

# CAPITAL PROFILE REPORT

PROFILE NAME: **TURF ENHANCEMENT**  
 PROFILE NUMBER: **CM-66-2727**  
 DEPARTMENT: **City Operations**  
 LEAD BRANCH: **Parks & Roads Services**  
 PROGRAM NAME:  
 PARTNER:  
 BUDGET CYCLE: **2019-2022**

**UNFUNDED**

PROFILE STAGE: **Entry - Create Profile**  
 PROFILE TYPE: **Composite**

LEAD MANAGER:  
 PARTNER MANAGER:  
 ESTIMATED START:  
 ESTIMATED COMPLETION:

Service Category: Major Initiative:

**GROWTH**  
100

**RENEWAL**

PREVIOUSLY APPROVED: -  
 BUDGET REQUEST: 500  
 TOTAL PROFILE BUDGET: 500

## PROFILE DESCRIPTION

Administration presented three options for the Turf Maintenance Enhancement Program in CR\_5463 on October 17th, 2018. Committee requested Option B be presented as part of the 2019-2022 capital budget deliberations.

Option B requests a one-time capital investment of \$500,000 for new equipment to increase Turf Health Care (THC) practices on an ongoing basis on 100 additional sports fields throughout the City of Edmonton.

In addition, Option B will maintain the Turf Maintenance Enhancement Program as delivered in 2018 including the application of Iron Chelate on sports fields for weed control and a weekly mowing cycle for 6 weeks across the entire City turf inventory.

### Current State of Equipment

To implement the THC program, operations deploys several pieces of equipment including agricultural tractors, top dressers, over seeders, fertilizer spreaders, aerators and dethatchers.

Our current equipment inventory is maximized and can only annually support the THC program on 100 fields across the city.

### Proposed Equipment Investment

To implement the THC program on an additional 100 fields city wide, administration requests capital funding for more equipment. With capital funding of \$500,000, administration will acquire the following equipment while maintaining our current inventory:

- 2 Agricultural tractors (\$100,000 each)
- 2 overseeders (\$18,000 each)
- 2 top dressers (\$38,000 each)
- 2 aerators (\$45,000 each)
- 2 fertilizer spreaders (\$9,000 each)
- 1 GPS line marker (\$20,000 each)
- Contingency (\$60,000)

Should this capital funding request be approved, administration will upgrade to modern equipment as well as increase equipment availability to reach our goal.

## PROFILE BACKGROUND

Administration requires additional turf care equipment to meet the service levels identified in Option B of CR\_5463. This equipment will increase turf health care operations and sustainably improve the resilience of turf in the city.

THC practices are the best way to ensure vitality and long term sustainability of turfgrass. They reduce susceptibility of turfgrass to health problems including diseases, weeds, pests and stress by improving the individual plant's health and vigor. This proactive approach to maintaining turf health through holistic cultural management and integrated treatments includes: dethatching, aeration, top dressing, overseeding, fertilization and irrigation.

Additional equipment inventory would increase THC service levels from once every 14 to 16 years per sports field to once every 7 to 8 years. This will increase the number of fields receiving THC treatment from 100 to 200 per season. This is a significant change that will improve the quality of our Sport Field inventory while also increasing playtime and safety for users.

## PROFILE JUSTIFICATION

Turf Health Care is a highly mechanised activity using various equipment. Increasing THC equipment inventory has a direct impact on expanding our THC program to an additional 100 fields.

This expansion will lead to better quality play surfaces on sports fields across Edmonton and will reduce the cycle time between care. Better quality turf has better health and vigor hence greater resistance to diseases, better tolerance of low moisture levels, and better suppression of weed colonies. It will provide a surface that allows players to compete safely and at a reasonable level of competition.

## STRATEGIC ALIGNMENT

This profile supports maintaining or improving service levels by providing well maintained turf and sports fields. The profile also supports the connection of people to what matters to them and demonstrates concern about the impact of our actions on our social, cultural and environmental systems.

The future Turf Management Policy aims to address overall equipment stewardship.

## ALTERNATIVES CONSIDERED

The City of Edmonton is committed to providing safe and aesthetically-pleasing outdoor park environments. Healthy, properly-maintained green spaces contribute substantially to human wellness by reducing stress and encouraging physical activity. Finding the right mix between allowing turf to grow naturally while simultaneously managing its health, reducing broadleaf weeds, and ensuring its safety for all Edmontonians, is a fine balance.

## CONCLUSIONS AND RECOMMENDATIONS

The City of Edmonton is committed to providing safe and aesthetically-pleasing outdoor park environments. Healthy, properly-maintained green spaces contribute substantially to human wellness by reducing stress and encouraging physical activity. Finding the right mix between allowing turf to grow as naturally as possible while simultaneously managing its health, reducing broadleaf weeds, and ensuring its safety for all Edmontonians is a fine balance.

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PROFILE NAME: **Turf Enhancement**  
 PROFILE NUMBER: **CM-66-2727**  
 BRANCH: **Parks & Roads Services**

**UNFUNDED**  
 PROFILE TYPE: **Composite**

### CAPITAL BUDGET AND FUNDING SOURCES (000's)

APPROVED BUDGET		Prior Years	2018	2019	2020	2021	2022	2023	2024	2025	2026	Beyond 2026	Total
	Approved Budget	Original Budget Approved	-	-	-	-	-	-	-	-	-	-	-
	Current Approved Budget	-	-	-	-	-	-	-	-	-	-	-	-

BUDGET REQUEST	Budget Request	-	-	500	-	-	-	-	-	-	-	-	500
	Revised Funding Sources (if approved)												
	Pay-As-You-Go	-	-	500	-	-	-	-	-	-	-	-	500
	Requested Funding Source	-	-	500	-	-	-	-	-	-	-	-	500

REVISED BUDGET (IF APPROVED)	Revised Budget (if Approved)	-	-	500	-	-	-	-	-	-	-	-	500
	Requested Funding Source												
	Pay-As-You-Go	-	-	500	-	-	-	-	-	-	-	-	500
	Requested Funding Source	-	-	500	-	-	-	-	-	-	-	-	500

### CAPITAL BUDGET BY ACTIVITY TYPE (000's)

REVISED BUDGET (IF APPROVED)	Activity Type	Prior Years	2018	2019	2020	2021	2022	2023	2024	2025	2026	Beyond 2026	Total
		Equip FurnFixt	-	-	500	-	-	-	-	-	-	-	-
	Total	-	-	500	-	-	-	-	-	-	-	-	500

### OPERATING IMPACT OF CAPITAL

Type of Impact:

Branch:																
	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE
Total Operating Impact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-