



Environmental Plan Update

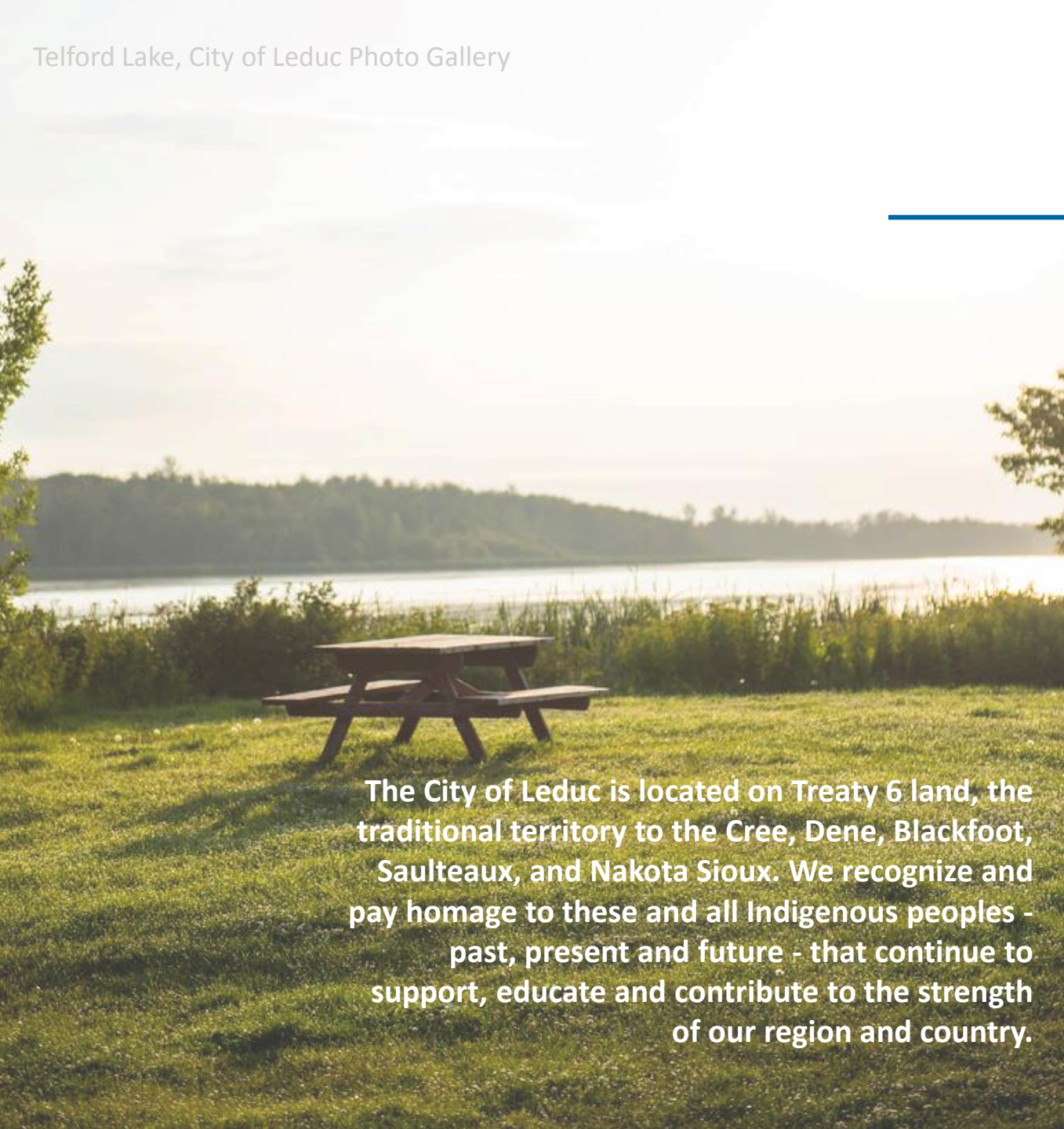
Telford Lake, City of Leduc Photo Gallery

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SYSTEMS

CITY OF
Leduc

Agenda

- Environmental Plan Overview
- Project Timeline
- Engagement Summary
- Key Elements
- Implementation
- Plan Alignment
- Next Steps



The City of Leduc is located on Treaty 6 land, the traditional territory to the Cree, Dene, Blackfoot, Saulteaux, and Nakota Sioux. We recognize and pay homage to these and all Indigenous peoples - past, present and future - that continue to support, educate and contribute to the strength of our region and country.

Environmental Plan Overview

- Adopted in 2012 and requires an update **to guide the next 10 years of environmental initiatives**
- Updates have:
 - Aligned with and build on key elements of the 2012 Plan
 - Reflected council values in the Strategic Plan (2023-2026) to balance growth and environmental stewardship
 - Incorporated best practice sustainability initiatives and community feedback



Project Timeline

Summer 2023

Background & Update Initiation: An Environmental Baseline report was developed to understand the current conditions, current governmental standards, and evaluate most up-to-date environmental practices.



Fall 2023

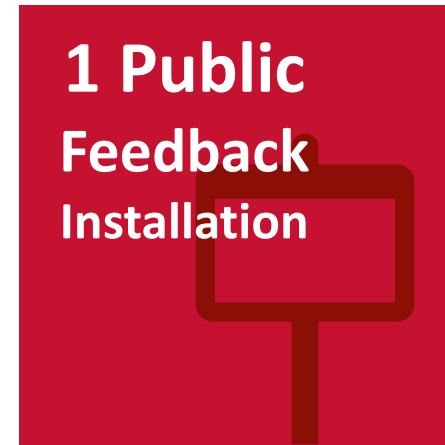
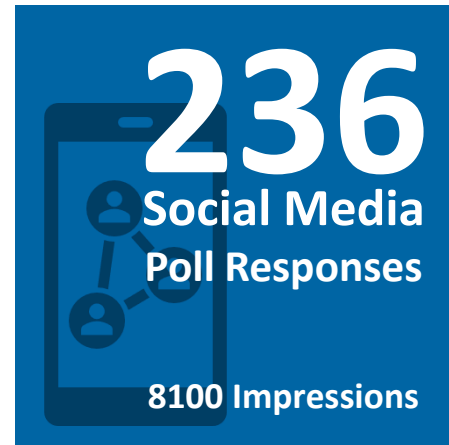
Community Engagement: Engagement was implemented to seek community input to understand environmental priorities and vision for the Plan.



Winter 2023 –
Spring 2024

Draft Environmental Plan: Environmental baseline data and community feedback was utilized to inform the updated priorities outlined in the draft Environmental Plan.

Engagement Summary



Engagement Summary: Themes

Key themes that emerged from the engagement process were:



A strong desire to preserve and enhance environmentally significant areas for future generations (including Telford Lake)



A high degree of awareness of environmental initiatives, specifically waste diversion programs



An interest to expand waste diversion, water conservation, and renewable energy initiatives



A desire to learn about, participate in, and volunteer for new and ongoing environmental initiatives

Environmental Plan: Key Elements

Actions have been identified within the following themes:



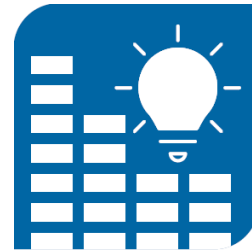
Waste

- Diversion Streams
- Community Programming
- Infrastructure



Climate & Energy

- Transportation
- Efficiency
- Clean Energy
- Climate Adaptation



Ambient Impacts

- Air Quality
- Light Management
- Noise Management



Water

- Stormwater
- Conservation
- Nature Water Systems & Watersheds



Land

- Biodiversity
- Land Use
- Stewardship

Environmental Plan: Plan Alignment

The Environmental Plan update aligns with the 2023-2026 Strategic Plan's goals to:

- ✓ Enhance citizen engagement to shape our community
- ✓ Ensure that the City of Leduc has clear plans and strategies, supported by emerging technologies, to improve the efficiency and effectiveness of services and programs
- ✓ Focus on the preservation of our natural environment through the implementation of sustainable environmental initiatives
- ✓ Build community capacity and improve the efficiency and effectiveness of municipal programs, services and infrastructure by working collaboratively with other stakeholders
- ✓ Identify and implement innovative initiatives by leveraging new and existing partnerships

Implementation Table of Actions

Highlighting highest priority items:

Theme	Action	Responsibility	Delivery Partners (if needed)	Priority (Low, Medium/High)	Required Effort	Estimated Cost	Alignment with the 2023 Strategic Plan (SP) and 2023 Corporate Business Plan (CBP)
Waste	Work with schools to broaden waste diversion services to schools.	Environmental Services	School Boards	High	Medium	Internal resources	CBP2.2.2., SP4.1.2
Waste	Work with multi-unit residential owners and operators to implement recycling and organics collection. *	Environmental Services	Communications, Producer Responsibility Organizations (PROs), Planning & Development	High	Medium	\$60,000*	CBP2.2.2., SP2.1.3.
Energy and Climate Resiliency	Evaluate solar feasibility for all new City facilities or major retrofits on corporate buildings	Environmental Services, Facilities		High	Medium	Internal resources	SP2.1.3., SP3.1.1.
Energy and Climate Resiliency	Complete an update of the City's 2014 Weather and Climate Readiness Plan.	Environmental Services	Public Services	High	High	\$60,000	SP2.1.1.
Land	Develop a Natural Asset Inventory to better communicate the value of natural amenities in the community and the ecosystem services they provide.	Environmental Services, Parks	Finance, Planning & Development, Community Development	High	High	\$80,000	SP2.1.1.,SP2.1.4.,SP3.1.1.SP2.1.2
Land	Develop a Naturalized Area Plan to outline objectives and strategies for the management of vegetation, wildlife and their habitat	Environmental Services, Parks		High	Medium	\$50,000	SP2.1.1., SP2.1.2.
Land	Develop a public awareness campaign about pesticide use, alternative weed control methods on private property and restoration options. *	Environmental Services, Communications, LEAB	Parks	High	Medium	\$30,000 *	SP1.1.1.,SP2.1.2.
Land	Explore opportunities for expanding the Environmental Reserve to protect natural areas (ex: conservation easements)	Planning, Environmental Services	Engineering, Parks	High	High	Internal resources	SP2.1.2., CBP2.2.4.

Implementation Table of Actions

Highlighting medium priority items:

Theme	Action	Responsibility	Delivery Partners (if needed)	Priority (Low, Medium/High)	Required Effort	Estimated Cost	Alignment with the 2023 Strategic Plan (SP) and 2023 Corporate Business Plan (CBP)
Waste	Assess expanding Eco Station diversion streams (examples, mattress recycling station, fridges, drywall).	Environmental Services	Public Services, Communications	Medium	Medium	Internal resources	SP2.1.2., SP2.1.3.
Waste	Work with regional partners and other levels of government to identify opportunities to reduce the communities' dependence on single-use plastics.	Environmental Services		Medium	Low	Internal resources	SP3.1.2
Waste	Develop education programs for schools about waste diversion.	Environmental Services	Communications, School Boards	Medium	Medium	\$10,000	CBP2.2.2., SP4.1.2
Waste	Work with the Leduc and District Regional Waste Management Commission and the Province to investigate ways to enhance waste diversion in the community and the reclamation (e.g. landfill bans)	LDRWMC, Environmental Services		Medium	Medium	Internal resources	SP4.1.1., SP4.1.2., SP2.1.3.
Waste	Develop requirements for multi-stream diversion for Industrial, Commercial & Institutional (ICI) customers	Environmental Services, Planning & Development		Medium	Medium	\$80,000	CBP2.2.2.
Water	Coordinate with and support actions identified in the City's Stormwater Master Plan (2024).	Engineering	Engineering/Public Services	Medium	Medium	See Plan	SP2.1.1.
Energy and Climate Resiliency	Identify opportunities to continue the Clean Energy Improvement Program (CEIP) to include both more residential and commercial properties.	Environmental Services	Finance, Alberta Municipalities	Medium	Medium	Internal resources	SP4.1.2., SP3.1.1.

Implementation Table of Actions

Highlighting medium priority items:

Theme	Action	Responsibility	Delivery Partners (if needed)	Priority (Low, Medium/High)	Required Effort	Estimated Cost	Alignment with the 2023 Strategic Plan (SP) and 2023 Corporate Business Plan (CBP)
Energy and Climate Resiliency	Share the progress of the GHG Reduction Action Plan (2018) with the community.	Environmental Services	Communications	Medium	Low	Internal resources	SP1.1.1., CBP2.1.8
Land	Research financial incentives for developers to encourage more residential infill development.	Planning, Environmental Services		Medium	Medium	Internal < \$10,000	SP2.1.2., CBP2.2.4.
Water	Develop a staggered drought management plan to prioritize preserving natural assets (examples, community trees, etc.)	Environmental Services, Engineering	Public Services, Utility Services	Medium	Medium	\$50,000	SP2.1.2., SP2.1.3.
Water	Preserve and improve healthy riparian areas and wetlands	Environmental Services	Parks	Medium	Medium	Internal resources	SP2.1.2.
Ambient Impacts	Continue to partner with or participate in regional air pollution management organizations	Environmental Services	Public Services	Medium	Low	\$4,000	SP4.1.2., SP2.1.2.
Ambient Impacts	Explore opportunities to increase light efficiency (examples, dark-sky friendly policy to make all non-vital lighting to be solar)	Environmental Services, LEAB	Communications	Medium	Low	Internal resources	SP2.1.2., SP2.1.3.
Energy and Climate Resiliency	Develop a corporate Electric and Low Emissions Vehicle Strategy (fleet, transit)	Environmental Services	Public Services, Transit, Fleet	Medium	Medium	\$50,000	SP2.1.2., SP2.1.3., CBP2.2.5.

Implementation Table of Actions

Highlighting lowest priority items:

Theme	Action	Responsibility	Delivery Partners (if needed)	Priority (Low, Medium/High)	Required Effort	Estimated Cost	Alignment with the 2023 Strategic Plan (SP) and 2023 Corporate Business Plan (CBP)
Waste	Diversify recycling stream diversion opportunities (examples, curbside glass and soft plastics).	Environmental Services	Producer Responsibility Organizations (PROs), Communications	Low	Low	Internal resources	SP2.1.3., SP4.1.1.
Waste	Identify opportunities to expand Eco Station service offerings (including a re-use station, Library of Things).	Environmental Services	Public Services, Communicaitons	Low	Low	Internal resources	SP2.1.3., SP4.1.1.
Waste	Explore cost-sharing initiatives to accept waste at the Eco Station from additional municipal partners.	Environmental Services	Public Services	Low	Low	Internal resources	SP4.1.2., SP3.1.1., SP3.1.3.
Water	Investigate grass alternative incentives (examples, clover and x-scaping) to support water conservation and pollinators on city sites	Environmental Services	Public Services, Communications, Planning & Development	Low	Low	Internal resources	SP2.1.2.,SP2.1.3.
Water	Identify and explore opportunities to reuse grey water for irrigation and continue to have discussions with Alberta Environment and Protected Areas (EPA) (e.g. dedicated non-potable water trucks for City irrigation).	Environmental Services	Public Services, Utility Services, Parks	Low	Low	Internal resources	SP2.1.2., SP4.1.1.
Water	Explore more water conservation programs for the residents for example City's leak detection system	Utilities	Environmental Services	Low	Low	Internal resources	SP2.1.2.,SP2.1.3.
Ambient Impacts	Investigate reporting on local air quality conditions (AQHI)	Environmental Services		Low	Low	\$10,000	SP4.1.2
Ambient Impacts	Explore requirements for noise pollution/abatement for developments adjacent to environmentally sensitive areas.	Environmental Services		Low	Medium	Internal resources	SP2.1.2.
Energy and Climate Resiliency	Explore requirements for new building developments (including residential) to include Electric Vehicle charging stations.	Planning & Development, Environmental Services	Environmental Services, Planning & Development, Public Services	Low	Medium	Internal resources	SP2.1.2.,SP3.1.1.,CBP2.2.5.

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Theme	Action	Responsibility	Delivery Partners (if needed)	Priority (Low, Medium/ High)	Required Effort	Estimated Cost	Alignment with the 2023 Strategic Plan (SP) and 2023 Corporate Business Plan (CBP)
Energy and Climate Resiliency	Explore opportunities for a car-share program to reduce the need for personal vehicles.	Environmental Services	Communications, Economic Development	Low	High	Internal resources	SP2.1.2., SP3.1.1., CBP2.2.5.
Energy and Climate Resiliency	Explore the feasibility of incorporating passive solar building design and green building guidelines into the design of municipal buildings.	Environmental Services, Facilities, Engineering	Planning & Development, Communications	Low	Low	Internal resources	SP2.1.3., SP3.1.1.1
Energy and Climate Resiliency	Create a carbon audit in all facilities, and investigate the costs and benefits of converting equipment.	Environmental Services, Facilities	Finance	Low	Medium	\$30,000	SP3.1.1.
Energy and Climate Resiliency	Coordinate with and support actions identified in the City's GHG Reduction Action Plan (2018)	Environmental Services	Communications	Low	Medium	See Plan	SP2.1.1., CBP2.2.5.
Land	Research the effectiveness of natural weed management programs (examples, goats).	Environmental Services, Parks		Low	Low	Internal resources	SP3.1.1.,
Land	Explore educational programming and communication opportunities to build resident understanding about human-wildlife interactions and biodiversity.	Environmental Services, Parks	Communications, LEAB, Animal Control	Low	Medium	Internal resources	SP1.1.1., SP2.1.2., SP4.1.2.
Land	Coordinate with and support actions identified in the City's Parks, Open Space and Trails Master Plan 2020 (POST)	Environmental Services, Parks	Community Development	Low	Low	See Plan	SP1.1.1., SP2.1.2., SP4.1.2.
Land	Create a plan to meaningfully integrate heritage planning and environmental topics (ex: interpretive signage)	Environmental Services, Culture and Heritage	Parks	Low	Medium	\$10,000	SP1.1.3., SP1.1.4.
Energy and Climate Resiliency	Create sustainability criteria for procurement processes	Procurement, Environmental Services		Low	Low	Internal resources	SP3.1.2.

Environmental Plan: Next Steps

- Seeking your support for the Environmental Plan
- Thank you for your time