



# Water Utility Overview

- There are three areas of activity associated with the Water Utility:
  - Water Treatment Plant Operating Costs, Capital Projects
  - Water Distribution System Operating Costs, Capital Projects
    - Presentation by public works manager to follow
  - Engineering Water Capital Projects
    - Included in previous Engineering Design Presentation



# 2018 Highlights

	Budget	% change	Trend
Total Revenue	-8,461,692		↑
Goods and Services	895,110		↑
Salaries and Benefits	745,011		↑
Total Internal Allocation In	2,174,271		↑
Total Internal Allocation Out	<u>-36,140</u>		→
Net Operating Surplus	-4,683,440	-21.42%	↓
Total Capital	3,407,250		↓
Transfer to/From Surplus/Reserve	<u>1,276,190</u>		↓
Balance Water Operating Fund	0		



# Overview

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

Operates water treatment plant, 6 reservoirs and 5 pump stations  
Treated 6,332 million 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 Accomplishments

- Completed Asset Management Plan
- Completed Capital Equipment Replacements
- Commenced Drought Management Plan
- Continued investment for major lake pump station motor control centre upgrade
- Supported response to watermain damage under Ellis Creek.



## 2018 Initiatives

- Significant investment planned for upgrade of critical electronic and control equipment per the asset management plan.
- Address required laboratory equipment upgrades
- Upgrade creek flow monitoring to improve management and decision making.
- Continue investment for major lake pump station motor control centre upgrade.



# Staffing



2017

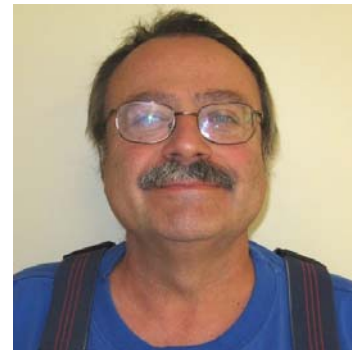
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2018

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## *Water Utility Water Treatment Plant*





# 2018 Highlights

## *Water Utility Water Treatment Plant*

	Budget	% change	Trend
Total Operating Expense	1,640,121		↑
Revenues	<u>-8,461,692</u>		↑
Net Operating Surplus	-6,821,571	3.52%	↑
Capital	487,500		↑





# 2018 Budget

## *Water Utility Water Treatment Plant*

Expenses	2017 Budget	2017 Forecast	2018 Budget	2019 Budget	2020 Budget	2021 Budget	2022 Budget
Cross Connection	53,985	<b>47,485</b>	<b>53,935</b>	54,854	55,791	56,747	57,722
Pump Stations	280,017	<b>294,490</b>	<b>278,081</b>	283,280	288,715	292,845	297,053
Small Reservoirs	40,820	<b>38,510</b>	<b>48,949</b>	49,494	50,050	50,617	51,196
Warren Ave Well	5,374	<b>4,232</b>	<b>5,975</b>	6,167	6,374	6,488	6,604
Water Conservation	52,991	<b>29,000</b>	<b>52,287</b>	52,534	52,785	53,041	53,302
Water Treatment Plant	933,889	<b>870,965</b>	<b>992,854</b>	974,870	994,878	1,009,337	1,021,127
Water - general	85,589	<b>85,589</b>	<b>109,200</b>	109,200	109,200	109,200	109,200
Parks - other accounts	81,325	<b>56,325</b>	<b>86,140</b>	37,693	39,312	41,001	42,762
Water	<u>37,767</u>	<u>31,592</u>	<u>12,700</u>	<u>12,896</u>	<u>13,094</u>	<u>13,296</u>	<u>13,501</u>
<b>Total Operating Expenses</b>	<b>1,571,757</b>	<b>1,458,188</b>	<b>1,640,121</b>	<b>1,580,988</b>	<b>1,610,198</b>	<b>1,632,571</b>	<b>1,652,467</b>



# 2018 Budget

## *Water Utility Water Treatment Plant*

Revenues	2017 Budget	2017 Forecast	2018 Budget	2019 Budget	2020 Budget	2021 Budget	2022 Budget
Sale of service	-7,585,956	-7,585,956	-8,038,201	-8,375,806	-8,744,341	-9,129,092	-9,530,772
Recoveries	-439,058	-437,144	-423,491	-437,114	-451,909	-467,354	-483,476
Grants	-25,000	0	0	0	0	0	0
Total Operational Revenues	-8,050,014	-8,023,100	-8,461,692	-8,812,919	-9,196,250	-9,596,446	-10,014,248



# 2018 Capital Budget

## *Water Utility Water Treatment Plant*

Project description	Budget	Comments
Asset Management Equipment Replacement	150,000	High risk aging electronic equipment
WTP optimization projects	15,000	Upgrade SCADA historian
PLC Equipment Replacement	50,000	Two main plant processors
WTP pressure reducing station equipment	10,000	Monitoring 3 Mile Road
Replace aging electrical equipment Okanagan Lake Pump Stn	100,000	To accumulate funds for 2022 construction
Replace (2) process computers/update software	5,000	Computer purchase



# 2018 Capital Budget

## *Water Utility Water Treatment Plant*

Project description	Budget	Comments
Security video monitor	7,500	Analog to digital upgrade
Streaming current detector replacement	20,000	Chemical monitoring equipment
Fume hood replacement Lab	15,000	Safety item
Air unit replacement program	15,000	HVAC for admin building
Relocate monitoring stations - Ellis/Penticton Creek	<u>100,000</u>	Improve flow measurement for Ellis & Penticton Creeks
<b>Total</b>	<b>487,500</b>	



# Summary

- No changes proposed in staffing
- Modest increase in operational costs
- Revenue improving in accordance with revised utility rate structure
- Improved decision making supported by Asset Management
- Pro-active maintenance and updating of equipment and controls in the plant and storage reservoirs enables the WTP team to consistently and efficiently produce high quality water.



# Questions

