



penticton.ca

# 2015 Budget

Engineering operations



# Engineering operations overview

Engineering has three areas of operations:

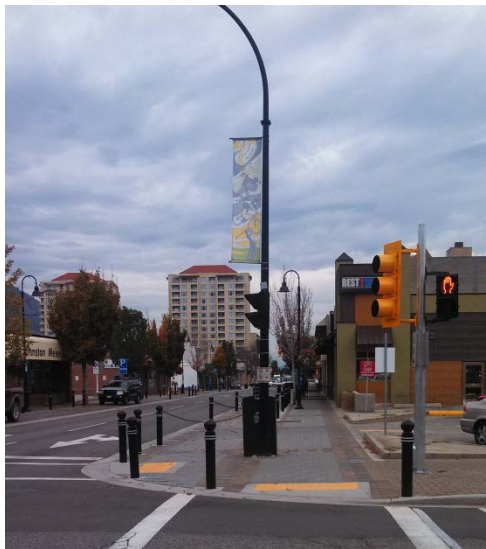
- **Design**
- **Water Treatment Plant (WTP)**
- **Advanced Waste Water Treatment Plant (AWWTP)**



# Engineering 2015 Budget – Design Overview



Downtown Revitalization



Capital Works



# Engineering 2015 Budget – Design Overview

## Engineering Design is Responsible for:

- Design and construction management of Capital Infrastructure projects.
- Development and Maintenance of master infrastructure plans.
- Administration of Engineering related Bylaws and response to public queries.

## Department Structure:

- City Engineer (Exempt)
- Design Supervisor (Exempt)
- 3 Engineering Technicians
- 1 Construction Inspector
- 1 Surveyor
- 1 Survey assistant
- 7 FTE (excludes City Engineer)
- (1 student budgeted)



# Engineering 2015 Budget – AWWTP Overview







# Engineering 2015 Budget – AWWTP Overview

## Advanced Waste Water Treatment Plant is Responsible for:

- Maintenance of Advanced Waste Water Treatment Plant and Lift Stations.
- Treatment of Waste Water to mandated standard.
- Receiving and treatment of septic waste.
- Receiving and treatment of OK Falls Waste Water plant sludge.
- Generation of treated effluent for irrigation.
- Generation of Bio-Solids for compost production.
- Maintaining 24hr, 365 day operation.

## Department Structure:

- City Engineer (Exempt)
- Plant Supervisor (Exempt)
- 2 Level III Operators
- 5 Level II Operators
- 1 Plant Electrician
- 1 Plant Millwright
- 10 FTE (excludes City Engineer)
- (1 student budgeted)



# Engineering 2015 Budget – WTP Overview





# Engineering 2015 Budget – WTP Overview

## Water Treatment Plant is Responsible for:

- Maintenance of Water Treatment plant, Reservoirs and Pump Stations.
- Treatment of water to mandated standard.
- Maintaining 24hr, 365 day operation.

## Department Structure:

- City Engineer (Exempt)
- Plant Supervisor (Exempt)
- 2 Level III Operators
- 3 Level II Operators
- 1 Plant Electrician
- 1 Conservation/Cross Connection Control officer
- 8 FTE
- (1 student budgeted)





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# 2015 Projected Utility Revenues



## 2015 Budget – Sewer Revenue Highlights

- Sewer levy goes towards debt – No increase in 2015
- OBWB Grant – fixed schedule of grants on file
- PIB - Sewer agreement charges
- Sewer use agreement – miscellaneous revenue
- Septic receiving – based on actual revenue.
- Fixture charges – projected 2014 plus 2% - main utility revenue
- Work Order Operating revenue
- OK Falls sludge handling – based on predicted revenue
- Treated Effluent - \$21,000 to Parks, \$4,000 to OUC, \$5,000 proposed to Argo
- Barefoot Beach – projection per agreement
- PIB – Green Avenue sewer agreement charges



## 2015 Project revenue: Sewer

Description	2013 Actual	2014 Budgeted	2014 Projected	2015 Proposed
Sewer levy	\$1,347,799	\$1,348,200	\$1,385,286	\$1,348,200
OBWB grant revenue	\$203,773	\$203,320	\$219,316	\$219,000
PIB sewer agreement charges	\$30,986	\$31,000	\$30,986	\$25,363
Sewer use - general	\$24,000	\$105,000	\$7,500	\$10,000
Septic receiving	\$127,824	\$30,000	\$150,000	\$120,000
Fixture charges	\$3,730,618	\$3,728,000	\$3,764,767	\$3,829,640
Work order – operating	<b>-\$246</b>	\$10,000	\$4,351	\$5,000
OK Falls sludge handling	\$17,473	\$0	\$45,000	\$50,000
Treated effluent for irrigation			\$25,000	\$35,000
Barefoot Beach	\$0	\$0	\$3,071	\$4,479
PIB sewer agreement charges	\$0	\$45,045	\$45,045	\$45,045
<b>TOTALS</b>	<b>\$5,482,227</b>	<b>\$5,455,520</b>	<b>\$5,677,722</b>	<b>\$5,691,727</b>



## 2015 Budget – Water Revenue Highlights

Water sales – monthly fee plus volume charge – includes 4% increase for 2015

Irrigation orchards - includes 4% for 2015

Irrigation parks – no increase for 2015

West Bench water sales – 2014 projection includes 6 months actual plus 3 months estimated,  
2015 includes 4%



## 2015 Project revenue: Water

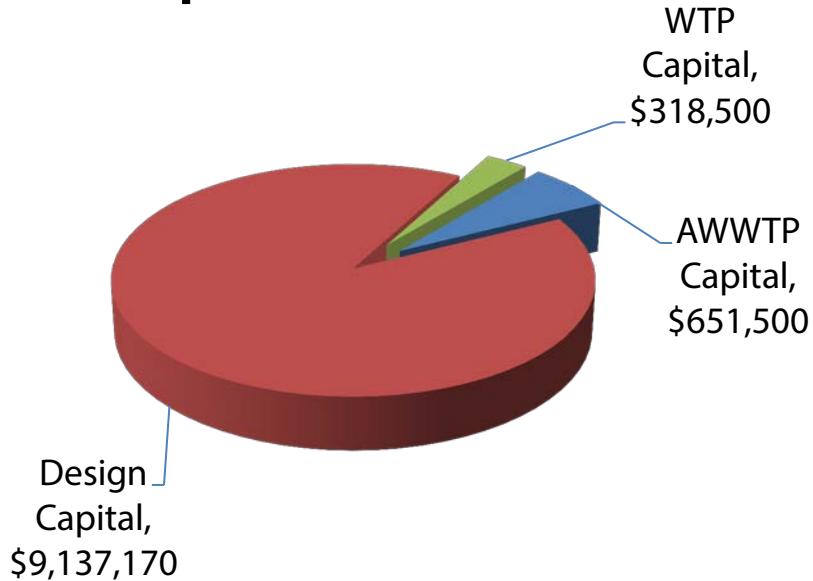
Description	2013 Actual	2014 Budgeted	2014 Projected	2015 Proposed
Water sales	\$5,938,979	\$5,752,000	\$5,840,120	\$5,982,080
Irrigation – Orchards	\$250,487	\$250,500	\$253,445	\$266,739
Irrigation – Parks	\$55,545	\$34,545	\$34,545	\$55,545
West Bench Operation	\$56,364	\$32,450	\$22,280	\$0 TERMINATED
West Bench water sales	\$0	\$0	\$97,293	\$83,205
<b>TOTALS</b>	<b>\$6,301,375</b>	<b>\$6,069,495</b>	<b>\$6,247,683</b>	<b>\$6,387,569</b>



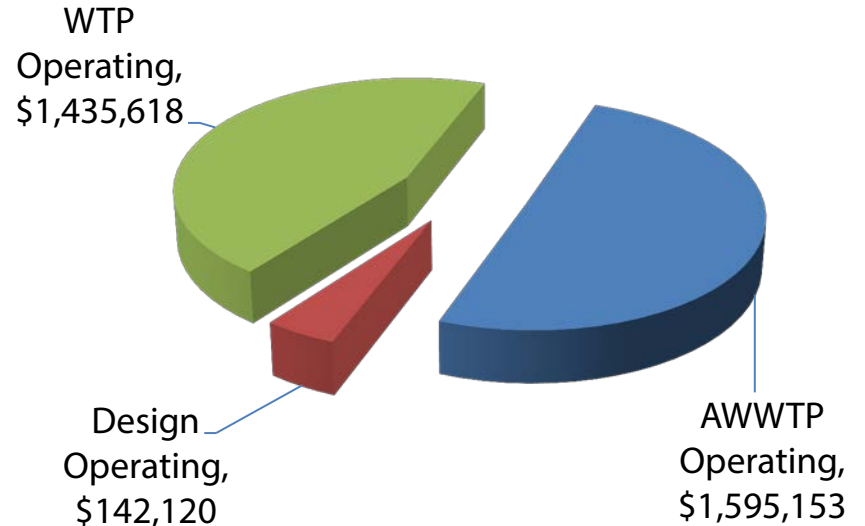


# Re-cap 2015 Engineering Total Budget: \$13,280,061

## Capital: \$10,107,170



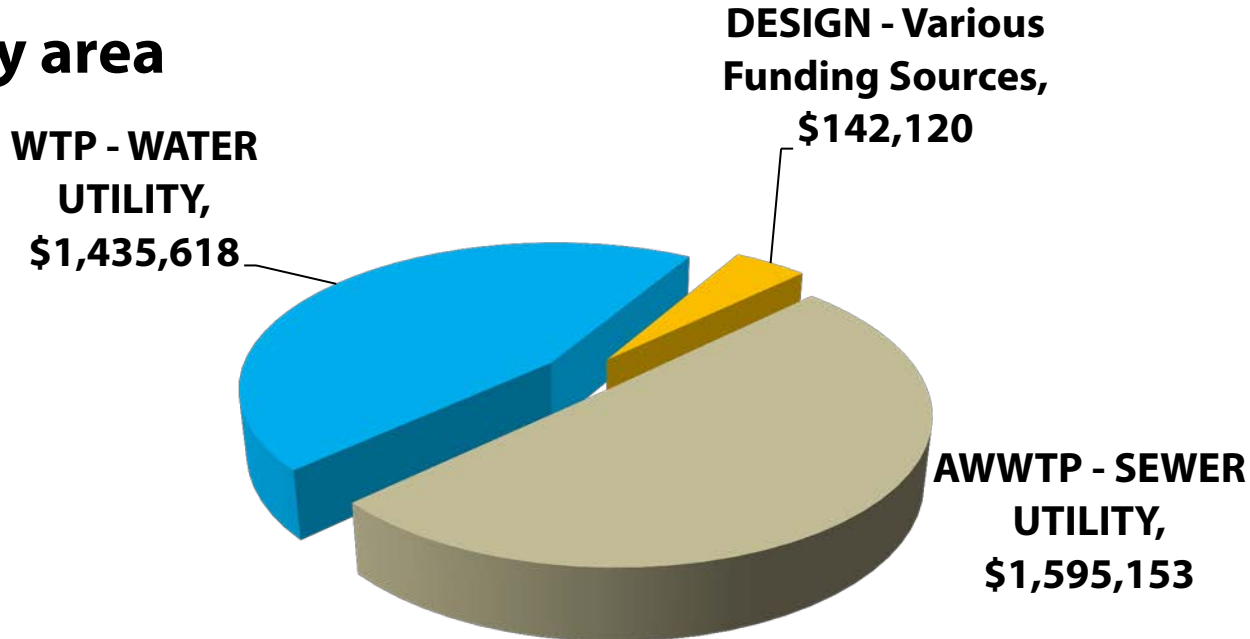
## Operating: \$3,172,891





# 2015 Total Engineering Operating Budget: \$3,172,891

## Split by area





# 2015 Operating Budget

- **Design – General Revenue**
- Advanced Waste Water Treatment Plant
- Water Treatment Plant



# Design: 2015 Operating Budget - Highlights

**2015 Total = \$142,120**

**Budget Change: (\$88,030)**

**FTE Adjustment 0**

## Expenses before transfers

- Wages & Salaries includes CUPE increases \$711,920
- Consulting allowance \$30,000
- CAD and Survey Support \$5,200
- Total before transfers \$747,120

(Stationary and Vehicles budgeted in Purchasing and Fleet cost centres).

## Transfers to Other Budgets

- Capital infrastructure projects (-\$605,000)

## Operating Budget:

- Funded by other cost centres (-\$69,000)
- Funded by General Rev (-\$73,120)



## Design: 2015 Operating Budget: \$142,120

Description	2013 Actual	2014 Budgeted	2014 Projected	2015 Proposed
Salaries, wages	\$949,103	\$936,930	\$936,930	\$711,920
CAD and survey support	\$5,200	\$5,200	\$5,200	\$5,200
Consulting	\$50,000	\$75,000	\$75,000	\$30,000
Stationery and vehicles	\$30,940	\$30,950	\$30,950	\$0
Stationery and vehicles – transfer to capital	(\$22,768)	(\$22,775)	(\$22,775)	(\$0)
Salary transfer to capital	(\$489,750)	(\$519,155)	(\$519,155)	(\$605,000)
Operating budget funded by other areas (multiple funds)	(\$318,400)	(\$276,000)	(\$276,000)	(\$69,000)
Operating budget funded by gen revenue	(\$204,325)	(\$230,150)	(\$230,150)	(\$73,120)





# 2015 Operating Budget

- Design – General Revenue
- **Advanced Waste Water Treatment Plant**
- Water Treatment Plant



# AWWTP: 2015 Operating Budget - Highlights

**2015 Total = \$1,595,153**

**Budget Change +\$87,793**

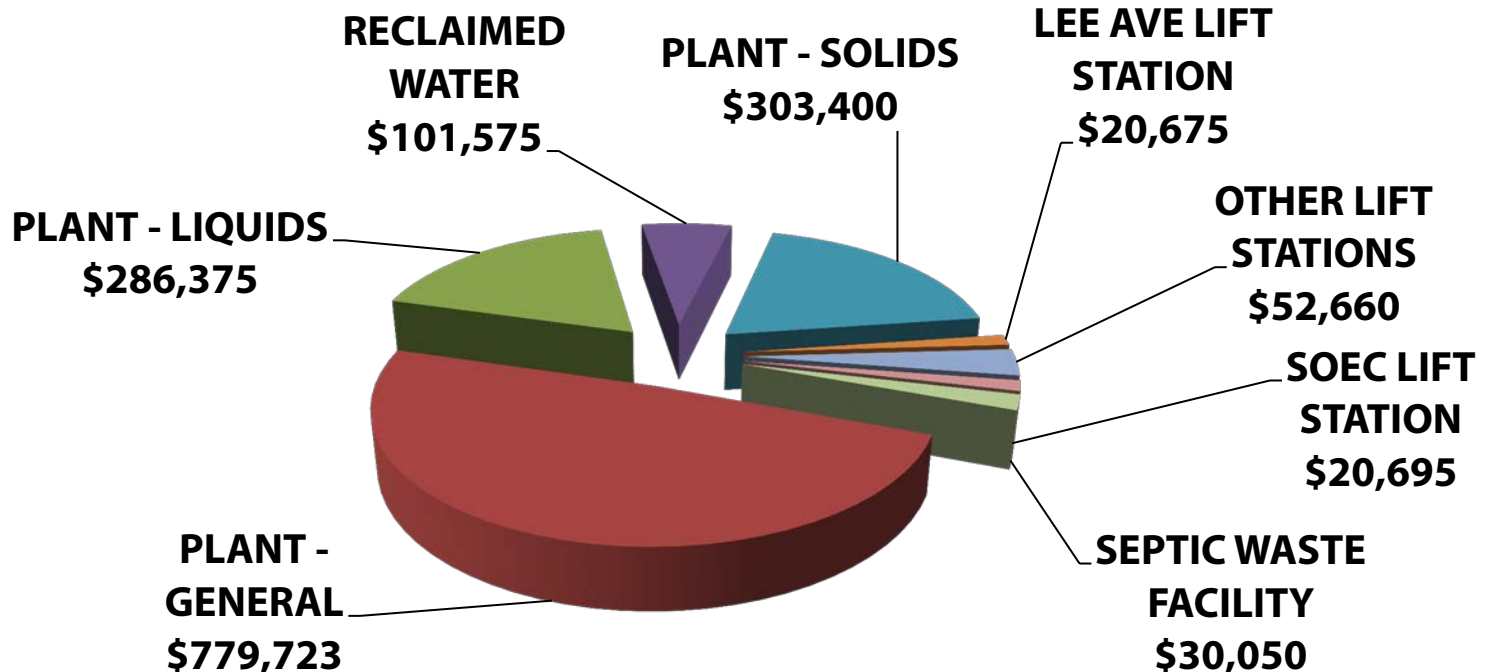
**FTE Adjustment 0**

## Budget features

- CUPE wage increases incorporated
- Student added
- Energy and chemical costs are anticipated to increase.
- Vehicles now budgeted in fleet cost centre



# AWWTP: 2015 Operating Budget: \$1,595,153





## AWWTP: 2015 Operating Budget

Description	2013 Actual	2014 Budgeted	2014 Projected	2015 Proposed
Vehicles	\$22,000	\$22,000	\$22,000	\$0
Plant – General	\$667,865	\$813,773	\$720,443	\$779,723
Plant – Liquids	\$217,779	\$213,333	285,500	\$286,375
Reclaimed water	\$39,763	\$73,433	\$83,000	\$101,575
Solids dewatering	\$246,672	\$255,833	\$289,000	\$303,400
LIFT STATIONS – Lee Ave	\$12,824	\$21,753	\$16,100	\$20,675
LIFT STATIONS - Other	\$47,260	\$60,549	\$44,100	\$52,660
LIFT STATIONS - SOEC	\$5,343	\$21,753	\$16,600	\$20,695
Septic waste facility	\$12,073	\$24,933	\$20,750	\$30,050
<b>TOTALS</b>	<b>\$1,271,579</b>	<b>\$1,507,360</b>	<b>\$1,497,493</b>	<b>\$1,595,153</b>



# WTP: 2015 Operating Budget - Highlights

**2015 Total = \$1,435,618**

**Budget Change (\$38,714)**

**FTE Adjustment None**

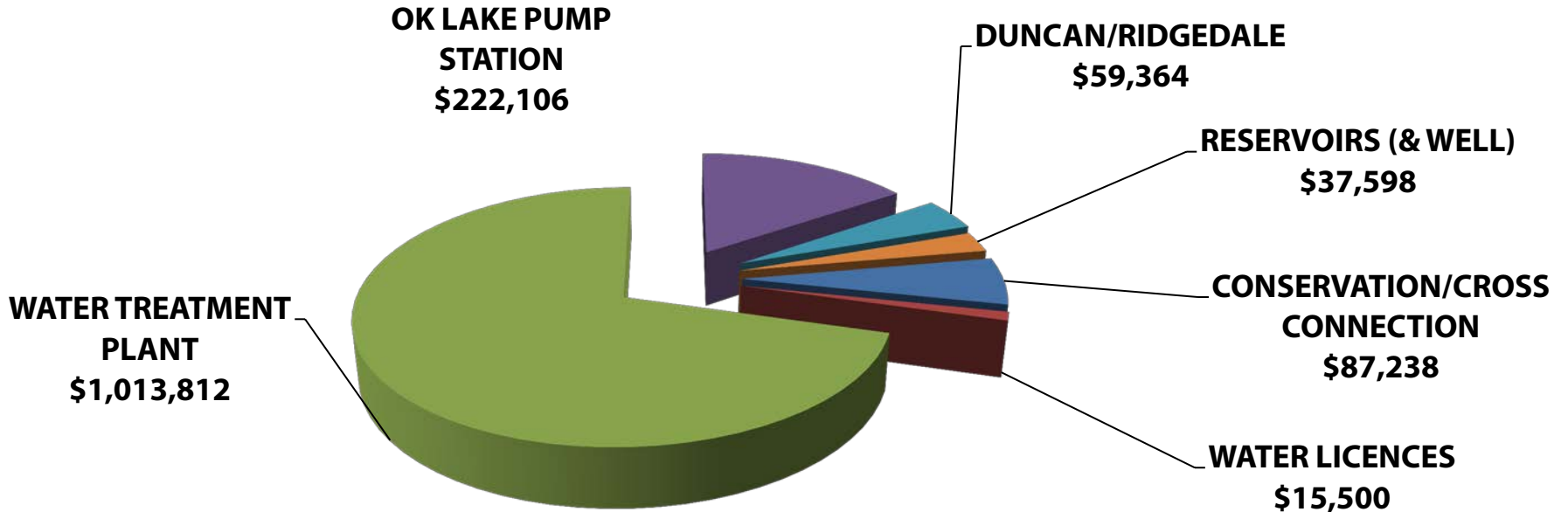
## Budget Features

- **CUPE wage increases incorporated**
- **Energy costs are anticipated to increase.**
- **Vehicles now budgeted in fleet cost centre**





# WTP: 2015 Operating Budget: \$1,435,618





## WTP: 2015 Operating Budget

Description	2013 Actual	2014 Budgeted	2014 Projected	2015 Proposed
Cross connection & conservation	\$29,923	\$85,713	\$78,233	\$87,238
Water licences	\$11,140	\$15,500	\$15,500	\$15,500
Vehicles	\$22,000	\$22,000	\$22,000	\$0
Water Treatment Plant	\$920,441	\$1,066,146	\$1,028,032	\$1,013,812
OK Lake pump station	\$205,632	\$208,481	\$206,655	\$222,106
Duncan and Ridgedale reservoirs and pump stations	\$32,073	\$49,026	\$43,036	\$59,364
Reservoirs & Warren Ave well	\$38,239	\$27,467	\$32,323	\$37,598
<b>TOTALS</b>	<b>\$1,259,448</b>	<b>\$1,474,333</b>	<b>\$1,425,779</b>	<b>\$1,435,618</b>



# Questions?