



**PUBLIC WORKS
WATER, WASTEWATER, SOLID WASTE, FLEET, FACILITIES**

GOVERNANCE AND PRIORITIES COMMITTEE

OCTOBER 15, 2024

PUBLIC WORKS – WATER & WASTEWATER

Water and Wastewater Services provides direct utility services to County residents through the operation and maintenance of potable water distribution systems, wastewater collection systems, and wastewater treatment systems.

Responsible for:

- Acheson/Big Lake, Wabamun, and Entwistle water distribution systems
- Acheson/Big Lake, Atim Creek, Wabamun, Tomahawk, Duffield, and Entwistle wastewater collection systems
- Wabamun, Entwistle, Duffield, and Tomahawk wastewater lagoon treatment systems
- Three wastewater transfer stations for private wastewater truck disposal at Entwistle, Stony Plain, and Hwy 16/44

PUBLIC WORKS – WATER & WASTEWATER

Current Projects

- Asset repairs on a sanitary lift station Zone 5 in Acheson
 - Completed
- Water well abandonment in Entwistle and Wabamun
 - Tendering soon
- Pump issues in Wabamun Main Sewage Lift Station
 - Ongoing issues
- Wastewater haulers and ARROW Overstrength Charges
 - Options to Council
- Lifecycle assessment of Water and Wastewater buildings
 - Completed 3 large facilities, and remaining buildings to be completed in the future
- Establish SCADA Central Station in Wabamun Firehall
 - Completed and plans to upgrade the remaining facilities that communicate with the central station
- Longer term projects
 - Unaccounted water loss, water main valve replacement program in Entwistle and Wabamun

PUBLIC WORKS - SOLID WASTE

Solid Waste Services provides direct services and programs to County residents through the operation and maintenance of:

- 7 solid waste transfer stations (PCTS being the largest)
- 2 recycling centers
- Curbside solid waste collection in Entwistle
- Curbside solid waste, blue bag, and organics collection in Wabamun

PUBLIC WORKS - SOLID WASTE

Current Projects

- New Extended Producer Responsibility (EPR) legislation
 - Parkland County is now registered with the Alberta Recycling Management Authority (ARMA) under the EPR framework
 - Shifting of the financial and operational burden of collecting, transporting, managing, and recycling PPP (single use products, packaging, and printed paper products), and HSP (hazardous and special products) materials to ARMA who then pass costs to the producers who supply those materials
 - ↳ Council approved having Circular Materials responsible for blue bag recycling in Wabamun and paying the County to manage recycling at our Transfer Stations and Recycling Centers beginning April 1, 2025
 - ↳ Looking at the feasibility of bringing blue bag collection to Entwistle in 2025 so that the County may transition this new service to Circular Materials in the future
- This Fall, Public Works will tender solid waste collection, recycling, and disposal services for the Big Lake residential area and bring back recommendations to Council regarding provision of this new service to the area.
 - ↳ Tender closes October 17, 2024,
 - ↳ RFD to Council in November 2024
 - ↳ If approved, then services will be implemented for April 1st, 2025

PUBLIC WORKS - SOLID WASTE

Current Projects (continued)

- Establish FORTIS power to replace the old generator that runs the compactor at Kapasawin Transfer Station
 - Completed
- New camera system for the new scale house kiosks and the main tipping building at the Parkland County Transfer Station
 - Installed in tipping building, with remaining cameras for new kiosks to be budgeted for in 2025
- Life cycle assessment of all Solid Waste facilities to gather condition information and future replacement costs
 - Completed. Budgeting for new trailers at Seba Beach, and Kapasiwin solid waste transfer stations in 2025

PUBLIC WORKS - FLEET

Fleet Management Services manages:

- Vehicle and equipment acquisition and disposals
- Maintenance for County equipment and vehicles
- Fuel management
- GPS equipment
- Vehicle and equipment rentals

Parkland County's fleet consists of 75 light and medium duty vehicles, 11 heavy trucks, and 138 light, medium, and heavy pieces of equipment with an approximate replacement value is \$43.2M

Fleet Life Cycle Plan Purchases in 2024 consists of 55 vehicles or equipment being replaced with a value of \$6,028,400

– A purchase order has been issued for a number of trucks with estimated delivery in early 2025

PUBLIC WORKS - FLEET

Current Projects

- Mobile Equipment Life Cycle Plan update

Reviewed opportunities to reduce fleet life cycle requirements including:

- ¼ ton trucks versus ½ tons for some areas
- Examining the size of graders
- Extending the life and warranty on graders and loaders
- Extending life for low mileage vehicles in satisfactory shape
- Analyze rental versus ownership for low use vehicles

- Incorporated ¼ ton trucks into the plan and included in 2024 truck purchase order

- Still examining the impact of smaller grader, and purchase of extended life and warranty on loaders and graders

PUBLIC WORKS - FACILITIES

The Parkland County Facilities Maintenance Services division oversees Parkland County's facilities, assets, operations, maintenance, and utilities. The division manages 27 buildings valued at \$72 million.

PUBLIC WORKS - FACILITIES

Current Projects

- 2023 Capital Projects - \$390,900
 - County Center air handling unit, water treatment system renewal
 - Air handling unit contract awarded and to be completed in Q2, 2025
 - Water treatment system completed and construction of the Hwy 779 lift station to be completed in 2025
- 2023 Operating Projects - \$725,600
 - Life cycle replacement items for County Centre, County Services Building, Entwistle Office/Food Bank, and Tomahawk buildings
 - Entwistle and Tomahawk projects are fully completed with County Centre and CSB at approximately 90% completion.

PUBLIC WORKS - FACILITIES

Current Projects (continued)

- Updated Life Cycle Plan

Life cycle plans for the Wabamun buildings to be presented to Council

- Short term requirement of more than \$700k to maintain existing facilities

- County Office and County Services Building Renovations Project

- Ongoing, with a Master Plan completion estimated for early 2025