		2017			
		Budget	Formula		IT
		Recommended	Funding	Grants	Reserve
		(\$000s)	(\$000s)	(\$000s)	(\$000s)
General Government	Page #				
Administration					
Tourism Kiosk	316	80	55	25	
		80	55	25	-
Community Energy Plan (CEP) Initiatives					
Energy Coordinator	212	95	95		
Centralized Boiler System	318	255	255		
Heat Distribution Piping to Water Treatment Plant	348	150	150		
		500	500	-	-
Information Technology					
Network Upgrades	222	25			25
GIS Enhancements	222	50			50
Server and Storage Replacements	223	40			40
Communication Infrastructure Renewal	224	25			25
Security Cameras	224	20			20
Secondary Site & Data Replication	224	20			20
Website Enhancements	225	15			15
Virtualization	233	25			25
Door Access Controls	225	20			20
Multi-function Devices and Printers	226	50			50
		290	-	-	290
Subtotal		870	555	25	290

CAPITAL FUND - 2017 Capital Projects

Department Corporate Services

Division Corporate Services and Risk Management
Project Heat Distribution Piping to Water Treatment Plant

Project Description

A 520kW pellet boiler at Pumphouse #1 would have surplus capacity during shoulder season to supply additional heat for the Water Treatment Plant.

Justification

Installing insulated pipes between the pellet boiler and Water Treatment Plant will enable the boiler to operate at higher capacity in September and October, before the City's water supply needs to be heated. Since pellets purchased in bulk cost only 30% of the cost of oil, replacing as much oil as possible with a pellet boiler increases the return on the boiler investment.

Operating Cost Impacts

Heating cost reduction of \$100,000

Project's Impact on Other Departments

The public works department would benefit from the cost savings

Project's Return on Investment

66%

City Council's Goals/Objectives/Actions

Goal #2: Stewards of our natural and built environment

Objective #2(c): Develop smart and sustainable approaches to energy,

water and sewer, waste management and building

systems.



Expenditures		Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Capital Cost						
	Design					
	Development					
	Construction Engineering	20,000				20,000
	Construction	60,000				60,000
	Equipment					
	Materials	70,000				70,000
	Total:	150,000				150,000

Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Formula Funding	150,000				150,000
Total:	150,000				150,000

		2017 Budget	Formula	
		Recommended	Funding	Grants
		(\$000s)	(\$000s)	(\$000s)
Community Services	Page			
Parks/Trails				
Yellowknife Rotary Park -Trail Extension	244	20	20	
Surfacing of Niven Lake Trail	351	195	195	
Tennis Court Re-surfacing	352	100	100	
Spray Park at Sombe Ke Civic Plaza	353	585	585	
Pool				
Refinishing the Floor	355	100	20	80
Subtotal		1,000	920	80

Division Facilities

Project Surfacing of Niven Lake Trail

Project Description

The Niven Lake Trail is approximately two kilometres in length and 2,764 square metres in area. Since the construction of this trail, the Niven Lake Subdivision has expanded, leading to dramatic increase in use of this trail. It is proposed to widen this trail from two to three metres and asphalt it, thus making the trail more adaptable and safer as a multi-use trail. Widening the trail to three metres would allow for the option of bicycle lanes. The cost to widen and pave the trail is \$195,000 (\$95 per square meter x 2,000 metres). This cost covers preparing the trail for asphalt and the asphalt itself.

Justification

This trail has now become the City's second main commuter trail and is used extensively by walkers, runners, and cyclists from the Niven Lake area.

Operating Cost Impact

There will be no additional costs for maintenance, as this will be covered under our normal operations budget.

Project's Impact on Other Departments

N/A

Project's Return on Investment

A second all-season trail would provide an important link for those who commute between Niven Lake Subdivision and the downtown core.

City Council's Goals/Objectives/Actions

Goal #2: Stewards of our natural and built environment

Objective #2(a): Maintain, respect, preserve and enhance the natural

environment, natural heritage and green space

Objective #2(b): Improve transit, roads, sidewalks, recreation facilities

and trails with an emphasis on active and healthy living

choices

Objective #2(e): Maintain and enhance core services and adapt to

changing needs

2017 Capital Cost: \$195,000

Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Formula					
Funding	195,000				195,000
Total:	195,000				195,000

Division Facilities

Project Tennis Courts – Re-surfacing

Project Description

The City has three tennis court locations in Yellowknife: three courts at Niven Beach, three courts at Somba K'e, and two courts at the City reservoir, all of which are widely used by the Yellowknife Tennis Club and drop-in users. Over the past few years, the protective rubber surface on these courts has started to peel away through a combination of use and age.

It is proposed to use a SportMaster 100% acrylic tennis court surface for this project. SportMaster tennis court surfaces are formulated to resist fading and withstand a variety of weather conditions, from ice and snow to intense heat and ultra-violet light.

Justification

As the tennis courts are among the City's most popular recreational facilities over the summer months, it is important that we have good

quality facilities.

Operating Cost Impact

No significant O/M impact will be felt.

Project's Impact on Other Departments

N/A

Project's Return on Investment

A long-lasting court surface that will serve the needs of the community

City Council's Goals/Objectives/Actions

Goal #2: Stewards of our natural and built environment

Objective #2(a): Maintain, respect, preserve and enhance the natural

environment, natural heritage and green space

Objective #2(b): Improve transit, roads, sidewalks, recreation facilities

and trails with an emphasis on active and healthy living

choices

Objective #2(e): Maintain and enhance core services and adapt to

changing needs

2017 Capital Cost: \$100,000

Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Formula Funding	100,000				100,000
Total:	100,000				100,000



Division Facilities

Project Spray Park at Somba K'e Civic Plaza

Project Description

To construct a 3,000 sq. ft. spray park in Somba K'e Civic Plaza in 2017. The Spray Park will be located between the play structure and the washroom. It will be a "drain-away" facility, which means that the used water will immediately flow into the drains and fresh water will be used to operate the equipment. This system requires less staff time for maintenance and health and safety checks.

Justification

The Spray Park will encourage families and young people to engage in healthy outdoor activity and attract more people to the downtown core of the city.

Operating Cost Impact

Operating costs should be minimal. Staff will clean the pad daily, inspect the equipment and do the necessary repairs. There will be water consumption to operate the equipment. This equipment would operate approximately 12 weeks a year, with two weeks of prep work at the start of the season and a week to winterize at the end of the season.

Project's Impact on Other Departments

None identified at this time

Project's Return on Investment

No monetary gain on the investment.

City Council's Goals/Objectives/Actions

Goal #2(b): Improve transit, roads, sidewalks, recreation facilities

and trails with an emphasis on active and healthy living

choices.

2017 Capital Cost: \$585,000





Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017
Formula Funding	585,000				585,000
Total:	585,000				585,000

Division Programs

Project Refinishing the Floor at Ruth Inch Memorial Pool

Project Description

To retile the main floor of Ruth Inch Memorial Pool

Justification

Ruth Inch Memorial Pool opened its doors to the public in the fall of 1988. The pool continues to be popular among residents and visitors. In 2010, the City contracted an engineering firm for a life cycle analysis of the facility which identified items that needed to be addressed to ensure the pool meets or exceeds its life expectancy. As the floor finishes are deteriorating and the moisture barrier has failed in several spots, it is recommended to replace the floor finish and upgrade the moisture barrier at this time, as it would likely be less expensive. This option would prevent further damage to the concrete slab and minimize maintenance and operational problems in the future. Unless this work is undertaken, it is not likely that the existing floor finishes and moisture barrier can be maintained for an additional 20 years.

Operating Cost Impact

This project will have no impact on the operating costs of the pool.

Project's Impact on Other Departments

This project will have no impact on other Departments

Project's Return on Investment

Undertaking this project will ensure the facility achieves its full life expectancy.

City Council Goals/Objectives/Actions

Goal #2(b): Improve transit, roads, sidewalks, recreation facilities

and trails with an emphasis on active and healthy living

choices.

2017 Capital Cost: \$100,000

Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Formula Funding	20,000				20,000
Grant	80,000				80,000
Total:	100,000				100,000

		2017 Budget Recommended (\$000s)	Formula Funding (\$000s)
Public Safety	Page	_	
Directorate			
Wildland Fire Mitigation -Emergency Measures	253	100	100
Fire & Ambulance			
Emergency Medical Services Training Manikin	358	115	115
Propane Fueled Fire Trainer	359	90	90
Subtotal		305	305

		2017	
		Budget	Formula
		Recommended	Funding
		(\$000s)	(\$000s)
Planning & Development	Page		
Harbour Plan & Smart Growth Improvements	262	700	700
Streetscaping Initiatives	264	700	700
Subtotal		1,400	1,400





Department Public Safety
Division Fire and Ambulance

Project Emergency Medical Services (EMS) Training Manikin

Project Description

The EMS Training Manikin simulates a real person for training purposes.

Justification

This state-of-the-art training manikin will improve our EMS delivery to the general public. It simulates working with a real patient, giving our emergency responders a chance to train and refresh their skills based on actual medical situations. The manikin simulates all the medical problems and speaks to the emergency responders, describing what the patient is feeling to coincide with how the patient presents him or herself.

Operating Cost Impact

Minimal

Project's Impact on Other Departments

None

Project's Return on Investment

Better EMS delivery to the citizens of Yellowknife and beyond.

City Council's Goals/Objectives/Actions

Objective #2(e): Maintain and enhance core services and adapt to

changing needs

Action #2.5: Develop a customer service model of excellence

2017 Capital Cost: \$115,000

Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Formula Funding	115,000				115,000
Total:	115,000				115,000



Department Public Safety
Division Fire and Ambulance

Project Propane-Fuelled Fire Trainer

Project Description

Propane-fired training appliance.

Justification

This training equipment would enable firefighters to complete National Fire Protection Association 1001 standards. The system currently in use for this training requires petroleum products, which have a harmful effect on the environment.

Operating Cost Impact

Minimal, as the cost would fit into the current training budget.

Project's Impact on Other Departments

None

Project's Return on Investment

None

City Council's Goals/Objectives/Actions

Objective #2(e): Maintain and enhance core services and adapt to

changing needs

Action #2.18: Create a safer, cleaner and vibrant city

2017 Capital Cost: \$90,000

Funding Sources	Total Estimated Cost \$	Prior Year Funding \$	2015 \$	2016 \$	2017 \$
Formula Funding	90,000				90,000
Total:	90,000				90,000

		2017	
		Budget	M.E.R.
		Recommended	Reserve
		(\$000s)	(\$000s)
Public Works & Engineering	Page		
Fleet Management	274		
1167-06 F250 4X4		65	65
1193-12 Polaris Snowmobile		15	15
1194-12 Polaris Snowmobile		15	15
1016-07 RAM 2500		65	65
1049-13 F-150 XLT		55	55
1061-07 RAM 1500		35	35
1069-07 E-150		40	40
1072-07 Ranger 4x4		35	35
1075-07 RAM 1500		35	35
1158-05 F-550 Picker		85	85
1159-05 F-550 Steamer		85	85
1160-05 60" Exmark Mower		15	15
2109-01 E-350 SD Ambulance		175	175
2120-98 Ford LT8513 Water Tanker		325	325
		1,045	1,045

		2017			MACA	
		Budget	Formula	M.E.R.	Gas Tax	Capital
		Recommended	Funding	Reserve	Rebate	Grant
		(\$000s)	(\$000s)	(\$000s)	(\$000s)	(\$000s)
Engineering & Garage						
Traffic Lights Video Detection Equipment	278	40	40			
Diagnostic Equipment & Specialty Tools for Mechanics	280	20	20			
City Garage Building and Yard Improvements	336	50	50			
Roads & Sidewalks						
Road Rehabilitation	282	2,325	115			2,210
Drainage Improvements and Storm Sewer Repairs	286	50	50			
		2,485	275	-	-	2,210
Solid Waste Management						
Landfill						
Baling Facility Mechanical Upgrades	288	25			25	
Centralized Composting Program	290	700			700	
		725	-	-	725	-
Pumphouses/Liftstations (PHs/LSs)	222	0.7			0.5	
Capital Upgrades	298	65			65	
Potable Water Reservoir Flushing & Cleaning	341	25			25	
Pump Replacement	300	100			100	
Monitoring & Controls Maintenance and Upgrading	302	75			75	
LS#5 Pipe Replacement	344	300			300	
Other						
Water Meter Replacement and Upgrades	304	25			25	
PH & LS - Genset Installation	306	200			200	
CMP Replacement Program	308	2,980			2,980	
		3,770		-	3,770	-
PW Subtotal		8,025	275	1,045	4,495	2,210

THIS PAGE LEFT BLANK INTENTIONALLY

