



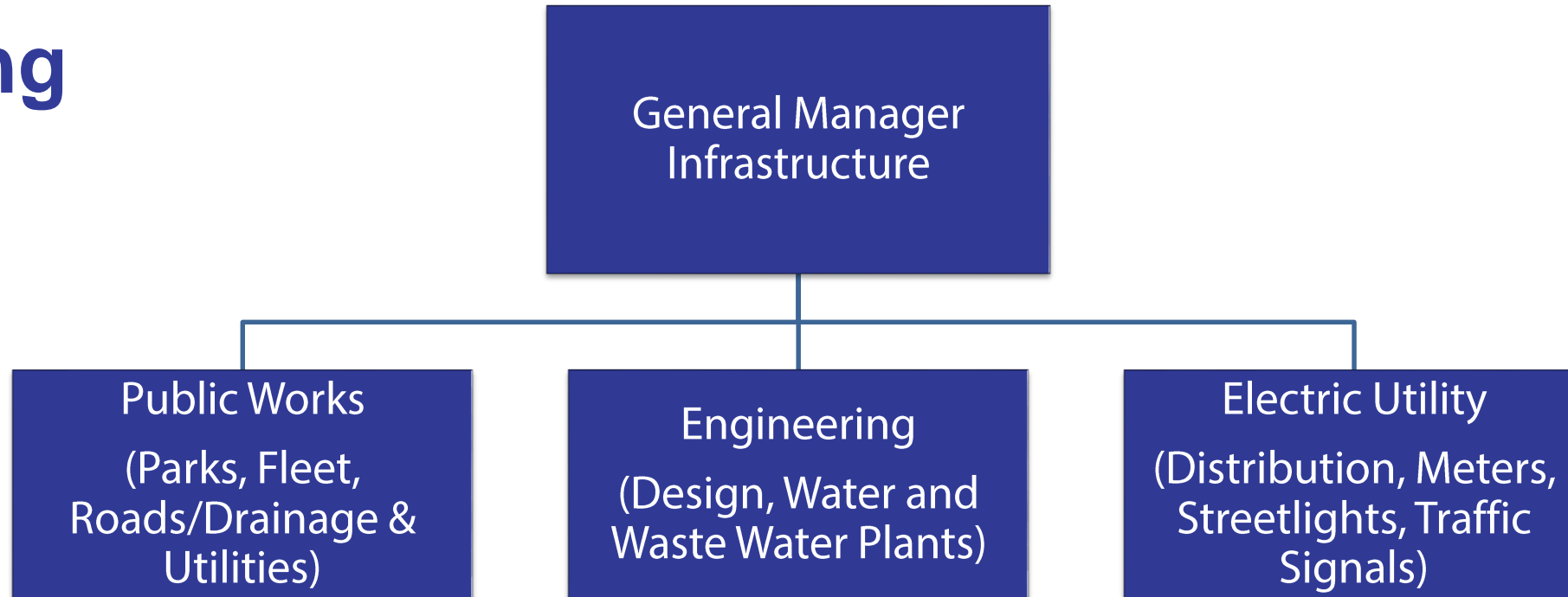
## Overview

- The Infrastructure division is responsible for overseeing many of the City's operations that enable our residents to go about their daily lives.
- Our team is responsible for the planning, design, construction, operation and maintenance of City infrastructure assets. We also collect garbage and recycling and set utility rates.
  - **Electric Utility** our department is responsible for overseeing operations, maintenance and ongoing improvements of the electrical distribution system. We also manage electrical meters, traffic signals and street lighting.
  - **Engineering** we are responsible for the planning, design and construction administration of the road and pedestrian network, the water treatment plant and distribution system, the wastewater treatment plant and collection system and the drainage system.
  - **Public Works** we keep our community safe by maintaining a clean, safe drinking water system and reliable sanitary sewer and storm water drainage systems. We maintain our road network, parks and City owned dams and provide irrigation water to the agricultural areas.



## Staffing

## Infrastructure



The Infrastructure Division consists of 110 full-time equivalent staff, including one general manager, three managers and nine supervisors.

## 2021 Achievements

- Adoption of the Integrated Infrastructure Master Plan
- Implementation of a phase of the Lake to Lake Cycling Route
- Source Water Protection Plan
- Waste Water Treatment Plant replacements
- Wilson Street and Marina Way lift station upgrade and generator installation
- Efficiency improvements and succession planning in the electrical department



## 2021 Achievements continued...

- Waste and recycle collection at parks and beaches
- Sanitary sewer residuals – opportunities and design development
- Dam safety compliance – Ellis 4 Dam
- Racket courts strategy and utilization review
- Penticton bus stop inspection and prioritized action list



## Challenges & Opportunities

- **Dam Safety Compliance**

- Ellis Creek system dams require safety upgrades to ensure they comply with current guidelines.
- Preliminary designs for a second dam upgrade will begin in 2022, with construction to follow in 2024.

- **Sanitary Sewer Plant Residuals and Organics Waste Management**

- City's existing wastewater treatment compost facility no longer meets updated Provincial requirements.
- City is working with Regional District of the Okanagan-Similkameen to implement a joint composting facility.







## *Infrastructure – Parks*

### **2022 Initiatives**

- Skaha Park Splash Pad replacement
- Develop an Urban Forestry Master Plan
- Proposed cleanliness initiative for parks and core City areas





### **2022 Initiatives**

- Partnership with RDOS to address sanitary sewer plant residuals and organics waste management
- Upgrades for dam safety compliance
- Introduction of a fully electric vehicle to Fleet Department
- Proposed installation of a new lighted landmark for the nighttime landscape



## 2022 Initiatives

- Wastewater Treatment Plant expansion
- Penticton Creek naturalization project
- Completion of Section Two of the Lake-to-Lake Bike Route
- Point Intersection to address traffic congestion
- Water Treatment Plant (WTP) arc flash study





## Utilities

**The City of Penticton has four Utilities serviced by three different departments:**

- **Electrical** (Electrical Department)
- **Water** (Engineering Department, Public Works Department)
- **Sanitary Sewer** (Engineering Department, Public Works Department)
- **Storm Sewer** (Engineering Department, Public Works Department)

# Infrastructure Budget





## *Infrastructure*

	2021 Budget	2021 Forecast	2022 Budget
Expense	221,000	221,700	228,500
Net Cost Allocations	<u>(221,000)</u>	<u>(221,700)</u>	<u>(228,500)</u>
<b>Net Expense</b>	-	-	-



# **Public Works Budget**

## **Parks, Fleet, Roads, Utilities**



# 2022 Budget

## Public Works - General

	2021 Budget	2021 Forecast	2022 Budget
Expense	935,796	935,796	951,463
Net Cost Allocations	<u>(784,608)</u>	<u>(784,608)</u>	<u>(951,463)</u>
<b>Net Expense</b>	<b>151,188</b>	<b>151,188</b>	<b>-</b>





## ***Public Works – Roads & Maintenance***

### **2022 Budget**

	2021 Budget	2021 Forecast	2022 Budget
Expense	1,880,334	1,982,526	2,218,261
Net Cost Allocations	<u>358,666</u>	<u>334,901</u>	<u>308,023</u>
<b>Net Expense</b>	<b>2,239,000</b>	<b>2,317,427</b>	<b>2,526,284</b>



# Public Works – Roads & Maintenance

## 2022-2026 Capital

	2022	2023	2024	2025	2026
Roads	100,000	0	0	0	0



# Public Works – Roads & Maintenance

## 2022-2026 Capital

Project Description	2022	2023	2024 – 2026	Comments
Decorative Scroll Installation	100,000	0	0	New lighted landmark



## 2022 Budget

## Public Works –Parks

	2021 Budget	2021 Forecast	2022 Budget
Expense	2,371,954	2,445,204	2,680,065
Net Cost Allocations	<u>624,046</u>	<u>591,690</u>	<u>659,946</u>
<b>Net Expense</b>	<b>2,996,000</b>	<b>3,036,894</b>	<b>3,340,011</b>



## **2022-2026 Capital**

	2022	2023	2024	2025	2026
<b>Parks</b>	<b>641,600</b>	<b>397,250</b>	<b>399,875</b>	<b>478,500</b>	<b>316,510</b>





## Public Works –Parks

### 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
Beach Slides	0	0	7,000	
Irrigation Upgrades	42,500	81,250	223,685	Art Gallery area
Kings Park - Entry Improvements	35,000	0	0	Gate access and wayfinding improvements
Lakawanna Park - Splash Pad replacement	0	0	125,000	
Park Misc - CinderBlock Dugout Improv.	0	0	31,500	McLaren & Bambino
Park Misc - McGregor Park Development	0	0	75,700	
Park Misc - Parks Recycling Infrastructure	0	0	60,000	
Park Misc - Playground Equipment	60,000	294,000	423,000	Accumulate funds for 2023 installation project
Riverside park - Site/Entry Improvements	0	0	99,000	
Robinson Park - Pickleball Courts	0	0	150,000	
<b>Skaha Park - Splash Pad replacement</b>	<b>353,000</b>	<b>0</b>	<b>0</b>	<b>Replace aging amenity</b>
SOEC - Landscaping Alberni/Creston parking lot	0	22,000	0	
SS Sicamous Irrigation and Landscaping	100,000	0	0	Address disturbed areas
Sudbury Park - Parking Lot Landscaping	51,100	0	0	Landscape bank between road and parking lot
<b>Total</b>	<b>641,600</b>	<b>397,250</b>	<b>1,194,885</b>	



## Public Works –Parks

### 2022-2026 Unfunded\*

Project Description	2022	2023	2024-2026	Comments
Safety Village - Park upgrades	0	250,000		
Skaha Park Beach Wall	70,000	700,000		Design for undermined wall
Skaha Park East - Other Parks	0	818,345		
Sportsfield Fencing Improvements	175,000	300,000	600,000	Add fencing for fly-balls.
Tennis Court Upgrades	0	0	835,000	
Three Mile Beach - Upgrade parking, site and entry improv.	0	373,400		
<b>TOTAL</b>	<b>245,000</b>	<b>2,441,745</b>	<b>1,435,000</b>	

\*Projects funding source is not yet determined



## *Public Works – Cemetery*

### **2022 Budget**

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(378,500)	(378,500)	(378,500)
Expense	296,760	311,460	280,034
Net Cost Allocations	<u>93,740</u>	<u>93,740</u>	<u>96,466</u>
<b>Net Expense/(Revenue)</b>	<b>12,000</b>	<b>26,700</b>	<b>(2,000)</b>



***Public Works –Cemetery***

**2022-2026 Capital**

	2022	2023	2024	2025	2026
<b>Cemetery</b>	<b>64,000</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>



## ***Public Works –Cemetery***

### **2022-2026 Capital**

<b>Project Description</b>	<b>2022</b>	<b>2023</b>	<b>2024-2026</b>	<b>Comments</b>
Cemetery - Lakeview Cemetery	64,000	60,000	180,000	Required building maintenance





## *Public Works –Fleet*

### 2022 Budget

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(2,258,100)	(2,258,100)	(2,442,503)
Expense	2,476,731	2,490,581	2,579,925
Net Cost Allocations	<u>(231,631)</u>	<u>(242,217)</u>	<u>(217,422)</u>
<b>Net Revenue</b>	<b>(13,000)</b>	<b>(9,736)</b>	<b>(80,000)</b>



**2022-2026 Capital**

	2022	2023	2024	2025	2026
Fleet	1,168,200	1,287,750	1,045,100	2,416,050	1,846,750



## Public Works –Fleet

### 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
Fleet Future Capital Purchases	0	0	5,307,900	
Light Duty Vehicles (Pick Ups and Cars)	335,000	564,000	0	2022 - 6 replacements, 2 additional vehicles, 2023 - 12 replacements
Backhoe (Replace Unit 71)	180,000		0	Replacement warranted per policy
Bush Truck (Replace Unit B-201)	80,000	0	0	Replacement warranted per policy
Shop Equipment	57,000	124,500	0	Replacements: hoist, steam cleaner, wheel balancer, sander, compressor
Small Equipment and Attachments	74,000	30,000	0	Replacements: aerator, flail mower, broom attachment, boom flail mower
Digger Derrick Aerial to Replace Unit 50	0	350,000	0	
Chipper (Replace Unit 78)	0	55,000	0	
Tractor (Replace Unit 69)	0	65,000	0	
2-Personal Water Rescue Craft	0	40,000	0	



## Public Works –Fleet

### 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
Spray Truck (Replace Unit 130)	50,000		0	Replacement warranted per policy
Public Works Equipment	28,200	44,250	0	Fertilizer spreader, 2 - rototillers, rotovator, snow blower, overseeder
Trailer Replacements	29,000	15,000	0	2022 - 3 replacements, 2023 -2 replacements
Single Dump (Replace Unit 53)	150,000		0	Replacement warranted per policy
SOEC Ice Resurfacer (Replace Unit 335)	185,000		0	Replacement warranted per policy – targeting all electric
<b>TOTAL</b>	<b>1,168,200</b>	<b>1,287,750</b>	<b>5,307,900</b>	



## ***Public Works –Storm Water***

### **2022 Budget**

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(755,000)	(763,517)	(966,000)
Expense	201,390	224,750	244,550
Net Cost Allocations	274,000	274,000	306,623
Transfers	279,610	264,767	414,827
<b>Net Expense</b>	-	-	-





## ***Public Works –Solid Waste***

### **2022 Budget**

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(2,689,100)	(2,711,648)	(2,708,600)
Expense	1,983,825	1,947,492	1,977,050
Net Cost Allocations	<u>53,500</u>	<u>53,500</u>	<u>60,500</u>
<b>Net Revenue</b>	<b>(651,775)</b>	<b>(710,656)</b>	<b>(671,050)</b>



2022 Budget

Electric- Street Lighting

	2021 Budget	2021 Forecast	2022 Budget
Expense	<u>311,100</u>	<u>316,000</u>	<u>418,000</u>
Net Expense	311,100	316,000	418,000



# 2022 Budget

## Electric- Traffic Control

	2021 Budget	2021 Forecast	2022 Budget
Expense	<u>129,250</u>	<u>144,000</u>	<u>151,000</u>
<b>Net Expense</b>	<b>129,250</b>	<b>144,000</b>	<b>151,000</b>



***Electric- Traffic Control***

**2022-2026 Capital**

	2022	2023	2024	2025	2026
<b>Traffic Control</b>	<b>178,000</b>	<b>127,000</b>	<b>131,000</b>	<b>137,000</b>	<b>104,000</b>



# Electric- Traffic Control

## 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
New Traffic Detection Devices	68,000	70,000	189,000	Low resolution image capture
Traffic Signalization - Upgrade Controllers and Loop Detectors	110,000	57,000	183,000	Annual replacement program
<b>Total</b>	<b>178,000</b>	<b>127,000</b>	<b>372,000</b>	



# Engineering

**Design, Water Treatment & Waste Water  
Treatment Plants**



## Engineering - Design

### 2022 Budget

	2021 Budget	2021 Forecast	2022 Budget
Expense	1,306,940	865,980	1,327,800
Net Cost Allocations	<u>(1,156,940)</u>	<u>(1,095,480)</u>	<u>(1,327,800)</u>
<b>Net Expense</b>	<b>150,000</b>	<b>(229,500)</b>	<b>-</b>





## 2022- 2026 Capital

Engineering	2022	2023	2024	2025	2026
<b>General</b>	<b>8,869,000</b>	<b>2,505,000</b>	<b>6,404,500</b>	<b>2,667,500</b>	<b>6,680,150</b>
<b>Sewer</b>	<b>4,318,000</b>	<b>2,327,000</b>	<b>1,327,000</b>	<b>1,733,000</b>	<b>2,205,000</b>
<b>Water</b>	<b>7,029,000</b>	<b>1,956,500</b>	<b>2,325,500</b>	<b>3,282,500</b>	<b>5,502,200</b>
<b>Total</b>	<b>20,216,000</b>	<b>6,788,500</b>	<b>10,057,000</b>	<b>7,683,000</b>	<b>14,387,350</b>



# Engineering - Design

## 2022-2026 Capital

Project Description	2022	2023	2024 - 2026	Comments
Carmi Drainage	-	-	256,000	
Ellis Creek Reach 7	200,000	35,000	3,806,000	2022 Design – Government St to Dartmouth Rd + 120m
Ellis Creek Reach 8	-	-	3,089,500	
Ellis Creek Reach 9 Design	-	-	200,000	
Huth Ave. Storm Sewer Construction	43,000	-	868,000	2022 Design – address pipe constriction
Oxbow Drainage Improvements	56,000	56,000	56,000	Sediment capture at outfalls for Sudbury Beach and Green Ave
Penticton Creek Enviromental Monitoring	50,000	75,000	250,000	Annual post construction monitoring
<b>Penticton Creek Revitalization Reach 2</b>	<b>450,000</b>	<b>400,000</b>	<b>430,000</b>	<b>2022 design for next reach</b>
Storm Water Management - Liquid Waste Management Plan	-	68,000	219,000	
Warren Avenue West Storm Upgrades	-	-	290,000	
Aging Storm Sewer Infrastructure Replacement and Upgrades	-	-	542,000	
<b>Bike Network Plan</b>	<b>4,700,000</b>	-	-	<b>Construct Section 2: Fairview to South Main St</b>
East Penticton Interceptor - Fairway Ave to Treatment Plant	-	351,000	-	



## 2022-2026 Capital

Project Description	2022	2023	2024 - 2026	Comments
Intersection and Road Marking Improvements	75,000	50,000	177,650	
Lanes - Pavement Reconstruction	-	-	181,000	
Orchard Avenue Reconstruction	-	-	1,840,000	General/Sewer/Water
Pavement Management: Rehabilitation	545,000	1,145,000	2,729,000	
<b>Point Intersection Kinney &amp; South Main - Re-Align Galt Avenue</b>	<b>2,800,000</b>	-	-	<b>General/Sewer/Water</b>
Reservoir Road Reconstruction	-	-	100,000	
Sidewalks, Curbs and Gutter Projects	200,000	225,000	726,000	
Small Developer Driven Drainage Works	-	-	177,000	
Traffic Calming Program	100,000	100,000	300,000	
Aging Sanitary Sewer Infrastructure Replacements/Upgrades	1,067,000	-	5,230,000	Sewer
Aging Water Main Replacement Program	85,000	-	-	Sewer
East Penticton Interceptor - Fairview Ave to Treatment Plant	50,000	1,836,000	-	Sewer/Water
North Penticton Interceptor - Fairway Road to Treatment Plant	2,941,000	-	-	Sewer



# Engineering - Design

## 2022-2026 Capital

Project Description	2022	2023	2024 - 2026	Comments
SOEC Lift Station Wet Well Expansion	-	841,000	-	
100mm Water Main Replacement Program	508,000	-	1,108,200	Water - in Uplands area
Aging Water Main Replacement Program	1,161,000	968,500	1,223,000	Water - in Uplands area
Downtown Revitalization - Main Street	-	-	450,000	
Industrial Area Fire Flow Upgrades			2,289,000	
Irrigation System - Infrastructure Renewals	638,000	638,000	1,914,000	Water - Accumulate for future construction
Rainfall Monitoring	256,000	-	-	Water - Watershed monitoring for predictive purposes
Riddle Road Improvements - Water Service & Fire Protection	-	-	1,593,000	
<b>Ridgedale Reservoir Upgrade</b>	<b>4,161,000</b>	<b>-</b>	<b>-</b>	<b>Water - Add storage for balancing, emergency and fire protection</b>
Valleyview Road Improvements	130,000	-	2,083,000	Water - 2022 design to provide fire flow
<b>TOTAL</b>	<b>20,216,000</b>	<b>6,788,500</b>	<b>32,127,350</b>	



## Engineering - Design

### 2022-2026 Unfunded\*

Project Description	2022	2023	2024-2026	Comments
Bike Network Plan	0	860,000	0	Section 1 – South Main St
Campbell Drainage	0	0	2,216,000	
Carmi Drainage	0	0	2,191,000	
Ellis Creek Reach 8	0	0	951,500	
Kiwanis Walking Pier	0	0	1,225,000	
Main Street 400 Block Infrastructure	0	0	1,162,000	
Penticton Creek Revitalization Reach 2	0	1,900,000	1,985,000	
Reservoir Road Reconstruction	0	0	2,166,000	
<b>Total</b>	<b>0</b>	<b>2,760,000</b>	<b>11,896,500</b>	

\*Projects funding source is not yet determined





# Utilities





# Electric Utility





## *Electric Utility*

### 2022 Budget

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(40,633,193)	(42,573,923)	(43,420,808)
Expense	33,182,349	33,398,062	36,002,252
Net Cost Allocations	1,816,623	1,743,572	1,932,688
Transfers	<u>5,634,221</u>	<u>7,432,289</u>	<u>5,485,868</u>
<b>Net Expense</b>	-	-	-



## 2022-2026 Capital

	2022	2023	2024	2025	2026
<b>Electrical Utility</b>	<b>8,190,169</b>	<b>4,341,523</b>	<b>4,688,280</b>	<b>4,007,866</b>	<b>6,158,511</b>



## 2022-2026 Capital

Project Description	2022	2023	2024-2026
Non-Discretionary	2,970,134	1,818,286	5,757,564
Sustainment	2,511,790	1,366,014	4,403,497
Enhancement	2,199,537	1,112,203	2,381,204
Expansion	325,000	0	2,169,063
Departmental Tools	183,709	45,020	143,328
<b>Total Capital Expense</b>	<b>8,190,170</b>	<b>4,341,523</b>	<b>14,854,656</b>
Recoveries	(1,282,509)	(1,288,708)	(3,904,339)
<b>Net Capital Expense</b>	<b>6,907,661</b>	<b>3,052,815</b>	<b>10,950,317</b>



## 2022-2026 Capital

Non-Discretionary				
Project Description	2022	2023	2024-2026	Comments
New Services & Service Upgrades	1,600,684	1,645,522	5,218,731	Recover \$1.113M
New Underground Subdivisions	169,450	172,764	538,833	Recover \$169,450
<b>Point Intersection - Galt and South Main St</b>	<b>1,200,000</b>			<b>Street lighting and traffic signals</b>
<b>Total</b>	<b>2,970,134</b>	<b>1,818,286</b>	<b>5,757,564</b>	



## 2022-2026 Capital

Sustainment				
Project Description	2022	2023	2024-2026	Comments
Huth Refurbishment			655,954	
Waterford Refurbishment		312,120	318,362	
Distribution System Rebuild	696,922	723,421	2,339,719	Replacement of aging insulator, cross arms and poles
Distribution System Rebuild- UG Residential Subdivision Rebuild	314,868	330,473	1,089,462	New program to replace end of life cables in residential subdivisions, exact location being determined
<b>City Yards - Building upgrades</b>	<b>1,500,000</b>			<b>75% Electrical, 25% General</b>
<b>Total</b>	<b>2,511,790</b>	<b>1,366,014</b>	<b>4,403,497</b>	



## 2022-2026 Capital

Enhancement				
Project Description	2022	2023	2024-2026	Comments
IT Software Upgrades	10,000	260,000	30,000	Upgrade required
<b>Utility Scale Battery</b>	<b>1,700,000</b>	<b>300,000</b>	<b>600,000</b>	<b>Peak shaving and back-up power</b>
Reliability Improvements	431,405	492,327	1,560,582	Replacing switches, conductor upgrades, faulted circuit indicator installation
Supervisory Control and Data Acquisition(SCADA)	58,132	59,876	190,622	Electrical portion of upgrades
<b>Total</b>	<b>2,199,537</b>	<b>1,112,203</b>	<b>2,381,204</b>	



# 2022-2026 Capital

Expansion				
Project Description	2022	2023	2024-2026	Comments
Sendero backup OH extension	200,000			Potential to install U/G subject to corridor acquisition
Fiber System Redundancy	125,000		269,063	Addition of fibre and associated equipment to reinforce the City's fibre system
Carmi Substation Feeders			1,900,000	
<b>Total</b>	<b>325,000</b>	<b>0</b>	<b>2,169,063</b>	





## 2022-2026 Capital

Departmental Tools				
Project Description	2022	2023	2024-2026	Comments
PLT & Engineering Tools	43,709	45,020	143,328	Required resources
Electrical Inventory Storage Racks (Utility Poles & Spools, etc.)	140,000			Address deficient storage requirements
<b>Total</b>	<b>183,709</b>	<b>45,020</b>	<b>143,328</b>	



## *Utilities - Electrical*

### Fund Summary

	2022 Budget
<b>Total Revenue</b>	<b>(43,420,808)</b>
Operational Expense	36,002,252
Net Allocations	1,932,688
General Capital Dividend	<u>3,225,240</u>
<b>Total Operating Expenses</b>	<b>41,160,180</b>
<b>Net Operating Surplus</b>	<b>(2,260,628)</b>
Net Electric Capital Expense	6,907,660
Transfer From Reserve	<u>(4,647,032)</u>
<b>Electric Fund Balance</b>	<b>-</b>



# Water Utility



## Water Utility

### 2022 Budget

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(10,344,000)	(10,381,500)	(10,462,600)
Expense	2,909,810	3,083,310	3,091,549
Net Cost Allocations	1,738,881	1,743,165	1,885,491
Transfers	<u>5,695,308</u>	<u>5,555,024</u>	<u>5,485,560</u>
<b>Net Expense</b>	-	-	-



**2022-2026 Capital**

	2022	2023	2024	2025	2026
<b>Water Utility</b>	<b>11,448,000</b>	<b>11,216,500</b>	<b>4,060,500</b>	<b>3,962,500</b>	<b>6,822,200</b>



## 2022-2026 Capital

Project Description	2022	2023	2024-2026
Water - Engineering Design	7,029,000	1,956,500	11,110,200
Water Distribution	592,000	8,540,000	2,170,000
Water Treatment Plant	3,822,000	590,000	1,565,000
CIS Software Upgrades - Water Portion	5,000	130,000	0
<b>Total</b>	<b>11,448,000</b>	<b>11,216,500</b>	<b>14,845,200</b>



# Public Works –Water Distribution

## 2022-2026 Capital

	2022	2023	2024	2025	2026
<b>Water Distribution</b>	<b>592,000</b>	<b>8,540,000</b>	<b>1,215,000</b>	<b>415,000</b>	<b>540,000</b>





## Public Works – Water Distribution

### 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
Ellis 2 Dam - Consulting and Upgrades	250,000	100,000	750,000	Design process commences 2022
<b>Ellis 4 Dam - Consulting and Upgrades</b>		<b>8,300,000</b>		<b>Ellis 4 Dam option and design work</b>
Ellis Creek Diversion Dam - Consulting and Upgrades			625,000	
Irrigation Meter Program	140,000	140,000	420,000	Ongoing program to install new service box complete with meters on the irrigation system
Misc Dam Projects			375,000	
ROW - Right of Way Aquisitions	202,000			Secure dam access rights
<b>Total</b>	<b>592,000</b>	<b>8,540,000</b>	<b>2,170,000</b>	



## 2022-2026 Capital

	2022	2023	2024	2025	2026
<b>Water Treatment Plant</b>	<b>3,822,000</b>	<b>590,000</b>	<b>520,000</b>	<b>265,000</b>	<b>780,000</b>



## 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
Building Code Improvements	150,000	150,000	0	Reconfigure to accommodate filter aid equipment
Equipment Replacement	60,000	60,000	180,000	Replacement of small, aging items
Make Up Air Unit Replacement Program WTP	70,000	140,000	140,000	Four year \$350,000 project
<b>Penticton Ave PRV Upgrade</b>	<b>2,912,000</b>	<b>0</b>	<b>0</b>	<b>New PRV at Duncan Ave Reservoir</b>
Roof Replacement WTP	410,000	0	0	Replace roof – combine with Make-up air replacement.
WTP - DAF Pump Retrofit	0	0	350,000	
WTP - Electrical Main Switch Replacement	0	0	335,000	
WTP Equipment Replacement - PLC's and communications equipment.	100,000	120,000	200,000	Replacement of unsupported electronics
WTP Rotork Valve Replacement	120,000	120,000	360,000	Address 2 filter trains, 1 <sup>st</sup> in 2022, 2 <sup>nd</sup> in 2024
<b>Total</b>	<b>3,822,000</b>	<b>590,000</b>	<b>1,565,000</b>	



## *Utilities - Water*

### Fund Summary

	2022 Budget
<b>Total Revenue</b>	<b>(10,462,600)</b>
WTP Expense	1,962,000
Water Distribution Expense	1,129,550
Net Allocations	1,885,491
Transfers	<u>(366,715)</u>
<b>Total Operating Expenses</b>	<b><u>4,610,326</u></b>
<b>Net Operating Surplus</b>	<b>(5,852,274)</b>
Water Capital Expense	4,375,000
Transfer (from)/to Reserve	1,477,274
<b>Water Fund Balance</b>	<b>-</b>



# Sanitary Sewer Utility



## 2022 Budget

## Sanitary Sewer Utility

	2021 Budget	2021 Forecast	2022 Budget
Revenue	(9,130,534)	(9,334,160)	(9,219,918)
Expense	3,316,493	3,344,242	3,576,816
Net Cost Allocations	1,856,094	1,860,378	1,889,820
Transfers	<u>3,957,947</u>	<u>4,129,540</u>	<u>3,753,282</u>
<b>Net Expense</b>	-	-	-



## *Sewer Utility*

### 2022-2026 Capital

	2022	2023	2024	2025	2026
<b>Sewer Utility</b>	<b>11,004,000</b>	<b>4,011,000</b>	<b>5,275,000</b>	<b>2,882,000</b>	<b>8,156,000</b>





## *Sewer Utility*

### 2022-2026 Capital

Project Description	2022	2023	2024-2026
Sewer - Engineering Design	4,318,000	2,327,000	5,265,000
Advanced Waste Water Treatment Plant	6,681,000	1,554,000	11,048,000
CIS Software Upgrades - Sewer Portion	5,000	130,000	
<b>Total</b>	<b>11,004,000</b>	<b>4,011,000</b>	<b>16,313,000</b>



## 2022-2026 Capital

	2022	2023	2024	2025	2026
<b>AWWTP</b>	<b>6,681,000</b>	<b>1,554,000</b>	<b>3,948,000</b>	<b>1,149,000</b>	<b>5,951,000</b>



## 2022-2026 Capital

Project Description	2022	2023	2024-2026	Comments
1990 HVAC Replacement	20,000	20,000	20,000	Four year project. One unit per year.
Asset Management Renewal Assessment Waste Water Lift Stations	30,000	30,000	260,000	Replacing failing pump at Wilson
AWWTP - Asset Management Renewal	425,000	750,000	2,541,000	Replacing failing items
AWWTP - Bioreactor Gate Replacement	250,000	250,000	0	Replace corroded flow control gate
AWWTP - BIOREM Filter for Filter Plus Install	0	270,000	0	
AWWTP - PLC Upgrades	50,000	50,000	100,000	Replace unsupported aging electronics
<b>AWWTP Expansion and Upgrades</b>	<b>5,846,000</b>	<b>134,000</b>	<b>8,027,000</b>	<b>3<sup>rd</sup> Secondary clarifier, cake bin room, NMLR pump</b>
Power Monitoring Efficiencies	25,000	15,000	30,000	Five year project to improve power efficiency at the plant
SCADA Efficiencies	35,000	35,000	70,000	Five year project to improve the benefits of SCADA
<b>Total</b>	<b>6,681,000</b>	<b>1,554,000</b>	<b>11,048,000</b>	



## Fund Summary

	2022 Budget
<b>Total Revenue</b>	<b>(9,219,918)</b>
AWWTP Expense	2,718,667
Sewer Collection Expense	858,150
Net Allocations	1,889,820
Transfers	<u>(758,132)</u>
<b>Total Operating Expenses</b>	<b><u>4,708,505</u></b>
<b>Net Operating Surplus</b>	<b>(4,511,413)</b>
Sewer Capital Expense	2,658,150
Transfer to Capital Reserve	<u>1,853,263</u>
<b>Sewer Fund Balance</b>	<b>-</b>

## Proposed Increase for Council's Consideration

Budget Request	Benefit	Operating Budget Request
Cleanliness initiative for parks and core City areas	In 2022, the proposed budget provides additional funds to the Public Works department to expand our current maintenance levels for Penticton's parks and core areas.	\$140,000



# Questions?



# Recommendation

**THAT Council approve in principle the Infrastructure business plan initiatives and proposed budget, subject to final review.**