penticton

17,373 active customer accounts 4 substations feeding 17 distribution circuits 3,999 power poles (3,061 wood, 938 Steel) 2,719 Distribution Transformers272 kms of overhead power lines86 kms of Underground cables



Staffing

Electrical Supply Electrical

<u>2015</u>	<u>2016</u>	<u>2017</u>
15	15	15



2017 Highlights

Electrical Supply Electrical

		% change	Trend
Total Expense	35,674,020		1
Total Revenues	42,040,580		1
Total Internal Allocation	in 2,075,116 out 11,400		•
Net Operating Surplus	4,302,844	-42.9%	·
Capital	3,715,085		



2017 Budget

Electrical Supply Electrical

Expenses	2016 Budget	2016 Forecast	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Goods and Services	29,162,260	27,210,890	34,212,174	34,313,869	34,634,089	36,780,238	39,060,184
Fleet	63,494	_	51,895	51,895	51,895	51,895	51,895
Salaries and Benefits	1,460,854	1,349,114	1,409,951	1,438,435	1,467,528	1,497,249	1,527,620
Revenues	(40,967,152)	(38,295,178)	(42,040,580)	(43,581,176)	(45,191,504)	(46,851,877)	(48,573,329)
Internal Allocation In	2,241,873	2,212,164	2,075,116	1,888,230	1,709,949	1,528,633	1,482,522
Internal Allocation Out	<u>(11,400)</u>	<u>(10,539)</u>	(11,400)	(11,717)	(12,043)	(12,378)	(12,723)
Net Operating Surplus	(8,050,071)	(7,533,549)	(4,302,844)	(5,900,464)	(7,340,086)	(7,006,240)	(6,463,831)



Electrical Supply Electrical

Description	2017 Budget	Comments
Non-Discretionary	209,600	New Services, Road Projects, Emergency Replacement of Failed Equipment and Legislated Compliance
Sustainment	3,115,485	Distribution System Rebuild, System Planning and Planned Upgrades
Enhancement	270,000	SCADA, Reliability & Power Quality Improvements
Expansion	60,000	Peak Shaving & Renewable Energy studies
Departmental Tools	60,000	Capital Tool Replacements
Total	3,715,085	



Electrical Supply Electrical

2017 Capital Budget

Non-Discretionary						
Description	2017 Budget	Comments				
New Services & Service Upgrades	49,600	\$350,400k of new connections paid for by customers				
New UG Subdivisions	-	\$100k paid for by developers				
City Road Projects	100,000	New UG electrical infrastructure during road reconstruction				
Emergency Replacement	60,000	Unplanned replacements of failed equipment				
Total	209,600	\$660k Gross w/ \$450.4k Contributions				



Electrical Supply Electrical

Sustainment								
Description	2017 Budget	Comments						
Distribution System Rebuild	1,200,485	Pole & #6 Copper Replacements, Voltage Conversion & AMR						
Substation Rebuild	1,725,000	Carmi Substation re-build						
System Planning & System Upgrades	<u>190,000</u>	Cap. Replacement of aged equipment, Digital Radios & GIS						
Total	3,115,485							



Electrical Supply Electrical

2017 Capital Budget

Enhancement							
Description	2017 Budget	Comments					
SCADA	130,000	Install Faulted circuit indicators & Implement fixed meter reads vs. drive-by					
Reliability Improvements	100,000	Replacement of Load Break Switches & Conductor Size Upgrades					
Power Quality Improvements	40,000	Power factor improvement initiatives					
Total	270,000						



Electrical Supply Electrical

Summary

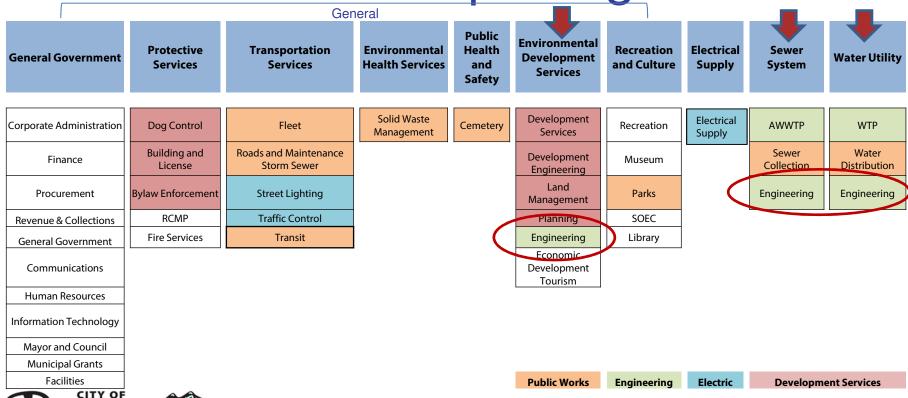
- Increase in expense mainly covers the cost of energy and Carmi substation; internal allocations for admin costs have decreased slightly
- Planned capital expense \$3,715,085 primarily for the Carmi substation and the voltage conversion program



Questions



Financial Plan Reporting Structure



Environmental Development Services:

Engineering





Environmental Development Services Engineering

2016

- \$7.6M invested during 2016 in new and replacement infrastructure projects including:
 - \$3.95M in Downtown Revitalization.
 - \$2.7M in water main, sewer, storm and road infrastructure upgrades including SOEC parking lot and Brandon Avenue Oxbow restoration.
- Also commenced Asset Management and GIS systems to improve infrastructure investment/planning.



Environmental Development Services Engineering

2017

• Planning to spend \$7.3M during 2017 and maintain level of investment during following years.







Environmental Development Services Engineering

Project description	Budget	Water	Source General	Sewer	Comments
GIS & Asset Management Plan Support	10,000	10,000	-	-	Develop tools to improve GIS functionality for newly created water GIS system
Orchard Avenue road, drainage & water design	60,000	30,000	30,000	-	Design and replace water main, install new storm sewers, and make intersection improvements at Eckhardt Ave, Orchard Ave, and Caribou Street intersection
Woodstock Road upgrade	150,000		150,000		Replacement saving fund to replace Woodstock Road in 2020 (\$400,000 in Bank after 2017, 2020 \$1,000,000 Capital Project)
Timmins Street road, drainage & water upgrades	955,000*	260,000	509,000 55,000*	131,000	Replace water main, install new storm drainage works, new curb and gutter, and new asphalt roadway. * Also includes \$55,000 from Developer
Pre-Design of Water Projects	45,000	45,000			Design projects for 2018
100mm Water Main Replacements	1,145,000	930,000		215,000	Replace water mains and do sanitary sewer repairs on Nelson Avenue from Main St to Government Street and Forestbrook Avenue from Manitoba St to Government St. Scott Avenue from Moosejaw St to Argyle St



Environmental Development Services Engineering

Project description	Budget	Water	Source General	Sewer	Comments
PZ 555 Carmi Reservoir Expansion	1,500,000*	1,500,000*		-	A storage expansion of Carmi Reservoir is required to address a capacity issue for fire flow storage requirements. * Source is debt financing. Note that an application for grant funding had been made.
Industrial Area Fire Flow Improvements	9,000	9,000			Change valve arrangement Warren Avenue and Camrose Street to improve Industrial Area fire flows.
Ridgedale Avenue water and sewer main upgrades	1,760,000*	1,302,521 237,479*		220,000	Replacement of aging water main, installation of new direct feed main to Ridgedale Reservoir and replacement of old sanitary sewer infrastructure within road corridor. Includes bypass of failing isolation valve at Duncan reservoir. * Includes \$237,479 from DCC funding.
Aging sewer main upgrades	605,000			605,000	Replacement of aging AC sanitary sewer in Ridgedale area concurrently with utility work on Ridgedale Avenue.
North Penticton Interceptor	50,000			50,000	Design of new main servicing north end of the City.



Environmental Development Services Engineering

Project description	Budget	Source Water General Sewer			Comments
Sanitary Sewer Upsizing	100,000			100,000	Fund additional costs to upsize sewer infrastructure for future servicing needs beyond that needed for a specific development
Lawrence Avenue Storm Diversion	100,000		100,000		Install storm sewer on Lawrence Avenue to alleviate capacity issues in the storm drainage system concurrent with Columbia School traffic calming.
Point Intersection and Galt Avenue Design	85,000	35,000	15,000	35,000	Design of Point Intersection and Galt Avenue to alleviate congestion and traffic issues at the Kinney Avenue, South Main, and Skaha Lake Road Point Intersection. (construct in 2020)
Traffic Warrants	20,000		20,000		Consulting to review various traffic change / complaints from the Transportation Safety Policy received throughout the year
Traffic Calming	160,000		160,000		Columbia School – Continuation of the City's traffic calming program in school zones



Environmental Development Services Engineering

Project description	Budget	Water	Source General	Sewer	Comments
Intersection Improvements	42,500		42,500		Make minor improvements to intersections that are have non-standard line markings and improve safety
Penticton Creek Restoration	500,000*		250,000 250,000*		Construct next section of Penticton Creek Restoration as defined by the Penticton Creek Master Plan. * Includes \$250,000 Grant.
Sub-total	7,296,500	4,359,000	1,581,500	1,356,000	Includes \$2,042,479 funded from other sources.
Funded by other sources	-2,042,479	<u>-1,737,479</u>	<u>-305,000</u>		
Total Capital	5,254,021	2,621,521	1,276,500	1,356,000	



Questions



Financial Plan Reporting Structure

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Procurement	Bylaw Enforcement	Street Lighting			Land Management	Parks	\	Engineering	Engineering
Revenue & Collections	RCMP	Traffic Control			Planning	SOEC			
General Government	Fire Services	Transit			Engineering	Library			
Communications					Economic Development Tourism				
Human Resources									
Information Technology									
Mayor and Council									
Municipal Grants									
Facilities					Public Works	Engineering	Electric	Developm	ent Services

Financial Plan Reporting Structure

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CITY OF									

Overview

Sewer Utility Advanced Waste Water Treatment Plant

 Our primary purpose is to receive and treat waste water and dispose of treated effluent and bio-solids

> 2015 2016 2017 11 FTE 11 FTE 11 FTE

3.8 Billion litres of waste water treated

Processed 6.45 million kg of bio solids, approx. 190kg per person

633 Million litres of treated effluent used to irrigate sports fields and a golf course





2017 Highlights

Sewer Utility Advanced Waste Water Treatment Plant

		% change	Trend
Total Expense	2,071,527		1
Total Revenue	5,418,890		♣
Net Operating Surplus	3,347,363	-25.5%	
Capital	640,000		



2017 Budget

Sewer Utility Advanced Waste Water Treatment Plant

Expenses	2016 Budget	2016 Forecast	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
AWWTP	1,621,502	1,477,705	1,869,024	1,767,715	1,690,291	1,920,079	1,934,795
Pumps, Stations & Sewers	109,027	105,737	124,507	129,106	132,674	136,268	139,116
Septage	33,738	28,450	47,996	33,827	35,080	35,460	36,346
Parks	-	-	30,000	33,900	38,985	44,833	46,000
Asset Management Plan	-	-	-	-	-	-	50,000
Revenue	(6,135,983)	(6,102,328)	(5,418,890)	(5,931,723	(6,487,348)	(6,959,953)	(6,977,442)
Net Operating Surplus	(4,371,716)	(4,490,436)	(3,347,363)	(3,967,175)	(4,590,318)	(4,823,313)	(4,771,185)



Sewer Utility Advanced Waste Water Treatment Plant

Project description	Budget	Source	Comments
Bio-Reactor Upgrades	35,000	Sewer Fund	Complete Bio-Reactor Upgrades that were deferred in 2016. \$390K CF from 2016.
Reclaimed Water Intermediate Pump – North Irrigation System	20,000	Sewer Fund	Existing pumps are not properly sized due to changing demands. New pump is required to address varying flow demands and to provide reliable service.
UV Building Crane	25,000	Sewer Fund	New building crane to eliminate safety issues associated in moving heavy equipment.
Density Meters	65,000	Sewer Fund	Two new meters required for plant operations
Security CCTV Upgrades	30,000	Sewer Fund	Expand and upgrade existing security systems to help mitigate and increase in trespassing and theft
Lift Station Equipment	30,000	Sewer Fund	Non-destructive testing to determine and prioritize replacement of unreliable and aging lift station equipment.



Sewer Utility Advanced Waste Water Treatment Plant

Project description	Budget	Source	Comments
SCADA Wonderware Upgrades	60,000	Sewer Fund	Upgrade SCADA to increase plant efficiencies.
Fermenter Pump Replacement	85,000	Sewer Fund	Replace undersized fermenter pumps to eliminate capacity limitations.
Reclaimed Irrigation Water Reservoir	70,000	Sewer Fund	Convert unused tanks to store reclaimed irrigation water to meet demands that are now exceeding capacity at peak usage times.
Roof Replacement	160,000	Sewer Fund	Replacement of 5 remaining roofs on existing AWWTP buildings.
DAF Pump Upgrade	60,000	Sewer Fund	Upgrade with new high efficiency technology to reduce operational costs.
Total	640,000		



Questions



Financial Plan Reporting Structure

		Gen	eral	_					
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Human Resources									
Information Technology									
Mayor and Council									
Municipal Grants									
Facilities CITY OF					Public Works	Engineering	Electric	Developm	ent Services



Sewer Utility: Sewer Collection





Sewer Utility Sewer Collection

Overview

 Maintenance of sewer collection systems and the operation of a bio-solids compost facility.

171 kms of Sanitary Sewer Pipe with 8,500 service connections

5.4 kms of Sewer effluent irrigation pipe 4,000 cubic meters of finished compost / year



Highlights

Sewer Utility Sewer Collection

		% change	Trend
Net Operating Expense	655,857	3.5%	
Capital	50,000		



2017 Budget

Sewer Utility Sewer Collection System

Expenses	2016 Budget	2016 Forecast	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Sewer Operations	345,800	346,850	360,407	363,217	366,339	369,522	372,770
Compost Operations	283,000	252,700	271,700	271,980	272,266	272,557	272,854
Support Services	42,300	44,250	<u>38,750</u>	<u>39,010</u>	<u>39,275</u>	<u>39,546</u>	<u>39,822</u>
Total Operating Expense	671,100	643,800	670,857	674,207	677,879	681,625	685,445
Compost Sales	(15,000)	(10,000)	(15,000)	(15,000)	(15,000)	(15,000)	(15,000)
Net Operating expense	656,100	633,800	655,857	659,207	662,879	666,625	670,445



2017 Capital Budget

Sewer Utility Sewer Collection

Project description	Budget	Comments
Compost Site Improvements	50,000	Work with the RDOS to implement a leachate control system for the Compost Facility.



Summary

Sewer Utility Sewer Collection

 Planned Capital Expense \$50,000 for Compost Site improvements



Questions



Financial Plan Reporting Structure

		Ger	ieral						
General Government	Protective Services	Transportation Services	Environmental Health Services	Public Health and Safety	Environmental Development Services	Recreation and Culture	Electrical Supply	Sewer System	Water Utility
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Mayor and Council									
Municipal Grants									
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CITY OF									

Financial Plan Reporting Structure

		Ger	neral						
General Government	Protective Services	Transportation Services	Environmental Health Services	Public Health and Safety	Environmental Development Services	Recreation and Culture	Electrical Supply	Sewer System	Water Utility
1									
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Overview

Water Utility Water Treatment Plant

 Our primary purpose is to treat raw water for domestic consumption.

2015	2016	2017
7	8	8

Operates water treatment plant, 6 reservoirs and 5 pump stations
Treated 6.3 billion litres of lake water
Treated 302 million litres of creek water

Average day demand was 528 litres per person per day
Peak summer demand was 1,063 litres per person per day



2017 Highlights

Water Utility Water Treatment Plant

		% change	Trend
Total Expense	1,555,387		1
Total Revenue	8,050,014		1
Net Operating Surplus	6,494,627	14.7%	
Capital	258,500		



2017 Budget

Water Utility Water Treatment Plant

Expenses	2016 Budget	2016 Forecast	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
WTP	1,121,504	1,025,603	1,040,875	1,058,452	1,088,761	1,091,361	1,107,260
Pump Stations	271,783	284,266	280,017	304,069	328,668	336,738	346,626
Reservoirs and Warren Ave well	45,479	41,014	46,194	47,716	49,390	50,215	51,171
Conservation & Cross Connection	107,318	96,756	106,977	108,156	109,359	110,586	111,838
Parks	55,000	55,000	31,325	34,041	36,879	39,841	42,935
Drought Management Plan	-	-	50,000	-	-	-	-
Revenue	(7,164,766)	(7,164,766)	(8,050,014)	(8,451,584)	(8,903,307)	(9,379,530)	(9,997,579)
Net Operating Surplus	(5,563,682)	(5,662,126)	(6,494,627)	(6,899,149)	(7,290,250)	(7,750,789)	(8,337,749)



2017 Capital Budget

Water Utility Water Treatment Plant

Project description	Budget	Comments
Water Treatment Plant Optimization	40,000	Improve plant efficiency through consideration of operational and process changes and upgrading equipment incorporating latest technology.
Upgrade PLC Equipment	40,000	Replace obsolete and unsupported PLC modules that automate and control plant operation – final year of 4 year programme.
Warren Ave Well roof replacement	12,000	Replace failing roof for the building over the Warren Avenue well.
WTP Equipment Replacement	35,000	Replace or rebuild aging equipment at the treatment plant or pump stations. 2017 projects include chlorine analysers and Rotork valves.
Okanagan Lake Pump Station Electrical Upgrades	100,000	Replace electrical equipment in the Okanagan Lake Pump Station in 2022. \$100,000 a year until the necessary \$700,000 is saved.
Security Systems	7,500	Upgrade the security equipment at the water treatment plant.



2017 Capital Budget

Water Utility Water Treatment Plant

Project description	Budget	Comments
WTP Gate Installation	<u>24,000</u>	Install a gate to allow for process changes within the plant to optimize operations in the winter months for cost savings on power and chemicals and to reduce wear on equipment.
Total	258,500	



Questions



Financial Plan Reporting Structure

		Ger	neral	-					
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CITY OF									

Water Utility: Water Distribution





Overview

Water Utility Water Distribution

• Maintenance of dams and water distribution systems

192 kms of Domestic Water Pipe 33 kms of Agricultural Irrigation water mains with 350 connections 8,653 Water Meters
985 Fire Hydrants
6 in-service dams & 6 out of service dams



2017 Highlights

Water Utility Water Distribution

		% change	Trend
Net Operating Expense	722,650	2.0%	
Capital	665,000		



2017 Budget

Water Utility Water Distribution

Expenses	2016 Budget	2016 Forecast	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
Domestic Water Operations	412,600	367,100	373,300	377,569	381,923	386,365	390,895
Water Metering Operations	152,200	170,100	176,900	179,094	181,332	183,615	185,943
Agricultural Water Operations	72,500	80,500	70,500	71,500	72,520	73,560	74,622
Dam and Reservoir Operations	85,350	70,300	77,550	78,465	79,500	80,556	81,633
Support Services	25,500	25,500	28,500	<u>28,610</u>	28,722	28,837	28,953
Total Operating Expense	748,150	713,500	726,750	735,238	743,998	752,933	762,046
Recoveries	(1,000)	<u>(5,100)</u>	<u>(4,100)</u>	(5,000)	(5,000)	(5,000)	(5,000)
Net Operating Expense	747,150	708,400	722,650	730,238	738,998	747,933	757,046



2017 Capital Budget

Water Utility Water Distribution

Project description	Budget	Comments
Service Renewals	30,000	Renewal of services.
Fire Hydrant Spacing Improvements	80,000	Ongoing project to correct hydrant spacing deficiencies.
Agricultural Irrigation Upgrades	30,000	Ongoing project to upgrade agricultural irrigations system.
Ellis 2 Dam Consulting & Upgrades	100,000	Geotechnical investigation and design of spillway upgrades to meet current standards.
Campbell Mountain Diversion Spillway Upgrade	275,000	Construction of spillway upgrades to meet current standards.
Misc Dam Projects	75,000	Update Dam Breach Flood Inundation Maps for Penticton Creek.
Domestic Water Meter Upgrades	<u>75,000</u>	Commence the upgrade of 8,500 water meter ERTs from 50w to 100w to enhance reading capabilities and ready for future system.
Total	665,000	



Summary

Water Utility Water Distribution

- Planned Capital Expense \$665,000
- Increases for meter pit installations, decreases for water valve maintenance



Questions

