

STORMWATER MASTER PLAN UPDATE

Governance & Priorities Committee

October 4, 2022

Stormwater Master Plan

- Council directed initiative
- Driven by continued drainage related concerns raised by residents
- County wants to have a better understanding of its role relating to:
 - regulatory and approval authority
 - operation and maintenance
 - infraction enforcement and
 - oversight related to stormwater management.



Timeline

- Project Charter presented to Council December 14, 2021
- ISL Engineering and Land Services selected as project consultant March 2022
- Meetings with County departments May / June 2022
- 50% draft report Sept 30/22
- Study wrap up March 2023

Scope of Study

- Phase 1 Stormwater
 Management Plan
 - Task 1: Basin Identification
 - Task 2: Regulatory Review
 - Task 3: System Management
- Phase 2 Tools and Resources
 - Scope to be determined during Phase 1



Information Reviewed to Date

- Federal and Provincial legislation and regulations
- Parkland County MDP, LUB regulations
- ASPs, Conceptual Schemes, servicing studies
- Engineering design standards
- Drainage operation and maintenance database
- Strategic Overview Bridge Files 2021

Field Tour

- Agricultural
 - drainage with constructed watercourses
- Country residential areas
 - Southeast flat areas
 - Glory Hills knob & kettle country
 - Jackfish Lake new development with current design standards
- Acheson Industrial
- Wabamun

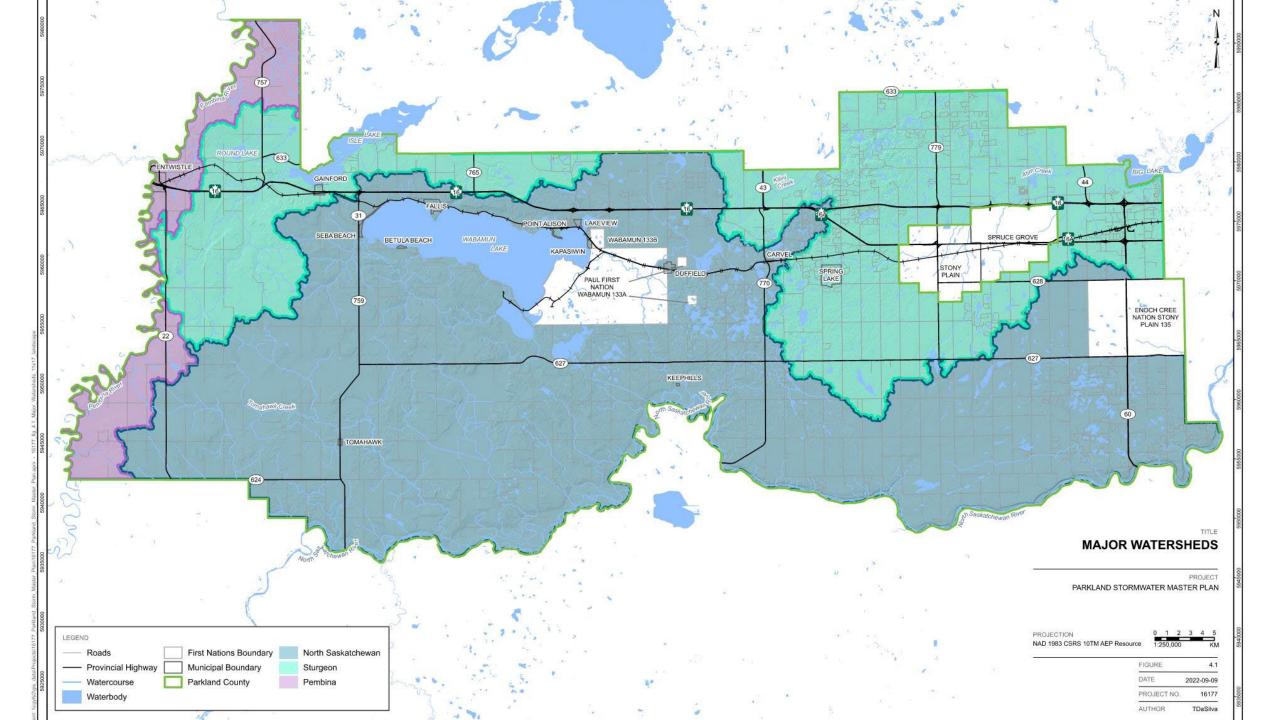


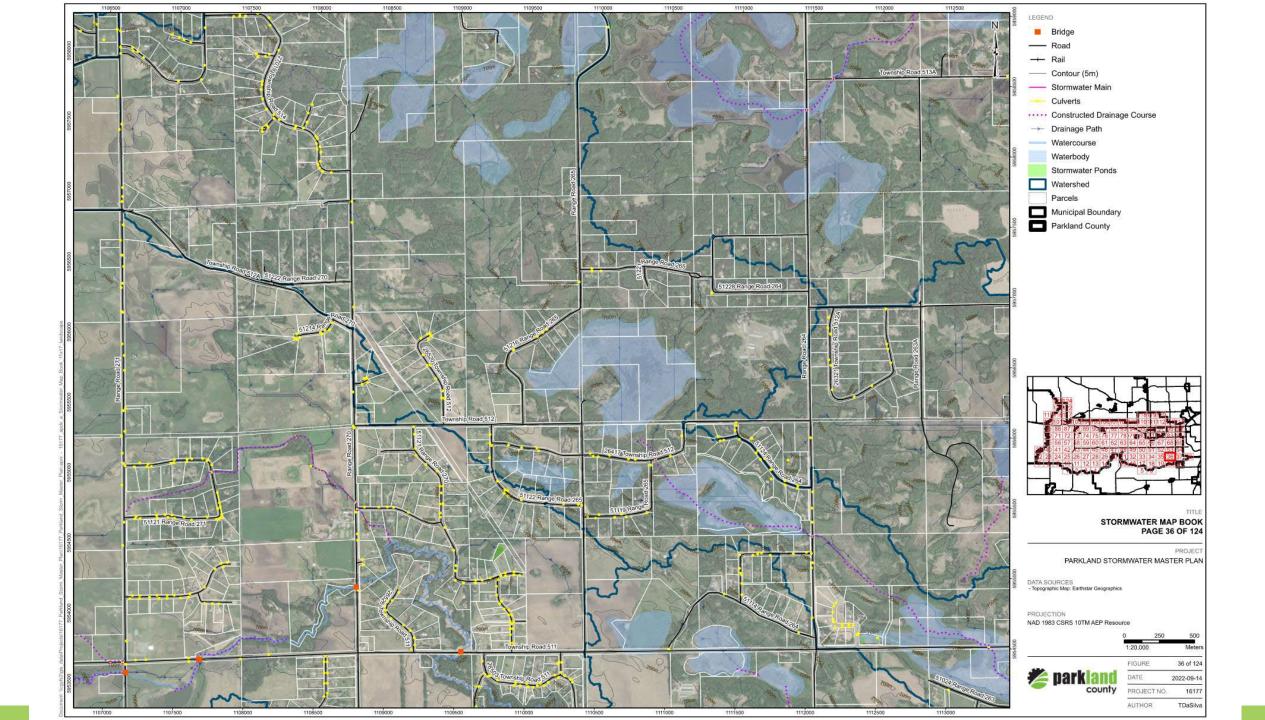
County Administration Input

- Project team meetings to date:
 - Planning & Development Services
 - Engineering Services
 - Land Development Engineering
 - Capital Construction
 - Engineering Projects
 - Public Works
 - Roadway Maintenance & Drainage
 - Agriculture Services
 - Enforcement Services
 - Information Services

Basin Identification & Mapping

- River watersheds, creek basin boundaries
- Detailed topographic mapping
- Drainage patterns identified
- Existing and planned storm drainage infrastructure
- Detailed "mapbooks" created 124 separate maps 1:20,000
- Identification of drainage problem areas
 - Site visit by project team





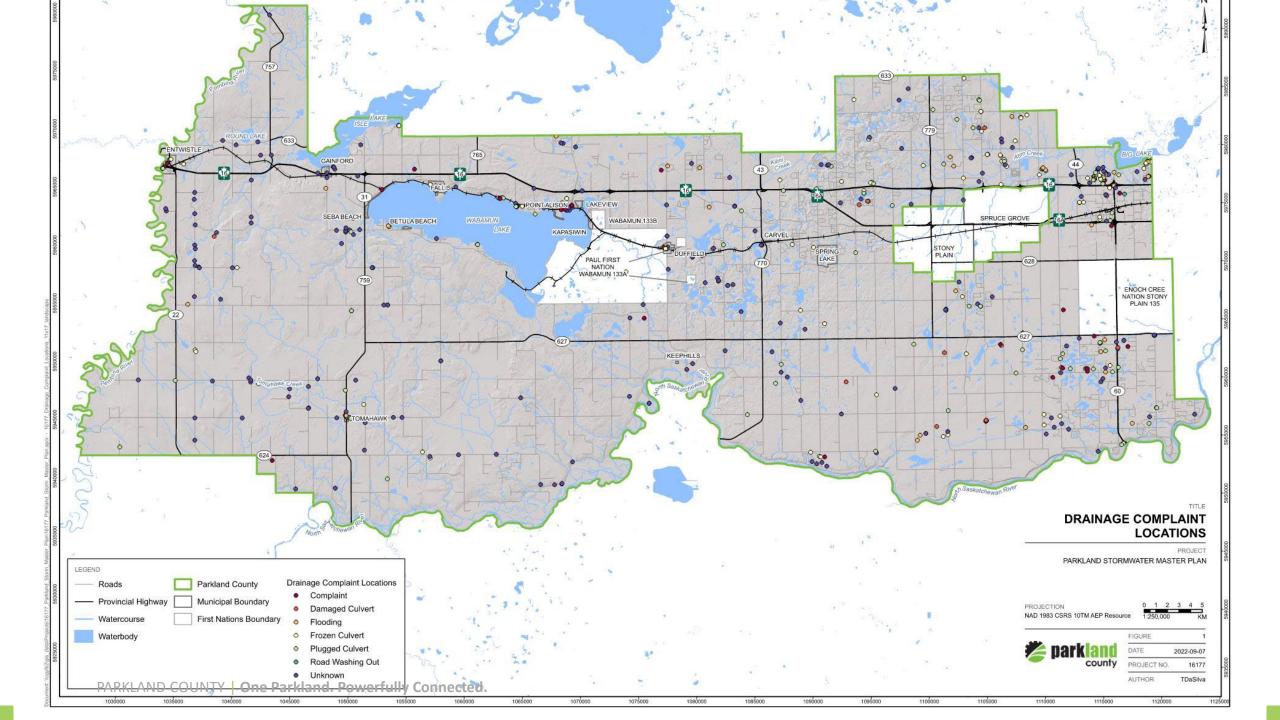
Regulatory Review

- Federal
 - Navigable Waters Act, Fisheries Act
- Provincial
 - Water Act
 - Environmental Protection & Enhancement Act
 - Municipal Government Act
- Regional Governance EMRB
 - MRSP Stormwater
- Municipal
 - MDP, LUB Regulations



Systems Management

- Registered drainage courses
- Triaging drainage complaints
- Development approval processes
- Enforcement practices
- Level of service



Next Steps

- County reviewing 50% draft report
- Follow up meetings with County departments
- Meetings with external stakeholders
 - October 2022 to January 2023
- Future Council presentations
 - December 2022 / January 2023



Questions?



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