

Calgary Metropolitan Region Board
November 22, 2019 Board Meeting Agenda
9: 30 AM, Mount Royal University
Roderick Mah Centre for Continuous Learning, Room EC2010

- | | | | |
|---|--------------|------------|-------------------------|
| 1. Call to Order and Opening Remarks | (Attachment) | Sheard | |
| 2. Adoption of Agenda
<i>To adopt and/or revise agenda</i> | | All | |
| 3. Adoption of Minutes of Last Meeting
<i>For Decision: Motion that the Board approve the Minutes of the October 18, 2019 meeting</i> | (Attachment) | All | Page 3 |
| 4. Municipal Context Reports
<i>For Information: to provide a presentation on the Town of Strathmore Municipal Context Report</i> | | Strathmore | |
| 5. IREF Challenge
<i>For Decision: Motion that the Board approve City of Calgary's IREF Application #2019-04</i> | (Attachment) | Sheard | Page 7 |
| 6. Governance Committee Update
<i>For Information: Motion that the Board receive for information an update on the Governance Committee, draft Minutes from October 18, 2019 attached</i> | (Attachment) | Copping | Page 21 |
| 7. Governance Terms of Reference Update
<i>For Decision: Motion that the Board approve the Revised Terms of Reference for the Governance Committee</i> | (Attachment) | Copping | Page 23 |
| 8. Q3 Actuals
<i>For Information: Motion that the Board receive for information the 2019 Q3 Actuals</i> | (Attachment) | Copping | Page 26 |
| 9. Budget 2020
<i>For Review: Motion that the Board review and provide direction to Administration on the proposed CMRB 2020 Budget</i> | (Attachment) | Copping | Page 28 |

10. Regional Employment Analysis (Attachment) Tipman **Page 32**
For Decision: Motion that the Board approve the status quo regional employment projections for the Calgary Metropolitan Region
11. Natural & Managed Water Capacity Study (Attachment) Graves/Berzins **Page 36**
For Decision: Motion that the Board approve the Natural and Managed Capacity of Regional Water Supply in the Calgary Metropolitan Region study as input for the Growth Plan consultant
 *Report & Bibliography from WaterSMART will be circulated separately
12. CMR Existing Water & Wastewater Servicing and Regional Potential Study (Attachment) Graves/Berzins **Page 41**
For Decision: Motion that the Board approve the CMR Existing Water and Wastewater Servicing and Regional Potential study as input for the Growth Plan consultant
 *Report from Urban Systems will be circulated separately
13. Request from Member Municipality High River
Discussion Item: Special Study Areas
14. LUC and ISC Update (Attachment) Tipman/Graves **Page 45**
For Information: Motion that the Board receive for information an update on the LUC and ISC
15. Board & Committee Appointments (Attachment) Copping **Page 50**
For Decision: Motion that the Board approve the updated Board & Committee Appointments
16. Roundtable Discussion All
17. Next Meeting: Friday Dec 13, 2019 @ MRU
18. Adjournment

Upcoming Meetings:

Land Use Committee	Dec 5 @ 9:30 AM	MRU Room EC2010
Intermunicipal Servicing Committee	Dec 5 @ 1:00 PM	MRU Room EC2010
Board Meeting	Dec 13 @ 9:30 AM	TBD
Advocacy Committee	TBD	
Governance Committee	Jan 30 @ 9:30 AM	CMRB Offices

Delegates in Attendance:

Mayor Peter Brown – City of Airdrie
Councillor Gian Carlo Carra – City of Calgary
Mayor Marshall Chalmers – City of Chestermere
Mayor Jeff Genung – Town of Cochrane
Reeve Larry Spilak – Foothills County
Mayor Bill Robertson – Town of Okotoks
Reeve Greg Boehlke – Rocky View County
Councillor Bob Sobol – Town of Strathmore
Reeve Amber Link – Wheatland County

Monte Krueger, Municipal Affairs

CMRB Administration:

Chris Sheard, Chair
Jordon Copping, Chief Officer
Liisa Tipman, Project Manager–Land Use
Jaime Graves, Project Manager–Intermunicipal Servicing
Shelley Armeneau, Office Manager
Jean-Paul Leclair, GIS Analyst

1. Call to Order

Called to order at 9:30 AM.

2. Approval of Agenda

M 2019-50

Moved by Mayor Brown, **Seconded by** Mayor Robertson, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board approve the agenda of October 18, 2019, adding a closed session pursuant to Section 17 of FOIP after approval of Minutes, and move Appeal/Dispute Resolution Mechanism to follow IREF Challenge.

Motion carried unanimously.

3. Approval of Minutes

M 2019-51

Moved by Councillor Sobol **Seconded by** Reeve Link, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board approve the Minutes of September 20, 2019, as presented.

Motion carried unanimously.

4. Closed Session (Pursuant to Section 17 of FOIP)

Moved into closed session at 9:34 AM. Returned to public session at 10:14 AM.

5. IREF Challenge

After discussion by the Board members, this item was postponed to the next Board meeting to allow for document changes.

M 2019-52

Moved by Mayor Robertson, **Seconded by** Mayor Brown, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board postpone consideration of IREF #2019-04 to the next meeting of the Board.

Motion carried unanimously.

Motion Arising

M 2019-53

Moved by Mayor Chalmers, **Seconded by** Mayor Peter Brown, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board direct CMRB Administration to organize a one-day meeting between the Board, CMRB Chair and CMRB Chief Officer before the end of the year, if possible.

Motion carried unanimously.

6. Appeal/Dispute Resolution Mechanism

Jordon Copping reviewed the options provided in the agenda package. Members discussed the item and made the following motion:

Motion:

M 2019-54

Moved by Mayor Chalmers **Seconded by** Reeve Spilak, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board refer the Appeal/Dispute Resolution Mechanism back to the Governance Committee for further work.

Motion carried unanimously.

Mayor Brown left at 11:00 AM.

7. Procedural Policy on Motions

Motion:

M 2019-55

Moved by Reeve Boehlke **Seconded by** Mayor Robertson, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board approve the Procedural Policy Option 1.

Motion carried unanimously.

8. Demand Management Study

Motion:

M 2019-56

Moved by Mayor Genung **Seconded by** Mayor Robertson, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board approve the Water Use and Conservation in the Calgary Metropolitan Region Study for consideration as input for the Growth Planning Consultant.

Motion carried unanimously.

9. Governance Committee Update

Jordon Copping reviewed the Governance Committee Minutes and noted that the motion in Item #6 of the notes incorrectly stated the motion was carried unanimously, however it was simply carried.

Motion:

M 2019-57

Moved by Reeve Link **Seconded by** Mayor Robertson, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board receive for information an update on the Governance Committee.

Motion carried unanimously.

10. Q2 Actuals

Motion:

M 2019-58

Moved by Mayor Genung **Seconded by** Reeve Link, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board receive for information the 2019 Q2 Actuals.

Motion carried unanimously.

11. Signing Authority Policy

Motion:

M 2019-59

Moved by Mayor Robertson **Seconded by** Mayor Chalmers, accepted by Chair.

Motion: That the Calgary Metropolitan Region Board approve the updated Signing Authority Policy

Motion carried unanimously.

12. LUC/ISC Update

Jaime Graves and Liisa Tipman provided a verbal update on the recent Committee work.

13. Meeting Dates for 2020

The Board agreed to adopt the proposed meeting dates for 2020, changing the Board meeting in March to the 20th.

14. Roundtable Discussion

Members held a brief roundtable discussion.

15. Next Meeting: Friday November 22, 2019 @ MRU, 9:30 AM

16. Adjournment

The Chair declared the meeting adjourned at 11:46 AM.

CMRB Chair, Christopher Sheard

Agenda Item	5
Submitted to	Board
Purpose	For Decision
Subject	IREF Application #2019-04
Meeting Date	November 22, 2019
That the Board APPROVE City of Calgary's IREF Application #2019-04	
<p>Summary</p> <ul style="list-style-type: none"> • The City of Calgary submitted IREF Application #2019-04 on July 30, 2019. • The application was reviewed by third party consultants O2 Planning and Design Inc. and was found to be generally consistent with the objectives of the IREF and IGP. • On September 11, 2019 CMRB Administration recommended approval of IREF application #2019-04. • The CMRB received one challenge to the recommendation of approval from the Rocky View County. • At the October 18, 2019 Board meeting, consideration of this agenda item was postponed to the November 22, 2019 Board meeting to allow for document changes. 	
<p>Attachments</p> <ul style="list-style-type: none"> • CMRB Administration Recommendation • O2 Planning and Design Inc., Third Party Consultant Review • All other IREF application materials were included in the October 18th Board package and can be found at: https://www.calgarymetroregion.ca/2019-06 	

Interim Regional Evaluation Framework (IREF) CMRB Administration Recommendation	
Member Municipality	City of Calgary
Application Name	West View Area Structure Plan
IREF Application Number	2019-04
Type of Application	Area Structure Plan
Municipality Bylaw #	Bylaw 62P2019
Date of Application	July 30, 2019
Date Application Complete	August 6, 2019
Date of CMRB Administration Recommendation	September 11, 2019
CMRB Administration Recommendation	
That the Board APPROVE IREF Application 2019-04, the City of Calgary West View Area Structure Plan.	
<ul style="list-style-type: none"> • IREF Application 2019-04 is a proposed new Area Structure Plan located in the west/southwest area of the City of Calgary. The plan area is bisected by the TransCanada Highway. • The proposed ASP is located adjacent to the City’s municipal boundary with Rocky View County. The proposed ASP is within the Rocky View/Calgary Intermunicipal Development Plan area. • The overall intention of the ASP is to provide a framework for the future development of approximately 250 hectares (618 acres) of greenfield land. • The development proposed within the ASP includes a mix of uses, parks and open spaces, with higher intensity uses provided in community nodes. • The third-party consultant review, completed by O2 Planning and Design Inc., found the application to be consistent with the Interim Growth Plan (IGP) and the IREF. • CMRB Administration finds IREF Application 2019-04 to be consistent with the principles and policies of the IGP and Section 6.0 of the IREF, and recommends the application for approval. 	
Attachment	
<ul style="list-style-type: none"> • O2 Planning and Design, Third-Party Consultant Review 	

Agenda Item 5 Attachment

IREF Application 2019-04
CMRB Recommendation
Page **1** of **4**

1.0 Background

On July 30, 2019, City of Calgary submitted Interim Regional Evaluation Framework (“IREF”) Application 2019-04, the West View Area Structure Plan. City of Calgary Council held a Public Hearing and gave First Reading to Bylaw 62P2019.

The ASP was submitted to the CMRB through IREF under Section 4.1(b) which requires municipalities to refer “all new Area Redevelopment Plans (“ARPs”) and Area Structure Plans (“ASPs”) proposing employment areas and/or 50 or more new dwelling units” to the Board. The West View ASP policies provides a framework for the future development of approximately 250 hectares (618 acres) of greenfield land in west Calgary, with an anticipated residential population of between 8,000 to 10,000 people with approximately 1,300 jobs.

CMRB Administration notified CMRB members of IREF application 2019-04 on August 6, 2019.

2.0 Third Party Evaluation

CMRB Administration obtained the assistance of O2 Planning and Design Inc. (“O2”) to evaluate the application with respect to the IREF requirements. The O2 evaluation (attached) reviewed the proposed ASP in relation to the objectives of the Interim Growth Plan (“IGP”) and the evaluation criteria of the IREF. The O2 evaluation found IREF Application 2019-04 to be generally consistent with the objectives of the IGP and IREF.

3.0 CMRB Administration Comments

CMRB Administration agrees with the IREF third-party consultant evaluation and supports approval of the proposed West View ASP, Bylaw 62P2019.

3.1 IGP Section 2, Principle 1: Promote the Integration and Efficient Use of Regional Infrastructure

The new community proposed in the West View ASP is bisected by the TransCanada Highway, a regional transportation corridor identified on IGP *Schedule 3: Mobility Corridors – Transportation and Trade*. Policies in the proposed ASP provide for the development of a partial interchange off the Trans Canada Highway. The application package does not include comments from Alberta Transportation related to the proposed development; however, Policy 6.3.2 of the proposed ASP states that “the location and design of the proposed partial interchange shall be approved to the satisfaction of the Province and the City of Calgary prior to approval of any applicable land use amendments or outline plans in The Plan Area.”

The plan area also includes a regionally significant power transmission line and intermunicipal wastewater line, as identified on *Schedule 5: Transmission Corridors – Water* and *Schedule 6: Transmission Corridors – Energy* respectively. Within the proposed ASP, these regional features are mapped in Section 10.5 *Appendix E: Regional Corridors and Context*.

3.2 *IGP Section 2, Principle 2: Protect Water Quality and Quantity*

The plan area includes a number of environmental features such as wetlands, an escarpment, riparian areas adjacent to the Bow River, native grasslands, large tree stands, and a creek and its associated riparian area. Section 5.5 of the proposed ASP includes a large Environmental Open Space (“EOS”) Study Area in the northeast portion of the plan area. The purpose of the EOS is to identify the need for further study of several significant environmental features, including wetlands, at land use amendment and outline plan stage to ensure they are appropriately integrated into the final community design.

Section 7.3 *Stormwater Management* of the proposed ASP identifies the proximity of the plan area to the Bears paw Reservoir and contains policies for preventing source water contamination and adverse impacts from development. The proposed ASP includes the requirement for completion of a master drainage plan to preserve natural features and provide efficient stormwater management.

The ASP does not contain policies specific to water conservation but is generally consistent with Principle 2 of the IGP.

3.3 *IGP Section 2, Principle 3: Encourage Efficient Growth and Strong and Sustainable Communities*

The proposed development includes an efficient use of land, provides for a mix of uses, provides access to community nodes, and includes community services and facilities.

3.4 *IGP Section 3.2, Region-Wide Policies*

Section 3.2.2 of the IGP requires, at a minimum, that municipalities “demonstrate collaboration to coordinate” on new Area Structure Plans or amendments to existing Area Structure Plans within 1.6 km of a neighbouring municipal boundary or an agreed upon notification area between member municipalities. The proposed MDP amendments were circulated to Rocky View County which shares a boundary with the plan area.

As stated in the City of Calgary’s IREF application, “the City of Calgary circulated the proposed Area Structure Plan and held several meetings with Rocky View County,” which is consistent with Policy 3.2.2 a) of the IGP. Staff from Rocky View County also participated in a visioning session for the project and were invited to open houses.

Rocky View County expressed concerns related to the coordination of transportation, stormwater and transitional land uses. Land use interface policies in the proposed ASP were updated on the floor of City of Calgary Council as part of First Reading in recognition of Rocky View County’s expressed concern.

Rocky View County’s concerns were not resolved through the engagement process undertaken by the City of Calgary; however, further opportunities for regional collaboration around the coordination of planning for land use, infrastructure, and

service provision are slated to occur through the City of Calgary's land use and outline plan planning process. Section 8.5 of the ASP provides policy direction that planning proposals within the IDP Policy Area will be circulated to Rocky View County in accordance with IDP policies.

3.5 IGP Section 3.4.2, Expansion of Settlement Areas

The West View ASP is consistent with Policy 3.4.2.1 of the IGP which provides direction for the expansion of existing settlement areas. The proposed ASP:

- Creates contiguous pattern of development
- Achieves efficient use of land
- Achieves higher density/mixed-use, transit supportive development in two Neighbourhood Activity Centres
- Provides a mix of commercial, residential, and community uses
- Encourages a range of housing forms
- Connects to existing City infrastructure
- Connects to existing transportation networks

Section 3.4.2.2 of the IGP provides policy direction for the expansion of existing settlement areas where 500 or greater new dwelling units are proposed. The proposed ASP provides a framework for the development of approximately 3500 new dwelling units and 1300 jobs. Consistent with Policy 3.4.2.2, the proposed ASP includes policies that provide a range of employment uses, access to community nodes, connection to future transit and active transportation networks, and a range of housing forms. As stated in the City of Calgary Planning and Development report to Calgary Council, transit service will be provided to the West View community when ridership warrants and budget is available.

4.0 Recommendation

That the Board **APPROVE** IREF Application 2019-04, the West View Area Structure Plan.

September 5, 2019

Attention: Jordon Copping, Chief Officer

Calgary Metropolitan Region Board

305, 602 11 Ave SW

Calgary, Alberta T2R 1J8

Reference: IREF 2019-04 for the West View Area Structure Plan in The City of Calgary

Dear Mr. Copping,

Please find attached the third-party evaluation.

It is our opinion that the proposed plan is generally consistent with the objectives of the Calgary Metropolitan Region Interim Growth Plan being schedule A to Ministerial Order MSL 091/18.



Andrew Palmiere

Principal, Urban + Regional Planning
O2 Planning + Design

**INTERIM REGIONAL EVALUATION FRAMEWORK (IREF)
THIRD-PARTY REVIEW**

Member Municipality	The City of Calgary
Application Name	West View Area Structure Plan
IREF Number	2019-04
Type of Application	Area Structure Plan (new statutory plan)
Municipality Bylaw #	62P2019
Date of Application	July 30, 2019
Date of Third-Party Review Report	23 August, 2019

Findings

That the West View Area Structure Plan is consistent with the Interim Regional Evaluation Framework MSL: 091/18.

Summary of Review

- √ The ASP addresses the regional infrastructure identified in the IGP, including the Highway 1 mobility corridor, intermunicipal sanitary connection, and transmission lines
- √ The ASP promotes efficient, complete communities centred around mixed use community nodes that provide residential, employment, services, and community facilities that are well connected to existing mobility networks
- √ The ASP protects source water and mitigates adverse impacts on wetlands and natural systems through the Environmental Open Space Study Area as part of the Land Use Concept.
 - The ASP does not incorporate a policy to promote water conservation through water re-use or encouragement of Low Impact Development as per 3.2.3 a) of the IREF.

Review Prepared by:

O2 Planning + Design

Andrew Palmiere MCIP, RPP, PPS
Principal, Urban + Regional Planning

Sarah Lumley, MPL
Planner

<p>3.2.1</p> <p>Principles, Objectives, and Policies</p> <p>Did the proposed statutory plan or existing statutory plan amendment address the Principles, Objectives, and Policies of the IGP?</p>	<p>Yes, the ASP addresses the three Principles and associated objectives and policies.</p> <p>Principle 1: Promote the Integration and Efficient Use of Regional Infrastructure</p> <p>√ The ASP addresses the regional infrastructure identified in the IGP, including the Highway 1 mobility corridor, intermunicipal sanitary connection, and transmission lines.</p> <p>Principle 2: Protect Water Quality and Promote Water Conservation</p> <p>√ The ASP protects source water and mitigates adverse impacts on wetlands and natural systems through the Environmental Open Space Study Area as part of the Land Use Concept.</p> <p>Principle 3: Encourage Efficient Growth and Strong and Sustainable Communities</p> <p>√ The ASP promotes efficient, complete communities centred around mixed use community nodes that provide residential, employment, services, and community facilities that are well connected to existing mobility/transit networks.</p>
<p>3.2.2</p> <p>Demonstrate collaboration to coordinate with other member municipalities</p> <p>Did the applicant municipality collaborate to coordinate planning for land use, infrastructure, and service provision with other member municipalities:</p> <ul style="list-style-type: none"> • where appropriate; 	<p>Yes.</p> <p>√ The ASP is within the Rocky View County/City of Calgary Intermunicipal Development Plan (IDP) area, specifically Highway 1 West Corridor Key Focus Area. Section 3.5 Interface with Rocky View County policies ensure IDP interface principles are incorporated in all stages of development and that there is</p>

<ul style="list-style-type: none"> • within 1.6 km of the boundaries of the new area structure plan or the existing area structure plan amendment area or an agreed upon notification area between the member municipalities; and • Is the coordination demonstrated through processes, and/or instruments that comply with all components of Policy 3.2.2 of the IGP, if applicable? 	<p>collaboration with Rocky View County during future land use designation and outline plan stages to ensure compatibility with adjoining County areas.</p> <ul style="list-style-type: none"> √ The City of Calgary engaged with Rocky View County as a stakeholder during ASP development and has incorporated additional policies to address interface concerns. • It should be noted that Rocky View County does not support the ASP and has requested that the plan go to Intermunicipal Committee on September 6 for further discussion, prior to proceeding to Council for consideration.
<p>3.2.3 Water, wetlands and stormwater</p> <p>Does the proposed statutory plan or existing statutory plan amendment:</p> <ul style="list-style-type: none"> • Protect source water quality and quantity in accordance with federal and provincial legislation and regulation, promote water conservation, and incorporate effective stormwater management; • Adhere to the provincially identified wetland classification system, and incorporate measures to minimize and mitigate adverse impacts on wetlands; • Address Regional Corridors Policies 3.5.1.1, and 3.5.2.1 of the IGP, if applicable; and • Provide mitigation measures and policies to address identified adverse impacts on existing or planned regional infrastructure, regionally significant corridors, and community services and facilities? 	<p>Overall, yes. The ASP protects source water and incorporates effective stormwater management policies.</p> <ul style="list-style-type: none"> √ Section 7.3 Stormwater Management contains policies for source water protection and the requirement for completion of a Master Drainage Plan to preserve natural features and provide efficient stormwater management. • There are no policies in the plan relating to water conservation. It is suggested that a policy be incorporated to promote water conservation through water re-use or encouragement of Low Impact Development. √ Policy 5.5.2 of the ASP requires that further study of wetlands and seasonal streams in the designated Environmental Open Space Study Area is conducted during land use

	<p>designation and outline plan stages to mitigate development impacts.</p> <ul style="list-style-type: none"> • The proposed main north-south arterial in the ASP mobility concept bisects a wetland identified in Map A1. This may require compensation or wetland replacement fee as per Provincial wetland regulations. <p>√ Regional Corridors are addressed further in 3.5 of this review. Mitigation of impact of the proposed partial interchange on Highway 1 Corridor will be achieved as part of Provincial Approval.</p>
<p>3.3 Flood Prone Areas</p>	
<p>3.3.1</p> <p>Development in the floodways</p> <p>Does the proposed statutory plan or existing statutory plan amendment protect provincially identified floodways from development (excepting uses with no permanent buildings, such as natural areas, outdoor recreation, parks, roads, bridges, utilities, aggregate extraction, and flood mitigation measures) for the following development types:</p> <ul style="list-style-type: none"> • Expansion of settlement areas; • New freestanding communities; • New country residential development areas; and • New employment areas 	<p>Yes, the ASP prevents development in the small components of floodway included in the Plan Area.</p> <p>√ The established Environmental Open Space Study Area in the Land Use Concept contains the floodway area of the Bow River. Designation of Environmental Reserve will take place in land use amendment and outline plan stages.</p>
<p>3.3.2</p> <p>Flood protection in flood fringe areas</p>	<p>N/A - There are no designated flood fringe areas in the Plan Area.</p>
<p>3.4 Development Types</p>	

3.4.1 Intensification and Infill Development	
3.4.1.1 Intensification and Infill in existing settlement areas in cities, towns, and villages	N/A
3.4.1.2 Intensification and Infill of existing settlement areas in hamlets and other unincorporated urban communities within rural municipalities	N/A
3.4.2 Expansion of Settlement Areas	
3.4.2.1 Expansion of settlement areas in a contiguous pattern Does the proposed statutory plan or existing statutory plan amendment apply to lands adjacent to an existing built-up or previously planned settlement area? If so, does the statutory plan or existing statutory plan amendment: <ul style="list-style-type: none"> • Plan for and result in development in a contiguous pattern; • Achieve an efficient use of land; • Provide for a mix of uses; Provide access to a community node(s), planned at a scale appropriate to the development; • Make efficient and cost-effective use of existing and planned infrastructure through agreements with service providers and connect to municipally-owned, or franchised water and wastewater services; and • Provide access to community services and facilities, or make efficient and cost-effective use of existing and planned community services and facilities through applicable municipal agreements with 	The ASP is adjacent to existing residential development in the City of Calgary. The Plan: <ul style="list-style-type: none"> √ Creates contiguous pattern of development, using the City’s Growth Management Overlay √ Achieves efficient use of land √ Achieves higher density/mixed-use, transit supportive development in two Neighbourhood Activity Centres √ Provides an adequate mix of commercial, residential, and community uses √ Encourages a range of housing forms √ Connects to existing City infrastructure √ Connects to existing transportation networks

<p>service providers at the appropriate time, where appropriate?</p>	
<p>3.4.2.2 Expansion of settlement areas with 500 or greater new dwelling units</p> <p>Does the proposed statutory plan or existing statutory plan amendment apply to lands adjacent to an existing built-up or previously planned settlement area, that will result in 500 or greater new dwelling units? If so, does the statutory plan or existing statutory plan amendment:</p> <ul style="list-style-type: none"> • Comply with all components of Policy 3.4.2.1 of the IGP (above); • Provide employment uses, and community services and facilities; • Provide access to community node(s) located in proximity to existing, planned and/or future transit; • Connect to existing, planned and/or future local and/or regional transit and active transportation networks; and • Provide for a range of housing forms and options? 	<p>The ASP proposes 3500 new dwelling units.</p> <ul style="list-style-type: none"> √ Complies with 3.4.2.1 above √ Provides 1300 jobs and access to Community Association Site, Recreation Facility & Library, and Joint-Use Sites √ Provides access to two transit supportive Neighbourhood Activity Centres (community nodes), √ Connects to regional and active transportation networks and transit as identified in Map 4 Transit Network and Section 5.2 Regional Pathways √ Provides range of housing forms and options including mixed use apartment, seniors housing, and low density residential
<p>3.4.2.3 Rationale for expansion of settlement areas that do not meet all components of Policy 3.4.2.1 and 3.4.2.2</p>	<p>N/A</p>
<p>3.4.3 New Freestanding Settlement Areas</p>	
<p>3.4.3.1 New freestanding settlement areas</p>	<p>N/A</p>

<p>3.4.3.2 New freestanding settlement areas with 500 or greater new dwelling units</p>	<p>N/A</p>
<p>3.4.3.3 Rationale for new freestanding settlement areas with 500 or greater new dwelling units that do not meet all components of Policy 3.4.3.2</p>	<p>N/A</p>
<p>3.4.4 Country Residential Development</p>	
<p>3.4.4 Country Residential Development</p>	<p>N/A</p>
<p>3.4.5 Employment Areas</p>	
<p>3.4.5.1 New employment areas</p>	<p>N/A – No significant employment areas proposed beyond small scale employment in Neighbourhood Activity Centres</p>
<p>3.4.5.2 Connections to transit stations and corridors</p>	<p>N/A – Neighbourhood Activity Centres are connected to transit</p>
<p>3.5 Regional Corridors</p>	
<p>3.5.1.1 Mobility Corridors</p> <p>Is the proposed statutory plan or existing statutory plan amendment for lands within 1.6 kilometres of a regionally significant mobility corridor identified on Schedule 3 and/or 4 of the IGP? If so, does the proposed statutory plan or existing statutory plan amendment:</p> <ul style="list-style-type: none"> Identify the mobility corridor on maps; Demonstrate that the proposed land-use, built form and density optimizes the 	<p>ASP contains Highway 1, identified as a regional mobility corridor in the IGP.</p> <ul style="list-style-type: none"> √ Identified on Map 5 Street Network √ Neighbourhood Activity Centres are connected to Highway 1 via a direct arterial √ Proposed partial interchange to limit disruption of Highway 1 corridor movement. ASP states that no land use amendments or outline plans will

<p>proximity and adjacency to regionally significant mobility corridors; and</p> <ul style="list-style-type: none"> • Provide mitigation measures and policies to address identified/potential adverse impacts on regionally significant mobility corridors 	<p>be approved until the partial interchange is approved to the satisfaction of the Province.</p>
<p>3.5.2.1 Transmission Corridors</p> <p>Does the proposed statutory plan or statutory plan amendment area include transmission corridor right-of-ways and/or related infrastructure identified on Schedule 5 and/or 6 of the IGP within the statutory plan area boundary? If so, does the proposed statutory plan or existing statutory plan amendment:</p> <ul style="list-style-type: none"> • Identify the transmission corridor rights-of-way or related infrastructure on maps; • Provide a rationale, servicing agreements, and supporting policies for crossing, accessing and/or connecting to regionally significant transmission corridor rights-of-way or related infrastructure; and • Provide mitigation measures and policies to address identified/potential adverse impacts on regionally significant transmission corridor rights-of-way or related infrastructure 	<p>ASP contains a power transmission line and a proposed intermunicipal wastewater line identified in the IGP.</p> <ul style="list-style-type: none"> √ Identified on Map E1 Regional Corridors and Context √ No mitigation required

Minutes of the meeting of
the Governance Committee of
the Calgary Metropolitan Region Board
held at Mount Royal University
on Friday October 18, 2019

Delegates in Attendance:

Mayor Marshall Chalmers – City of Chestermere
Reeve Larry Spilak – MD of Foothills
Mayor Bill Robertson – Town of Okotoks
Councillor Jamie Kinghorn – Town of High River
Councillor Glenn Koester – Wheatland County

CMRB Administration:

Chris Sheard, Chair
Jordon Copping, Chief Officer
Shelley Armeneau, Office Manager

1. Call to Order

Called to order at 12:40 PM

2. Adoption of Agenda

Moved by Mayor Robertson, **Seconded by** Reeve Spilak, accepted by Chair.

Motion: That the Calgary Metropolitan Region Governance Committee approve the agenda of the meeting, adding #5.1 Appeal/Dispute Resolution Mechanism – Direction from Board for discussion.

Motion carried unanimously.

3. Approval of Minutes

Moved by Reeve Spilak, **Seconded by** Mayor Chalmers, accepted by Chair.

Motion: That the Calgary Metropolitan Region Governance Committee approve the Minutes of the September 20, 2019 meeting noting that item 6 motion was carried, not carried unanimously.

Motion carried unanimously.

4. Q3 Actuals

Moved by Councillor Koester, **Seconded by** Reeve Spilak, accepted by Chair.

Motion: That the Calgary Metropolitan Region Governance Committee receive and recommend for review by the Board the 2019 Q3 Actuals.

Motion carried unanimously.

5. 2020 Budget

The Committee reviewed the budget with the Chief Officer and noted that the estimated actual expenditure number was greater than in the circulated document due to new information from consultants.

Moved by Mayor Robertson, **Seconded by** Councillor Kinghorn, accepted by Chair.

Motion: That the Calgary Metropolitan Region Governance Committee receive and recommend for review by the Board the 2020 Budget.

Motion carried unanimously.

5.1 Appeal/Dispute Resolution Mechanism – Direction from the Board

At the October 18 meeting Board members directed the Governance Committee to agree on a framework to craft another option for an appeal/dispute resolution mechanism. The Governance Committee discussed the direction from the Board and agreed to the following:

- i. The Chief Officer will work with CAO Bernie Morton to refine the proposed appeal/dispute resolution mechanism options, and specifically: practicality of policy, refine judicial process of what the Bylaw applies to, and create flow chart of options.
- ii. Refined options will be circulated to member municipalities for comments and input back to the Governance Committee for inclusion in the next iteration to the Board.

6. Delivery of Board & Committee Agenda Packages

CMRB Administration identified an issue with circulation of large file agenda packages by email. The Committee agreed to Administration exploring options for circulation, specifically a members' only website option.

7. Next Meeting

To be scheduled.

8. Adjourned at 2 PM.

CMRB Chair, Christopher Sheard

Agenda Item	7
Submitted to	Board
Purpose	For Discussion
Subject	CMRB Governance Committee Terms of Reference
Meeting Date	November 22, 2019
That the Board APPROVE the Revised Terms of Reference for the Governance Committee.	
<p>Background</p> <ul style="list-style-type: none"> • The Calgary Metropolitan Region Board Regulation empowers the CMRB to create a governance structure. • At the inaugural meeting of the CMRB on March 22, 2019, the Board approved Terms of Reference (TOR) for the Governance Committee. The original TOR contemplated a committee of three members. • Since inception, interest in participation on the Governance Committee has grown and the TOR need to be updated to reflect a larger committee membership. • The Revised TOR (attached) remove any reference to number of Committee members. 	
<p>Attachments</p> <ul style="list-style-type: none"> • Governance Committee Revised Terms of Reference 	

1. Recommendation

That the Board APPROVE the Governance Committee Revised Terms of Reference.

Agenda Item 7

Revised Terms of Reference Governance Committee November 22, 2019

Authority

The Governance Committee is established by the Board and reports to the Board through the Committee Chair. The Committee Chair shall provide leadership to the Committee members in fulfilling the mandate set out in these Terms of Reference.

Purpose

The purpose of the Governance Committee (“the Committee”) is to provide a focus on governance that will enhance the Board’s performance.

1. Responsibilities of the Governance Committee

The Governance Committee shall oversee, and provide advice and direction, to the Board in three primary areas:

- i. Board governance and operations
- ii. Finance
- iii. Human Resources.

As well, the Committee will be responsible for such other matters as may be assigned to them from time to time. The Committee Chair shall work with the Chief Officer and the Board Chair in planning Committee meetings and agendas.

2. Governance Duties

With assistance from the Board Chair and the Chief Officer, the Committee shall review and recommend to the Board:

- a. Policies and procedures by which the Board operates
- b. Roles and responsibilities for the Board Chair and Chief Officer
- c. The Terms of Reference for all standing committees.

3. Finance Duties

With assistance from the Board Chair and the Chief Officer, the Committee shall monitor the financial affairs of the Board, including the preparation of financial statements and annual audits, and shall make such reports and recommendations to the Board as it considers appropriate.

4. Human Resources

With assistance from the Board Chair and the Chief Officer, the Committee will monitor and provide direction regarding the Board's human resources policies and practices. In the event of a need to recruit a Chief Officer, the Committee will oversee the recruitment process, and will make a recommendation to the Board for appointment.

5. Committee Membership

The Committee will be comprised of not less than 3 Board members selected by the Board. The Chair will be an "ex officio" member of the Committee.

6. Governance

Voting Structure: Decisions of the Committee will be determined by a simple majority with each member holding a single vote.

Decisions: Decisions of the Committee will form the basis for recommendations to the Board, which will make the final decision on all matters forwarded by the Governance Committee.

Agenda Item	8
Submitted to	Board
Purpose	For Information
Subject	CMRB 2019 Q3 Actuals
Meeting Date	November 22, 2019
That the Board RECEIVE for information the 2019 Q3 actuals	
<p>Background</p> <ul style="list-style-type: none"> The CMRB has been funded by the Government of Alberta through the Alberta Community Partnership grant program. 	
<p>Attachments</p> <ul style="list-style-type: none"> Q3 Actuals & YTD 	

1. Introduction

CMRB Administration compiled the Q3 Actuals for review by the Governance Committee on October 18, 2019. The Governance Committee received and recommended for review by the Board the 2019 Q3 actuals.

2. Recommendation

That the Board receive for information the 2019 Q3 Actuals.

	2019 Budget	2019 Q3 Budget	2019 Q3 Actuals	Q3 Variance	YTD Budget	YTD Actual	YTD Variance
REVENUE							
GoA Grant	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$2,000,000.00	\$2,000,000.00	\$0.00
Interest on GIC	\$0.00	\$0.00	\$42,286.57	\$42,286.57	\$0.00	\$42,800.61	\$42,800.61
TOTAL Revenue	\$2,000,000.00	\$0.00	\$42,286.57	\$42,286.57	\$2,000,000.00	\$2,042,800.61	\$42,800.61
EXPENDITURES							
CAPITAL EXPENSES							
Computers & Hardware	\$6,000.00	\$1,500.00	\$0.00	\$1,500.00	\$4,500.00	\$0.00	\$4,500.00
Office Furniture	\$6,000.00	\$1,500.00	\$0.00	\$1,500.00	\$4,500.00	\$0.00	\$4,500.00
Phone/Internet Hardware	\$3,000.00	\$750.00	\$0.00	\$750.00	\$2,250.00	\$0.00	\$2,250.00
TOTAL CAPITAL EXPENSES	\$15,000.00	\$3,750.00	\$0.00	\$3,750.00	\$11,250.00	\$0.00	\$11,250.00
OPERATING EXPENSES							
STAFFING COSTS							
Salary	\$636,000.00	\$159,000.00	\$157,829.99	\$1,170.01	\$477,000.00	\$488,038.88	-\$11,038.88
Benefits	\$117,000.00	\$29,250.00	\$27,243.83	\$2,006.17	\$87,750.00	\$84,034.85	\$3,715.15
Board Chair	\$140,000.00	\$35,000.00	\$11,080.00	\$23,920.00	\$105,000.00	\$46,340.00	\$58,660.00
TOTAL STAFFING COSTS	\$893,000.00	\$223,250.00	\$196,153.82	\$27,096.18	\$669,750.00	\$618,413.73	\$51,336.27
OFFICE LEASE	\$85,980.00	\$21,495.00	\$18,604.66	\$2,890.34	\$64,485.00	\$48,463.78	\$16,021.22
OFFICE OPERATING COST							
General Operating Costs	\$35,640.00	\$8,910.00	\$6,258.49	\$2,651.51	\$26,730.00	\$24,446.53	\$2,283.47
Professional Fees	\$30,000.00	\$7,500.00	\$4,409.55	\$3,090.45	\$22,500.00	\$25,460.51	-\$2,960.51
TOTAL OFFICE OPERATION COSTS	\$65,640.00	\$16,410.00	\$10,668.04	\$5,741.96	\$49,230.00	\$49,907.04	-\$677.04
TRAVEL COSTS	\$55,000.00	\$13,750.00	\$2,103.50	\$11,646.50	\$41,250.00	\$6,375.93	\$34,874.07
MEETING COSTS							
Meeting Venue/Catering	\$55,800.00	\$13,950.00	\$8,325.35	\$5,624.65	\$41,850.00	\$22,999.98	\$18,850.02
Per Diem	\$120,000.00	\$30,000.00	\$13,884.45	\$16,115.55	\$90,000.00	\$24,356.38	\$65,643.62
TOTAL MEETING COSTS	\$175,800.00	\$43,950.00	\$22,209.80	\$21,740.20	\$131,850.00	\$47,356.36	\$84,493.64
CONSULTANT COSTS							
Growth/ Servicing Plan	\$1,200,000.00	\$300,000.00	\$232,083.25	\$67,916.75	\$900,000.00	\$415,906.97	\$484,093.03
REF Consultants	\$288,000.00	\$72,000.00	\$32,856.95	\$39,143.05	\$216,000.00	\$32,856.95	\$183,143.05
TOTAL CONSULTANT COSTS	\$1,488,000.00	\$372,000.00	\$264,940.20	\$107,059.80	\$1,116,000.00	\$448,763.92	\$667,236.08
CONTINGENCY	\$36,000.00	\$9,000.00	\$0.00	\$9,000.00	\$27,000.00	\$0.00	\$27,000.00
TOTAL EXPENDITURE	\$2,814,420.00	\$703,605.00	\$514,680.02	\$276,991.09	\$2,110,815.00	\$1,219,280.76	\$891,534.24

NOTES 1 Unbudgeted interest earnings from GIC investments

2 CMRB contributions to CPP and EI were underbudgeted by ~\$7000.00 for the year

3 Professional fees were high in Q1 but this is anticipated to be on budget for the year

4 Payments to consultants are increasing through the year as the Growth Plan Board Agenda Projects and 22,2019 projects are finalized.

Agenda Item 8 Attachment

Agenda Item	9
Submitted to	Board
Purpose	For Review
Subject	CMRB 2020 Budget
Meeting Date	November 22, 2019
That the Board review and provide direction to Administration on the proposed CMRB 2020 Budget.	
<p>Background</p> <ul style="list-style-type: none"> • The CMRB is funded by the Government of Alberta through the Alberta Community Partnership (ACP) grant program. • The Government of Alberta's Budget 2019/2020 reduced funding to the CMRB as per the below chart. • The gift of \$1,800,000.00 from the Calgary Regional Partnership provides a reserve against the reduced funding in upcoming years. 	
<p>Attachments</p> <ul style="list-style-type: none"> • Budget 2020 	

1. Funding Summary

Funded Activity	Grant Total
2017/18 CMRB Start-up and Core Administration	\$2,070,000
	(\$1,500,000 + \$570,000 (CRP Surplus))
2019/20 CMRB Core Administration Costs	\$2,000,000
2020/21 CMRB Core Administration Costs	\$1,750,000
Total CMRB Core Administration Approved Funding	\$5,820,000
Future Estimated Funding	
2021/22 CMRB Core Administration Costs	\$1,500,000
	Estimate - subject to Minister Approval
2022/23 CMRB Core Administration Costs	\$1,000,000
	Estimate – subject to Minister Approval
2023/24 CMRB Core Administration Costs	\$1,000,000
	Estimate – subject to Minister Approval

2. Recommendation

That the Board review and provide direction to Administration on the CMRB 2020 Budget.

	2019 Budget	2020 Budget
REVENUE		
GoA Grant	\$2,000,000.00	\$1,750,000.00
Interest on GIC	\$0.00	\$40,000.00
Withdrawal from Reserves	\$0.00	\$900,000.00
TOTAL REVENUE	\$2,000,000.00	\$2,690,000.00
EXPENDITURES		
CAPITAL EXPENSES		
Computers & Hardware	\$6,000.00	\$6,000.00
Office Furniture	\$6,000.00	\$6,000.00
Phone/Internet Hardware	\$3,000.00	\$3,000.00
TOTAL CAPITAL EXPENSES	\$15,000.00	\$15,000.00
OPERATING EXPENSES		
STAFFING COSTS		
Salary	\$636,000.00	\$645,000.00
Health	\$36,000.00	\$36,000.00
Retirement	\$78,000.00	\$78,000.00
Phone	\$3,000.00	\$3,000.00
Board Chair	\$140,000.00	\$140,000.00
TOTAL STAFFING COSTS	\$893,000.00	\$902,000.00
OFFICE LEASE	\$85,980.00	\$80,000.00
OFFICE OPERATING COST		
General Operating Costs	\$35,640.00	\$36,000.00
Professional Fees	\$30,000.00	\$30,000.00
TOTAL OFFICE OPERATION COSTS	\$65,640.00	\$66,000.00
TRAVEL COSTS	\$55,000.00	\$45,000.00
MEETING COSTS		
Meeting Venue/Catering	\$55,800.00	\$55,000.00
Per Diem	\$120,000.00	\$75,000.00
TOTAL MEETING COSTS	\$175,800.00	\$130,000.00
CONSULTANT COSTS		
Growth/ Servicing Plan	\$1,200,000.00	\$1,200,000.00
REF Consultants	\$288,000.00	\$144,000.00
TOTAL CONSULTANT COSTS	\$1,488,000.00	\$1,344,000.00
CONTINGENCY	\$36,000.00	\$108,000.00
TOTAL EXPENDITURE	\$2,814,420.00	\$2,690,000.00
Estimated Actual Expenditure	\$ 2,100,000.00 *	

*This figure was updated since the Governance Committee documents were circulated based on recent data

Calgary Metropolitan Region Board

BALANCE SHEET

As of September 30, 2019

	TOTAL
Assets	
Current Assets	
Cash and Cash Equivalent	
Chequing	725,937.05
GIC	3,225,125.00
Total Cash and Cash Equivalent	\$3,951,062.05
GIC Interest Receivable	0.00
GST paid on purchases	11,356.83
Prepaid Deposit	6,109.41
Prepaid expenses	0.00
Total Current Assets	\$3,968,528.29
Non-current Assets	
Property, plant and equipment	
Accumulated Amortization - Computer	-4,543.00
Accumulated Amortization - Furn & Fix	-371.90
Accumulated Amortization - Phone System	-1,057.00
Computer Equipment	13,628.99
Furniture and Fixtures	3,719.00
Phone System	5,285.00
Total Property, plant and equipment	\$16,661.09
Total Non Current Assets	\$16,661.09
Total Assets	\$3,985,189.38

Agenda Item 9 Attachment

Agenda Item	10
Submitted to	Board
Purpose	For Decision
Subject	Regional Employment Analysis
Meeting Date	November 22, 2019
That the Board approve the status quo regional employment projections for the Calgary Metropolitan Region	
<p>Summary</p> <ul style="list-style-type: none"> • The purpose of the Regional Employment Analysis is to develop employment projections, build an understanding of regional employment, and provide discussion on what defines regional employment areas. • Through the process, there were five workshops with TAG, one-on-one discussions with municipal representatives and experts, and several rounds of feedback on draft materials. • The status quo regional employment projections were recommended to the Board for approval by the Land Use Committee on November 7th. These projections are an important input into the HDR Calthorpe planning process. • Further work on the Regional Employment Analysis will include finalizing suggested criteria that would be used to support defining regionally significant employment areas. These would be used as an input into HDR Calthorpe’s planning process. • The criteria were reviewed and discussed by the Land Use Committee at the November 7th meeting. These will be finalized in consideration of LUC and TAG input and will be brought back to Committee. • Mapping of regionally significant employment areas was removed from the scope of this project. Further planning around regionally significant employment will be completed as part of the HDR Calthorpe scope of work. 	
Attachment: “Regional Employment Analysis – Status Quo Projections”- Applications Management Consulting	

1. Purpose of Study

The purpose of the Regional Employment Analysis is to develop employment projections, build an understanding of regional employment, and provide discussion on what defines regional employment areas. The results of this analysis will form a

background technical report for consideration in the development of the scenarios to be created by HDR Calthorpe as part of their planning process. The analysis will:

- Provide a “status quo” (business as usual) regional employment forecast
- Develop criteria for defining regionally significant employment areas for the consideration of the HDR Calthorpe team (non-binding recommendations).

As part of the analysis, Applications Management also completed some alternative scenario forecasts to identify ways that changes in employment might affect employment areas.

2. Relationship to Growth Plan

The status quo employment projection is a vital part of the data needed by HDR Calthorpe. The regional employment projection will be incorporated into HDR Calthorpe’s status quo (business as usual) scenario. This status quo projection was thoroughly reviewed as part of this background study and is consistent with the expectations of municipal administrations. The status quo employment projections were recommended to the Board for approval by the Land Use Committee on November 7th, 2019.

3. Next Steps

Once approved by the Board, the status quo regional employment projections will be used an input into the HDR Calthorpe planning process.

CMRB Administration will continue to collaborate with the project consultant, TAG and subject matter experts to finalize the Regional Employment Analysis. These outcomes will be presented to Land Use Committee for its recommendation, with a target date of December 2019.

4. Recommendation

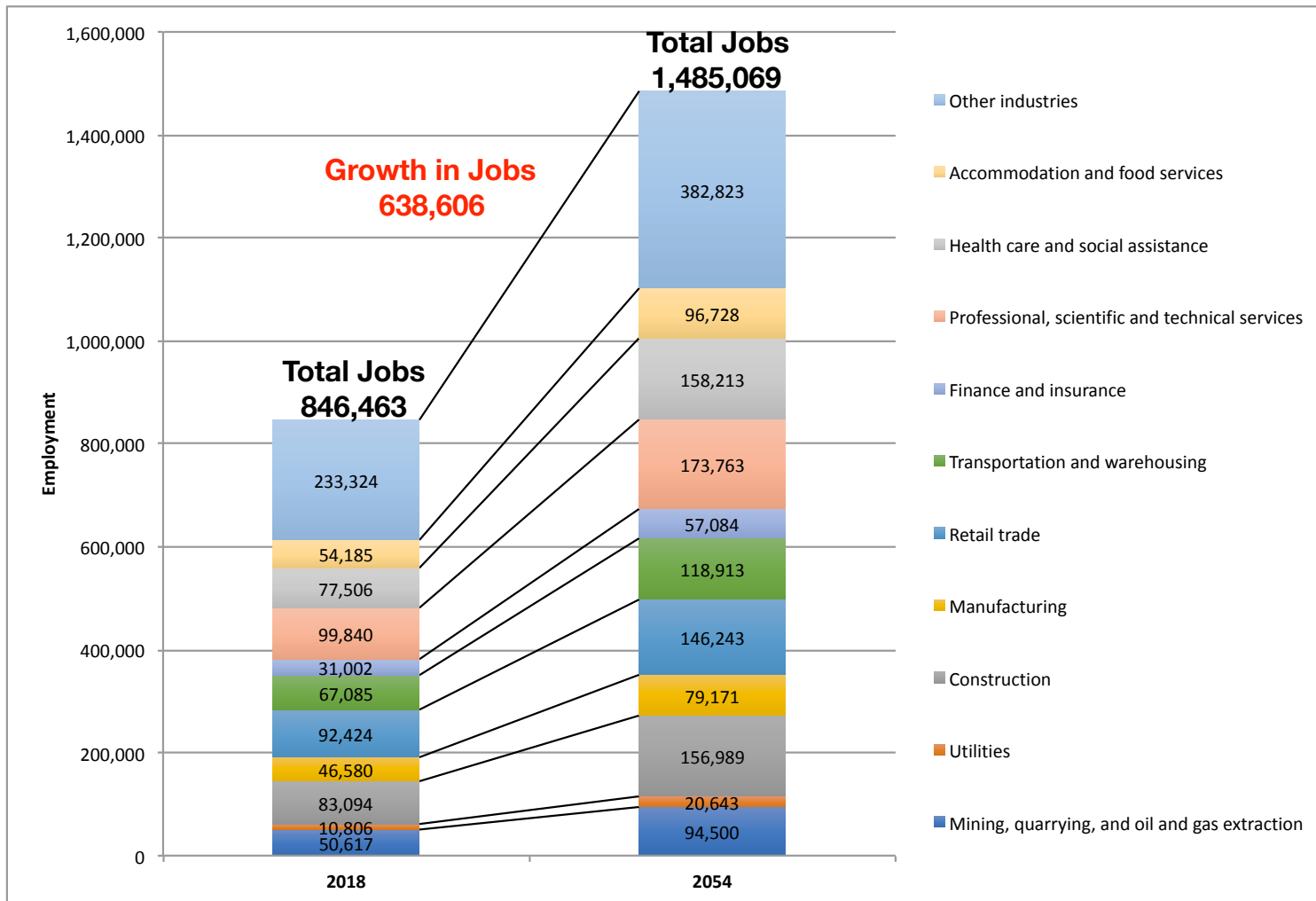
That the Board approve the status quo regional employment projections for the Calgary Metropolitan Region.

Status Quo Scenario

- Projects a continuation of existing pattern of economic growth and structure of existing regional economy.
- Population increases from 1,589,218 in 2018 to 2,647,657 by 2054, an increase of 1,058,438 representing a 1.4% average annual growth rate.
- Employment is projected to increase from 846,463 to 1,485,069 across the same period, an increase of 638,606 representing an average annual growth rate of 1.6%.

Agenda Item 10 Attachment

Status Quo Scenario



Agenda Item	11
Submitted to	Board
Purpose	For Decision
Subject	Natural and Managed Capacity of Regional Water Supply in the Calgary Metropolitan Region
Meeting Date	November 22, 2019

That the Board approve the Natural and Managed Capacity of Regional Water Supply in the Calgary Metropolitan Region study as input for the Growth Plan consultant

Summary

- On March 7, 2019, the Intermunicipal Servicing Committee granted CMRB Administration the authorization to complete a series of studies in support of the Water Roadmap, including Complexity C: Natural and Managed Water Capacity in the CMR study ("Complexity C"). To add additional clarity to the scope and purpose of the study, the report is entitled: Natural and Managed Capacity of Regional Water Supply in the Calgary Metropolitan Region
- CMRB Administration collaborated with the Water Table Technical Advisory Group ("Water Table"), CMRB Subject Matter Expert, and municipal experts to develop a scope of work for the Complexity C Study.
- The RFP was posted on Alberta Purchasing Connection on May 13th with a closing date of June 11th. WaterSMART Solutions Ltd. ("WaterSMART") was selected as the preferred proponent. The project was awarded on June 26, 2019.
- WaterSMART kicked off the work with a presentation to the ISC on July 4, 2019 followed by a presentation to the Water Table. WaterSMART provided a mid-study update presentation and discussions with Water Table. A presentation of study findings was discussed at a Water Table meeting on August 22, 2019. The draft report was subsequently reviewed by the Water Table and Alberta Environment and Parks (AEP) for comment. An additional meeting of the Water Table with WaterSMART to discuss and address comments was organized. A final draft of the report was circulated for review by the municipalities and is presented here.
- The purpose of the study was to summarize a range of existing studies regarding water supply-related constraints and opportunities in the CMR for consideration by the Growth Plan consultant in preparation of the Growth and Servicing Plan.
- WaterSMART presented ISC a summary of findings on November 7, 2019. ISC recommended to the Board approval of the *Natural and Managed Capacity of*

Regional Water Supply in the Calgary Metropolitan Region study as input for the Growth Plan consultant on November 7, 2019.

- The final report and annotated bibliography are attached under separate email due to the large file size. The second deliverable for this study is the annotated bibliography of studies reviewed in preparation of this report and summarizes key findings.

Attachments

- Natural and Managed Capacity of Regional Water Supply in the Calgary Metropolitan Region, WaterSMART
- Annotated bibliography, WaterSMART

1. Key Messages from This Study

The Calgary Metropolitan Region Board (CMRB) has a mandate to complete a Growth Plan and Servicing Plan for the Calgary Metropolitan Region (CMR) by December 2020. As part of the Servicing Plan development, the CMRB is undertaking inter-related studies of five Complexities that were identified as part of the CMRB Water Roadmap. The complexities focus on existing water and wastewater servicing, demand management, natural and managed capacity of supply, regulation and policy, and water quality and a background report on stormwater. Natural and managed capacity of water supply is the focus of this complexity study, which documents a summary of learnings from existing literature to provide relevant guidance to the CMRB Growth Plan consultant on the topic of natural and managed capacity of regional water supply.

Precipitation, in the form of runoff from snowmelt and rainfall, is the main source of natural water supply to the CMR, mostly coming from the Rocky Mountain headwaters. Peak runoff from snowmelt typically occurs in May and June, while rainfall can contribute to flow from June to August. Glacier meltwater is a key source of water in the late summer when snow and rainfall do not provide as much source water volume.

Projected changes to precipitation as a result of climate change will impact the natural water supply of the region because precipitation is the major source of water supply. There are two significant ways in which precipitation is projected to change in the CMR and headwaters region:

1. Timing throughout the year: climate projections for future conditions (roughly 2040s) indicate a trend toward more precipitation during the winter and less precipitation during the summer. Warmer air temperatures are projected to result in an earlier spring snowmelt.
2. Variability (quantitative difference between high and low flows): greater variability is projected between months, with higher possibilities of extremely high or low flows in any given year.

In general, climate change is likely to increase the frequency of low flow periods in all sub-basins in the CMR. Historical water supply studies also show long periods of low flows as part of natural variability. This indicates that regardless of climate change projections, water management strategies need to be designed around significant, multi-year droughts.

Management of water supply in Alberta is enacted through legislation, licensing, infrastructure, and planning/operations coordination. In 2007, the Bow and Oldman sub-basins were closed to new applications and water conservation objectives were set for the mainstem and their tributaries. Many reservoirs have been constructed within and upstream of the CMR to manage supply, mitigate floods, produce hydropower, or some combination. Management options that may be available to the CMR as identified in previous work are described in Section 4.5 and include both structural and non-structural options.

Section 5.1 of the report provides a description of high-level key considerations for the CMRB Growth Plan consultant. These are the dominant themes that relate to future water supply management. They are broad, generalized statements for consideration in the planning process and include:

- **Water supply variability:** Higher degrees of variability in water supply may be expected in the future. The river systems supplying water to the CMR have experienced significant natural variability in the past and in addition, climate change may introduce some level of variability. Planning for greater variability than has been experienced in recent decades is a pragmatic approach; in particular, multi-year droughts are likely.
- **Coordination among users:** Various kinds of storage and synchronizing upstream releases with downstream purposes offer opportunities. These could be in the form of upstream-downstream water management agreements and changing reservoir operations, or basin-wide shortage sharing and reallocation frameworks.
- **Planning for increasing efficiency:** Enabling growth while maintaining the same level of water consumption is possible through efficiency. Rates for water use must reflect the full cost of service and promote conservation.
- **Risk and vulnerability:** Water infrastructure must be designed to withstand extreme weather events. Extreme weather events in the headwaters may impact water availability or quality.
- **Low flows and wastewater:** Low river flows may impact municipal services by having inadequate volume for wastewater dilution.
- **Work with existing initiatives:** Many local and regional water management initiatives are underway already. New water management initiatives should tie-in with existing and under-development efforts to benefit the region as a whole.
- **Watershed changes are linked to water supply:** The important role that the whole watershed and tributaries play in contributing water quantity and water quality to the mainstem is often overlooked. Opportunities may exist in

coordinating management efforts from a systems approach regarding land use changes and the stewardship of smaller tributaries. Similarly, increasing water withdrawals from or wastewater inputs to sub-basins may have unforeseen impacts to the mainstem.

- **Diversity of storage and servicing:** A range of types of water storage provides better resilience and allows for more fine-tuned supply management, both of which are highly valuable in a variable and high-demand system like the CMR.

All sub-basins in the CMR are expected to experience some degree of water quantity constraints in the next 30 years due to projected changes in the natural and managed parts of the system. Generally, the headwaters have the lowest relative potential to experience constraints over the next 30 years with constraints increasing progressively downstream. Headwaters generally have fewer constraints as they have lower population levels, less development, and a proportionally greater volume of water to draw from. While most CMR municipalities fall within the highest level of constraint, it should be noted that these numbers are relative to other sub-basins in the study area and not absolute indicators of impending shortages.

Addressing the various water supply constraints will require action and cooperation by numerous stakeholders in the region. Specific opportunities for consideration by the CMRB as they proceed with regional planning were extracted from the literature throughout the preparation of the report, and are summarized below and in the final section of the report:

- Establish agreed-upon standards and timeframes for water-related municipal actions
- Develop an overall water supply strategy
- Work with a collaborative working group to identify specific opportunities for coordination of upstream releases and downstream uses, potentially identifying storage projects
- Formalize water sharing agreements
- Connect to academic researchers directly to promote applied research
- Work with AEP through the Land-use Framework to enable headwater protection and integrated land use management

A number of data gaps were identified during the study and are acknowledged in Section 6.2 of the report. As identified in the report, this topic is highly complex with multiple variables and additional study would benefit from input from other stakeholders.

Climate change impacts create uncertainty in water supply. Research suggests we should expect more snowmelt earlier in the year, hotter and drier summers, and higher intensity rainfalls.

2. Administration Request

That the Board approve the Natural and Managed Capacity of Regional Water Supply in the Calgary Metropolitan Region study as input for the Growth Plan consultant

Agenda Item	12
Submitted to	Board
Purpose	For Decision
Subject	CMR Existing Water and Wastewater Servicing and Regional Potential
Meeting Date	November 22, 2019

That the Board approve the Calgary Metropolitan Region Existing Water and Wastewater Servicing and Regional Potential study as input for the Growth Plan consultant.

Summary

- On March 7, 2019, the Intermunicipal Servicing Committee granted CMRB Administration the authorization to complete a series of studies in support of the Water Roadmap, including Complexity A: CMR Existing Water and Wastewater Servicing and Regional Potential (“Complexity A”).
- CMRB Administration collaborated with the Water Table Technical Advisory Group (“Water Table”), CMRB Subject Matter Expert, and municipal experts to develop a scope of work for the Complexity A Study.
- The RFP was posted on Alberta Purchasing Connection on April 26th with a closing date of May 24th. Urban Systems Ltd. (“Urban Systems”) was selected as the preferred proponent. The project was awarded on June 10, 2019.
- Urban Systems Ltd. kicked off the work with a presentation to the ISC on July 4, 2019 where ISC directed CMRB administration to rename the study. The study was renamed and accepted at a subsequent ISC meeting. A kickoff presentation was made to the Water Table. Urban Systems Ltd. provided a mid-study update presentation and discussions with Water Table. A presentation of study findings was discussed at a Water Table meeting on September 23, 2019. The draft report was subsequently reviewed by the Water Table for comment. Comments received from the municipalities were addressed and form the final draft report presented here.
- The purpose of the study was to inform the CMRB Growth Plan consultant of a preliminary summary of the current key constraints and opportunities related to water servicing infrastructure in the CMR.
- Urban Systems Ltd. presented ISC a summary of findings on November 7, 2019. ISC recommended to the Board approval of the *Calgary Metropolitan Region Existing Water and Wastewater Servicing and Regional Potential study as input for the Growth Plan consultant* on November 7, 2019.

- The final report will be sent in a separate email due to the large file size.

Attachments

- CMR Existing Water and Wastewater Servicing and Regional Potential, Urban Systems Ltd.

1. Key Messages from This Study

The Calgary Metropolitan Region Board (CMRB) has a mandate to complete a Growth Plan and Servicing Plan for the Calgary Metropolitan Region (CMR) by December 2020. As part of the Servicing Plan development, the CMRB is undertaking inter-related studies of five Complexities that were identified as part of the CMRB Water Roadmap. The complexities focus on existing water and wastewater servicing, demand management, natural and managed capacity of supply, regulation and policy, and water quality. In addition, a background report on stormwater is currently underway.

The Calgary Metropolitan Region Board (CMRB) administration commissioned this study to provide information for the Intermunicipal Servicing Committee (ISC), the Board and the Growth Plan consultant to consider in their development of the Growth and Servicing Plan due to the Minister by December 2020. The scope of this study is to identify and summarize technical capacity information provided by the members regarding existing water supply, wastewater collection, and treatment infrastructure capacities within the region. This study provides a baseline fact set of the current infrastructure capacities relative to current and projected demands (expressed in population equivalents) from the areas currently served by these water and wastewater systems.

Water and wastewater infrastructure capacity (including location, size and material type) was compiled to prepare an inventory of existing servicing infrastructure within the Calgary Metropolitan Region (CMR) that may have potential regional significance. Infrastructure capacity shown in this report is based on information provided by the municipalities and/or included in existing technical studies. The capacities noted herein rely on current or best available information provided by the member municipalities regarding their infrastructure in order to provide a comparison of the design or existing system capacity with the current and projected demand needs. Where capacity information was not provided or available in provided reports, assumptions have been made and are identified accordingly in the report.

The following three timeframes are used in this study to compare current infrastructure capacity to service area demands:

- Existing (2019) Demand;
- 20-year (2039) Demand; and
- 2076/Buildout Demand.

2076 was used as a “buildout” timeframe as many of the long-term servicing studies and master plans provided by the members considered growth to 2060 or 2076 for their service areas, so this ensures consistency with population projections between this study and others.

Population projections used for urban municipalities were provided in the report titled “Population Projections for the Calgary Metropolitan Regional Board” (Rennie Intelligence, 2018), which was adopted by the CMRB and provided for use in this study. For rural municipalities, long-term demand projections are not provided on an area by area basis. In order to project long-term demands for the rural service areas, we have used projected demands for the buildout of the approved Area Structure Plans for the existing service areas.

It is important to note that the CMRB population data is not used universally by each individual member municipality for their own long-range planning. Therefore, any conclusions regarding projected demands in this report may differ from that of the members. This study is intended to highlight the areas where more detailed analysis should be undertaken in areas where members determine it is beneficial to collaborate regionally.

The infrastructure analyzed for this study includes water and wastewater treatment plants, water and wastewater corridors (pipelines) and licencing. Infrastructure capacity was provided by the municipalities. Where capacity information was not available, assumptions have been made and are identified accordingly in the report. Factors not considered include Master Service Agreement limitations, pumping or lift station capacity, storage capacity, age and condition of infrastructure and operating strategies used by Calgary Metropolitan Region (CMR) members to achieve the service level commitments within their communities. The work herein relies on current or best available information provided by the member municipalities regarding their infrastructure in order to provide a comparison of the design or existing system capacity with the current and projected regional needs.

Water licences are analyzed only for their total annual diversion volume, with the exception of the City of Calgary which considers instantaneous withdrawal rates. This analysis does not review other limitations of the licences such as instantaneous withdrawal rates, water conservation objectives, in-stream flow objectives, or licence priority. More work is therefore needed to understand the overall physical water supply and evaluate how the region will manage licences with all of their complexities and restrictions over the next 60-year timeframe.

In many more than one municipality in the CMR, water licence represents the critical constraint to delivering water servicing in the future. From this baseline fact set, more detailed analysis can be completed on the areas of opportunity to address other restrictions and complexities regarding regional licencing.

For each of the three timeframes, infrastructure capacity surplus or deficits are visually represented qualitatively in the form of heat maps to allow for visualization of the state of capacity of the region's infrastructure for the non-technical reader.

Planning for regional servicing depends on many factors over and above the information provided in this report. This report is not a servicing plan, nor indicates any servicing options, which would require rigorous technical study of each of the systems, their demands, technical and operational limitations among many other considerations. The scope of this study is to provide a visual representation of baseline facts for the CMR regarding the existing regional service infrastructure. Therefore, this report should not be utilized to make servicing conclusions. Rather, it forms one piece of a greater discussion regarding regional collaboration, growth areas, sustainable resource management, climate variability, drought and flood resiliency, among others.

This study qualitatively illustrates the current state of regional infrastructure capacity with a view to identifying opportunities for regional collaboration regarding sustainable growth management, as is the mandate of the CMRB. It is acknowledged that actual service capacity depends on a variety of factors that were beyond the scope and schedule of this preliminary assessment.

2. Administration Request

That the Board approve the Calgary Metropolitan Region Existing Water and Wastewater Servicing and Regional Potential study as input for the Growth Plan consultant.

Agenda Item	14
Submitted to	Board
Purpose	For Information
Subject	Land Use Committee & Intermunicipal Servicing Committee Updates
Meeting Date	November 22, 2019
That the Board receive for information an update on the work of the Land Use Committee and the Intermunicipal Servicing Committee	
<p>Summary</p> <p>The Land Use Committee and the Servicing Committee are currently focused on the following areas:</p> <ul style="list-style-type: none"> • HDR Calthorpe Consultant Planning Process • Regional Employment Analysis • Land Supply • Agriculture Subcommittee • Transit Subcommittee • Environmentally Sensitive Areas Background Study • Transportation Study • CMRB Water Table • Recreation Framework • Policing Subcommittee 	

1. HDR Calthorpe Planning Process

- HDR Calthorpe kicked off their planning process with Workshop #1 to be held on October 3rd.
- HDR will be providing CMRB Administration with an account of any data gaps that need to be filled as part of their process.
- A meeting with TAG was held on November 15th to discuss the role of the TAGs in HDR Calthorpe's planning process.

2. Regional Employment Analysis

- Status quo regional employment projections will be incorporated into the HDR Calthorpe planning process once approved by the Board.
- Applications Management is working to finalize other materials related to the Regional Employment Analysis, including the appropriate criteria to define regionally significant employment areas. These will be finalized in collaboration with the Land Use TAG and brought to LUC for its recommendation, with a target date of the December meeting.

3. Land Supply Analysis

- Identifying land supply for commercial, industrial and residential purposes is a requirement of the *Calgary Metropolitan Region Board Regulation* and will be a useful dataset to support many of the studies the CMRB is undertaking. It is a key input into the HDR Calthorpe planning model.
- The analysis is nearing completion and its outputs are currently being reviewed by representatives of member municipalities.

4. Agriculture Subcommittee

- The Subcommittee has reviewed a preliminary report and is in the process of drafting final conclusions and draft policy recommendations.
- Draft recommendations will be brought to LUC for its input, with a target date of the December LUC meeting.

5. Transit Subcommittee

- Interim findings as approved by the ISC are being used to support the Growth Plan planning process, including the need to focus on key themes of “integration,” “connection” and “efficiency” in transit.
- Municipal transit specialists are being incorporated into the HDR Calthorpe planning process as approved by ISC.
- Reporting of the Subcommittee findings are ongoing. The draft will be reviewed by the Transit Subcommittee prior to ISC for approval.

6. Environmentally Sensitive Areas Study

- O2 Planning and Design is working to finalize other materials, including potential policy opportunities. These were reviewed and discussed by LUC at the November 7th meeting. One further in-person workshop was held with TAG on November 15th.
- These will be finalized and brought to LUC for its recommendation, with a target date of the December LUC meeting.

7. South and East Calgary Regional Transportation Study (S&ECRTS)

- The S&ECRTS was initiated by the CMRB in October 2018. The successful consultant, ISL Engineering and Land Services, began in their work in January 2019.
- The S&ECRTS will build upon the study process, analyses, evaluation and results of the NCRS. The expected outcome, at the end of 2019, is a transportation

model for the 2028 and 2039 planning horizons that can be used as base model to develop long term transportation models for the Calgary metropolitan region.

- The project is on schedule and on budget at this time. Modelling and testing scenarios are partially complete. The 2039 network was finalized. A few additional scenarios are being tested before finalizing the 2028 network.
- The combination of the North and South&East model results for 2028 and 2039 are a key input into the HDR Calthorpe planning model. CMRB administration are working to deliver these to Calthorpe ahead of project evaluation stage of the S&ECRTS.

8. CMRB Water Table

- The Water Roadmap continues to be revised to include an approach to integrated policy direction on development in flood-prone areas. A workshop to kick off the work on flood-prone areas occurred on October 10, 2019 in High River. Summary report preparation is ongoing.
- The Water Table has been working through scopes of work A through E of the Water Roadmap Complexities and the Stage 1 Report.
 - Stage 1 Report Executive Summary was approved by ISC in a joint meeting of the land use committee (LUC) and ISC on June 6, 2019
 - Complexity A – “Calgary Metropolitan Region Existing Water and Wastewater Servicing and Regional Potential”. The scope of work was developed with input from Water Table. The RFP closed May 24, 2019. Urban Systems was awarded the contract on June 10, 2019. At the direction of the ISC on July 4, 2019, the study has been renamed to ‘Calgary Metropolitan Region Existing Water and Wastewater Servicing and Regional Potential’. ISC recommended the report for approval by the Board on November 7, 2019. The report is presented in another agenda item.
 - Complexity B – Demand Management. ISC recommended the report for approval by the Board on September 5, 2019. The Board approved the study on October 18, 2019. The study has been shared with the Growth Plan consultant.
 - Complexity C – Managed and Natural Capacity. CMRB Admin, Water Table, and AEP developed the scope for the RFP. The RFP closed on June 11, 2019. WatertSMART was awarded the contract on June 26, 2019. ISC recommended the report for approval by the Board on November 7, 2019. The report is presented in another agenda item.

- Complexity D – Regulation, Approvals and Policy. CMRB Admin hosted a workshop with many ISC members and municipality administrations in attendance, and others on June 27th, 2019 at Cochrane Ranchehouse. The summary report has been circulated and next steps with AEP are being discussed. The Advocacy Committee is also working on materials for advocacy with the Province related to water.
- Complexity E – Water Quality. Land Use TAG, CMRB admin and Water Table are working jointly on land use planning for water quality in the CMRB through the Environmentally Sensitive Areas Study. An update is provided in point 6, above.
- A background report for consideration by the Growth Planning Consultant is currently underway for Stormwater by the Water Table. An update was provided to ISC on November 7, 2019. This work is ongoing.
- CMRB administration continue to participate at meetings of AEP projects including Bow River Phosphorus Management Plan Implementation Committee and the Bow Basin Water Management Options Conceptual Assessment.

9. Recreation Framework

- The workshop with Recreation Servicing TAG to define regional recreation was held on June 7, 2019. The consultant has prepared a summary report of the workshop. Recreation Servicing TAG has reviewed the report. A meeting of the TAG was held on October 29 to discuss the feedback. Next steps are being determined.

10. Policing Subcommittee

At the June 6, 2019 joint Committee meeting the following motion was unanimously passed:

That the CMRB form a voluntary subcommittee of the Intermunicipal Servicing Committee to examine models of delivering policing services in the Calgary Metropolitan Region. Further, that CMRB Administration provide coordination services to strike the subcommittee and that this work be separate from the delivery of the Servicing Plan, outlined in the Calgary Metropolitan Region Board Regulation 190/2017 and due to the Minister by December 31, 2020.

Both elected and staff are eligible to participate in this subcommittee of the ISC. The first meeting of the subcommittee was held on October 9, 2019. The Committee determined to do a current state report and is exploring the possibility of Mount Royal University students conducting the work free of charge.

11. Recommendation

That the Board receive for information an update on the work of the Land Use Committee and the Intermunicipal Servicing Committee.

UPDATED MEMBER COUNCIL APPOINTMENTS – NOV 2019

	BOARD	LUC	ISC	GOVERNANCE	ADVOCACY
AIRDRIE	Mayor Brown Cllr Petrow Cllr Kolson	Mayor Brown Cllr Petrow Cllr Kolson	Mayor Brown Cllr Petrow Cllr Kolson	Mayor Brown Cllr Petrow Cllr Kolson	Mayor Brown Cllr Petrow Cllr Kolson
CALGARY	Mayor Nenshi Cllr Carra	Cllr Carra Cllr Chahal	Cllr Carra Cllr Chahal	Cllr Chahal Cllr Carra	Cllr Chahal Cllr Demong
CHESTERMERE	Mayor Chalmers Deputy Mayor Yvette Kind	Mayor Chalmers Deputy Mayor Yvette Kind	Mayor Chalmers Deputy Mayor Yvette Kind	Mayor Chalmers Deputy Mayor Yvette Kind	
COCHRANE	Mayor Genung Cllr McFadden	Mayor Genung Cllr McFadden	Cllr McFadden Mayor Genung		Mayor Genung Cllr McFadden
FOOTHILLS	Reeve Oel Cllr Spilak	Reeve Oel Cllr Spilak	Reeve Oel Cllr Alger	Cllr Spilak Reeve Oel	Cllr Spilak Reeve Oel
HIGH RIVER	Mayor Snodgrass Cllr Moore	Mayor Snodgrass Cllr Moore	Cllr Moore Mayor Snodgrass	Cllr Kinghorn Cllr MacMillan	Cllr Kinghorn Cllr MacMillan
OKOTOKS	Mayor Robertson Deputy Mayor	Mayor Robertson Deputy Mayor	Mayor Robertson Deputy Mayor	Mayor Robertson Deputy Mayor	Cllr Thorn Deputy Mayor
ROCKY VIEW	Reeve Boehlke Cllr Gautreau	Reeve Boehlke Cllr Gautreau	Reeve Boehlke Cllr Gautreau	Cllr Gautreau	
STRATHMORE	Mayor Fule Cllr Sobol	Cllr Sobol Cllr Montgomery	Mayor Fule		
WHEATLAND	Reeve Link Deputy Reeve Klassen	Cllr Ikert	Deputy Reeve Klassen	Cllr Koester	Reeve Link

Agenda Item 15