

A GENDA FOR THE TOWN OF BEAVERLODGE COUNCIL MEETING TO BE HELD MONDAY APRIL 24, 2023 AT 7:00 PM IN COUNCIL CHAMBERS #400-10 STREET BEAVERLODGE, AB

1.0	CALL TO ORDER:	
2.0	LAND ACKNOWLEDGEMENT:	PP 2
3.0	ADOPTION OF AGENDA:	
4.0	ADOPTION OF MINUTES: 4.1 April 11, 2023 - Regular Council Meeting Minutes	PP 3-5
5.0	DELEGATIONS: 5.1 Community Garden – Debbie Schmuhl, Sharon Albright & Micki Olsenberg	PP 6
	5.2 Canadian Fiber Optics – Jodi Bloomer-Kaput	PP 7
	5.3 Grande Spirit Foundation – Steve Madden	PP 8
6.0	OLD BUSINESS:	
7.0	NEW BUSINESS: 7.1 ATCO Franchise Report – from C.O.W. April 11, 2023 – "That the Committee of the Whole recommends that Council accept this report for information at the April 24, 2023 Council meeting."	PP 9-12
	7.2 Chiller Replacement Update – from C.O.W. April 11, 2023 – " <i>That the Committee of the Whole recommends that this item be taken to Council on April 24, 2023."</i>	
	7.3 Street Performers Teaser – from C.O.W. April 11, 2023 – <i>"That the Committee of the Whole recommends that this item be taken to Council on April 24, 2023."</i>	PP 13
	7.4 Lagoon Upgrade Options Final Report - See Appendix A (148 pages)	
	7.5 Water & Wastewater Final Report	PP 14-46
	7.6 Appointment of 2023 Weed Inspectors	PP 47
8.0	CORRESPONDENCE: 8.1 Committee of the Whole Minutes – April 11, 2023	PP 48,49
	8.2 Alberta Farm Safety Centre	PP 50-52
	8.3 Community Enhancement Committee Minutes – Oct 18, 2022	PP 53,54



A Place to Build Dreams A Place to Build Dreams AGENDA FOR THE TOWN OF BEAVERLODGE COUNCIL MEETING TO BE HELD MONDAY APRIL 24, 2023 AT 7:00 PM IN COUNCIL CHAMBERS #400-10 STREET BEAVERLODGE, AB

9.0	COMMITTEE AND STAFF REPORTS:	
	9.1 Action List	PP 55
	9.2 Staff Reports	PP 56-62
10.0	CLOSED SESSION:	
	10.1 Contract – Mount View Health Complex – FOIP Section 27	
11.0	ADJOURNMENT:	



Phone: 780.354.2201 Fax: 780.354.2207

As long as the sun shines, grass grows and the rivers flow – we acknowledge the homeland of the many diverse First Nation & Métis people whose ancestors have walked this land.

We are grateful to live, learn and work on the traditional territory of Treaty 8 and we make this acknowledgement as an act of reconciliation and gratitude.



REGULAR COUNCIL MEETING MINUTES TUESDAY APRIL 11, 2023 AT 7:00 PM COUNCIL CHAMBERS 400-10 ST, BEAVERLODGE, ALBERTA

COUNCIL	Mayor Gary Rycroft Councillor Hugh Graw Councillor Cyndi Corbett	Deputy Mayor Cal Mosher Councillor Judy Kokotilo-Bekkerus Councillor Cody Moulds
STAFF	Jeff Johnston, CAO	Tina Letendre, Deputy CAO Nichole Young, Legislative Services

1.0 <u>CALL TO ORDER</u> Mayor Gary Rycroft called the meeting to order.

7:00 PM

2.0 LAND ACKNOWLEDGEMENT

As long as the sun shines, grass grows and the rivers flow – we acknowledge the homeland of the many diverse First Nation and Métis people whose ancestors have walked this land. We are grateful to live, learn and work on the traditional territory of Treaty 8 and we make this acknowledgement as an act of reconciliation and gratitude.

3.0 ADOPTION OF AGENDA

#082-2023-04-11 Councillor Judy Kokotilo-Bekkerus

CARRIED: That Council adopts the agenda with the following amendments:

- Addition of Old Business 6.2 Beaverlodge Health & Wellness Inc.
- Addition of New Business 7.8 Spring Clean Up

4.0 ADOPTION OF MINUTES

3.1 March 27, 2023 Regular Council Meeting Minutes
 #083-2023-04-11 Councillor Hugh Graw
 CARRIED: That Council accepts the minutes of the March 27, 2023 Regular Council Meeting as they are presented.

5.0 DELEGATIONS

Nil

6.0 OLD BUSINESS

6.1 Utility Rate Bylaw 923J – with amendments
#084-2023-04-11 Councillor Cyndi Corbett
CARRIED: That Council gives a 2nd reading to the amended Utility Rate Bylaw 923J.

#085-2023-04-11 Councillor Hugh Graw

CARRIED: That Council gives a 3rd and final reading to pass the amended Utility Rate Bylaw 923J.

6.2 Beaverlodge Health and Wellness Inc.

#086-2023-04-11Councillor Hugh GrawCARRIED: That Council accepts this for information and directs Administration to continue as
previously directed.

7.0 NEW BUSINESS

7.1 Property Tax Arrears

#087-2023-04-11 Councillor Hugh Graw

CARRIED: That Council establishes the date, time and place for the public auction of tax arrears properties as Friday, June 9, 2023 at 10:00 am at the Beaverlodge Community Centre, 1016-4th Avenue and sets the reserve bid as \$364,640.000 with all conditions of sale as presented.

7.2 AHS Courses – Facility & Fee Waiver

#088-2023-04-11 Councillor Judy Kokotilo-Bekkerus

CARRIED: That Council approves the 100% waiver of the fees for this request.

7.3 Separation of Facility & Fee Waivers from Donations & Sponsorships
 #089-2023-04-11 Councillor Cyndi Corbett
 CARRIED: That Council directs Administration to provide an annual accounting of these amounts.

7.4 National Public Works Week – May 21-27, 2023

#090-2023-04-11 Mayor Gary Rycroft

CARRIED: That Council makes this proclamation as presented and declares May 21-17, 2023 as Public Works Week in Beaverlodge.

7.5 Economic Development Week – May 8-12, 2023

#091-2023-04-11 Mayor Gary Rycroft

CARRIED: That Council makes this proclamation as presented and declares May 8-12, 2023 as Economic Development week in Beaverlodge.

7.6 Community Rail Advocacy Alliance

#092-2023-04-11 Deputy Mayor Cal Mosher

CARRIED: That Council directs Administration to proceed with the full membership for the Town of Beaverlodge.

7.7 Member-at-large for South Peace Professional Attraction & Retention Committee #093-2023-04-11 Councillor Judy Kokotilo-Bekkerus

CARRIED: That Council directs Administration to advertise for a member-at-large for this Committee from the general public.

7.8 Spring Clean Up#094-2023-04-11Mayor Gary RycroftCARRIED: That Council directs Administration to proceed with organizing the Town Clean-up forMay 6, 2023.

8.0 <u>CORRESPONDENCE</u>:

8.1 Committee of the Whole Minutes – March 27, 2023
#095-2023-04-11 Councillor Judy Kokotilo-Bekkerus
CARRIED: That Council approves the minutes from the Committee of the Whole on March 27, 2023 as presented.

9.0 COMMITTEE AND STAFF REPORTS

9.1 Action List#096-2023-04-11Councillor Cody MouldsCARRIED: That Council accepts the Action Item List as presented.

9.2 Council Reports
 #097-2023-04-11 Councillor Judy Kokotilo-Bekkerus
 CARRIED: That Council accepts these Council Reports for information as presented.

10.0 <u>CLOSED SESSION</u> Nil

11.0 ADJOURNMENT Mayor Gary Rycroft adjourned the meeting.

7:33 PM

Mayor, Gary Rycroft

CAO, Jeff Johnston



Phone: 780.354.2201 Fax: 780.354.2207

	DELEGATIONS TO COUNCIL
Name of Delegates(s):	Debbie Schmuhl, Sharon
	Albright, Micki Olsenberg
Representing:	
Phone Number:	
Email:	
Topic:	Community harden
	8
Staff Familiar with topic:	Jeff Johnston
Attached Information:	
Notes: Limit pre	esentation to 15 minutes
Delegate Signature:	
Date:	
If you have materials/documer the Tuesday before Any documen	d documentations must be sent to <u>nyoung@beaverlodge.ca</u> ntation to be included in the Agenda, they must be received by 1:00pm e the meeting you are scheduled to appear before Council. ntation submitted (including this Delegate Application) Public Information" and will appear in a Council Agenda.
Date and Time of Council Meetir	FOR OFFICE USE ONLY ing to attend: $Arrow Arrow Arro$
Approved to Present by:	Dohnston Date: 197.18/23

www.beaverlodge.ca



Phone: 780.354.2201 Fax: 780.354.2207

DELEGATIONS TO COUNCIL

Name of Delegates(s):

Jodi Bloomer-Kaput

Representing:

Phone Number:

7802281960

Email:

Topic:

jodi@canadianfiberoptics.ca

Canadian Fiber Optics Corp.

Final Investment Decision made-Canadian Fiber Optics will

invest \$3,500,000-\$4,000,000 to install fiber optic network

capable of multi-Gbps to all residents in the Town of Beaverlodge

Construction will start in April.

Staff Familiar with topic:

Jeff Johnston

Attached Information:

Notes:

Limit presentation to 15 minutes

Delegate Signature:

Jodi Bloomer-Kapit

Date: March 30, 2023

All notifications and documentations must be sent to <u>nyoung@beaverlodge.ca</u> If you have materials/documentation to be included in the Agenda, they must be received by 1:00pm the Tuesday before the meeting you are scheduled to appear before Council. Any documentation submitted (including this Delegate Application) is considered "Public Information" and will appear in a Council Agenda.

FOR OFFICE USE ONLY 123 24 Date and Time of Council Meeting to attend: _____ Approved to Present by: Jeff Johnston Date: apr. 4/23

www.beaverlodge.ca



Phone: 780.354.2201 Fax: 780.354.2207

	DELEGATIONS TO COUNCIL
Name of Delegates(s):	Steve Madden
Name of Delegates(5).	
Representing:	Grande Spirit Foundation
Phone Number:	
Email:	Smadden @grandespirit.org
Topic:	
Staff Familiar with topic:	Jeff Johnston
Attached Information:	<u> </u>
Notes: Limit p	resentation to 15 minutes
Delegate Signature:	
Date:	
	d documentations must be sent to <u>nyoung@beaverlodge.ca</u>
	intation to be included in the Agenda, they must be received by 1:00pm
	re the meeting you are scheduled to appear before Council.
	ntation submitted (including this Delegate Application) Public Information" and will appear in a Council Agenda.
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Date and Time of Council Meeti	ror OFFICE USE ONLY
Т	T
Approved to Present by:	Johnston Date: Mar 29/23

www.beaverlodge.ca



March 28, 2023

Town of Beaverlodge Jeff Johnston PO Box 30 Beaverlodge, Alberta TOH OCO

RE: Electrical Distribution System – 2022 Franchise Report

Dear Jeff Johnston,

Please see the enclosed franchise report outlining information relevant to your community for 2022.

If you would like to discuss the information included in this report, we would be happy to meet at your earliest convenience. Don't hesitate to contact me with any questions or to set up a time to discuss the 2022 franchise report.

We look forward to meeting with you!

Sincerely,

Jorda

Bernadette Gordon Customer Sales Representative ATCO Bernadette.Gordon@atco.com 780.296.5433



The Town of Beaverlodge

Serving 1514 Customer Sites in the Town of Beaverlodge

ATCO Electric strives to improve the lives of our customers by providing reliable, sustainable, innovative and comprehensive electricity solutions to our franchise communities.

Customer Breakdown

Rate Class	2021 Number of Sites	2022 Number of Sites	
Company Farm	0	3	
General Service	147	152	
Industrial	19	19	
Residential	1022	1031	
Sentinel Lights	19	22	
Street Lights	289	290	
Total Number of Sites	1496	1514	

Franchise Fee and Taxes

	2022 Actual	2023 Forecast	
Wires Distribution Revenue	\$2,720,820	\$2,533,084	
Franchise Fee %	@ 7%	@ 7%	
Franchise Fee on Revenue	\$190,462	\$185,924	
Distribution Linear Taxes	\$39,112	\$39,829	
Total Estimated Fee + Tax	\$229,574	\$225,754	

Based on 2022 actual revenue, a franchise fee increase of 1% would increase fee payments by \$27,208 per year.

System Reliability

Reliability data is derived from the number of outages (frequency) and length of outage (duration). Most unplanned outages are due to weather or third-party contact with lines. ATCO requires planned outages to conduct maintenance and repair work or to build a new electrical line. (*SAIDI/SAIFI definitions under Supporting Information)

Outages	2021	2023
*SAIFI (Feeder Average)	1.0	4.9
*SAIDI (Feeder Average)	2.4	1.6
ATCO Electric (System Average) SAIFI (Major Events Included)	1.6	1.6
ATCO Electric (System Average) SAIDI (Major Events Included)	4.9	4.8

YOUR COMMUNITY. OUR COMMITMENT Report to Communities

Distribution Asset Maintenance Programs

Completed in 2021	Completed in 2022	Proposed for 2023
 Brushing Mechanical Program Ground Rod Testing Distribution Facility Inspections Streetlight Patrols 	Distribution Facility InspectionsStreetlight Patrols	 Distribution Facility Inspections Streetlight Patrols Davit Inspection

Street Lights

Inventory Summary

Lamp Туре	Investment Rate
Mercury Vapor	1
High Pressure Sodium	196
LED	65
Total	262

- Number of "lights-out" identified from the streetlight patrols: 41
- Number of temporary overhead repairs of streetlights: 1
- Number of underground repairs made: 4

Community Engagement

Our ATCO EPIC program is a grassroots initiative involving employee-led committees that plan, implement and administer workplace fundraising campaigns within the company. The program combines fundraising events, auctions, friendly team competitions and employee pledges that support more than 800 charitable and non-profit organizations. In 2022, our people raised \$2.8 million.

ATCO Employees in your community have participated and contributed to the following initiatives:

In-Kind Support	Events	
Town Centre Christmas Tree	Chamber of Commerce	
	The Art Walk	
	Fall Festival Parade	
	Beaverlodge Elementary School	

Regulatory Information

- The ATCO Electric Annual Rule 002 Service Quality and Reliability Performance Report for 2022 can be found at: <u>https://www.auc.ab.ca/regulatory_documents/service-guality-and-reliability-plans</u>
- No Customer complaints were received by the Alberta Utilities Commission for the Town of Beaverlodge
- ATCO Electricity rates: <u>https://www.atco.com/en-ca/for-home/electricity/rates-billing.html</u>

Supporting Information

*SAIFI (System Average Interruption Frequency Index): The average number of interruptions per customer.

*SAIDI (System Average Interruption Duration Index): The total average number of hours each customer power is interrupted.

Active outage information can be found at: https://electric.atco.com/en-ca/power-outages/outage-map.html

Davit Test and Treat Program – Program to test the structural integrity of our metal poles and treat to extend the life of the structure.

Pole Test and Treat Program – Program to test the strength of our wooden poles and treat poles to extend the life of the pole.

Ground Rod Testing – Program to test the ground rods which ensure stray electricity is grounded thus ensuring that our system is safe and reliable.

More detailed information available upon request.

Contact Us

If you have questions about ATCO's electricity distribution operations, customer service or community involvement in your area, please contact us.

Bernadette Gordon Customer Sales Representative ATCO Electricity (780) 296-5433 Bernadette.Gordon@atco.com Shelley Abram Customer Service Supervisor ATCO Electricity (780) 552-6246 Shelley.Abram@atco.com





8715-102 Street, Grande Prairie, AB, T8V 2S5

Grande Prairie International

ayling@telusplanet.net

March 23, 2023

Town of Beaverlodge PO Box 30, 400-10th Street Beaverlodge, Alberta T0H 0C0 Attn: Mayor Gary Rycroft and Council

The 23rd Annual Grande Prairie International Street Performers Festival would like to continue our many years of providing a special performance to your residents of all ages at noon on one of the days listed below. In the past these special regional performances have been funded by ATB. ATB will not be funding these events this summer. We are asking your Council to sponsor

this highlight of the summer by providing the cash sponsorhip requested and providing your residents with a complimentary lunch. We ask that you bring greetings from your Council at this event.

We will provide the world class street performers and balloon twister. As a thank you, your Town will be included in the sponsors recognition listed below.

On behalf of the Organizers, Volunteers, and Performers of this year's festival, we thank you for considering this request.

Wayne My

Wendy Bosch Wendy Bosh

Wayne Ayling **Festival Founder and Co-Chair**

Co-Chair

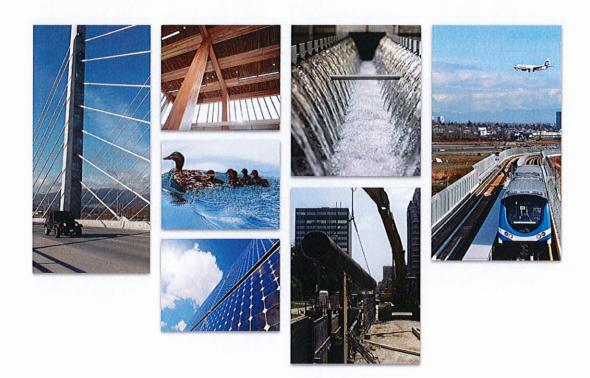
THREE REGIONAL TEASER SUPPORTERS @ \$3000 EACH A One Hour Noon Event on one of July 18, 19 or 20 at a regional location of your choice featuring 3 Street Performers Acts, I Roving Act and a Balloon Twister Your Name and Logo on the Festival website, select onsite signage, featured in print media, social media and radio media You provide a complimentary lunch for the all ages audience Your Representative can speak at this Event



REPORT

Town of Beaverlodge

Wastewater Lagoon Upgrade Options



JUNE 2022







MEMORANDUM

Town of Beaverlodge

Longview Estates Servicing Assessments



MARCH 2023





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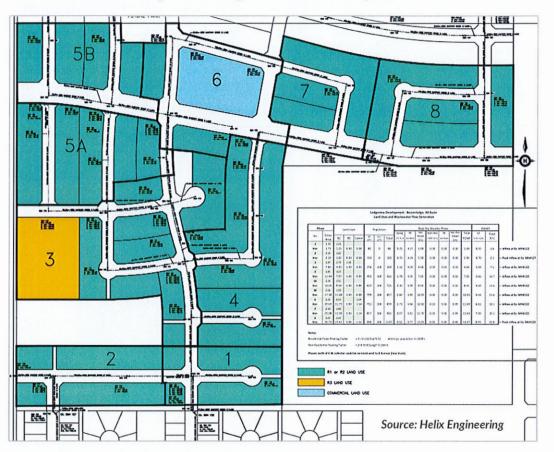
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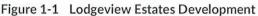
Appendix B - Opinion of Probable Cost Breakdown

Æ

1 INTRODUCTION

The Town of Beaverlodge has retained Associated Engineering (AE) to undertake a Servicing and Infrastructure Assessment of the proposed Lodgeview Estates development. Lodgeview Estates is within ½ section SW-11-72-10-W6, surrounding the existing baseball diamonds and St. Mary Catholic School. Development at Lodgeview comprises nine phases. Phase 1 is located directly north of 5 Avenue W and consists of 25 residential lots. The majority of the proposed development area includes residential lots. Some high density residential development and commercial development are also proposed in Lodgeview. **Figure 1-1** shows the proposed Lodgeview Estates development and associated land use.





This memorandum provides recommendations on infrastructure upgrades required within the Town to support the proposed Lodgeview Estates Development.

1.1 Objective

This assessment includes the following tasks:

- Confirm the preferred design criteria for water and wastewater systems.
- Review available background information to confirm existing system configurations and alignment and to understand proposed developments at Lodgeview Estates.

Town of Beaverlodge

- Identify and resolve data gaps with the Town.
- Update the previous WaterCAD model prepared by AE.
- Develop a SewerCAD model for the entire Town.
- Identify existing wastewater system capacity constraints and propose upgrades.
- Add proposed demands from the Lodgeview Estates development into the SewerCAD and WaterCAD models.
- Assess effects of additional wastewater loading and water demands on the existing systems and propose upgrades.
- Confirm wastewater and water main sizing within the Lodgeview Estates development.
- Prepare memorandum to document findings.

1.2 Data Collection and Review

The assessment has been based on previous and ongoing work for the Town. The following documents were reviewed:

Lodgeview Overall Sanitary Sewer Plan (HELIX Engineering Ltd. 2022)

This drawing shows the proposed wastewater system layout for the entire Lodgeview Estates development, including a wastewater flow generation table which calculates design flows within each phase of the development. Proposed wastewater pipe sizing and alignment are also shown in the Plan.

Wastewater Lagoon Upgrade Options (Associated Engineering. 2022)

This report documents assessment of the Lagoon s hydraulic capacity, which indicates there is a high amount of inflow and infiltration within the wastewater system. This report estimates the per capita wastewater generation rate is 625 L/c/d (note this generation rate includes both wastewater and I/I generation rates). This report also proposed upgrades to the wastewater trunk conveying flow to the Lagoon, as required due to Highway 43 realignment.

Beaverlodge Manhole and Valve Assessment Program Data (Associated Engineering, 2021)

This data set consists of manhole CCTV videos and depth measurements. This information is used to understand pipe flow directions and estimate pipe inverts. Data collected from this project was also used to corroborate wastewater system alignment.

WTP Upgrades Phase 2 Issued For Construction (IFC) Drawing Set (Associated Engineering, 2021)

This drawing set proposes various upgrades to the Water Treatment Plant, including replacing the two distribution pumps and the standby pump with three distribution pumps with a design point of 48 L/s @ 685 kPa (70 m of head).

Sanitary Bypass Issued For Construction (IFC) Drawing Set (Associated Engineering. 2017)

This drawing set designed an overflow pipe redirecting excessive flow from 7 Street to existing wastewater pipes along 7 Avenue to the south. This information was incorporated into the SewerCAD model.

Sewer Investigation Modelling Results ((Associated Engineering. 2017)

This memorandum was drafted to investigate sewage backup in the area of 7 Street and 7 Avenue, including findings from CCTV inspection and hydraulic analysis. It recommends a list of interim and long term upgrades. One of the interim recommendations was to install a sewer bypass pipe from 7 Street to 7 Avenue.

Water Distribution System Analysis (Associated Engineering. 2016)

This report analysed the existing water distribution system and the planned future system. It documents a set of design criteria and proposed upgrades.

Water Treatment Plant Upgrades Design Basis Memorandum (Associated Engineering. 2016)

This memo outlines WTP upgrade requirements, options, phases, and cost estimates. This memo also discussed available and required treated water storage volumes for the ten year projected demand.

Lodgeview Phase 1 Design Drawing Set (HELIX Engineering Ltd. 2015)

This drawing set shows the proposed water, wastewater, and storm system designs within Lodgeview Estates Phase 1, which is located immediately north of 5 Avenue W.

Various Historical As Built and Design Drawing Set

Various As Built and Design drawing sets were obtained from the Town and reviewed by AE. Information on watermain and wastewater pipe alignment, depth, size, and fittings were incorporated into the computer models of the Town s system.

2 DESIGN CRITERIA

2.1 Population

Population information was used to provide a basis to establish water usage and wastewater generation rates. This section documents our findings and assumptions.

2.1.1 Existing Population

Population information was obtained from past Federal Census and summarized in Table 2-1 below.

Year	Population	Annual Growth
2021	2,271	-1.63%
2016	2,465	1.89%
2011	2,245	· •

Table 2-1 Historical Population

2.1.2 2022 Population Projection

Through discussion with Town staff, the Town s 2022 population is estimated to be **2,294 residents**, this represents a 1% increase from the 2021 census data.

2.1.3 Lodgeview Estates Population

Based on information provided by Helix Engineering, Lodgeview Estates is estimated to house 1,210 residents.

2.2 Land Use and Density

Land use information, as described in the Town s Land Use Bylaw (Bylaw No. 1004, August 2021), was incorporated into the study. Generally, land adjacent to and west of Highway 43 (Hwy 43) are used for commercial and industrial developments. The reminder of land within the Town consists of residential developments of various density, from country residential homes east of 11 Avenue to apartment buildings along 6 Avenue. There are also several institutional developments (schools and hospitals) within the north central portion of the Town.

The proposed Lodgeview Estates Development is located at the northern edge of the Town, north of 11A Street and east of Range Road 102. The land is currently designated as Urban Reserve.

Various detailed land use districts, as outlined in the Land Use Bylaw are combined into four general land use categories. **Table 2-2** summarizes the estimated population density for each category that will be used in this study.

Land Use	Population Density (ppl/ha)			
Residential (Single Family)	35			
Residential (Apartment)	140			
Residential (Country Estates)	10			
Non-Residential (Commercial / Industrial / Institutional)	25 equivalent			

Table 2-2 Population Density

2.3 Historical Water Usage

Water treatment plant production records from 2017 to 2021 were analysed, **Table 2-3** summarize the annual water consumption and associated per capita daily water consumption unit rate.

Year	Annual Water Consumption (m3)	Population	Average Day Usage (m3)	Peak Day Usage (m3)	Unit Rate (L/c/d)	Peak Day Peaking Factor
2021	261,007	2,271	715	1,360	315	1.9
2020	252,696	2,310	690	1,644	299	2.4
2019	263,038	2,349	721	1,416	307	2.0
2018	294,507	2,387	807	1,584	338	2.0
2017	319,992	2,426	877	1,321	361	1.5
				Average	324	1.9

Table 2-3 Water Consumption

Note: Population information is estimated based on 2016 and 2021 Federal Census information.

From 2019 to 2021, the per capita water consumption rate has been lower than 2017 and 2018 data, this trend is consistent with other communities in Alberta. Typical causes for the lower water consumption includes water saving fixtures, water conservation behaviour, and price increases.

2.4 Water Distribution System Design Criteria

Design criteria for the water distribution system are generally adopted from the 2016 Water System Analysis. The water demand was updated to reflect evolving water demand within the Town.

2.4.1 Water Demand

Water demand is critical in determining the distribution network, pumping capacity, and storage required for a water system. A water distribution system is typically assessed based on three critical rates of demand. They are described below.

Average Day Demand

The Average Day Demand (ADD) is determined by dividing the total annual consumption by the number of days in the year. By dividing this rate by the population served, the per capita per day demand is derived. This rate is used primarily as a basis for the projection of the total water demand.

Based on water usage for the past five years, it is recommended to use 320 L/c/d as the average per capita water consumption rate. This rate is slightly lower than the water consumption used in the 2016 Water System Analysis (340 L/c/d).

Peak Day Demand

Peak Day Demand (PDD) is determined by the single day of maximum consumption observed in the distribution system. In using the single day maximum flow, one must ensure that the record is not distorted by firefighting demand, equipment malfunction or watermain breaks. The peaking factor is determined by comparing the peak consumption day to the ADD. The PDD is used in determining the delivery capacity required of the supply mains, treatment facilities, storage facilities, and pumping facilities. The PDD is often combined with fire flow requirements to understand fire flow availability within the distribution system.

Table 2-3 calculated the PDD peaking factor for the past 5 years, averaging 1.9 times the ADD. Therefore, a slightly higher value of **2 X the ADD** is proposed for this analysis.

Peak Hour Demand

The Peak Hour Demand (PHD) is the expected maximum demand observed during a short period of the day. Usually, most facilities are not equipped to record peak hour demands in such detail. Therefore, the rate is established based on experience and judgement. The PHD is used in determining watermain sizing and pumping requirements.

A PHD peaking factor of **3 X the ADD** is recommended to be adopted for this report as it is a commonly applied value for communities of similar size.

Table 2-4 summarize the estimated demand within the Beaverlodge water distribution system. Existing system demands were obtained from 2016 Water System Analysis and adjusted based on the updated per capita water consumption rate (340 L/c/d vs 320 L/c/d). Demands from Lodgeview Estates were calculated based on the estimate population of 1,210 residents and the water consumption rate of 320 L/c/d.



Demand Scenario	Existing System Demand (L/s)	Lodgeview Estates Demand (L/s)	Total Demand (L/s)
Average Day Demand	8.5	4.5	13.0
Peak Day Demand	17.1	9.0	26.1
Peak Hour Demand	25.7	13.4	39.2

Table 2-4 Design Water Demand (2022)

2.4.2 Fire Flow

Fire flow requirements, as recommended in the 2016 Water System Analysis, are summarized in Table 2-5.

Table 2-5	Fire Flow Requirements
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Development Type	Fire Flow Requirement (L/s)
Single Family Residential	83
High Density Residential	200
Commercial/Industrial, Large Institutional	183
Schools	167
Institutional, Churches	100

2.4.3 Operating Pressure

Normal and minimum operating pressures, as recommended in the 2016 Water System Analysis, summarized in **Table 2-6**.

Table 2-6Target Operating Pressure Range

Scenario	Pressure
Maximum System Pressure	552 kPa (80 psi)
Minimum System Pressure	345 kPa (50 psi)
Minimum System Pressure during Peak Day Demand plus Fire Flow	140 kPa (20 psi)
Minimum System Pressure During Peak Hour Demand	276 kPa (40 psi)

2.5 Wastewater Collection System Design Criteria

2.5.1 Dry Weather Flow

We have assumed all water consumed is discharged into the wastewater collection system. Therefore, the sewage generation rate is identical to the water consumption rate of **320** L/c/d. Wastewater dry weather flow (DWF) is calculated based on the estimated population using the following formula:

$$Q_{PDW} = \frac{G*P*PF}{86,400}$$

Where:

Q_{PDW} = peak dry weather flow rate (L/s)

G = per capita daily sewage generation rate

P = contributing population

PF = residential peaking factor calculated sing Harmon s Formula

The peak dry weather flow is calculated with a peaking factor applied to the average daily flow. The peaking factor accounts for when residents generate sewage at similar times (such as in the morning prior to leaving the house and in the afternoon after work). The peaking factor is the larger of 2.5 or Harmon s Peaking Factor:

$$\mathsf{PF} = 1 + \frac{14}{4 + P_P^{0.5}}$$

Where:

 P_P = contributing population in 1,000s

PF = residential peaking factor

2.5.2 Wet Weather Flow

The wet weather flow (WWF) includes the dry weather flow and flows from the following sources:

- Groundwater infiltration through joints, leaky pipes
- Rainwater inflow from manhole vents (in some locations)
- Weeping tile connections into the wastewater system

Through discussion with the Town, it is understood that the entire Town s weeping tile system is connected to the wastewater system.

Typical values for wet weather flow allowance are:

- 0.28 L/s/ha, to account for groundwater infiltration
- 0.40 L/s/sag manhole, to account for rainwater inflow (assuming 20% of all manholes are sag manholes)
- 0.60 L/s/ha for areas with weeping tile connection

2.5.2.1 WWF Sensitivity Analysis

A sensitivity analysis was conducted to compare the typical wet weather flow allowance values with the observed total wastewater generation rates in the 2022 Lagoon Upgrade Options memo (625 L/c/d). The 625 L/c/d generation



rate was calculated by dividing the total annual lagoon release volume by the estimated population. This unit rate captures the average dry and wet weather flows discharged to the Lagoon over a year. However, it does not capture the peak flow rate experienced by the wastewater pipes.

For the sensitivity analysis, the weeping tile flow rate was back calculated by removing the dry weather wastewater generation rate (320 L/c/d) and the estimated WTP backwash amount (20% of produced water: 64 L/c/d) from the 625 L/c/d discharged to the lagoon. The remaining 241 L/c/d is the wet weather allowance on a per capita basis averaged over the year. It is assumed that this value will be higher in summer than in the winder when the ground may be frozen, and I/I is likely lower. The value has therefore been multiplied by four to account for peak summer flow conditions.

Note that flowrate for groundwater infiltration and sag manholes inflow were kept at the typical values in this scenarios as these rainfall driven values are likely not captured by the lagoon s data, due to smaller annual volumes. **Table 2-7** compares the wet weather allowance between the typical values with the findings from the sensitivity analysis.

Scenario	Groundwater Infiltration (L/s)	Sag Manhole (L/s)	Weeping Tile Connection (L/s)	Total WWF (L/s)	Total Peak DWF (L/s)	Total Flow (L/s)
#1 Typical WWF Allowance	45	4	97	146	74	220
#2: Reduced WWF Allowance based on Lagoon Data	45	4	26	75	74	149

Table 2-7 WWF Sensitivity Analysis

Scenario 2 results in an approximately 33% reduction in estimated total flow during a wet weather event. We propose to proceed with the wastewater system assessment based on the reduced WWF allowance values in Scenario 2.

It should be noted that wet weather flow values used in both scenarios are estimates only. These assumptions should be verified and updated following a flow monitoring program.

2.5.3 Pipe Upgrade Criteria

Criteria for pipe upgrades are based on the decision flowchart shown in **Figure 2-1**. In addition, pipe upsizing will ensure downstream pipe sizes are equal or bigger than upstream pipe sizes. If downstream pipe sizes are smaller than upstream pipes, there is an increased risk of debris lodged in the smaller downstream pipe which may block flow. We will also aim to achieve a maximum of 80% utilization in all upsized pipes.

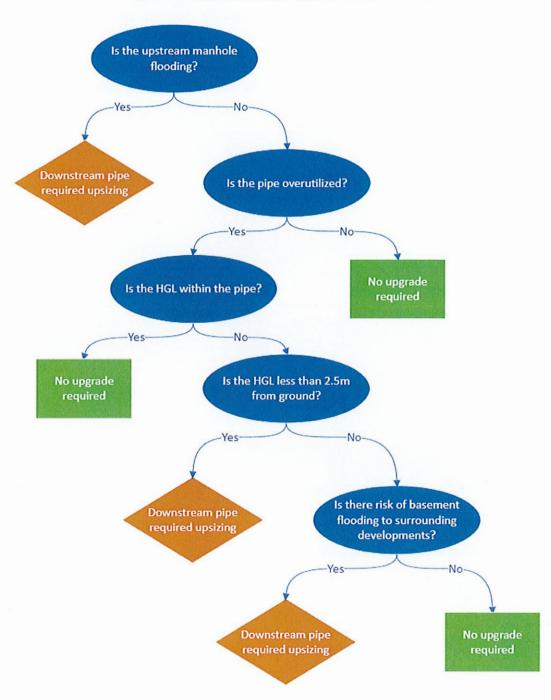


Figure 2-1 Wastewater Pipe Upgrade Decision Flowchart

9

3 WATER DISTRIBUTION SYSTEM ASSESSMENT

3.1 WaterCAD Model Update

The existing WaterCAD model was updated to reflect recent upgrades and observations of the water distribution system:

- WTP Upgrades @hase 2 work replaced the two existing distribution pumps and the standby pump with three identical distribution pumps (48 L/s @ 70m head).
- Old Town Pumphouse was observed to have a Distribution Pressure setpoint of 50 psi (350 kPa). The model has been updated to match.
- North Booster Pumphouse was observed to have a pressure reading of 78 psi (537 kPa) downstream of the PRV. This is similar to the PRV setting in the model (80 psi).
- Updated water demands based on latest WTP data and population data, as discussed in Section 2.

3.2 Existing System Assessment

Following model updating, the existing water distribution system was simulated, and the results are discussed below.

Average Day Demand Scenario

Similar to the 2016 Report, there are two main operational scenarios which have been modelled during the Average Day demand. The first is the typical scenario, in which reservoirs are not filling, and there are no truck fill requirements at the WTP. In this case, the pressures are quite similar to the peak hour demand scenario and are discussed in the next section.

The second scenario is that the reservoirs are filling, and that there has been a significant drop in system pressure as a result. Results are similar to 2016 Water Distribution System Analysis Report results. Please see Figure 3.1 in Appendix A for details.

Peak Hour Demand Scenario

The Peak Hour scenario has not been assumed to occur simultaneously with the filing of the North Reservoirs. Under the Peak Hour Demand Scenario, the simulated results were identical to results shown on **Figure 3.2** in **Appendix A**. The simulated pressure within a portion of the Town is within the normal operating pressure range of 276 kPa to 552 kPa (40 psi to 80 psi).

In general, the following areas experience peak hour pressures above the normal operating pressure:

- Area west of 3 Avenue;
- Developments near 7 Street and 8 Avenue;
- Western end of Hayfield Drive; and
- Appleton Crescent.

On the other hand, development within the Mobile Home Park area, at the northern edge of the Town, may experience peak hour pressures at the lower end of the normal operating pressure range. It is understood that the Mobile Home Park may have been interconnected to the booster zone through valve closures; however.



Peak Day Demand plus Fire Flow Scenario

The Peak Day demand plus Fire Flow scenario assumes that all three distribution pumps are operational at the WTP and the standby pumps at the Booster Station and Old Town Pumphouse are also operating.

Updated results are similar to the 2016 Results (see **Figure 3.3** in **Appendix A**). The upsized WTP distribution pumps support higher available fire flow at locations near the WTP. However, fire flow elsewhere within the existing system is constrained for many reasons: undersized pumps, undersized watermains in some locations, and the need to maintain minimum pressure through the system.

Pump and Storage Capacity

Table 3-1 presents the pumping capacity assessment for the WTP pumps (three 48 L/s pumps). Assessment for the Old Town Pumphouse and the North Booster Station are not included, as it is being assessed separately under the Beaverlodge Pump Station Assessment project. Therefore, Demands at Old Town Pumphouse and North Booster Station are excluded in the table below.

	Existing Condition			
Demand	Peak Hour Peak Day plus Fire Flow			
WTP Demand (L/s)*	18.3	212.2 (12.2 L/s PDD + 200 L/s Fire Flow)		
Pumping Capacity (L/s)	144.0	144.0		
Surplus / Deficit Capacity	125.7	- 68.2		

Table 3-1 WTP Pump Capacity at Existing Condition

Note: Pumping deficit under fire flow scenario may be less if contribution is available from other reservoirs.

Regarding treated water storage, Section 3.6 of the 2016 WTP Upgrades Design Basis Memorandum (Associated Engineering) noted the total WTP storage is currently 2,665 m³. The WTP storage is required to expand by 926 m³ to a total of 3,591 m³ (to provide sufficient fire storage) However, the Town instructed AE to not expand storage capacity in Phase 1 and Phase 2 of the WTP upgrades project.

Proposed Upgrades

Please see the 2016 Water Distribution System Analysis Report for proposed upgrades to the existing system.

3.3 Lodgeview Estates Servicing Assessment

3.3.1 Phase 1 Development

Phase 1 of development consists of 25 residential lots. It is intended to connect to the existing 150 mm diameter Cast Iron (CI) watermain along the north end of 5 Avenue W.

Watermain Sizing

The minimum watermain diameter within Phase 1 is recommended to be 200 mm diameter. Phase 1 can be serviced by connecting to the existing watermain along 5 Avenue W. It should be noted that Phase 1 will result in a dead-end watermain; however, looping will be achieved in future development phases.

Average Day and Peak Hour Scenarios

Phase 1 is simulated to experienced pressure of 572 kPa (83 psi) during the Average Day demand scenario. During the Peak Hour demand, the simulated pressure is 565 kPa (82 psi). These pressures are very similar to pressure results in the adjacent existing developments. Note these simulated pressures are marginally above the normal operating pressure range of 276 kPa to 552 kPa (40 psi to 80 psi).

Peak Day plus Fire Flow Scenario

During the Peak Day plus Fire Flow scenario, approximately 55% of the require fire flow (or 46 L/s out of the 83 L/s) can be achieved in the low density residential developments. This is similar to fire flow available to the surrounding existing low density residential developments. As noted earlier, the available fire flow is constrained due to multiple reasons, such as undersized WTP pumps, undersized watermains, and the need to maintain minimum pressure throughout the system.

The proposed Lodgeview Phase 1 development will achieve a similar level of service as the nearby residential developments. At the same time, Phase 1 is not expected to significantly reduce the level of service to existing development elsewhere in the Town.

Pump Capacity

Table 3-2 presents the pumping capacity assessment for the WTP pumps including Lodgeview Phase 1 developments. Assessment of the Old Town Pumphouse and the North Booster Station are not included, as they are being assessed separately under the Beaverlodge Pump Station Assessment project. Therefore, Demands at Old Town Pumphouse and North Booster Station are excluded in the table. The current pumps are adequate to service the phase 1 development during peak hour demand and do not have a material impact the systems ability to provide fire flow.

	Existing + Lodgeview Phase 1 Condition			
Demand	Peak Hour	Peak Day plus Fire Flow		
WTP Demand (L/s)	19.2	212.8 (12.8 L/s PD + 200 L/s FF)		
Pumping Capacity (L/s)	144.0	144.0		
Surplus / Deficit Capacity	124.8	- 68.8		

Table 3-2 WTP Pump Capacity for Existing + Lodge Phase 1 Condition

3.3.2 Full Build-out

Watermain Alignment and Sizing

Full build out of Lodgeview includes 1,210 residents in low and high density residential developments, and 1.14 ha of commercial development. The majority of the watermain within the development area is recommended to be a minimum of 200 mm diameter. A 250 mm diameter trunk will be required within the development, extending along 8 Avenue W and turning east to follow the alignment of the proposed collector road within the Development. Two local connections to existing watermains and three off-site improvements are recommended to service the Lodgeview Development.

Local Connections

- 200 mm diameter connection at the northern end of 5 Avenue W, connecting to proposed Phase 1 and future development to the north.
- 200 mm diameter connection at the northern end of 7 Avenue W, connecting to proposed Phase 2 and future development to the north.

Off-Site Improvements

- West Side Looping: approximately 590 m long, 250 mm diameter off-site trunk crossing Hwy 43 to connect the existing 250 mm diameter watermain along Hwy 722 (south of Hwy 43) to the proposed 250 mm watermain at the southern end of 8 Avenue W (within the Lodgeview Development).
- East Side Looping: approximately 390 m long, 250 mm diameter off-site trunk along 5 Avenue connecting the existing watermain at the intersection of 5 Avenue and 13 Street with proposed 250 mm watermain at the eastern edge of the proposed Lodgeview collector road.
- WTP Extension: Upsize approximately 160 m of existing 150 mm diameter watermain west of WTP to 250 mm diameter and connect to the WTP.

Note the 150 mm diameter watermain west of the WTP, along the eastern end of 4 Street, does not appear to be directly connected to the 300 mm diameter distribution main along 2 Avenue W near the WTP. It is recommended that the pipe be upsized to a 250 mm diameter and connected the 300 mm watermain located outside of the WTP.

The three off-site improvements are required to improve available fire flow within Lodgeview and to improve looping within the water distribution system. Figure 3-1 shows the conceptual alignment and sizing of watermain within the Lodgeview development.

Average Day and Peak Hour Scenarios

Table 3-3 summarizes the range of simulated pressures within the Lodgeview development, with and without the three off-site improvements. As shown in the table, the Average Day pressures are similar with and without the offsite improvements; however, peak hour pressure increases due to implementing the proposed improvements.

Demand Scenario	Pressure Range		
	With Off-Site Improvements	Without Off-Site Improvements	
Average Day	351 kPa Qbd&Pa (51 psi Q Qsi)	359 kPa Qc QPa (52 psi Q Qsi)	
Peak Hour	303 kPa Qbb&Pa (44 psi QdQsi)	352 kPa QbdQPa (51 psi Q Qsi)	

Table 3-3 Simulated Pressure Range

Peak Day plus Fire Flow Scenario

Fire flow requirements, as noted in **Section 2.4.2**, were used to evaluate the available fire flow within the Lodgeview development. **Table 3-4** summarizes the results with and without the off-site improvements.

Development Type	Required Fire	e Fire Flow Availability		
	Flow	With Off-Site Improvements	Without Off-Site Improvements	
Low Density Residential	83 L/s	100% or more	Approximately 15%	
High Density Residential	200 L/s	62%	7%	
Commercial	183 L/s	67%	7%	

Table 3-4 Simulated Fire Flow Availability Within Lodgeview Estates (% of Required)

The off-site improvements not only significantly increased fire protection level of service within the Lodgeview area, but also increased the available fire flow in these existing areas:

- Northern edge of Town, bordered by 13 Street, 7 Avenue W, 11 Street, and 7 Avenue; and
- Central residential area, bordered by 5 Avenue, 5 Street, 7 Avenue, and 11 Street.

Figure 3-1 shows the conceptual alignments of the off-site trunks and the simulated fire flow availability with the offsite improvements.

Pump Capacity

Surplus/Deficit Capacity

Table 3-5 presents the pumping capacity assessment for the WTP pumps including full build-out of the Lodgeview development. Assessments for the Old Town Pumphouse and the North Booster Station are not included, as they are being assessed separately under the Beaverlodge Pump Station Assessment project. Therefore, Demands at Old Town Pumphouse and North Booster Station are excluded in the table.

	Existing + Lodgeview Full Build-Out Condition		
Demand	Peak Hour	Peak Day plus Fire Flow	
WTP Demand (L/s)	31.8	221.1	
Pumping Capacity (L/s)	144.0	144.0	

- 77.1

Table 3-5 WTP Pump Capacity for Existing + Lodgeview Full Build-Out Condition

Additional Upgrades to Fully Achieve Required Fire Flow Within Lodgeview

The off-site improvements will increase available fire flow to approximately 60% of the required fire flow for high density residential and commercial development and 100% of the required fire flow for low density residential developments. In order to fully achieve the required fire flow within Lodgeview, these upgrades will be required:

• WTP Upgrade: upgrade WTP pumps to deliver at least 221 L/s of peak day plus fire flow demands.

112.2

• Upsize Existing Crossing: upsize approximately 180 m of the existing watermain crossing near the WTP to 300 mm diameter.

• Install New Trunk: install approximately 800 m of new watermain along 1 Avenue from 5 Street to 11 Street.

Note, all three proposed upgrades are required to achieve the required fire flow (i.e. required fire flow cannot be achieved by only improving the WTP pumping capacity but not installing new trunks to distribute the water).

4 WASTEWATER COLLECTION SYSTEM ASSESSMENT

The existing wastewater collection system within the Town of Beaverlodge consists of mainly gravity pipes and manholes. The Town s topography is higher at the northeastern corner and lower at the southwestern corner. This elevation difference allows for wastewater to flow via gravity from the residential developments north and west of Hwy 43 towards the trunk parallel to Hwy 43 VHighway Trunk V@he Highway Trunk conveys flow towards the intersection of 5 Avenue and 5 Street and crosses Hwy 43.

The non-residential developments south of Hwy 43 are serviced by a combination of gravity pipes and low pressure sewer systems. Wastewater flow from the non-residential area flows towards a trunk line located in the eastern portion of the development. This trunk line conveys wastewater from the Highway Trunk and the non-residential area south of Hwy 43 towards the Wastewater Lagoon, located in the southwestern corner of the Town. For the purpose of this report, this trunk line is referred to as the Lagoon Trunk

Figure 4-1 shows the existing wastewater system. The majority of the wastewater pipes within the Town are 200 mm diameter. Both the Highway Trunk and the Lagoon Trunk consist of larger diameters pipes (250 mm to 375 mm diameter).

4.1 SewerCAD Model Development

A computer model of the Town s wastewater collection system was developed using SewerCAD, a one dimensional fully dynamic software designed for simulating flows and levels within wastewater systems. This software is capable of simulating design flows, reverse flows, forcemains, pump stations, and surcharging / backwater conditions. The SewerCAD model includes hydraulic network data consisting of pipes, manholes, and outfalls, as well as hydrologic parameters. Most of the data was obtained from existing GIS information, 2021 Manhole and Valve Assessment Program findings, 2014 LiDAR data, review of as built drawings, and discussions with Town staff. Where data was missing, engineering judgement was used.

Land use and population densities for the developed areas were estimated based on the design criteria outlined in **Section 2**. Wastewater flow contribution areas were aggregated from cadastral GIS data. Each contributing area was assigned to the closest manhole using GIS tools.

4.2 Existing System Assessment

The existing system was assessed during the peak wet weather flow conditions (using the reduced WWF allowance scenario, discussed in Section 2.5.2.1). The existing system was assessed to determine its pipe capacity utilization - to understand potential flow constrictions, and Hydraulic Grade Line (HGL) @ determine potential surcharging locations.

Pipes are colour coded based on calculated maximum utilization during the wet weather event, with green being less than 80% utilized, blue for 80% to 100% utilized, pink for 100% to 200% utilization, and red for pipes that are simulated to be over 200% utilized.



Manholes are colour coded based on maximum simulated HGL from ground level. Red manholes denote areas that are simulated to flood. Blue manholes are locations where the HGL is less than 2.5 m from ground level, which has an increased risk of basement flooding. Green manholes show area where the HGL is either more than 2.5 m from ground level or within the pipe.

Figure 4-2 shows the simulation results. The area near the intersection of Highway Avenue and 4 Street is simulated to flood during the wet weather event. This is mainly caused by smaller 200 mm diameter pipes between this location and the wastewater pipe crossing Hwy 43. Several areas are expected to have over utilized pipes and surcharging manholes. Simulation results are summarized in **Table 4-1** below.

Table 4-1 Simulated Wastewater System Conditions Existing System

Location	Max HGL	Pipe Utilization
#1: Southern Highway Trunk , from 5 Street to southern end of Highway Avenue (MH 205 to MH 189)	Flooding	110% to 180%
#2: Northern Highway Trunk , from 10 Street to 11 Street (MH 196 to MH 50)	1.7 m to 1.9 m below ground level	83% to 140%
#3: Lagoon Trunk , from Hwy 43 to field south of 3 Street (MH 205 to MH 237)	1.3 m to 2.3 m below ground level	72% to 174%

Note MH 202 to MH 205 is also simulated to be over utilized and surcharging. However, this is mainly caused by flat slopes reducing conveyance capacity and backwater constricted by the over utilized highway crossing downstream of MH 205.

Existing System Upgrades

 Table 4-2 shows the proposed upgrades to alleviate system constraints. Proposed upgrade locations and simulation results for the upgraded system are shown on Figure 4-3.

Upgrade Location		Proposed Upgrade		
		Existing Pipe Diameter	Proposed Pipe Diameter	Length
#1: Southern	MH 205 to MH 192	200 mm	300 mm	220 m
Highway Trunk	MH 192 to MH 189	200 mm	250 mm	210 m
#2: Northern Highway Trunk	MH 196 to MH 194	200 mm	250 mm	190 m
#3 Lagoon Trunk	MH 205 to MH 238	375 mm	450 mm	840 m
			Sum	1,460 m

Table 4-2 Proposed Upgrades for Existing System

Along the southern section of the Highway Trunk, the proposed upgrades will result in wastewater pipes less than 80% utilized and the HGL is simulated to be within the pipe. There is one section of pipe east of MH 189 that is simulated to be more than 100% utilized. This is because this section of pipe is fairly flat, hence reducing the conveyance capacity. However, as the HGL is within the pipe, this section of over utilized pipe is not a concern.

Along the northern section of the Highway Trunk, several sections of pipes are also simulated to be over 80% utilized. This is also caused by the pipes @at slopes and is not a concern. Two manholes near MH 50 (near the Campground) are simulated to have HGL approximately 2.1 m from the ground level, the HGL is at simulated to be at pipe crown. No immediate upgrades are proposed for this area as there are no basements in the area and the risk of basement flooding is low.

For the Lagoon Trunk, pipe upsizing to 450 mm diameter is proposed from MH 205 to MH 238 to allow wet weather flow to be conveyed without restrictions (the pipes are 45 % to 106 % utilized). Several sections of pipes are simulated to be over 80% utilized. This is also caused by flat slopes and is not a concern.

AE understands wastewater pipes downstream of MH 238 are currently being considered to be upsized to 450 mm diameter. Hence, we recommend upsizing the reminder of the Lagoon Trunk (from MH 205 to MH 238) to 450 mm diameter as well, even though MH 237 to MH 238 currently have sufficient capacity and does not need upsizing. However, it is an industry best practice to ensure downstream sections of pipes have equal or larger diameters than upstream pipes. Doing so will reduce the chance of debris getting stuck in the smaller diameter pipe and constrict flow.

4.3 Lodgeview Estates Servicing Assessment

4.3.1 Phase 1 Development

As noted in the Lodgeview Overall Sanitary Sewer Design Drawing (Helix Engineering. 2022), the design peak wet weather flow from Phase 1 is 1.6 L/s, discharging into MH 234 on 5 Avenue W. The simulation results for the existing wastewater system including Lodgeview Phase 1 is similar to existing system results. **Table 4-3** summarizes simulation results.

Location	Max HGL	Pipe Utilization
#1: Southern Highway Trunk , from 5 Street to southern end of Highway Avenue (MH 205 to MH 189)	Flooding	110% to 180%
#2: Northern Highway Trunk , from 9 Street to 11 Street (MH 198 to MH 48)	0.4 m to 1.9 m below ground level	91% to 150%
#3: Lagoon Trunk , from Hwy 43 to field south of 3 Street (MH 205 to MH 237)	1.2 m to 2.2 m below ground level	73% to 176%

Table 4-3 Simulated Wastewater System Conditions Existing System + Lodgeview Phase 1

Proposed upgrades for the existing system, as noted in **Table 4-2**, remain valid with the addition of Lodgeview Phase 1 development. No additional upgrades are required.



4.3.2 Full Build-out

Full build-out of the Lodgeview development will result in 24.9 L/s of peak wet weather flow (Helix Engineering. 2022). 22.8 L/s of the flow is discharged into MH 234 on 5 Avenue W, while the remining 2.1 L/s is discharged into MH 46 on 7 Avenue W. Simulation results of the existing system with full build-out of the Lodgeview development are shown on **Figure 4-4**. Proposed upgrades noted in **Table 4-2** are not included in the simulation results.

As Lodgeview development will generate a large amount of additional wastewater, the existing wastewater collection system is over utilized, and several areas are expected to flood. Not only are the Highway Trunk and Lagoon Trunk simulated to be over utilized and surcharging, areas surrounding 2 Avenue and 7 Street are also expected to be surcharging, increasing the risk of basement flooding. **Table 4-4** summarizes simulation results.

Table 4-4 Simulated Wastewater System Conditions Existing System + Lodgeview Full Build-Out

Location	Max HGL	Pipe Utilization
#1: Southern Highway Trunk , from 5 Street to southern end of Highway Avenue (MH 205 to MH 189)	Flooding	127% to 180%
#2: Northern Highway Trunk , from 9 Street to 11 Street (MH 198 to MH 48)	Flooding	162% to 330%
#3: Lagoon Trunk , from Hwy 43 to field south of 3 Street (MH 205 to MH 237)	1.3 m to 2.3 m below ground level	87% to 210%

Proposed Upgrades

Proposed upgrades to the Existing + Lodgeview Full Build-Out condition are similar to the upgrades proposed for the existing system. Upgrades for the northern section of the Highway Trunk have been extended for a longer distance and a larger pipe size. **Table 4-5** summarizes the proposed upgrades.

Upgrade Location		Proposed Upgrade		
		Existing Pipe Diameter	Proposed Pipe Diameter	Length
#1: Southern Highway Trunk	MH 205 to MH 192	200 mm	300 mm ¹	220 m
	MH 192 to MH 189	200 mm	250 mm ¹	210 m
#2: Northern Highway Trunk	MH 200 to MH 196	250 mm	375 mm	350 m
	MH 196 to MH 194	200 mm	300 mm ²	190 m
	MH 194 to MH 49	200 mm	300 mm	1,030 m
	MH 49 to MH 43	200 mm	250 mm	390 m
#3 Lagoon Trunk	MH 205 to MH 238	375 mm	450 mm ¹	840 m
			Sum	3,230 m

 Table 4-5
 Proposed Upgrades for Existing System
 Lodgeview Full Build-out

¹ Proposed upgrade is identical to upgrades proposed for existing system in Table 4-2.

² Proposed to be upsized to 250 mm as part of upgrades to existing system in Table 4-2.

Figure 4-5 shows the upgraded system. Similar to the existing system upgrades, the following areas have pipes that are simulated to be over utilized due to flat slopes (reducing conveyance capacity) but are not a concern because the HGL is within the pipe, or the risk of basement flooding to the surrounding area is low:

- Lagoon trunk, from MH 205 to MH 237;
- West of MH 189;
- Northwest of MH 129;
- South of MH 50, and
- West of MH 49.

5 OPINION OF PROBABLE COST

This section presents conceptual opinion of probable cost estimates associated with the construction of various upgrades as noted in the previous sections. Due to the conceptual nature of this study and understanding that there exist unknown variables beyond the scope of this study, the estimates presented herein include contingency of 30% and engineering allowance of 15% of the total estimated costs. All cost estimates are in 2022 dollars and does not include GST.

5.1 Water Distribution System Upgrade Costs

Table 5-1 shows probable construction costs for proposed off-site improvements and additional upgrades to fullyachieve fire flow requirements within Lodgeview. Cost breakdowns are included in Appendix B.

Upgrade	Description	Length	Cost (2022 \$)
Off-Site Improvements	Lodgeview Full Build-Out Improvements		
West Side Looping	New 250 mm dia. Hwy 43 Crossing and Extension to Lodgeview @ 8 Avenue W	590 m	\$2,446,000
East Side Looping	New 250 mm dia. extension along 5 Avenue	390 m	\$1,312,000
WTP Extension	Connect and Upsize watermain west of WTP	160 m	\$539,000
	Subtotal	1,140 m	\$4,297,000
Additional Upgrades to F	ully Achieve Fire Flow Requirements in Lodgeview		
WTP Upgrade	Upsize WTP pumping capacity	-	\$4,350,000
Upsize Existing Crossing	Upsize existing crossing near WTP to 300 mm dia.	180 m	\$1,041,000
Install New Trunk	New 300 mm dia. trunk along Hwy 43	800 m	\$2,866,000
	Subtotal	980 m	\$8,257,000
	Total	2,120 m	\$12,554,000

Table 5-1	Water Distribution System	n Improvement Costs
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5.2 Wastewater Collection System Upgrade Costs

Table 5-2 summarizes probable costs to improve the wastewater system. Cost breakdown is included in Appendix B.

Upgrade	Description	Length	Cost (2022 \$)
Existing System Improven	nents		
Southern Highway Trunk	Upsize to 300 mm and 250 mm dia. along Highway Avenue, south of 5 Street	430 m	\$1,300,000
Northern Highway Trunk	Upsize to 250 mm dia. along Hwy 43 b/w 10 Street and 10A Street	190 m	\$557,000
Lagoon Trunk	Upsize to 450 mm dia. southwest of Hwy 43	840 m	\$2,158,000
	Subtotal	1,460 m	\$4,015,000
Existing System + Lodgevi	ew Full Build-Out Improvements		
Southern Highway Trunk	Same as Existing System Improvements		
Northern Highway Trunk	Upsize to 375 mm and 300 mm dia. along Hwy 43 b/w 8 Street to 11A Street	1,960 m	\$6,058,000
Lagoon Trunk	Same as Existing System Improvements		
	Subtotal	1,960 m	\$6,058,000
	Total	3,420 m	\$10,073,000

Table 5-2 Wastewater Distribution System Improvement Costs

6 CONCLUSIONS

6.1 Water Distribution System

- The existing water distribution system near the proposed Lodgeview development has peak hour pressure that is within the normal operating pressure.
- The existing system near the proposed Lodgeview development can provide between 40% to 80% of the required fire flow. The existing system is constrained for many reasons: undersized pumps, undersized watermains in some locations, and the need to maintain minimum pressure through the system.
- The Lodgeview Phase 1 development demand on the system is immaterial and will experience a similar level of service as the surrounding area.
- With full build-out of the Lodgeview Estates development, three off-site improvements are required to improve available fire flow (100% of the required fire flow for low density residential developments, and approximately 60% of the required fire flow for high density residential and commercial developments):
 - New Hwy 43 crossing and connection to western edge of Lodgeview development;
 - New trunk connection to east side of Lodgeview Development; and
 - Upsize watermain and improve connection west of WTP.

- In order to fully satisfy fire flow requirements, additional improvements are required:
 - WTP pump upgrades;
 - Upsizing existing watermain crossing; and
 - Install new trunk along Hwy 43 are required.

6.2 Wastewater Collection System

- The Town experiences large infiltration and inflow due to most or all houses being connected to the weeping tile system. The infiltration and inflow has a significant impact on the sewer system performance and sizing. Flow monitoring data is not available to validate assumptions or flows in the sewer system.
- The existing wastewater collection system is simulated to surcharge along both the Highway Trunk and Lagoon Trunk, under peak wet weather flow conditions.
- Southern end of the Highway Trunk is simulated to flood.
- Proposed upgrades to the existing system include upsizing the northern and southern ends of the Highway Trunk and upsizing the Lagoon Trunk.
- Phase 1 of Lodgeview Development sewage generation is immaterial to the performance of the system.
 Upgrades required under the Existing + Lodgeview Phase 1 condition are identical to the upgrades for the existing system.
- Under the Existing + Lodgeview Full Build-Out condition, significant flooding is expected along the Highway Trunk. Proposed upgrades include extensive upsizing along the northern portion of the Highway Trunk.
- Upgrades to the southern portion of the Highway Trunk and to the Lagoon Trunk are proposed for the existing system, are also required under the Existing + Lodgeview Full Build-Out condition.

7 **RECOMMENDATIONS**

7.1 Water Distribution System

- Consider implementing the three off-site improvements to increase available fire flow to the Lodgeview development which will also benefit other areas with the Town.
- Implement upgrades to the existing system, based on the 2016 Water Distribution System Analysis Report and findings from the ongoing Pump House Assessment project.

7.2 Wastewater Collection System

- Implement a flow monitoring program within the Town to understand peak wet weather flows experienced by the system and to confirm the criteria and recommendations proposed within this report.
- Monitor performance of the Highway Trunk and Lagoon Trunk during rainfall events. If surcharging or flooding is observed, implement proposed upgrades.

CERTIFICATION PAGE

This Memorandum was prepared for the Town of Beaverlodge to assess servicing needs for the proposed Lodgeview Estates Development.

The services provided by Associated Engineering Alberta Ltd. in the preparation of this report were conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty expressed or implied is made.

Respectfully submitted, Associated Engineering Alberta Ltd.

Prepared by:

Diego Mejia, P.Eng. Project Manager

Reviewed by:



Li Wang, P.Eng. Civil Engineer

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING ALBERTA LTD
Signature Sonton ID#67280 2023 Mar 22
Signature
N. Dos Santos ID#67380 2023-Mar-23
PERMIT NUMBER: P 03979
The Association of Professional Engineers
and Geoscientists of Alberta



AT A

APPENDIX A - 2016 WATER DISTRIBUTION SYSTEM ANALYSIS REPORT - SELECTED FIGURES



REPORT

Town of Beaverlodge

Water Distribution System Analysis



April 2016









APPENDIX B - OPINION OF PROBABLE COST BREAKDOWN

Appendix B	
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Proposed Upgrades

Wastewater System Existing Saystem mprovements

No.	Description	From MH	To MH	Length (m)	Rounded Up Length (m)	Existing Diameter (mm)	Proposed Diameter (mm)	Unit Cost (\$/lm)	Amount (\$)	Engineering (15%)	Contingency (30%)	TOTAL	Rounded Up Total
Lagoon Trunk / EXSAN1	Lagoon Trunk from Highway crossing to field south of 2 Ave / 3 St.	205	238	840	840	375	450	\$1,771.00	\$1,487,640.00	\$223,146.00	\$446,292.00	\$2,157,078.00	\$2,158,000
Southern Hwy Trunk / EXSAN2	Three segments of pipe along Highway Ave, south of 5 St	189	192	216	220	200	300	\$2,142.45	\$471,339.00	\$70,700.85	\$141,401.70	\$683,441.55	\$684,000
Southern Hwy Trunk / EXSAN3	Three additional segments of pipe along Highway Ave, south of 5 St	205	192	201	210	200	250	\$2,020.55	\$424,315.50	\$63,647.33	\$127,294.65	\$615,257.48	\$616,000
Northern Hwy Trunk / EXSAN4	Two segments of pipes along Highway Ave, from 10St to 10A St	194	196	185	190	200	250	\$2,020.55	\$383,904.50	\$57,585.68	\$115,171.35	\$556,661.53	\$557,000
			SUM	1442	1460							\$4,012,438.55	\$4,015,000

Existing System	+ Lodgeview Full Build Out Improvements	

No.	Description	From MH	То МН	Length (m)	Rounded Up Length (m)	Existing Diameter (mm)	Proposed Diameter (mm)	Unit Cost (\$/lm)	Amount (\$)	Engineering (15%)	Contingency (30%)	TOTAL	Rounded Up Total
LVSAN1	From Highway Ave / 10 St to Highway Ave / 8 St.	196	200	345.1	350	250	375	\$2,213.75	\$774,812.50	\$116,221.88	\$232,443.75	\$1,123,478.13	\$1,124,000
LVSAN2	Same as EXSAN4, Two segments of pipes along Highway Ave, from 10St to 10A St	194	196	185	190	250	300	\$2,142.45	\$407,065.50	\$61,059.83	\$122,119.65	\$590,244.98	\$591,000
LVSAN3	From 11 St east of 7 Ave to Highway Ave / 10 St	49	194	1020.4	1030	200	300	\$2,142.45	\$2,206,723.50	\$331,008.53	\$662,017.05	\$3,199,749.08	\$3,200,000
LVSAN4	From 5Ave/11A St to 11 St east of 7 Ave.	43	49	389.6	390	200	250	\$2,020.55	\$788,014.50	\$118,202.18	\$236,404.35	\$1,142,621.03	\$1,143,000
			SUM	1940	1960							\$6,056,093.20	\$6,058,000

Appendix B

Waste System

Off-Site Improvements

No.	Description	From Node	To Node	Length (m)	Rounded Up Length (m)	Existing Diameter (mm)	Proposed Diameter (mm)	Unit Cost (\$/lm)	Amount (\$)	Engineering (15%)	Contingency (30%)	TOTAL	Rounded Up Total
West Side Looping	New HWY Crossing (Trenchless)	J-176	J-144	234	240		250	\$3,640.90	\$873,816.00	\$131,072.40	\$262,144.80	\$1,267,033.20	\$1,268,000
/ Off Site Trunk 1	Connection to Lodgeview via 8 Ave	J-144	J-906	346	350	*	250	\$2,319.55	\$811,842.50	\$121,776.38	\$243,552.75	\$1,177,171.63	\$1,178,000
East Side Looping / Off Site Trunk 2	Looping along 5 Ave	J-119	J-908	381	390	-	250	\$2,319.55	\$904,624.50	\$135,693.68	\$271,387.35	\$1,311,705.53	\$1,312,000
WTP Connection	Connect WTP westward along 4 Street	J-165	J-48	152	160	150	250	\$2,319.55	\$371,128.00	\$55,669.20	\$111,338.40	\$538,135.60	\$539,000
			SUM	1113	1140							\$4,294,045.95	\$4,297,000

Additional Upgrades

No.	Description	From Node	To Node	Length (m)	Rounded Up Length (m)	Existing Diameter (mm)	Proposed Diameter (mm)	Unit Cost (\$/lm)	Amount (\$)	Engineering (15%)	Contingency (30%)	TOTAL	Rounded Up Total
WTP Upgrades	New WTP Pumps			3				\$1,000,000.00	\$3,000,000.00	\$450,000.00	\$900,000.00	\$4,350,000.00	\$4,350,000
Upsize EX Crossing / LVWTR1	Upsize WM Crossing HWY 43 (Trenchless)	J-49	J-53	180	180	150	300	\$3,986.73	\$717,612.00	\$107,641.80	\$215,283.60	\$1,040,537.40	\$1,041,000
New Hwy 43 Trunk / LVWTR2	Construct WM along Highway Ave	J-53	J-152	800	800	-	300	\$2,470.20	\$1,976,160.00	\$296,424.00	\$592,848.00	\$2,865,432.00	\$2,866,000
			SUM	980	980							\$8,255,969.40	\$8,257,000



Box 30, 400 - 10th Street Beaverlodge, AB TOH 0C0

From: Administration

Reference: 2023 Appointment of Weed Inspectors

Date: April 24, 2023

Each year the Town of Beaverlodge appoints weed inspectors for the Town from the County of Grande Prairie.

Administration is asking that Council appoints Tracelle Hinze and Mitchel Gorman as weed inspectors for the Town of Beaverlodge, expiring on December 31, 2023.

Email town@beaverlodge.ca

Phone 780-354-2201

Website beaverlodge.ca

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<u>COMMITTEE OF THE WHOLE MEETING MINUTES</u> <u>COUNCIL CHAMBERS 400 10 St, BEAVERLODGE @ 6:00 P.M. April 11, 2023</u>

COUNCIL	Mayor Gary Rycroft
	Councillor Judy Kokotilo-Bekkerus
	Councillor Cody Moulds

Deputy Mayor Cal Mosher Councillor Hugh Graw Councillor Cyndi Corbett

STAFF Jeff Johnston, CAO

Tina Letendre, Deputy CAO Nichole Young, Legislative Services

1.0 CALL TO ORDER: Mayor Gary Rycroft called meeting to order.

6:00 PM

2.0 LAND ACKNOWLEDGMENT:

As long as the sun shines, grass grows and the rivers flow – we acknowledge the homeland of the many diverse First Nation & Métis people whose ancestors have walked this land. We are grateful to live, learn and work on the traditional territory of Treaty 8 and we make this acknowledgement as an act of reconciliation and gratitude.

3.0 ADOPTION OF AGENDA:

#046-2023-04-11Councillor Hugh GrawCARRIED: That the Committee of the Whole accepts the agenda with the following changes:

- Remove New Business 6.8 Economic Development Committee Update
 - Add New Business 6.8 Street Performers Teaser

4.0 DELEGATION:

5.0 OLD BUSINESS:

6.0 NEW BUSINESS:

6.1 ATCO Franchise Report

#047-2023-04-11Deputy Mayor Cal MosherCARRIED: That the Committee of the Whole recommends that Council accept this report forinformation at the April 24, 2023 Council meeting.

6.2 Chiller Replacement Update

#048-2023-04-11Councillor Cyndi CorbettCARRIED: That the Committee of the Whole recommends that this item be taken to Council onApril 24, 2023.

6.3 2023 Municipal By-election Update#049-2023-04-11 Councillor Cyndi CorbettCARRIED: That the Committee of the Whole accepts this update for information.

6.4 Artwalk 2023

Committee of the Whole

March 27, 2023

#050-2023-04-11 Councillor Hugh Graw

CARRIED: That the Committee of the Whole accepts this update for information.

6.5 Firehall Building Committee Update

#051-2023-04-11 Councillor Cody Moulds

CARRIED: That the Committee of the Whole accepts this update for information.

6.6 Mountview Health Complex Committee Update#052-2023-04-11 Councillor Judy Kokotilo-BekkerusCARRIED: That the Committee of the Whole accepts this update for information.

6.7 Community Enhancement Committee Update#053-2023-04-11 Councillor Judy Kokotilo-BekkerusCARRIED: That the Committee of the Whole accepts this update for information.

6.8 Street Performers Teaser
 #054-2023-04-11 Councillor Judy Kokotilo-Bekkerus
 CARRIED: That the Committee of the Whole recommends that this item be taken to Council on April 24, 2023.

7.0 TOPICS FOR NEXT AGENDA:

- Firehall Building Committee Update
- Mountview Health Complex Committee Update
- Community Enhancement Committee Update
- Economic Development Committee Update
- Artwalk June 9,2023 Councillor Moulds

8.0 ADJOURNMENT: Mayor Rycroft adjourned the meeting.

6:31 PM

Mayor Gary Rycroft

Deputy Mayor Cal Mosher

Committee of the Whole

March 27, 2023



265 East 400 South | Box 291 | Raymond | Alberta | TOK 2SO |403 752-4585 | www.abfarmsafety.com

ARCEIVED

AFK 18 2023

April 13, 2023

Mr. Jeff Johnston

Chief Administrative Officer

Town of Beaverlodge

Box 30, Beaverlodge, AB. T0H 0C0

Dear Mr. Johnston,

I hope this letter finds you well. My name is Jordan Jensen, and I am the Executive Director of the Farm Safety Centre. I am writing to you in response to your letter requesting more information about the benefits of our Safety Smarts program for elementary children in your community.

Safety Smarts is a comprehensive educational program aimed at teaching rural elementary children about various aspects of farm safety. Since 1998, the Farm Safety Centre has offered this program free-of-charge to schools in rural Alberta. The program consists of seven in-person farm safety presentations with interactive activities and curricula tailored to children in Kindergarten to grade six. The program covers a wide range of topics, including one-seat, one rider; water and ice safety; safe play areas; protecting your hearing; personal responsibility; quad and dirt bike safety; electrical safety; horse safety; livestock safety; and concussions.

An external evaluation of the Safety Smarts program conducted by SWM Consulting Services and BIM Larsson & Associates in 2016-2017 provided valuable insights into the program's implementation and impact. The evaluation found that local instructors with farm experience delivered evidence-based, farm safety instruction to rural children, effectively increasing their awareness and knowledge of farm hazards and building pro-safety attitudes that endure as they mature. According to the evaluation, 98% of classroom teachers believed that farm safety is an important topic to discuss with their students and found the Safety Smarts curriculum relevant, age-appropriate, and culturally respectful.

In 2022, we had the pleasure of delivering one presentation to 22 students at Beaverlodge Elementary and seven presentations to 141 students at St. Mary's Elementary School. We are pleased to inform you that we anticipate reaching at least the same number of students in your community this year.

Furthermore, I would like to express our deepest gratitude to you, Mr. Johnson, and the Town of Beaverlodge's council for your generous decision to support our program with a \$500 donation. This contribution will greatly aid us in continuing to provide valuable safety education to the children in your community. As a token of our appreciation, we will recognize this donation on our website, <u>www.abfarmsafety.com</u>, under the "Supporters" section.

Once again, thank you for your support and interest in our Safety Smarts program. If you have any further questions or require additional information, please do not hesitate to contact me or request the full evaluation report at j.jensen@abfarmsafety.com.

Sincerely,

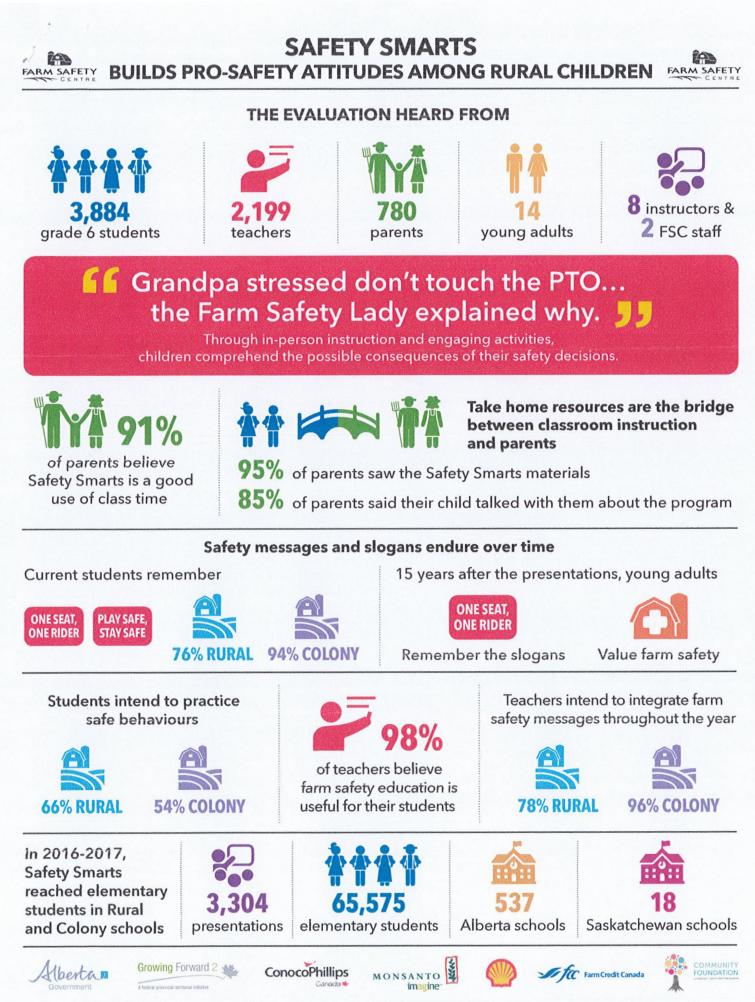
Jordan Jensen | Executive Director

Farm Safety Centre

Cell: 403.593.8960

Office: 403.752.4585

j.jensen@abfarmsafety.com



We also gratefully acknowledge the generous and consistent support from Counties, MDs and Colonies

Box 30, Beaverlodge, AB TOH 0C0



Phone: 780.354.2201 Fax: 780.354.2207

<u>Minutes for the Town of Beaverlodge</u> <u>Community Enhancement Committee Meeting</u> <u>Tuesday October 18, 2022 at 4:15 PM</u> - CHAIR– Judy Kokotilo-Bekkerus

ATTENDANCE:

Judy Kokotilo-Bekkerus – Chair Cody Moulds - Councillor Megan Hauger - Member Jeff Johnston – CAO Gena Jones - Councillor Margie Weiss – Member Christy Martin - Member Recording Secretary - Nichole Young

1.0 CALL TO ORDER:

- The meeting commenced at 4:13 PM.

2.0 ADOPTION OF AGENDA:

#015-2022-10-18 Councillor Cody Moulds

CARRIED: That the Committee accepts the agenda for October 18, 2022 as presented.

3.0 ADOPTION OF MINUTES:

#016-2022-10-18 Councillor Gena Jones

CARRIED: That the Committee accepts the minutes from August 24, 2022 with the change that the motion for New Business item 5.2 was made by Member Megan Hauger and not Member Christy Martin.

4.0 OLD BUSINESS:

5.0 NEW BUSINESS:

- 5.1 <u>Town Hall Update</u> CAO Jeff Johnston gave a brief synopsis of the Town Hall 22 attended and 17 stayed for the group work portion. Facilitator Holly Sorgen has sent a report as well as a survey for those who didn't attend.
- 5.2 <u>Continued Engagement with Service Groups</u> send out the survey to the non-attendees.

5.3 Member-at-large Applications – 2 applications were discussed.

#017-2022-10-18 Councillor Gena Jones

CARRIED: That the Community Enhancement Committee recommends that Council approve the member-at-large application of Rhonda Matheson and appoint her to this Committee.

5.4 <u>Community Walkability Working Group</u> – formation of this sub-committee includes nomination for Chair, call for volunteers, application for volunteers, writing the terms of reference, public invitation for membership/volunteers.

#018-2022-10-18 Member Margie Weiss

CARRIED: That Councillor Gena Jones be named the Chair of the Community Walkability Working Group sub-committee.



Phone: 780.354.2201 Fax: 780.354.2207

5.5 <u>Action Item List</u> – Remove item 2 as complete. Jeff will approach the Parent Council about the Karman Willis Park when they come as a delegation to council next week. Invite the Parent Council to the next Community Enhancement Committee meeting and if they are receptive than bring before Council to get it on the Budget. Remove item 4. Add Community Walkability Working Group to Action List with Gena Jones as person responsible to formulate the plan.

6.0 ROUND TABLE:

- Gena Jones: nil
- Cody Moulds: nil
- Judy Kokotilo-Bekkerus: looking at connecting with newcomers to town via new utility accounts. Cody would like to donate Blades tickets to the welcome packages.
- Christy Martin: nil
- Megan Hauger: nil
- Margie Weiss: nil
 - o <u>2022 Event list</u>
 - Art Walk June 10,
 - Pioneer Days @ South Peace Centennial Museum July 17 & 17
 - McNaught Festival & IODE Strawberry Tea July 24 Festival 1-5 pm Tea 2-4 pm
 - Noah Grant Memorial Baseball Tournament July 29, 30 & 31
 - Peace Country Gospel Jamboree July 29, 30 & 31 @ SPCM
 - Blades Dine and Dance August 20
 - Harvest Festival Sept 10
 - Lobsterfest September 10
 - Truth & Reconciliation Day Sept 30
 - McNaught Ghost Walk October
 - Christmas Festival Nov 25
 - Christmas Craze December 2

Next meeting:

- November 29, 2022 @ 4:15 PM

7.0 ADJOURNMENT:

The meeting was adjourned at 5:08 PM

Chair, Judy Kokotilo-Bekkerus

Councillor Cody Moulds

Item Number	Subject	Requested On	People Responsible	Item Notes	Status	Target Date of Completion
1	10A St & Highway 43 (Subway Intersection)	22-Jun-20	CAO/Admin	Intersection has been surveyed - 2023 capital plan. Only \$50K in current budget, rest will be deferred to 2023 due to higher than expected pricing.	ON HOLD	8/1/2023
2	Recreation Centre Rate Review	27-Sep-21	CAO/Admin	CAO has received the rates and will review and bring to next Council meeting.	In progress	9/26/2022
3	Grande Prairie & District Catholic School Board	26-Oct-20	Admin	Met with SuperIntendent and Principal. Requested a meeting between the Board and Council.	In progress	Winter 2022
4	PWSB Joint Agreement	22-Nov-21	CAO	In process - approx. 6 weeks to complete	In progress	6/1/2023
5	Selfie Stand @ Beaver Statue	27-Jun-22	Admin	Council directs Admin to look into the cost of installing a Selfie stand	In progress	
6	Aquatera Presentation	27-Feb-23	CAO	Invite Aquatera to present to council. Contact has been made with mid-June as a target date.	In progress	
7	Alberta Farm Safety Centre	27-Mar-23	Admin	Request information about when and how the Alberta Farm Safety Centre dealt with Beaverlodge schools.	Completed	5/31/2023
8	Beaverlodge Health & Wellness	11-Apr-23	CAO	Agreement as per Council direction	In progress	
9	Community Rail Advocay Alliance	11-Apr-23	Admin	Pursue full membership with CRAA	In progress	
10	SPPARC Member-at-large	4-Nov-23	Admin	Advertise for a Member-at-large to join a Councillor on this committee.	In progress	

Current as of: Monday, April 24, 2023



Box 30, 400 - 10th Street Beaverlodge, AB TOH OCO

Monthly Report to Council

Date: April 20, 2023

From: Bradley Thibeault Senior Peace Officer Municipal Enforcement Department

Projects/Events	Highlights/Concerns
Calls to Service	During the Month of April, the following Calls to Service and Investigations
	were recorded through the following categories;
	 Municipal Types – 14; Provincial Types – 11;
	 Total of 25 Calls to Service.
Violations Tickets/ Warnings	100 Citations/Summons were issued in the Town of Beaverlodge
	• 5 Bylaw Tickets were issued
	95 Warnings were issued for Provincial/ Bylaw Infractions
	 15 Commercial Vehicle and Dangerous Goods Safety and Compliance Checks conducted. The inspections resulted in cargo securement violations, safety violations, document violations and overweight violations.

Email town@beaverlodge.ca

Phone 780-354-2201



9.2

 This month consisted of a large volume of high speeds being recorded within the Town. The average speed captured by passenger and commercial vehicles was 80 KM/HR in posted 50 KM/HR zones. These 50 KM/HR Zones include HWY 43, 11th ST, 11th AVE and 3rd ST. The highest speed captured in Town was 75 KM/HR in a posted 30 KM Playground Zone/with person(s) actively walking along the roadway. The highest speed captured on the HWY was 115 KM/HR along HWY 43 and 10th ST. A large quantity of complaints was received in Town this month regarding drivers engaging in dangerous operations of their motor vehicles upon highly populated residential roadways. The majority of the complaints were reported during the hours of 8 PM to 11 PM. I proceeded to arrange work schedule to attend to these complaints and conducted evening patrols within the community. During these patrols, multiple drivers were stopped whom were engaging in dangerous driving behaviours as well as disturbing the peace. A large quantity of intersection violations was reported by residences during the month of April. Municipal Enforcement conducted intersection enforcement throughout the month to attend to the complaints. One driver captured driving 80 KM/HR in posted 50 KM/HR zone along 11th AVE, and continuing through th3-way stop at 40 plus KM/HR without stopping at the clearly posted intersection.
 Law Enforcement Agencies (Alberta Crown Prosecution Service) monthly meeting attended. Bi-weekly TPM Peace Officer meeting attended Attended Bylaw information (Advance Projects and Government Department) training seminar to prepare for Bylaw Violations to be added to the provinces new E- Ticketing Platform;

Administrative Tasks	
	 Received confirmation that submitted Body Worn Camera (BWC) Policy was approved by Solicitor General and the Peace Officer Program; Generated new Road Use Agreement (RUA) for the Town of Beaverlodge. This is required to monitor Commercial Vehicles operating on municipal roadways – particularity restricted roads. This new form attributes to Public Safety and protecting road infrastructure; Submitted amendment o Peace Officer Appointment to add Tobacco, Smoking and Vaping Reduction Act along with the Tobacco Tax Act. This will aid in complaints received or violations observed, under the Act, in which there was no prior authority to assist.
Training and Development	 Attended 1-Day APIS (Safe Roads) training to prepare for launch of new Provincial ticketing system with a soft date of May 1^{st;} Attended Leadership for Safety Excellence 2-Day Training.



Monthly Report to Council From: Reanna Stockman Date: April 19, 2023 Department: FCSS

	Department: FCSS
Project/Event	Highlights/Concerns
Administrative Tasks	 Newsletter, Newspaper, and posters are ongoing Working on year-end stats and Provincial Report
Meetings	 ESS Tabletop Training Exercise (Mar 15) April 3 – Advisory Meeting
Programs	 Sensory, Songs & Stories starting @ Alliance Church has finished as of today. 11 Kids participated with their parents 12 individual nominations received Volunteer Awards Dinner April 20 @ 6:30pm – 107 participants registered for dinner. Volunteer Week – April 16-22 Stretch and Mobility Program for Seniors 60+ starting May 10 for 6 weeks (Presentation to Amisk April 26 to promote) Seniors and Songs have 14 children and their parents registered ending April 27 Meals have been ordered for Meals on Wheels. 3-4 weeks for delivery time.
Staffing	 Bus drivers have returned so back to consistent availability 2 part-time Home Support Workers
Training & Development	 Applied Suicide Intervention Skills Training (ASIST) March 22 & 23 April 5 & 6 – Leadership for Safety Training
Other	 Food Bank: Faye has the binder for a grant report so unable to give accurate numbers this month. Food Bank intake has increased steadily with new families signing up almost weekly. Probation has been using the office bi-weekly for meeting with clients. Odyssey House program is running at the library (7 clients currently) will be moving to the basement of the pool March 30. More privacy for clients. Currently 19 Home Support Clients



Box 30, Beaverlodge, AB TOH 0C0

Phone: 780.354.2201 Fax: 780.354.2207

Monthly Report to Council Date: Period ending March 2023

From: Tina Letendre

Department: Administration

Project/Event	Highlights/Concerns
Financial Administration	 Entered approved budgets into Muniware (Accounting Software) Monthly variance report WCB Annual Report Completed Safety Codes Annual Report
Other Initiatives	 Started 2 core course for NACCLA Level 2 – Municipal Law II Prepared and send Tax XML File to Assessors Received Tax Assessments, ran them through Muniware Sandbox to ensure balancing. Completed Operating Borrowing Bylaw
Development	 Development Permit – Fiber Optics value \$500,000.00



Box 30, Beaverlodge, AB TOH 0C0

Phone: 780.354.2201 Fax: 780.354.2207

Monthly Report to Council

From: Tracy Deets

Date: 24 April 2023

Department: Library

Project/Event	Highlights/Concerns
Programming / Events	Easter activity/craft was well received, with all available spots full. A Mother's Day craft will take place on Wednesday May 10 th
	Planning is underway for summer program and take-home activity bags
	From Saturday April 22 nd through Friday April 28 th , it's our biggest Grab and Go book event yet. We're offering up hundreds of books from our own shelves, as well as very good donations from the public
Administrative	Attended "Leadership for Safety Excellence" training Attended Library Managers Council meeting at Peace Library System headquarters Began work on second phase of our provincial funding grant
Staff	Continued training of new staff in tandem with Library Coordinator
Other	Following the submission of our Annual Report to the provincial government, they provide us with an infographic for easy access to our stats. Infographic is included



Beaverlodge **Public Library**

Annual Report 2022



open hours in 2022!



670 people have a card at our library



8,850 people walked through our doors last year



In addition to 6,565 website visits



The library added 1,065 new items last year



Bringing the total collection to 24,207



There were 3,038 downloads of e-Content



Contributing to a total of 29,454 checkouts!



We lent our items to libraries outside of our system 5,278 times



And brought in 7,416 items upon patron request



We offered 72 in-person programs



Our service is delivered by 4 dedicated staff



We answered 850 reference questions



And 6 take-home crafts and activities



The Friends of the Library provided funds for projects

Our exam proctoring services

were booked 52 times

721 people

attended in total!



The library has 4 public computers





And our Wi-Fi had 8,689 connections!