# Agricultural Advisory Committee AGENDA



Thursday, May 12, 2016 6:00 pm Council Chamber City Hall, 1435 Water Street

**Pages** 

### 1. Call to Order

THE CHAIR WILL CALL THE HEARING TO ORDER:

- (a) The purpose of this Meeting is to consider certain Development Applications as noted on this meeting Agenda.
- (b) The Reports to Committee concerning the subject development applications are available on the City's website at www.kelowna.ca.
- (c) All representations to the Agricultural Advisory Committee form part of the public record.
- (d) As an Advisory Committee of Council, the Agricultural Advisory Comittee will make a recommendation of support or non-support for each application as part of the public process. City Council will consider the application at a future date and, depending on the nature of the file, will make a decision or a recommendation to the Agricultural Land Commission.

### 2. Applications for Consideration

### 2.1 3665 and 3671 Hart Road, A16-0006 - Roger Borrett

3 - 13

The applicant is requesting permission from the Agricultural Land Commission (ALC) for a "Subdivision of Agriculture Land Reserve" under Section 21(2) of the Agricultural Land Commission Act. The subdivision is more specifically a Lot Line Adjusment.

### 2.2 3740 Casorso Road, A16-0002 - Urban Options Planning & Permits

14 - 26

The applicant is requesting permission from the Agricultural Land Commission (ALC) to legalize an existing non-conforming nursery and landscape company as well as a proposed nursery expansion.

# 2.3 1555 Glenmore Road, 855 Packinghouse Road, 2250 & 2285 Galiano Road, ASP12-0001 - Troika Developments

27 - 36

To consider the merits of the draft Diamond Mountain Area Structure Plan

submitted by the applicant for review and comment.

# 2.4 5269 Hwy 97, 4310, 4210 and 4130 Old Vernon Road, A16-0009 - City of Kelowna (YLW)

37 - 137

The applicant is requesting permission from the Agricultural Land Commission (ALC) under Section 30(1) of the Agricultural Land Commission Act for an exclusion within the Agricultural Land Reserve (ALR) of the subject properties for airside commercial development to support airport services.

3. Minutes 138 - 144

Approve Minutes of the Meeting of April 14, 2016.

# 4. Next Meeting

June 9, 2016

# 5. Termination of Meeting

# **COMMITTEE REPORT**

**Date:** May 12, 2016

**To:** Agricultural Advisory Committee (AAC)

From: Community Planning (MS)

Address: 3665 & 3671 Hart Road Applicant: Roger Borrett

**Subject:** Subdivision in the Agricultural Land Reserve - Lot Line Adjustment

#### 1.0 PURPOSE

The applicant is requesting permission from the Agricultural Land Commission (ALC) for a "Subdivision of Agricultural Land Reserve" under Section 21(2) of the Agricultural Land Commission Act. The subdivision is more specifically a Lot Line Adjustment.

City of

Kelowna

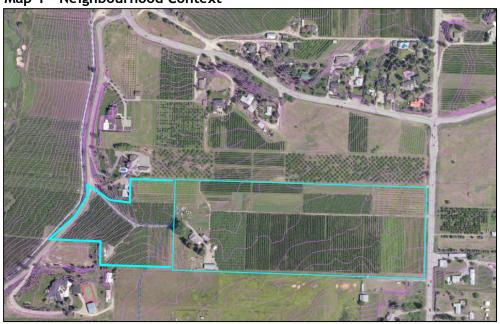
### 2.0 PROPOSAL

# 2.1 Background

The applicant is requesting a lot line adjustment, to move the property boundary between 3671 Hart Road and 3665 Hart Road 98 m to the east. Both properties are owned by the applicant.

The family has owned and farmed the area for four generations. In 2010, the owner's mother was granted a homesite severance by the ALC for 3671 Hart Road, for the homesite which is now 3681 Hart Road. As part of the homesite severance, the ALC required the registration of a homesite covenant on the farm remainder of 0.2 ha (1/2 acre) on the farm remainder (see Map 1, below). The applicant purchased the farm remainder from his mother, and continues to farm the properties together. The properties are planted in apples, sour cherries, grapes, a garden nursery and a vegetable garden.

Map 1 - Neighbourhood Context



### 2.2 Project Description

The applicant is requesting a lot line adjustment, in order to keep his house on the western parcel, in order to sell the eastern parcel to his son, so each parcel can be a viable farm operation.

The proposal will include the following:

• Relocate the property line between the parcels approximately 98 metres to the east.

### 3671 Hart Road (Lot B Plan 92586)

- Relocate the Farm Residential Footprint covenant from the western portion of the property along the road to the existing home and structures.
- Relocate the access easement to serve 3681 Hart Road.
- Relocate the existing No Build Covenant to include all lands on 3671 Hart Road except the Farm Residential Footprint area.

### 3665 Hart Road (Lot 2 Plan 48949)

- Register a Farm Residential Footprint covenant along McCulloch Road (1.5 acre / 0.2 ha).
- Register a No Build Covenant (with the exception of agricultural structures) on the remainder.
- Change the address to McCulloch Road.

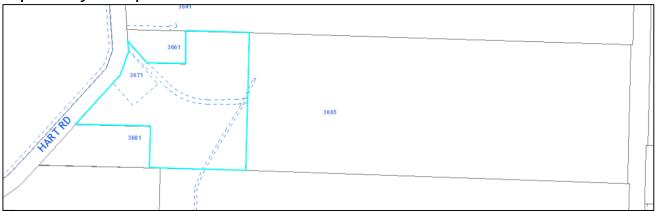


Map 2 - Subject Properties - Existing Property Line

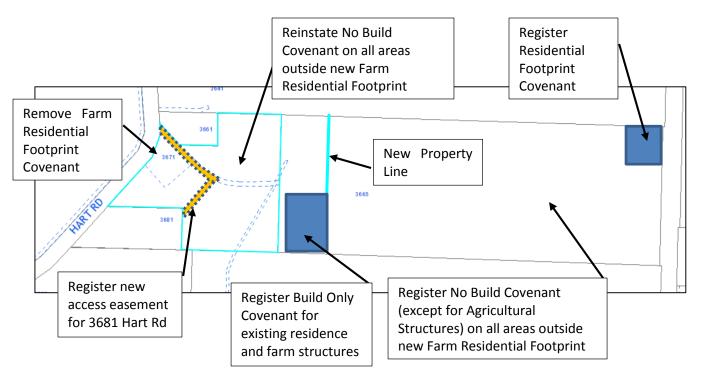




Map 4 - Subject Properties - Covenant and Easement Areas



Map 5 - Subject Properties - Proposed Covenant and Easement Areas



### 2.3 Site Context

The subject property is located in the Southeast Kelowna Sector of the City. It is surrounded by land in the ALR. To the west is a golf course with an agricultural component, to the north, east and south is actively farmed land. It is outside the Permanent Growth Boundary according to the Official Community Plan.

# Parcel Summary 3671 Hart Road:

Parcel Size: 2.6 ha (6.5 ac)

Elevation: 464 at west to 479 (metres above sea level) at east

# Parcel Summary 3665 Hart Road:

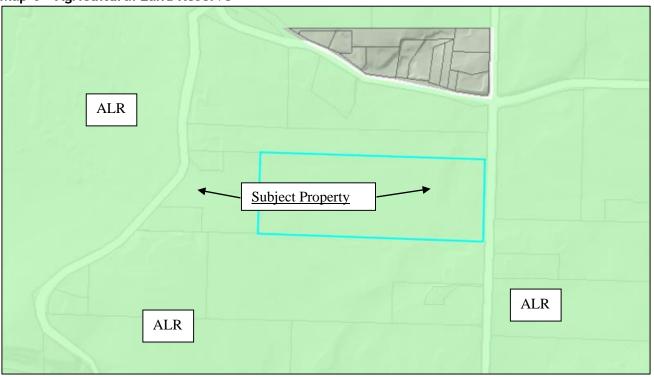
Parcel Size: 8.98 ha (22.2 ac)

Elevation: 477 at west to 486 (metres above sea level) at east

### 2.4 Zoning of Adjacent Property

Direction	Zoning Designation	Land Use
North	A1 - Agriculture 1	Agriculture
East	A1 - Agriculture 1	Agriculture
South	A1 - Agriculture 1	Agriculture
West	P3LP - Private Recreation / Liquor Primary	Golf Course

Map 6 - Agricultural Land Reserve



# 2.5 Agricultural Land and Soil Capability

According to the Canada Land Inventory (CLI), the majority of the subject property contains Class 5A Agriculture Capability. Class 5A has limitations to crops based on aridity, due to either soil permeability or climate or both, and is considered improvable with the addition of irrigation. With improvements, this area can be improved to Class 3 and Class \*3 capability, which refers to specific capability with respect to grapes and tree fruits. Class 1 to Class 3 is considered prime agricultural land and relatively rare in the Okanagan.

Paradise soils are predominant on the property. These have a sandy veneer between 25 and 60 cm thick, overlying glaciofluvial deposits. Surface textures are sandy, with subsoils that are very gravelly sand or gravelly loamy sand. They are rapidly drained with low water holding capacity. They are suitable for tree fruits or vineyards or intensive vegetable production.

Parkill and Gamill Soils are also on the property. These are gently to moderately sloping glaciofluvial deposits, which typically have 10 to 25 cm of sandy loam over gravelly loam or very gravelly sand. Drainage is rapid. Most land with Parkill and Gamill soils are farmed for tree fruits or vineyards<sup>1</sup>.

### 3.0 Community Planning

The City's Agriculture Plan recommends that "subdivisions of agricultural land into smaller parcels should be generally discouraged except where positive benefits to agriculture can be shown". The City of Kelowna's OCP states, regarding subdivision, that:

Maximize potential for the use of farmland by not allowing the subdivision of agricultural land into smaller parcels... except where significant positive benefits to agriculture can be demonstrated'<sup>3</sup>.

Staff notes that the boundary adjustment requested:

- Establishes boundaries for Farm Residential Footprints for both parcels; and
- Establishes No Build covenants on both parcels, preserving the remainder for farming;
- Establishes an access easement for the shared driveway for 3671 and 3681 Hart Road; and
- Includes the Farm Residential Footprint by either McCulloch Road or, for 3671 Hart Road, the existing Farm Residential Footprint, which will include all existing agricultural structures and an existing bunkhouse for farm help.

<sup>&</sup>lt;sup>1</sup> MOE, 1983. Soils of the Okanagan and Similkameen Valleys – MOE Technical Report 18. http://sis.agr.gc.ca/cansis/publications/surveys/bc/bc52/bc52\_report.pdf

<sup>2</sup> City of Kelowna, 1996. Agriculture Plan. http://apps.kelowna.ca/CityPage/Docs/PDFs/Strategic%20Planning/Agriculture%20Plan.pdf

<sup>&</sup>lt;sup>3</sup> City of Kelowna, OCP 2030. Chapter 5, Development Process. Objective 5.33. Policy 7. http://apps.kelowna.ca/CityPage/Docs/PDFs/%5CBylaws%5COfficial%20Community%20Plan%202030%20Bylaw%20 No.%2010500/Chapter%2005%20-%20Development%20Process.pdf?t=051845942

Report prepared by:	
Melanie Steppuhn, Land Use Planner	
Approved for inclusion:	
Todd Cashin Manager, Subdivision, Agriculture & Environment Services	

### Attachments:

Schedule A - Policies Proposed Homesite Severance Plans Soil Classification Map BCLI Land Capability Map

# SCHEDULE A - Policies



Subject: 3665 and 3671 Hart Road - Lot Line Adjustment

### 1.1 Kelowna Official Community Plan (OCP)

# **Land Use Designation Definitions**

#### Resource Protection Area<sup>1</sup>

Generally land areas within this designation (whether they are within the permanent growth boundary or not) will not be supported for exclusion from the ALR or for more intensive development than that allowed under current zoning regulations, except in specific circumstances where the City of Kelowna will allow exceptions to satisfy civic objectives for the provision of park/recreation uses.

# **Agricultural Land Use Policies**

Objective 5.33 Protect and enhance local agriculture<sup>2</sup>.

**Policy .1 Protect Agricultural Land.** Retain the agricultural land base by supporting the ALR and by protecting agricultural lands from development, except as otherwise noted in the City of Kelowna Agricultural Plan. Ensure that the primary use of agricultural land is agriculture, regardless of parcel size.

### 1.2 Agricultural Land Commission Act (ALCA)

Purposes of the commission - Section 6 of the ALCA

The following are the purposes of the commission:

- (a) to preserve agricultural land;
- (b) to encourage farming on agricultural land in collaboration with other communities of interest;
- (c) to encourage local governments, first nations, the government and its agents to enable and accommodate farm use of agricultural land and uses compatible with agriculture in their plans, bylaws and policies.

# Subdivision approval

10 (1) Despite section 18 (b) of the Act, an approving officer under the <u>Land Title Act</u>, the <u>Local Government Act</u> or the <u>Strata Property Act</u> or a person who exercises the powers of an approving officer under any other Act may authorize or approve a plan of subdivision without the approval of the commission if the proposed plan achieves one or more of the following:

<sup>&</sup>lt;sup>1</sup> City of Kelowna 2030 Official Community Plan. Future Land Use Chapter. P. 4.2.

<sup>&</sup>lt;sup>2</sup> City of Kelowna 2030 Official Community Plan: Agricultural Land Use Policies Chapter. P. 5.35.

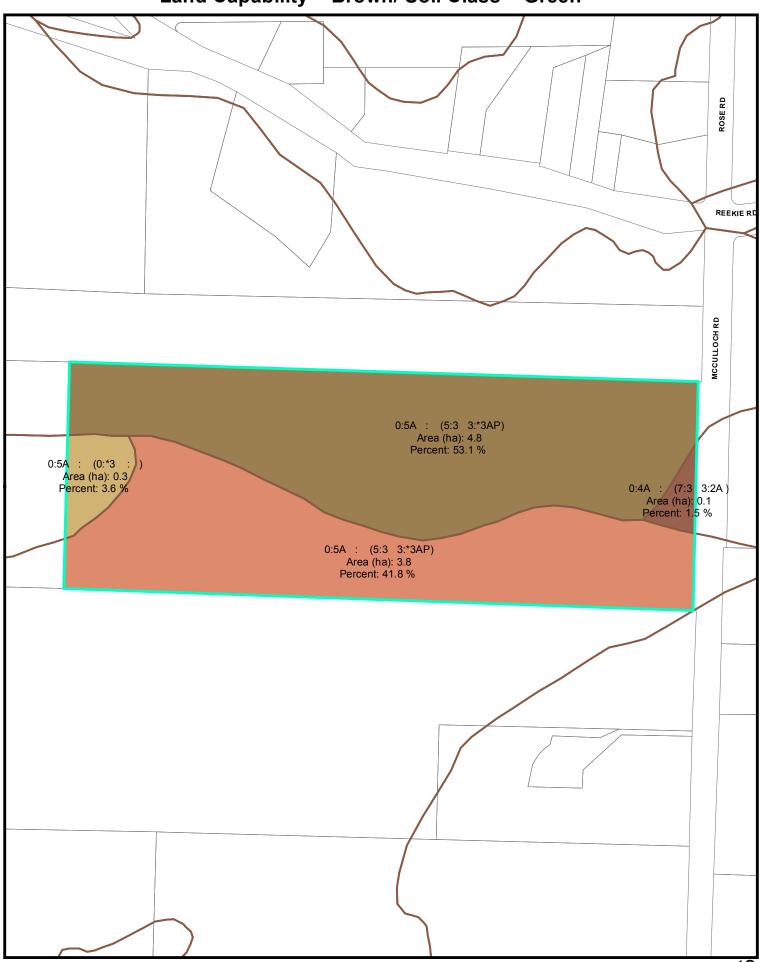
- (a) consolidates 2 or more parcels into a single parcel by elimination of common lot lines;
- (b) resolves a building encroachment on a property line and creates no additional parcels;
- (c) involves not more than 4 parcels, each of which is a minimum of 1 ha, and results in all of the following:
  - (i) no increase in the number of parcels;
  - (ii) boundary adjustments that, in the opinion of the approving officer, will allow for the enhancement of the owner's overall farm or for the better utilization of farm buildings for farm purposes;
  - (iii) no parcel in the reserve of less than 1 hectare;
- (d) establishes a legal boundary along the boundary of an agricultural land reserve.
- (2) An approving officer who declines to authorize or approve a plan must give notice of that decision to the person who made the application.
- (3) A person who receives a notice under subsection (2) may apply to the commission with respect to the proposed subdivision.





Proposed New Lot line between Lot 1 and Lot 2

# Land Capability = Brown/ Soil Class = Green



# Land Capability = Brown/ Soil Class = Green



# **COMMITTEE REPORT**



**Date:** May 12, 2016

**RIM No.** 1210-21

**To:** Agricultural Advisory Committee (AAC)

From: Community Planning Department (TY)

**Application:** A16-0002 **Owner:** Armerinda Russo

Address: 3740 Casorso Road Applicant: Urban Options Planning &

**Permits** 

**Subject:** Application to the ALC for a Non-Farm Use

### 1.0 Purpose

The applicant is requesting permission from the Agricultural Land Commission (ALC) to legalize an existing non conforming nursery and landscape company as well as a proposed nursery expansion.

### 2.0 Proposal

### 2.1 Background

The applicant is requesting a Non-Farm Use application under Section 25 of the Agricultural Land Commission Act to continue the current non-conforming uses on the property. The applicant operates an ornamental landscape nursery which includes retail sales of the nursery stock as well as growing medium and aggregate retail sales. The applicant also operates a landscape construction and irrigation company from the subject parcel. The Non-Farm Use application is to seek the appropriate provincial and municipal approvals in order to permit the following uses on the subject parcel:

- Operation of Nursery Retail which includes:
  - Retail sales of imported topsoil, aggregates and non farm products in an area 1,112 m<sup>2</sup> in size.
  - o Office and storage buildings in a non-contiguous area
- Operation of Landscape Construction Company which includes:
  - Outdoor storage of landscape construction equipment in an area approx. 155 m<sup>2</sup> in size.

The operator of the proposed uses, Neway Landscape & Irrigation Ltd has leased the parcel from the Russo family since 2003. In this time, Neway has operated with a Business Licence of Landscaping/Garden including the sale of shrubs which is permitted in Kelowna's A1 - Agriculture 1 Zone and meets ALC regulations. The non-conforming uses on the parcel include the retail sales of imported non-farm product (topsoil, mulch, gravels) as well as landscape construction equipment storage and granular material stockpiling.

The applicant is proposing a site plan that shows an increase in nursery stock production and a decrease in non-farm retail sales on the land. The site plan as proposed does not meet a number of City of Kelowna and ALC regulations, policies or guidelines and therefore must be considered by the ALC as a Non-Farm Use application.

Map 1 - Existing Conditions (June 2015)



Map 2 -Non-Farm Use Conditions (June 2015)



# 2.2 Project Description

The applicant is requesting a non-farm use application to permit an existing business operation on the subject parcel. The proposed site plan includes:

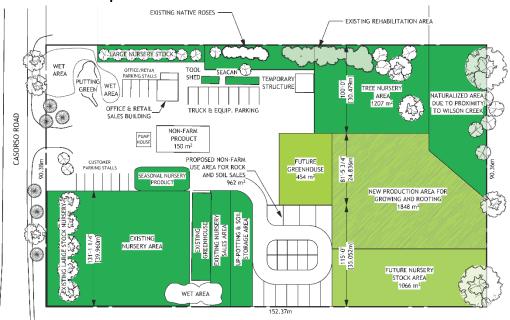
#### **Permitted Use**

- Ornamental nursery stock operation
- Future nursery stock operation
- Future greenhouse

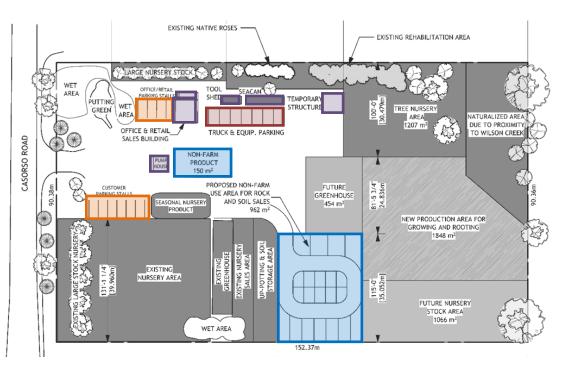
### **Uses requiring Non-Farm Use Application**

- Parking, structures and non-farm retail sales located in a non-contiguous area, farther than 60 m of a property line fronting a road.
  - ALC and City of Kelowna Policy seek these uses to be located in a contiguous footprint area, within 60.0 m of a property line fronting a road.
- Retail sales of non-farm product of 1,112  $m^2$  in two separate areas on the property (150  $m^2 + 962 m^2$ ).
  - o ALC and City of Kelowna regulations limit these products to a maximum of 150 m<sup>2</sup>.
- Parking for nursery and landscape company equipment of 153.0 m<sup>2</sup>.
  - Outdoor storage of non-farm equipment is not permitted in the A1 Zone as per Zoning Bylaw No. 8000.

Map 3 - Site Plan of Proposed Farm Uses



Map 4 - Site Plan of Proposed Non Farm Uses



Farm Use shown in Grey

Gravel drive aisle in White

Customer Parking in Orange

Structures, buildings, temporary storage in Purple

Non-Farm Retail Sales in Blue

Outdoor storage of landscape & nursery equipment/vehicles in Red

### 2.3 Site Context

The subject property is located in the South Pandosy - KLO Sector of Kelowna. It is surrounded by land in the ALR and is adjacent to Wilson Creek to the southeast. The parcel is relatively flat, with low, wet areas to the southeast closest to Wilson Creek. As the property has little to no slope allowing water to drain, throughout the spring, fall and winter seasons water does pool around the perimeter of the property. It is outside the Permanent Growth Boundary as identified in Kelowna's Official Community Plan.

Parcel Summary - 3740 Casorso Road:

Parcel Size: 1.34 ha (3.31 acres)

Elevation: 345.0 above sea level (masl) (approx.)

Table 1: Zoning and Land Use of Adjacent Property

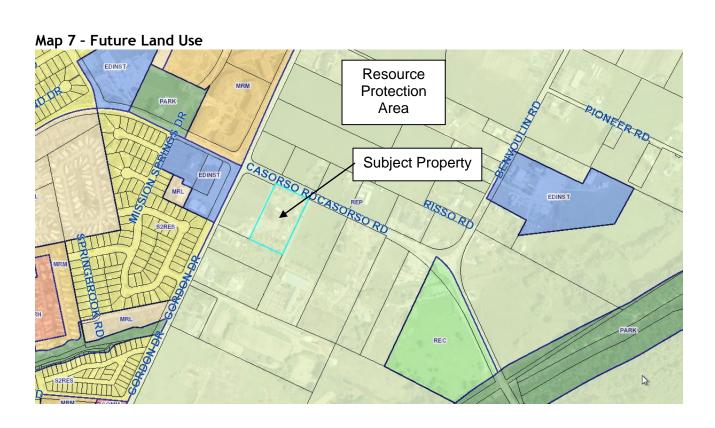
Direction	Zoning	ALR	Land Use
North	A1 - Agriculture 1	Yes	Hay
South	A1 - Agriculture 1	Yes	Vacant Land
East	A1 - Agriculture 1	Yes	Pasture
West	A1 - Agriculture 1	Yes	Fruit / Vegetable

Map 5 - Neighbourhood



Map 6 - Agricultural Land Reserve





### 2.4 Agricultural Land Capability

According to the Canada Land Inventory (CLI), the majority of the subject property (64%) is Class 4W Agriculture Capability. Class 4W has limitations to crops based on Excess Water (W) due to water level near the soil surface during most of the winter and/or until late spring, the soil is also very poorly drained and is considered improvable with ditching. With improvements, this area can be improved to Class 2. Class 1 - 3 is considered prime agricultural land and relatively rare in the Okanagan.

The remaining land (36%) is Class 6W Agriculture Capability. Class 6W has limitations to crops based on Excess Water (W) due to continuous occurrence of excess water during the growing season, leaving an effective natural grazing or growing period of 5 to 10 weeks. With proper ditching, improvements to this area could increase to Class 5 which is generally limited to the production of specially adapted crops due to the unique soil conditions.

The soils are 64% Guisachan and 36% Tanaka. These soils are common in the floodplain of Mission Creek. Guisachan soils are moderately coarse textured, and silty or sandy loam. Tanaka soils are gravel free soils which range from sandy to silty loam. They are poorly drained, with depressions susceptible to flooding. Suitable crops for these soils are hay, pasture, vegetables and other ground crops.

### 3.0 Community Planning

The City's Official Community Plan

Staff notes that the proposed non-farm use application:

- Does not adhere to farm plating principals
- Creates a scattered footprint on the land of non farm use and structures.
- A site specific Text Amendment would be required for the outdoor storage of non-farm (landscape construction) materials and equipment.

Report prepared by:	
Tracey Yuzik, Planner	
Reviewed by:	Todd Cashin, Community Planning Department Manager
Approved for Inclusion:	Ryan Smith, Department Manager, Community Planning
Attachments:	
Attachment A - Policies Proposed Site Plan	
Soil Classification Map	
Site Photos Soil Classification Map BCLI Land Capability Map	

# SCHEDULE A - Policies



Subject: 3740 Casorso Raod

### 3.1 City of Kelowna Agriculture Plan (1998)

# ALR Application Criteria<sup>1</sup>

Exclusion, subdivision, or non-farm use of ALR lands will generally not be supported. General non-support for ALR applications is in the interest of protecting farmland through retention of larger parcels, protection of the land base from impacts of urban encroachment, reducing land speculation and the cost of entering the farm business, and encouraging increased farm capitalization.

### 1.1 City of Kelowna Strategic Plan

Objective<sup>2</sup>: Sensitively integrate new development with heritage resources and existing urban, agricultural and rural areas.

Action towards this objective<sup>3</sup>: Evaluate the effectiveness of City policies and bylaws in preserving agricultural lands.

### 1.3 Kelowna Official Community Plan (OCP)

### **Land Use Designation Definitions**

#### Resource Protection Area<sup>4</sup>

Generally land areas within this designation (whether they are within the permanent growth boundary or not) will not be supported for exclusion from the ALR or for more intensive development than that allowed under current zoning regulations, except in specific circumstances where the City of Kelowna will allow exceptions to satisfy civic objectives for the provision of park/recreation uses.

### Permanent Growth boundary<sup>5</sup>

Lands within the permanent growth boundary may be considered for urban uses within the 20 year planning horizon ending 2030. Lands outside the permanent growth boundary will not be supported for urban uses.

### **Chapter 5 - Development Process**

Objective 5.3 Focus development to designated growth areas.

**Policy .1 Permanent Growth Boundary**<sup>6</sup>. Establish a Permanent Growth Boundary as identified on Map 4.1 and Map 5.2. Support development of property outside the Permanent Growth Boundary for more intensive uses **only** to the extent permitted as per the OCP Future Land Use

<sup>&</sup>lt;sup>1</sup> City of Kelowna Agriculture Plan. 1998. P. 130.

<sup>&</sup>lt;sup>2</sup> City of Kelowna Strategic Plan. 2004. P. 7.

<sup>&</sup>lt;sup>3</sup> City of Kelowna Strategic Plan. 2004. P. 29.

<sup>&</sup>lt;sup>4</sup> City of Kelowna 2030 Official Community Plan. Future Land Use Chapter. P. 4.2.

<sup>&</sup>lt;sup>5</sup> City of Kelowna 2030 Official Community Plan. Future Land Use Chapter. P. 4.6.

<sup>&</sup>lt;sup>6</sup> City of Kelowna 2030 Official Community Plan. Development Process Chapter. P. 5.2.

designations in place as of initial adoption of OCP Bylaw 10500, except as per Council's specific amendment of this policy. Resource Protection Area designated properties not in the ALR and outside the Permanent Growth Boundary will not be supported for subdivision below parcel sizes of 4.0 ha (10 acres). The Permanent Growth Boundary may be reviewed as part of the next major OCP update.

### **Agricultural Land Use Policies**

Objective 5.33 Protect and enhance local agriculture<sup>7</sup>.

**Policy .1 Protect Agricultural Land.** Retain the agricultural land base by supporting the ALR and by protecting agricultural lands from development, except as otherwise noted in the City of Kelowna Agricultural Plan. Ensure that the primary use of agricultural land is agriculture, regardless of parcel size.

**Policy .2 ALR Exclusions.** The City of Kelowna will not forward ALR exclusion applications to the ALC except in extraordinary circumstances where such exclusion is otherwise consistent with the goals, objectives and other policies of this OCP. Soil capability alone should not be used as justification for exclusion.

**Policy .3 Urban Uses.** Direct urban uses to lands within the urban portion of the Permanent Growth Boundary, in the interest of reducing development and speculative pressure on agricultural lands.

### 1.4 Agricultural Land Commission Act (ALCA)

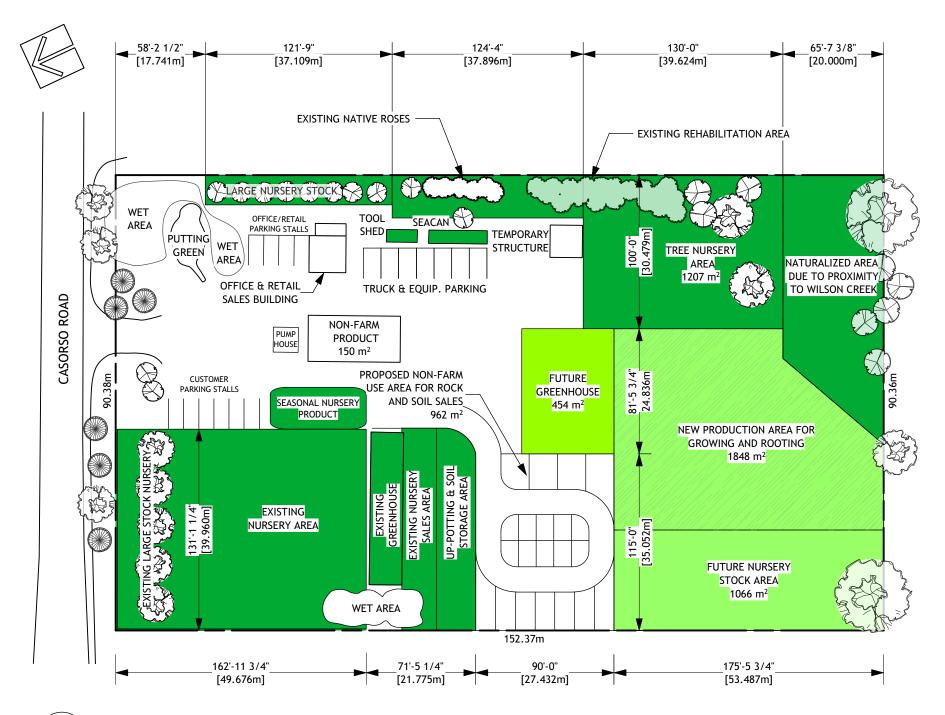
Purposes of the commission - Section 6 of the ALCA

The following are the purposes of the commission:

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<sup>&</sup>lt;sup>7</sup> City of Kelowna 2030 Official Community Plan: Agricultural Land Use Policies Chapter. P. 5.35.



3740 CASORSO SITE PLAN Scale: 1:750

0 50 70 90 110 130 FT

# Land Capability = Brown/ Soil Class = Green



25

# Land Capability = Brown/ Soil Class = Green



# **COMMITTEE REPORT**



**Date:** May 12, 2016

**RIM No.** 1200-10

**To:** Agricultural Advisory Committee (AAC)

From: Policy & Planning Department (GM)

**Owner:** Diamond-T Ranch Ltd., 338089 B.C. **Application:** ASP12-0001 Limited, Charterbridge Resources Inc., Sun

Limited, Charterbridge Resources Inc., Sun Holdings 4 Inc, Gary & Karyn Marie Brandel

1555 Glenmore Rd. N, 855

Address: Packinghouse Rd., 2250 Galiano Applicant: Troika Developments

Rd., 2285 Galiano Rd.

**Subject:** Referral of Draft Area Strucutre Plan

### 1.0 Purpose

To consider the merits of the draft Diamond Mountain Area Structure Plan, submitted by the applicant for review and comment.

### 2.0 Proposal

### 2.1 Background

On Friday, April 15, the applicant submitted a draft of the Diamond Mountain Area Structure Plan for review by the City. The purpose of an Area Structure Plan (ASP) is to provide guiding policy and a development concept for future development within designated areas of the city. ASPs ensure that the growth and development of a designated site occurs in a logical and integrated manner. An ASP must be consistent with the Official Community Plan (OCP), and must also ensure that proposed development is set within the context of the adjacent existing and developing neighbourhood and within the context of the city as a whole. Essentially, the Diamond Mountain ASP provides a development plan for the site that acts as an intermediate link between the Official Community Plan, and specific development applications.

The primary elements addressed within the draft Diamond Mountain ASP include, but are not limited to: land use, parks and open space areas, transportation, infrastructure servicing strategies, and environment, ecology, and urban/agriculture interface.

This ASP is the result of a multi-year effort on the part of the applicant, including extensive communication with the City of Kelowna and the community at-large since 2012. The ASP policies "...strive to enhance the parent neighbourhood by building upon its multiple strengths and features while looking to the future with the development of an amenity-rich neighbourhood that is home to a diverse population".

At its full build-out, Diamond Mountain is envisioned to become a mixed-use neighbourhood containing approximately 1,000 residential units supporting an estimated population of 2,000 residents, and supplemented by limited commercial and office space areas.

#### 2.2 Site Context

Parcel Size: 88.80 ha (219.42 acres)

Elevation: 460 to 595 metres above sea level (masl) (approx.)

The Diamond Mountain ASP lands total 88.80 hectares (219.42 acres) on a hillside site within the northern area of the city of Kelowna (see Map 1). The properties are located on the west side of Glenmore road, approximately 1.4km (as the crow flies) east of the University of British Columbia's Okanagan campus. Topography on the site varies greatly, from steep hillsides to gentle slopes and natural benches.

Surrounding land uses are mixed, but consist largely of agricultural uses located within the Agricultural Land Reserve. Major exceptions to this include the Yaletown multiple unit residential development immediately west of the subject properties, and the Glenmore Landfill located to the north of the proposal.

The subject parcels are presently zoned A1 - Agriculture 1; however, none of the subject properties is within the ALR. The parcels are surrounded on all sides by land within the ALR, with the exception of the multiple unit residential development (Yaletown) abutting the western edge of the subject properties.

Map 1 - Site Context



### 3.0 Agriculture Related Issues

The Diamond Mountain ASP development site is surrounded by Agricultural Land Reserve (ALR) designated lands. Some of the main challenges this presents include: urban/agriculture interface buffering, stormwater management, and a possible future second road access connecting the development to Glenmore Rd.

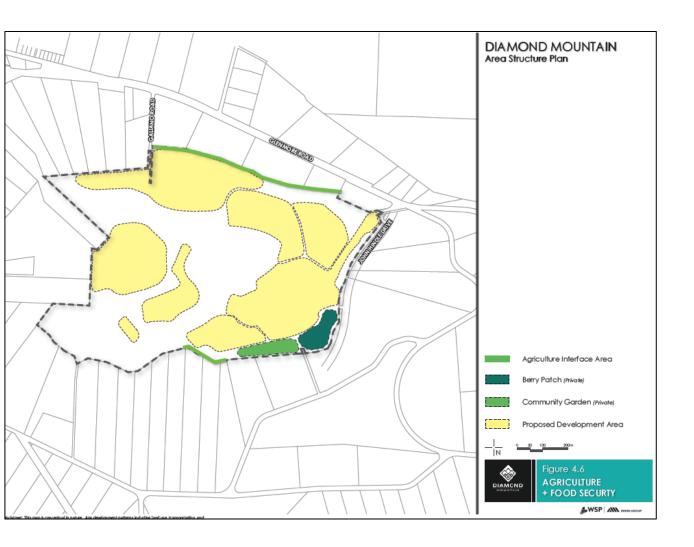
### 3.1 Urban-Agriculture Interface

The Diamond Mountain ASP is an example of an overall attempt to accommodate future growth in areas outside of the ALR in order to preserve the valley's valuable agricultural lands. As

development approaches ALR lands, however, the likelihood of interface between development and agricultural lands increases. Such pressures can have a negative impact on farm operations and on the quality of life of residents due to the impacts of standard farm practices, such as spraying. As development approaches agricultural lands, best practices and established guidelines provide a variety of options to lessen the likelihood of any future issues.

Through the ASP, the applicant identifies major interface areas (see Map 2). In these areas, the ASP states that "recognizing that residential development will occur within close proximity to ALR lands and associated operations, the development will use landscape buffering standards from the ALC, in concurrence with City policy, when considering the detailed site planning and design for the Diamond Mountain neighbourhood. While the existing urban-agriculture interface documents provide assistance in the planning, it should be acknowledged alternative buffer and interface opportunities may be achievable. As such, all urban-agricultural interface planning should be discussed both informally, and formally, with the ALC, City of Kelowna planning and development staff, and the City of Kelowna Agricultural Advisory Commission".

### Map 2 - Agriculture Interface



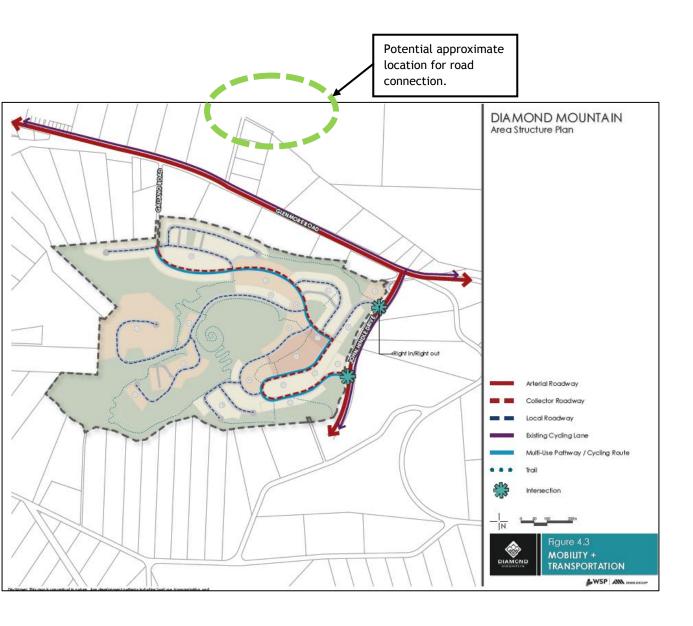
# 3.2 Stormwater Management

Where not properly managed, stormwater run-off can negatively impact adjacent properties. In the draft ASP, the applicant team proposes to collect stormwater from the site and to direct it into a system of catch basins and pipes. There are currently seven ponds proposed. These ponds will act as de-sedimentation areas as well as providing the necessary storage to allow the slow release of stormwater, to an off-site storm system, at pre-development rates. According to the applicant, based on the designed release rate, the "...City's storm water system will not be adversely impacted by the proposed development".

### 3.3 Second Road Access

The City of Kelowna requires a second access for a development beyond 400 single family equivalent units. In order to adchieve the full buildout of a 1,000 residential units, the Diamond Mountain property will ultimately require two arterial road connections (see Map 3). The potential exists for the Galiano Road access to Diamond Mountain and the Begbie Road access to the Wilden Development to be combined at a single intersection with Glenmore Road. The Galiano Road access will also provide for pedestrian and bicycle connectivity to Glenmore Road. This connection may also provide for vialbe transit service to the future residents of the proposed development.

### Map 3: Road Network



From a transportation planning perspective, a continuous connection to these two arterial roads will provide a critical link in the site's transportation network. However, from an agricultural perspective, this will have an impact on agricultural land, as the development is anticipating a new road connection through agricultural land.

Should Council endorse the ASP, a formal application will be submitted to the ALC in the future in order to secure approval for the road connection. This formal application will consider multiple road alignment options with the intent of minimizing agricultural impact. A detailed analysis and recommended mitigation measures, supported by a professional Agrologist, will be provided at that time.

# 4.0 Summary

Diamond Mountain - Appendix.pdf

The draft Diamond Mountain ASP has been submitted for review and comment by the City in advance of final public engagement and Council consideration. The proposal is for a significant new development on lands surrounded by the ALR. Comments and direction from the AAC regarding agricultural issues relating to the development will be forwarded to the applicant team for incorporation into the final ASP document.

Report prepared by:	
Graham March, Planner	<u>pecialist</u>
Reviewed by:	James Moore, Acting Department Manager, Policy & Planning
Attachments: Draft Diamond Mountain	Area Structure Plan.pdf

# SCHEDULE A - Policies



**Subject:** Address

### 3.3 City of Kelowna Agriculture Plan (1998)

# ALR Application Criteria<sup>1</sup>

Exclusion, subdivision, or non-farm use of ALR lands will generally not be supported. General non-support for ALR applications is in the interest of protecting farmland through retention of larger parcels, protection of the land base from impacts of urban encroachment, reducing land speculation and the cost of entering the farm business, and encouraging increased farm capitalization.

### 1.1 City of Kelowna Strategic Plan

Objective<sup>2</sup>: Sensitively integrate new development with heritage resources and existing urban, agricultural and rural areas.

Action towards this objective<sup>3</sup>: Evaluate the effectiveness of City policies and bylaws in preserving agricultural lands.

# 1.3 Kelowna Official Community Plan (OCP)

#### **Land Use Designation Definitions**

# Resource Protection Area<sup>4</sup>

Generally land areas within this designation (whether they are within the permanent growth boundary or not) will not be supported for exclusion from the ALR or for more intensive development than that allowed under current zoning regulations, except in specific circumstances where the City of Kelowna will allow exceptions to satisfy civic objectives for the provision of park/recreation uses.

### Permanent Growth boundary<sup>5</sup>

Lands within the permanent growth boundary may be considered for urban uses within the 20 year planning horizon ending 2030. Lands outside the permanent growth boundary will not be supported for urban uses.

### **Chapter 5 - Development Process**

Objective 5.3 Focus development to designated growth areas.

Policy .1 Permanent Growth Boundary<sup>6</sup>. Establish a Permanent Growth Boundary as identified on Map 4.1 and Map 5.2. Support development of property outside the Permanent Growth

<sup>&</sup>lt;sup>1</sup> City of Kelowna Agriculture Plan. 1998. P. 130.

<sup>&</sup>lt;sup>2</sup> City of Kelowna Strategic Plan. 2004. P. 7.

<sup>&</sup>lt;sup>3</sup> City of Kelowna Strategic Plan. 2004. P. 29.

<sup>&</sup>lt;sup>4</sup> City of Kelowna 2030 Official Community Plan. Future Land Use Chapter. P. 4.2.

<sup>&</sup>lt;sup>5</sup> City of Kelowna 2030 Official Community Plan. Future Land Use Chapter. P. 4.6.

Boundary for more intensive uses <u>only</u> to the extent permitted as per the OCP Future Land Use designations in place as of initial adoption of OCP Bylaw 10500, except as per Council's specific amendment of this policy. Resource Protection Area designated properties not in the ALR and outside the Permanent Growth Boundary will not be supported for subdivision below parcel sizes of 4.0 ha (10 acres). The Permanent Growth Boundary may be reviewed as part of the next major OCP update.

# **Agricultural Land Use Policies**

Objective 5.33 Protect and enhance local agriculture<sup>7</sup>.

**Policy .1 Protect Agricultural Land.** Retain the agricultural land base by supporting the ALR and by protecting agricultural lands from development, except as otherwise noted in the City of Kelowna Agricultural Plan. Ensure that the primary use of agricultural land is agriculture, regardless of parcel size.

**Policy .2 ALR Exclusions.** The City of Kelowna will not forward ALR exclusion applications to the ALC except in extraordinary circumstances where such exclusion is otherwise consistent with the goals, objectives and other policies of this OCP. Soil capability alone should not be used as justification for exclusion.

**Policy .3 Urban Uses.** Direct urban uses to lands within the urban portion of the Permanent Growth Boundary, in the interest of reducing development and speculative pressure on agricultural lands.

# 1.4 Agricultural Land Commission Act (ALCA)

Purposes of the commission - Section 6 of the ALCA

The following are the purposes of the commission:

- (a) to preserve agricultural land;
- (b) to encourage farming on agricultural land in collaboration with other communities of interest;
- (c) to encourage local governments, first nations, the government and its agents to enable and accommodate farm use of agricultural land and uses compatible with agriculture in their plans, bylaws and policies.

<sup>&</sup>lt;sup>6</sup> City of Kelowna 2030 Official Community Plan. Development Process Chapter. P. 5.2.

<sup>&</sup>lt;sup>7</sup> City of Kelowna 2030 Official Community Plan: Agricultural Land Use Policies Chapter. P. 5.35.

### **COMMITTEE REPORT**



**Date:** May 12, 2016

**RIM No.** 1210-21

**To:** Agricultural Advisory Committee (AAC)

From: Community Planning Department (MS)

**Application:** A16-0009 **Owner:** City of Kelowna

5269 Highway 97N

Address: 4310 Old Vernon Road

4210 Old Vernon Road

Applicant: City of Kelowna (YLW)

4130 Old Vernon Road

**Subject:** Application to the ALC for Exclusion from the Agricultural Land Reserve

### 1.0 Purpose

The applicant is requesting permission from the Agricultural Land Commission (ALC) under Section 30(1) of the Agricultural Land Commission Act for an exclusion within the Agricultural Land Reserve (ALR) of the subject properties for airside commercial development to support airport services.

### 2.0 Proposal

### 2.1 Background

The application to exclude four properties from the Agricultural Land Reserve is made to support the growth of the Kelowna International Airport (YWL). An estimated 1.6 million passengers passed through YWL in 2015, and this is expected to increase to 2.0 million passengers by 2020 and to 3.5 million by 2045. YLW has no additional airside land available (lands which has direct access to the runway).

The airport lands border the City of Kelowna and the Regional District. One parcel under application, at 5269 Hwy 97 N, is within the City of Kelowna limits. The other three parcels, on the eastern side of the runway along Old Vernon Road, are within the Regional District of the Central Okanagan.

The application describes the four properties in question as:

- Parcel A 5269 Highway 97N (within the City of Kelowna)
- Parcel B 4310 Old Vernon Road (within the RDCO)
- Parcel C 4210 Old Vernon Road (within the RDCO)
- Parcel D 4130 Old Vernon Road (within the RDCO)

### 2.2 Site Context

The airport is within the Highway 97 Official Community Plan (OCP) Sector of the City. The parcel sizes are noted below.

Parcel Summary - City of Kelowna Parcel

Parcel 'A' - 5269 Hwy 97 N: 6.83 ha (16.9 acres)

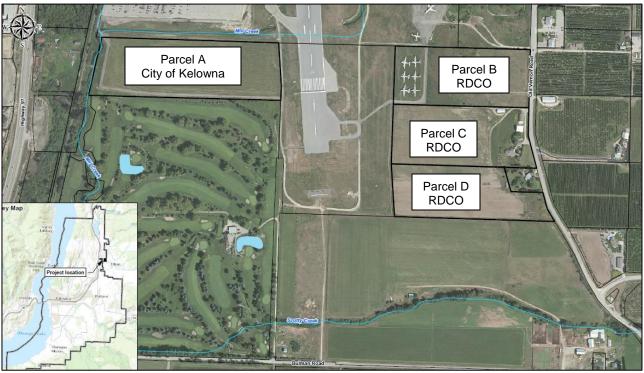
Parcel 'B' - 4310 Old Vernon Road - 5.07 ha\*\* (12.5 acres)

Parcel 'C' - 4210 Old Vernon Road - 5.33 ha (13.2 acres)

Parcel 'D' - 4130 Old Vernon Road - 4.5 ha (11.1 acres)

The exclusion area is level to nearly level valley bottom with some gently sloping terrain on Parcel 'B', and the eastern portions of of Parcel 'C' and Parcel 'D<sup>1</sup>.

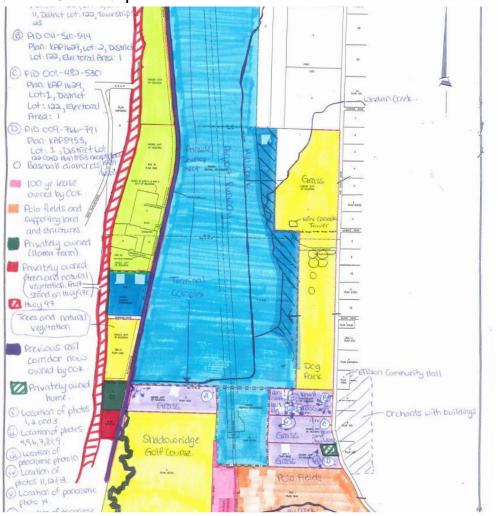
Map 1 - Subject Properties



<sup>\*\*</sup> Note that 1.86 ha of the western portion of Parcel 'B' is within airport perimeter fencing.

<sup>&</sup>lt;sup>1</sup> Associated Environmental, 2016. City of Kelowna – KIA – Agricultural Impact Assessment – Kelowna Airport Expansion.

Map 2 - YLW Plan / Sketch Map



### 2.3 Neighbourhood Context

The subject property lies within the Highway 97 Sector of the City. Parcel 'A', 5269 Highway 97 N, has a future land use designation of Public Service Utilities, and is identified a the property within the City of Kelowna, is within the Permanent Growth Boundary.

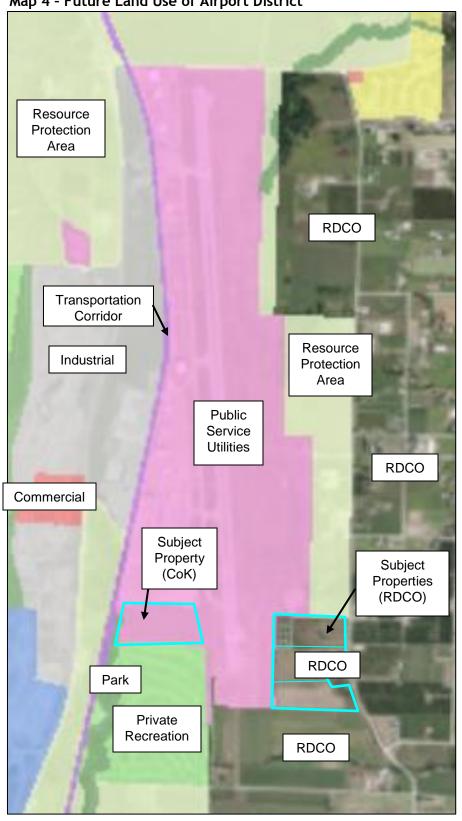
Zoning and land uses adjacent to the property are as shown in Table 1, below.

Table 1: Zoning and Land Use of Adjacent Property

Direction	Zoning	ALR	Land Use
North	CD12 - Airport	No / Yes	Airport / Vacant Field
South	A1 - Agriculture 1	Yes	Golf Course / Agriculture
East	CD12 - Airport A1 - Agriculture 1	No / Yes	Airport / Agriculture
West	A1 - Agriculture 1 CD12 - Airport	Yes / No	Natural Area / Airport

Map 3 - ALR within the Regional District of Central Okanagan - Hwy 97 N & Ellison



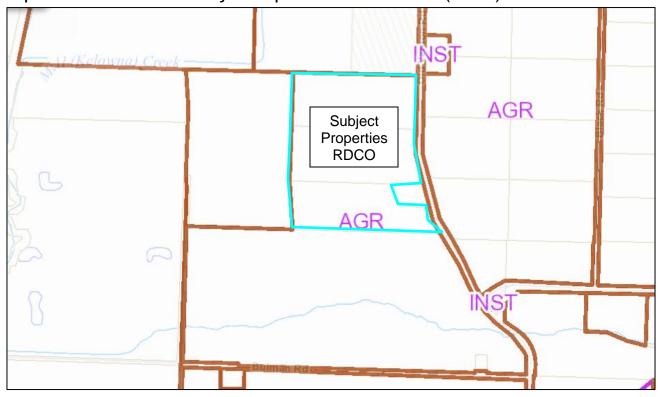


Map 4 - Future Land Use of Airport District

Resource Transportation Protection Public Corridor Resource Area Service Protection Utilities Area Subject Property PARK City of Kelowna REP PARK Private Recreation

Map 5 - Future Land Use of Subject Property within the City of Kelowna





Subject Property
City of Kelowna

Permanent
Growth
Boundary

Map 7 - Permanent Growth Boundary - City of Kelowna

The City of Kelowna Parcel 'A', 5269 Highway 97, was identified in the Airport Master Plan 2025 as a use of 'Terminal - Outside Current Boundaries', shown below.



Map 8 - Airport Master Plan 2025

### 2.4 Agricultural Land Capability

According to the Agrology Report<sup>2</sup>, the proposed airport expansion will result in the loss of approximpately 54.4 acres (22 hectares) of Class 2 and 3 (improved) agricultural land. The report notes that most of the area lies within the Transport Canada safety buffer zone, which has restrictions for agriculture in order to reduce the risk of wildlife hazards (e.g. birds) that may be attracted to crops. Taking this safety restricted area, the net loss to agriculture is approximately 22.2 acres (9 ha). The Agrology report states that, while ideally mitigation measures to agriculture would result in an inclusion of like for like agricultural land brought into the ALR for land that is lost, it wasn't considered feasible due to the lack of suitable non-ALR land for inclusion. Instead, YLW has put forth the following mitigation measures to offset the negative effects of the exclusion proposed. These measures<sup>3</sup>, include:

- Topsoil strategy that would use surplus topsoil from the exclusion are to improve soil fertility in other areas of the ALR;
- A new 'Farm to Flight' kiosk, and a local wine and craft distillery bar featuring BC products, located in the departures terminal;
- Proposed air cargo services that will create market opportunities for local produces to reach markets;
- Growth of travelers to the Okanagan to enjoy and support Okanagan agri-tourism; and
- Continued support through advertising opportunities for agriculture and agri-tourism at YLW.

### 3.0 Community Planning

<sup>&</sup>lt;sup>2</sup> Associated Environmental, 2016. City of Kelowna – KIA – Agricultural Impact Assessment – Kelowna Airport Expansion.

<sup>&</sup>lt;sup>3</sup> Associated Environmental, 2016. City of Kelowna – KIA – Agricultural Impact Assessment – Kelowna Airport Expansion.

Both the City's Agriculture Plan and the OCP recommend non-support of exclusions except where they are otherwise consistent with the goals, objectives and other policies of the OCP. The Airport Master Plan 2025 identifies the parcel within the City of Kelowna under application as Public Utilities as a Future Land Use designation.

Council is looking for direction from the Agricultural Advisory Committee with respect to:

• Potential mitigation measures to agricultural impacts;

Agrology Report

- Potential mitigation measures to agricultural operations around the subject properties;
   and
- Ways to support and enhance agriculture in the Kelowna area.

Report prepared by:	
Melanie Steppuhn, Land Us	 e Planner
Reviewed by:	Todd Cashin, Community Planning Department Manager
Attachments: Attachment A - Policies Application Statement of R Photos	ationale

### SCHEDULE A - Policies



Subject: 5269 Highway 97N, 4310 Old Vernon Road, 4210 Old Vernon Road, 4130 Old Vernon Road

### 1.3 Kelowna Official Community Plan (OCP)

### **Land Use Designation Definitions**

### Permanent Growth boundary<sup>4</sup>

Lands within the permanent growth boundary may be considered for urban uses within the 20 year planning horizon ending 2030. Lands outside the permanent growth boundary will not be supported for urban uses.

### <u>Chapter 5 - Development Process</u>

Objective 5.3 Focus development to designated growth areas.

**Policy .1 Permanent Growth Boundary**<sup>5</sup>. Establish a Permanent Growth Boundary as identified on Map 4.1 and Map 5.2. Support development of property outside the Permanent Growth Boundary for more intensive uses <u>only</u> to the extent permitted as per the OCP Future Land Use designations in place as of initial adoption of OCP Bylaw 10500, except as per Council's specific amendment of this policy.

### **Agricultural Land Use Policies**

Objective 5.33 Protect and enhance local agriculture<sup>6</sup>.

**Policy .2 ALR Exclusions.** The City of Kelowna will not forward ALR exclusion applications to the ALC except in extraordinary circumstances where such exclusion is otherwise consistent with the goals, objectives and other policies of this OCP. Soil capability alone should not be used as justification for exclusion.

**Policy .3 Urban Uses.** Direct urban uses to lands within the urban portion of the Permanent Growth Boundary, in the interest of reducing development and speculative pressure on agricultural lands.

### Objective 5.19 Ensure development is compatible with surrounding land uses

**Policy .2 Building Heights near Airport.** Require that all proposed development projects within the federal Aviation Zone include consultation with Kelowna Airport and Transport Canada with respect to building height as per Airport Zoning Regulations under the authority of the Aeronautics Act (1977). Approved projects should also include upgraded sound-proofing and must provide a covenant that saves the City harmless with respect to noise complaints.

**Policy** .4 Airport Lands. Permit only airport-related or agricultural uses on the vacant lands immediately west of the airport and north of Airport Way.

<sup>&</sup>lt;sup>4</sup> City of Kelowna 2030 Official Community Plan. Future Land Use Chapter. P. 4.6.

<sup>&</sup>lt;sup>5</sup> City of Kelowna 2030 Official Community Plan. Development Process Chapter. P. 5.2.

 $<sup>^{6}</sup>$  City of Kelowna 2030 Official Community Plan: Agricultural Land Use Policies Chapter. P. 5.35.

## Kelowna International Airport 2016 ALC Exclusion Application Proposed Use of Properties

Kelowna International Airport has submitted an application to have the following properties excluded from the ALR:

- Property A (PID 011-510-625) located to the West of the runway, South of the airport terminal and long-term parking and North of Shadow Ridge Golf Course
- Property B (PID 011-510-544) located to the East of the runway, South of the Dog Park, North of Property C and adjacent to Old Vernon Road
- Property C (PID 001-482-530) located to the East of the runway, South of Property B, North of Property D and adjacent to Old Vernon Road
- Property D (PID 009-766-791) located to the East of the runway, South of Property C, North of the polo fields and adjacent to Old Vernon Road. There is also a homestead location that is excluded from this application in the North-East corner of this property.

YLW's ALC exclusion application has been made to support the continued growth of Kelowna International Airport. 1.6 million passengers passed through Kelowna International Airport (YLW) in 2015 and YLW is anticipated to have 2.0 million passengers by 2020, 2.4 million by 2025 and 3.5 million by 2045. With this increase in passenger numbers comes an increase in the number of aircraft movements and additional infrastructure to support both the passengers and the airplanes. YLW has exhausted all non-ALR, airside land (i.e. land that has direct access to the runway), so this ALC exclusion application has been made to allow YLW to develop the airside infrastructure necessary for the continued growth of YLW.

If Property A were to be excluded from the ALR, YLW would expand and further develop the terminal complex to the South. This would include, but not be limited to, expansion of the terminal itself, the apron where the planes land and park and the taxiway that connects the apron to the runway. This would provide the necessary space for YLW to process the increasing number of passengers, and on-load, off-load and park the increasing number of airplanes. Examples of potential terminal complex expansion designs are included in the document titled "YLW 2016 ALC Exclusion Application – Property A Terminal Complex Expansion."

If Properties B, C and D were to be excluded from the ALR, these properties would be developed to provide the aviation-based, airside infrastructure and services necessary to support the increasing number of aircraft at YLW. This airside development could include, but is not limited to, a secondary taxiway, additional maintenance facilities, a second fuel farm, additional hangars for the parking of airplanes and additional cargo facilities. YLW would like to see these additional cargo facilities provide the opportunity for Okanagan fruit (especially cherries) to be flown direct to international markets from Kelowna, rather than being trucked to Vancouver first. Pictures of similar facilities that currently exist at YLW have been included below as examples of the future, potential, aeronautical, airside development.



This photo is of a hangar that would be used to house a plane during maintenance. The photo was taken from YLW's apron, looking North-West. This facility is located on the West side of the runway, North of the terminal building.



1= A from pg 1 3 = C from pg 1 4= D from pg 1



This facility is used for cargo operations. This photo was taken from YLW's apron, looking West. This facility is located on the West side of the runway, North of the terminal building.

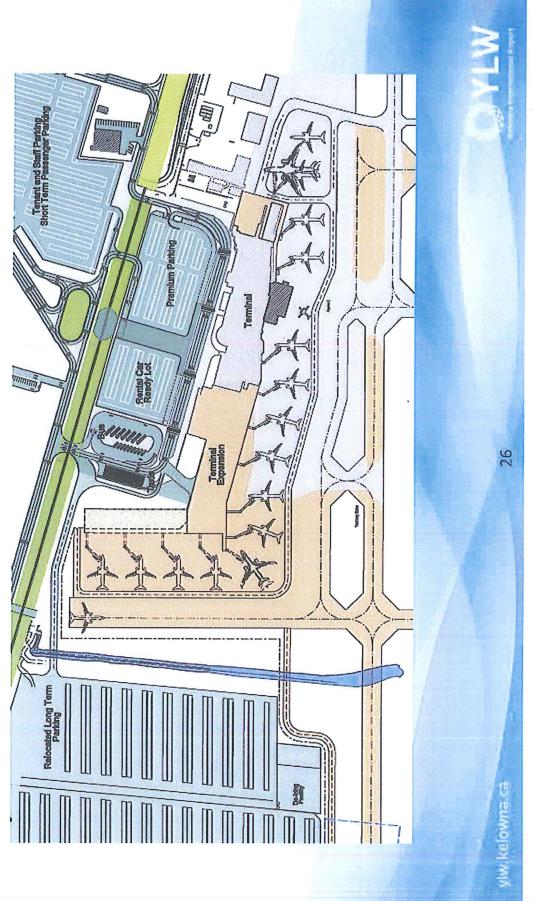


This facility houses YLW's current fueling operations. This photo was taken from YLW's apron, looking North West. This facility is on the West side of the runway, North of the terminal.

# Terminal Apron

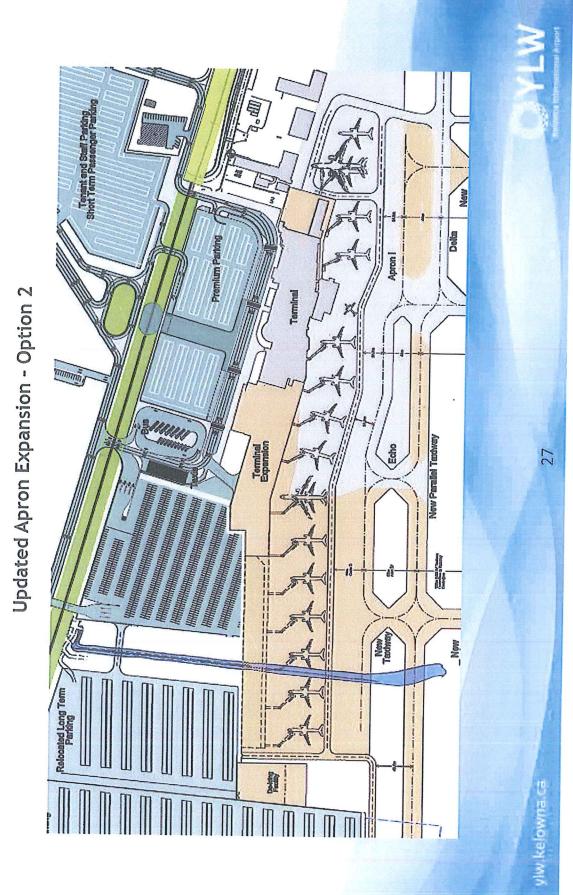


Updated Apron Expansion - Option 1



# Terminal Apron

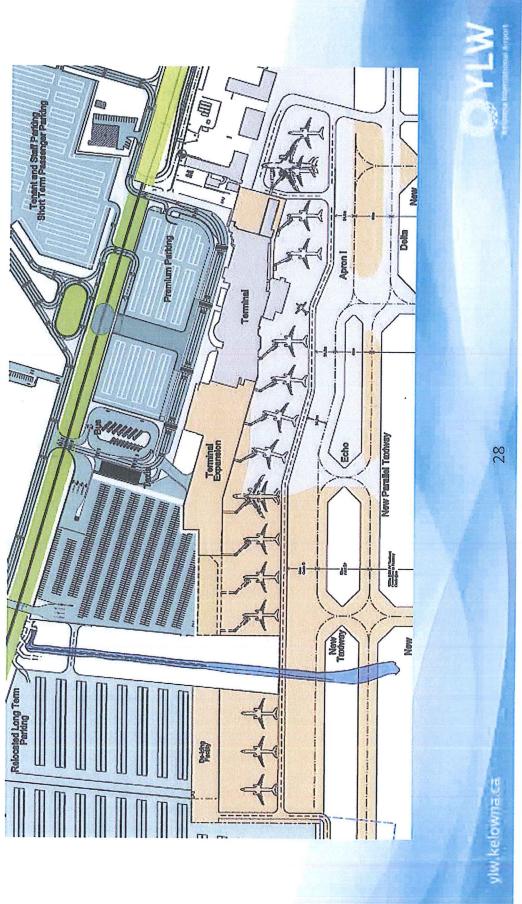




# Terminal Apron



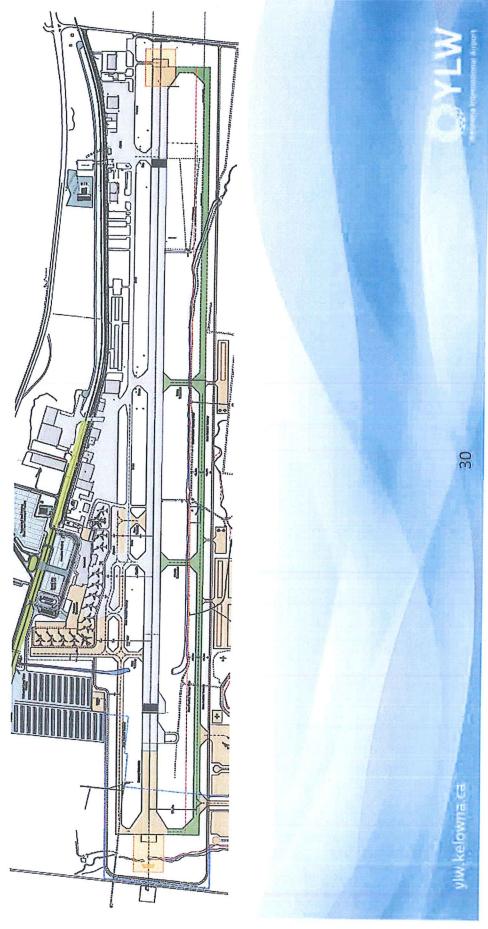
Updated Apron Expansion - Option 3



# Future East Parallel Taxiway



Taxiway Configuration - Preserved Mill Creek Layout



# Kelowna International Airport 2016 ALC Exclusion Application Property A Photos (PID 011-510-625)



Photo 1 is taken from the North-West corner of Property A. Photo is facing South-East. The creek on the left side of the photo is Mill Creek. The rounded structure on the left side of the photo is not on Property A. The pavement in the middle of the photo is the South end of Kelowna International's Runway. The planes on the far side of the runway are the Convairs parked on the West side of Property B. The white, rounded structure just to the right of the Convairs is on Property C. The trees on the right side of the photo are a part of Shadow Ridge Golf Course.



Photo 2 is taken from the North-West corner of Property A. Photo is facing South-South-East. The trees are a part of Shadow Ridge Golf Course. The fence in front of the trees is the property line between Property A and Shadow Ridge Golf Course.



Photo 3 is taken from the North-West corner of Property A. Photo is facing South. The trees on the left side of the photo are a part of Shadow Ridge Golf Course. The fence in front of these trees is the property line between Property A and Shadow Ridge Golf Course. The creek on the right side of the photo is Mill Creek. The fence on the right side of the photo separates Property A from the privately-owned land to the West of Property A.

# <u>Kelowna International Airport 2016 ALC Exclusion Application</u> <u>Property B Photos</u> (PID 011-510-544)



Photo 4 taken from the midpoint of Property B's East property line. Photo is South facing with Old Vernon Road shown on the left of the photo. The fence in the distance is the fence line between Properties B and C. The buildings in the distance are on Property C.



Photo 5 taken from the midpoint of Property B's East property line. Photo is South-West facing. The fence in the distance is the fence line between Properties B and C. The buildings in the distance are on Property C.



Photo 6 taken from the mid-point of Property B's East property line. Photo is West-South-West facing. The fence in the distance is the fence line between Properties B and C. The building in the distance is on Property C. The trees in the upper right corner of the photo are a part of Shadow Ridge Golf Course. The pavement slightly in front of those trees is the runway for Kelowna International Airport.



Photo 7 taken from the midpoint of Property B's East property line. Photo is West facing. The trees in the distance are on the knoll present on Property B. The trees in the upper left hand corner of the photo are a part of Shadow Ridge Golf Course. The pavement slightly in front of these trees is the runway for Kelowna International Airport. The building structure just behind the grass in the right corner of the photo is the terminal building for Kelowna International Airport.



Photo 8 is taken from the midpoint of Property B's East property line. Photo is North-West facing. The trees on the left side of the photo are on the knoll present on Property B. The buildings and planes in the background are a part of Kelowna International Airport. The trees in the distance on the right hand side of the photo are a part of the Dog Park that is North of Property B.

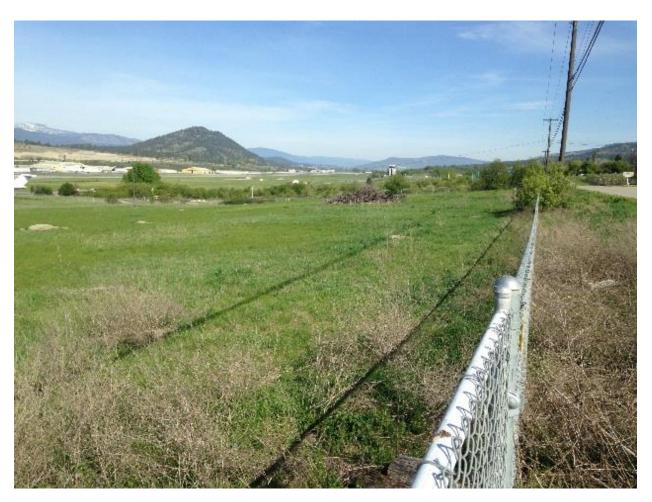


Photo 9 taken from the midpoint of Property B's East property line. Photo is North-North-West facing. The buildings on the left hand side of the photo are a part of Kelowna International Airport. The trees in the middle of the photo are a part of the Dog Park that is North of Property B. The tall building towards the top and in the middle of the photo is NAV Canada's tower which directs traffic for Kelowna International Airport. The road on the right hand side of the photo is Old Vernon Road.



Panoramic Photo 10 taken from the top of the knoll on Property B. Photo pans from South facing on the left to North facing on the right. The dirt road on the left hand side is just on the other side of the property line between Properties B and C. Planes in the middle of the photo are Convairs, which are not flight-ready and are being stored. The patch of trees above and slightly to the left of the planes is Shadow Ridge Golf Course. The cement strip between the planes and Shadow Ridge Golf Course is the runway for Kelowna International Airport. The buildings in the West and North-West direction are Kelowna International Airport. The trees on the very far right of the picture, in behind the knoll, are a part of the Dog Park that is North of Property B.

# <u>Properties C and D Photos</u> (PID 001-482-530 and PID 009-766-791)



Photo 11 is taken from the top of the knoll on Property B. Photo is South-East facing. The road in behind the structures is Old Vernon Road. The dirt road along the fence is on Property C. The fence in the foreground is the property line between Properties B and C. All structures in the Photo are on Property C. The rounded structure with the brown roof is completely enclosed and is used for storage. The white structure in the foreground is open air on the other side and is not currently being used. The rounded white structure with tan trim is open air on the Old Vernon Road side and is used for storage. The house shown on the right hand side of the photo is currently being rented to a tenant. Property C slopes downward from East to West, as shown in the photo.



Photo 12 is taken from the top of the knoll on Property B. This Photo is South facing. The fence in the foreground is on the property line between Properties B and C. The dirt road in the foreground is on Property C. The fence in the background is the Southern property line of Property D. The vehicle in the background is on the polo fields that are South of Property D.



Photo 13 is taken from the top of the knoll on Property B. This Photo is South-West facing. The dirt road in the foreground is on Property C and is just South of the property line that Property B and C share. The fence in the foreground does not depict a property line. The fence in the background on the left hand side of the photo is the Southern property line of Property D. The polo fields are on the Southern side of this property line. The fence that is in the background on the right hand side of the photo is the Western property line of Properties C and D. The trees in the upper right hand corner of the photo are a part of Shadow Ridge Golf Course. The structures between the fence with white signs on it and Shadow Ridge Golf Course are a part of Kelowna International Airport's Instrument Landing System. The pavement in the upper right hand corner of the photo, in front of the Shadow Ridge Golf Course, is the Southern end of the runway for Kelowna International Airport.



Photo 14 is a panoramic photo of Properties B, C and D. The photo is taken close to the North-West corner of Property C and pans from North-East to South-West. On the left hand side of the photo is the knoll on Property B. The dirt road is just to the South of the property line between Properties B and C. This dirt road leads to Old Vernon Road. The four buildings to the right of the dirt road are on Property C. The fence on the right hand-side of the photo is the property line between Properties C/D and the Federal lands that Kelowna International Airport is on.



Photo 15 is a panoramic photo of Properties B, C and D. The photo is taken close to the South-East corner of Property C and pans from South on the left to North on the right. The fence on the left side of the photo is the property line between Properties C/D and the polo fields. The group of trees in the middle of the photo are Shadow Ridge Golf Course. The planes and structures towards the right of the photo are a part of Kelowna International Airport. The knoll on the right hand side of the photo is the knoll on Property B. The structures on the far right of the photo are on Property C.



### **REPORT**

### City of Kelowna Kelowna International Airport

### Agricultural Impact Assessment Kelowna Airport Expansion









### **April 2016**

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## **Executive Summary**

Associated Environmental Consultants Inc. was retained by the Kelowna International Airport – City of Kelowna (Kelowna Airport) to complete an Agricultural Impact Assessment (AIA) of the proposed expansion of operations at the Kelowna International Airport (YLW) on to adjacent agricultural properties located in the Agricultural Land Reserve (ALR). The Kelowna Airport plans to expand its operations over the next 30 years to accommodate the projected increase in air passenger traffic. The first phase of this expansion is proposed to occur within the next five years to accommodate terminal complex and apron expansion south of the existing terminal and the development of additional airside services east of the runway. This expansion will occur on four properties located adjacent to YLW (the Exclusion Area).

The purpose of the AIA is to evaluate the effects of this proposed expansion on agriculture in the vicinity of the Kelowna Airport and the Central Okanagan region and to identify mitigation options. It was completed following the guidelines published by the City of Kelowna (Appendix A). This assessment report will form part of the application to the Agricultural Land Commission (ALC), the agency responsible for administering land in the ALR. The AIA of the Application Area will be used to support an application to the ALC for exclusion of the lands.

The results of the AIA indicate that airport expansion in the Exclusion Area will result in the loss of approximately 22 hectares (ha) of Class 2 and 3 (improved) agricultural land. Most of the Exclusion Area is located within a Transport Canada safety buffer zone (i.e. area required to reduce wildlife hazards through appropriate land use), so much of this land is not recommended for farming. If the safety buffer is subtracted from the 22 ha, the net loss of agricultural land that is available for farming is approximately 9 ha. Ideally, any ALR losses would be compensated for by adding the same amount of similar or better capacity land to the ALR in the Kelowna region. This compensation is not considered feasible because of the lack of suitable non-ALR land. However, the Kelowna Airport will implement the following mitigation measures and agricultural enhancement strategies to offset the negative effects of the exclusion/non-farm use:

- A topsoil enhancement strategy that would use surplus topsoil from the Exclusion Area to improve soil fertility in other areas of the ALR,
- A new produce kiosk (Farm to Flight) and wine, craft beer and distillery bar featuring BC products to promote agri-business at YLW, located at the departures terminal;
- Proposed air cargo services that will create more market opportunities for local producers to offset negative effects on agriculture in the region;
- Anticipated growth of local, domestic and international air service providing travellers with the ability to easily travel to the Okanagan and have the opportunity to enjoy and support Okanagan agritourism; and
- Continued support of Okanagan agriculture and agri-tourism through advertising opportunities at the Airport.

#### **Kelowna Airport Authority**

Furthermore, best management practices and detailed planning and monitoring during design, construction, and operations will ensure that potential negative effects on agriculture are minimized.

If all mitigation measures and strategies, as described in this report, are implemented, then the residual adverse effects on agriculture are likely negligible given that only 9 ha of the land would be farmed under current regulations and much of this is isolated from other agricultural lands by Highway 97 and Old Vernon Road.

Although 22 ha total loss (or 9 ha net loss) is more than the average net loss of 6 ha (annually from the ALR in the Central Okanagan region), the cumulative effects of the exclusion, in combination with other potential exclusion applications (including future potential expansion of the airport), are negligible because the Exclusion Area is not being farmed and there is a low probability that it will be because of the safety buffer. The Kelowna Airport recognizes, however, that the planned reduction in ALR land to enable development is a concern, and will commit to the implementation of the mitigation measures described in this report.



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### 1 Introduction

#### 1.1 BACKGROUND INFORMATION

Associated Environmental Consultants Inc. was retained by the Kelowna International Airport – City of Kelowna (Kelowna Airport) to complete an Agricultural Impact Assessment (AIA) for the proposed expansion of operations at the Kelowna International Airport (YLW) on to four agricultural properties located in the Agricultural Land Reserve (ALR). The purpose of the AIA is to evaluate the effects of expansion on agriculture in the vicinity of the Kelowna Airport and the Central Okanagan region and to identify mitigation options. It was completed following the guidelines published by the City of Kelowna (Appendix A).

The Kelowna International Airport - City of Kelowna (Kelowna Airport) plans to expand the Kelowna International Airport (YLW) over the next 30 years to accommodate the projected increase in air passenger traffic. Since 2004, passenger numbers at YLW have increased 78%, and according to the 2025 Airport Master Plan, the passenger volume through YLW is expected to grow an additional 51% to 2.4 million passengers per year by 2025 (the current volume is 1.6 million). To accommodate the expected growth, YLW will require a new taxiway, terminal expansion, apron expansion, airside services that require access to the airside infrastructure (i.e., cargo/courier, fuelling, mechanical maintenance, charter), additional airport parking and groundside services.

Kelowna Airport plans to expand YLW over several phases. The first phase is proposed to occur within the next five years to accommodate terminal complex and apron expansion south of the existing terminal as well as additional airside services east of the runway. This expansion will occur partly within the four agricultural parcels adjacent to YLW that are in the ALR (the Exclusion Area) (Figure 1-1).

As a requirement of the expansion, Kelowna Airport must apply for an exclusion from the ALR through the Agricultural Land Commission (ALC), the provincial agency responsible for administering land in the ALR, and both local governments (i.e., City of Kelowna and RDCO). To fulfill ALR exclusion application requirements, an assessment of agricultural effects as well as mitigation measures for offsetting any negative effects on agriculture are typically required for projects of this scale. This AIA will be used to support an application to the ALC for exclusion/non-farm use of the lands.

This report describes the assessment of the effects of the proposed ALR exclusion (the Exclusion) on agriculture resources in the vicinity of the airport and the wider region, and describes the methods for completing the assessment. The report provides a summary of the baseline information and an overview of the potential effects on agriculture as a result of airport expansion, mitigation measures to minimize effects on agriculture, and residual and cumulative effects. It also provides details on alternatives to the airport expansion.

#### 1.2 AGRICULTURAL IMPACT ASSESSMENT OBJECTIVE

The requirements for completing an AIA in Kelowna are outlined in City of Kelowna's Agricultural Impact Assessment Terms of Reference (TOR) (Appendix A). The TOR is intended as a general guide for

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preparing AIAs in the City of Kelowna and is not a comprehensive list of requirements. The guidelines advise the Qualified Professional completing the AIA to work with Kelowna staff to review and confirm a site-specific TOR prior to commencing work. Therefore, in March 2016, Associated consulted with City of Kelowna staff to discuss AIA requirements. Based on these discussions, the objectives of this AIA are to:

- 1. Summarize the baseline agricultural conditions;
- 2. Assess the potential effects of the Exclusion on agricultural resources in the vicinity of the airport;
- 3. Develop a mitigation strategy to avoid or reduce any detrimental effects;
- 4. Determine any residual effects that cannot be reasonably mitigated;
- 5. Identify any cumulative effects of the Exclusion; and
- 6. Identify alternatives to the Exclusion.



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### 2 Methods

The methods used to complete the AIA were based on the City of Kelowna Agricultural Impact Assessment TOR (Appendix A), which included the following tasks:

- Review of existing information, including: aerial photographs; soil and land capability maps and reports; Official Community Plans and Agricultural Plans; Kelowna Airport Master Plans; land use maps and reports; survey and engineering drawings; and agricultural statistics.
- A site visit conducted by Katarina Glavas, P.Ag., on March 24, 2016 to assess the soils and agricultural capability of the Exclusion Area and to review existing land use in the vicinity of YLW.
- Meetings with City of Kelowna and RDCO agricultural advisory committees and ALC staff to discuss potential effects and mitigation measures
- Interviews with adjacent landowners (Sandhers cherry producers).
- A meeting with ALC staff Mr. Ron Wallace, Land Use Planner for the Okanagan and Mr. Martin Collins, Regional Planner for the Okanagan - to review the proposed changes to ALR lands at the airport and to discuss mitigation options.
- Assess potential effects on agricultural as described in the City of Kelowna (TOR)
- Identify mitigation measures to offset potential effects
- · Preparation of this report.

## 3 Study Area

The study area for this assessment comprises the Exclusion Area, which includes the local agricultural area that may be impacted, primarily the Ellison area located within the boundaries of the RDCO. A wider regional study area that comprises the Central Okanagan was also considered, which includes the municipalities of Kelowna, Lake Country, Peachland, West Kelowna, and two rural areas (East and West Electoral Area).

### 4 Baseline Information

#### 4.1 SITE DESCRIPTION

YLW is located within the boundaries of the City of Kelowna, approximately 15 km northeast of downtown (Figure 1-1) at an elevation of 430 metres above sea level (masl) in the Okanagan Valley.

The Exclusion Area is comprised of four parcels of land (Parcels 1, 2, 3, and 4 shown in Figure 1-1). These parcels of land are located to the west and east of the runway. Parcel 1 is located within the boundaries of the City of Kelowna on the west side of the runway. Parcels 2, 3, and 4 are located on the east side of the runway in the Ellison area of the RDCO (East Electoral Area). All four parcels are owned by the City of Kelowna. Land title numbers and areas of each parcel are provided in Table 4-1.

Table 4-1
Description of Parcels within the Exclusion Area

Parcel PID Address		Address	Legal Description	Area	
				Acres	Hectares
1*	011-510-625	5269 Highway 97 N	Plan: KAP1629, Lot: 3, Section: 11, District Lot: 122, Township: 23	16.88	6.83
2	011-510-544	4310 Old Vernon Rd.	Plan: KAP1629, Lot: 2, District Lot: 122, Electoral Area: I	12.52	5.07**
3	001-482-530	4210 Old Vernon Rd.	Plan: KAP1629, Lot: 1, District Lot: 122, Electoral Area: I	13.18	5.33
4	009-766-791	4130 Old Vernon Rd.	Plan: KAP8953, Lot: 1	11.13	4.50
Total				53.71	21.73

#### Notes:

The Exclusion Area occupies level to nearly level valley bottom with some gently to moderately sloping (15%-30%) terrain on Parcel 2, and the eastern portions of Parcels 3 and 4.

<sup>\*</sup> Parcel 1 is located within airport perimeter fencing

<sup>\*\*1.86</sup> ha of the western section of Parcel 2 is located within airport perimeter fencing

#### 4.2 LAND USE

The YLW lands were formerly part of the Dickson Ranch, a cattle ranch that operated in the area up until 1946. The City of Kelowna purchased 320 acres of land in 1946 when residents voted in favour of purchasing the Dickson Ranch to establish an airport (Note: the ALR was established in 1973). Additional adjacent lands, including the Exclusion Area and Shadow Ridge Golf Course, were more recently acquired by the City of Kelowna for future airport expansion.

The Exclusion Area has been previously leased for forage production; however, none of the parcels are currently cultivated or used for grazing. The Exclusion Area is bordered by a mixture of agricultural, community, and recreational land use. Adjacent land use includes:

- North Ellison Dog Park (ALR), Kelowna Airport parking lot
- East Cherry orchards (ALR) and Ellison Community Hall/Fire Hall (ALR)
- South Horse stables, paddocks and polo field (ALR); Shadow Ridge Golf Course (ALR)
- West Proposed Okanagan Rail Trail and hobby farm (llamas) (ALR)

Surrounding land use includes the UBC Okanagan campus, existing (e.g., gravel pit) and future commercial/business park development (west of Highway 97), High Noon Park, commercial groundside, rural residential, and various agricultural activities including orchards, forage crop, turf production, and horse stables in the Ellison area. Agricultural lands in the Ellison area are mostly smaller rural residential properties with hobby farms. Agricultural lands to the south are generally larger agricultural holdings.

#### 4.3 AGRICULTURAL LAND RESERVE AND ZONING

The Exclusion Area is located within the ALR. The ALR is a provincial zone in which agriculture is recognized as the priority use, where farming is encouraged and non-agricultural uses are controlled. According to the City of Kelowna's Agricultural Plan (1997), approximately 42% (8,927 ha) of the City of Kelowna land area is within the ALR.

The Exclusion Area is zoned by the City of Kelowna as A1 Rural and by the RDCO as A1 Agricultural. A1 zoning allows general agricultural uses; however, not all land in this zone is actively used for agricultural purposes. Areas zoned as A1 have a minimum parcel size of 5 acres (2 ha) under the City of Kelowna Zoning Bylaw 3500. The RDCO does not set a minimum parcel size.

#### 4.4 AGRICULTURAL SOCIO-ECONOMIC PROFILE

Agriculture is important to the economy of the Central Okanagan. The soil, topography, and warm climate (and the ready availability of water for irrigation) in the Okanagan Valley make the Central Okanagan one of the most important agricultural centres in the province.

Approximately 31,368 ha of land is farmed in the Central Okanagan with 62% of the farm area owned by producers (Statistics Canada 2011). Farms in the region produce a variety of crops with apples, cherries, and grapes amongst the most important commercial crops (14% of the province's total). Fruits, particularly

cherries, are important agricultural exports that provide significant contributions to the agricultural economy in BC. In 2015, approximately \$80 million worth of cherries were shipped outside of Canada (i.e., mostly to US, China, and Hong Kong) (RDCO 2015).

In 2011, the gross farm receipts for the Central Okanagan totalled \$96,546,394 and total salaries and wages paid was \$28,669,674 (Statistics Canada 2011). Total gross farm receipts have increased by approximately 104% between 1991 and 2011. This is primarily due to the growth of the wine industry and cherry exports, as well as the Okanagan's reputation as a world class agri-tourism destination.

At the same time; however, significant population growth and urbanization throughout the Central Okanagan is contributing to increased pressure on agricultural land. In turn, the increased pressure to urbanize agricultural land is contributing to the high cost of agricultural land, which can act as a deterrent to prospective entrants into the farming industry (RDCO 2015).

#### 4.5 CLIMATE

The closest Environment Canada climate station is the Kelowna A Station (Climate ID 1123970). This station is located at YLW at an elevation of 430 masl. The climate in Kelowna is characterized by warm, dry summers and mild winters. The normal daily January temperatures are -0.2°C (maximum) and -7.4°C (minimum) and daily mean July temperatures are 27.6°C (maximum) and 10.5°C (minimum) (Environment Canada 2015). Mean annual precipitation is 380.5 mm, with 101.8 mm (water equivalent) falling as snow.

Figure 4-1 shows the monthly normal precipitation compared to the estimated potential evapotranspiration (PET), as estimated using the Priestley-Taylor equation (Shuttleworth 1993). Between May and September the region is characterized by a soil moisture deficit. Therefore, the majority of agricultural operations in Kelowna rely heavily upon irrigation.

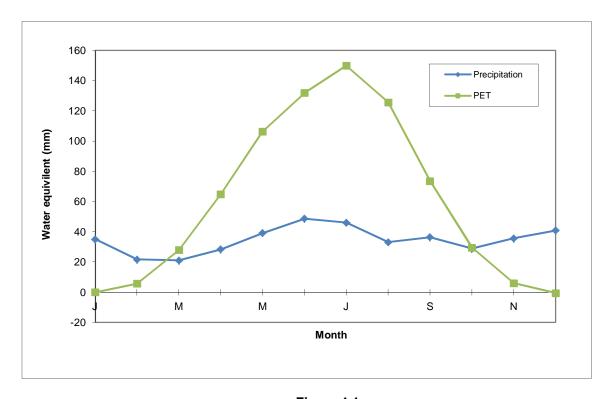


Figure 4-1 Kelowna: precipitation and potential evapotranspiration

#### 4.6 SOIL AND LAND CAPABILITY FOR AGRICULTURE

Soils in the Exclusion Area have developed on a combination of fluvial and glaciolacustrine surficial materials with a small amount of organic material southwest of YLW. Published soil mapping indicates that several soil types (soil series) corresponding to these surficial materials occur in the Exclusion Area (Wittneben 1986). Soils are primarily composed of Ratnip Fan soils accompanied by Winslow Fan, Rutland, Tanaka Fan, Westbank, and Rumhor soils by area. These soils and their locations were verified during the field investigation and were found to be consistent with that of the published soil mapping.

Table 4-2
Published description of soil series that occur within the Exclusion Area

Soil Series	Soil Material	Drainage	Classification	Soil Management Group
Ratnip Fan	Surface: gravelly sandy loam to gravely loamy sand Subsoils: range from gravelly loamy sand to gravelly sand Parent material: gravelly coarse-textured fluvial fan deposits	Well to rapidly drained, mod. to rapidly pervious, and low to mod. water holding capacity	Orthic Dark Brown Soils	Stemwinder
Winslow Fan*	Winslow Surface: sandy loam or occasionally Poorly drained		Rego Humic Gleysol	Guisachan
Rutland	<b>Surface</b> : sandy loam or loamy sand <b>Subsoils</b> : gravelly sand or gravelly loamy sand <b>Parent material</b> : mod. coarse veneer, 10 - 25 cm overlying gravelly and stony, very coarse glaciofluvial deposits	Rapidly drained, rapidly pervious, slow surface runoff and low water holding capacity	Orthic Dark Brown	Gammil
Tanaka Fan*	Surface: sandy loam to silt loam with occasional silty clay loam Subsoils: sandy loam or gravelly sandy loam Parent material: gravel-free, mostly medium to moderately coarsetextured fluvial fan deposits	Poorly to very poorly drained, mod. to slowly pervious, high water holding capacity.	Rego Humic Gleysol	Guisachan
Westbank	Surface: silty clay loam, clay loam, and clay Subsoils: clay or heavy clay but may become sandy Parent material: fine to mod. fine glaciolacustrine deposits	Mod. well drained, slowly pervious, high water holding capacity	Orthic Gray Luvisol	Glenmore

Soil Series	Soil Material	Drainage	Classification	Soil Management Group
Rumohr*	Surface: peaty Subsoils: sandy fluvial deposits Parent material: mesic organic material usually between 20 and 60 cm thick	Very poorly drained, high fluctuating water table	Rego Gleysol: Peaty and calcareous phase	Rumohr

Source: Wittneben 1986, Gough et al. 1994

Notes: \*Drainage has been improved in Parcel 1, such that the soils are imperfectly drained

#### 4.7 LAND CAPABILITY FOR AGRICULTURE

In BC, agricultural capability is rated through a classification system known as the Land Capability Classification for Agriculture in British Columbia (Kenk and Cotic 1983). The system describes seven land capability classes for agriculture (Class 1 to Class 7), and is consistent with the system of the Canadian Land Inventory. The highest classification soil (Class 1) has very slight limitations for agriculture; the lowest class (Class 7) has no capability for agriculture (Table 3-3). Along with these classes, the ALC assigns limitations to soils (Table 3-4). In most agricultural regions of BC, two ratings are assigned to a piece of land to reflect the current condition of soils and the condition after management improvements to limitations are implemented (ALC 2013). Improvements typically include drainage systems, irrigation, stone picking, and amendments.

Table 4-3
BC land capability classes for agriculture

Class	Description	
Class 1	Land either has no or only very slight limitations that restrict its use for the production of common agricultural crops.	
Class 2	Land has minor limitations that require good ongoing management practices or slightly restricts the range of crops, or both.	
Class 3	Land has limitations that require moderately intensive management practices or moderately restricts the range of crops, or both.	
Class 4	Land has limitations that require special management practices or severely restricts the range of crops, or both.	
Class 5	Land has limitations that restrict its capability to producing perennial forage crops or other specially adapted crops.	

Class	Description	
Class 6	Land is non-arable but is capable of producing native and/or uncultivated perennial forage crops.	
Class 7	Land has no capability for arable or sustained natural grazing.	

Source: ALC 2013

Table 4-4
BC land capability limitations to agriculture

Symbol	Limitation	Major Improvements
W	Water	Drainage systems
L	Permeability (organic soils)	Unimprovable
D	Soil structure /permeability	Organic matter additions
N	Salinity	Unimprovable
1	Inundation	Diking
А	Moisture	Irrigation
F	Fertility	Fertilizer additions
Т	Topography	Unimprovable

Source: ALC 2013

Based on a review of published agricultural capability and the field investigation, the agricultural capability of the Exclusion Area is primarily improved Class 2 to 3, with some Class 5 land located on Parcel 1. The improved land capability is the appropriate indicator of land quality because the majority of Exclusion Area has access to irrigation water through the Glenmore Ellison Improvement District (GEID). Soils on Parcel 1 are primarily limited by excess water (W), while soils of Parcels 2, 3, and 4 are primarily limited by a soil moisture deficit (A) and stoniness (P) (Table 4-5).

Table 4-5
Verified agricultural capability of Exclusion Area

Parcel Identifier	Unimproved	Improved
Parcel 1	4W, 4AW	2W
Parcel 2	4AP, 5TA, 4AD	3PA,5TA*, 3D
Parcel 3	4AP, 5A	3PA, 2T**
Parcel 4	4AP, 5A	3PA, 2T**

#### Notes:

#### 4.8 DRAINAGE, IRRIGATION AND WATER QUALITY

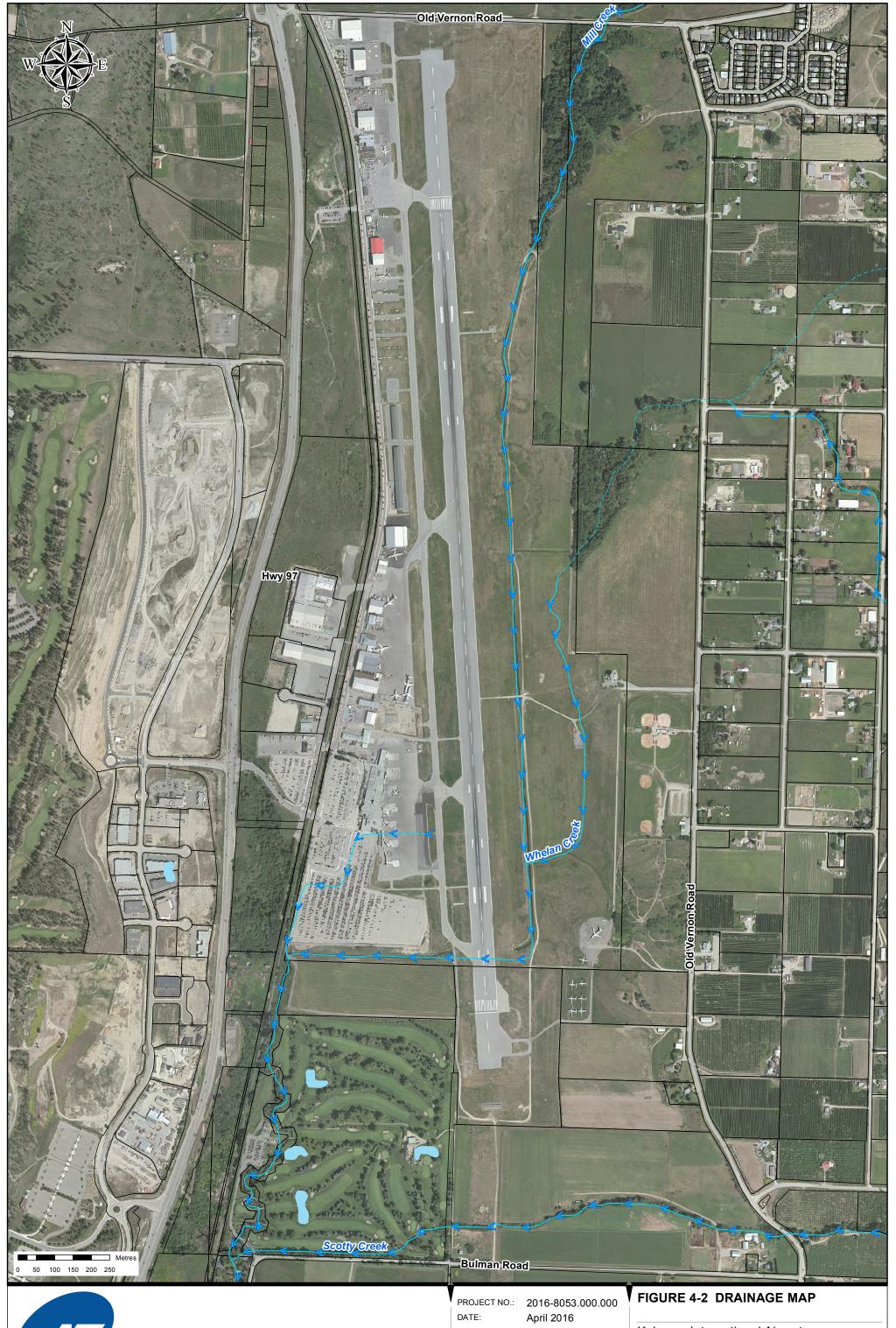
YLW is located in the Upper Mill Creek Basin that includes three watersheds: Mill Creek, Whelan Creek, and Scotty Creek. All three creeks occur within or in close proximity to the Exclusion Area (Figure 4-2). Mill Creek is located east of the runway. It is approximately 36 km long with about two-thirds of the total watershed area located up-gradient and east of YLW (Summit 2007). Mill Creek has been channeled alongside the runway to avoid airport operations. The channelized creek passes under the runway through a culvert, runs parallel to the northern boundary of Parcel 1 and then flows south towards Bulman Road. Whelan Creek flows towards the airport (north of Parcel 2) from the east and joins Mill Creek. Scotty Creek flows west joining Mill Creek at Bulman Road. Mill Creek flows for a distance of about 13 km (from YLW) before reaching Okanagan Lake. In general, site drainage for Parcels 2, 3, and 4 is primarily south towards Scotty Creek, and site drainage for Parcel 1 is west towards Mill Creek.

Groundwater discharge (from the hillside) into low lying spots in the lower valley is significant, particularly around the airport (City of Kelowna 1998). The combination of groundwater discharge as well as high water table conditions creates drainage difficulties in the surrounding agricultural areas around Bulman Road, which is prone to seasonal flooding.

Within the Exclusion Area, the soils are primarily moderately well drained on Parcels 2, 3, and 4, due to the coarse-textured rapidly drained soils. Soils on Parcel 1 are imperfectly drained. Due to the soil moisture deficit that occurs between April and October (as described in Section 3.2), irrigation is required during the summer. All four parcels have access to irrigation (irrigation mains observed on all properties); however, no irrigation equipment was observed on any of the parcels. Irrigation water in the Ellison area is withdrawn by GEID from Mill Creek upstream of the airport.

<sup>\*</sup>Published agricultural capability information indicates that topography on Parcel 2 is improvable to Class 3; however, this is not considered feasible.

<sup>\*\*</sup>Class 2T land is located on the farm homeplate.



Associated Environmental

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– City of Kelowna

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### **REPORT**

#### 4.9 FARM ACCESS AND TRANSPORTATION

Parcel 1 is accessed through the airport parking lot and is currently located in the airport perimeter area, which has restricted access (security gate and fence). It can only be accessed by airport personnel. Parcels 2, 3, and 4 are accessed from Old Vernon Road by way of Old Vernon Road or Bulman Road. Old Vernon Road is maintained by the Ministry of Transportation and Infrastructure (MOTI) while Bulman Road is maintained by the City of Kelowna. These roads are all two-lane secondary roads primarily used by agricultural and rural traffic as well as local traffic.

#### 4.10 FARM INFRASTRUCTURE (FENCING)

All of the properties in the Exclusion Area are currently fenced off with chain-link perimeter fencing, with the exception of the south perimeter of Parcel 4, which is a barbed wire and post fence. The height of the chain-link fencing enclosing Parcel 1 is eight feet tall and is topped with security barbed wire to keep trespassers out of the airport restricted zone. The height of the chain-link fencing enclosing Parcels, 2, 3, and 4 is approximately four feet. Parcels 2 and 3 were previously farmed as one unit so the perimeter fencing encloses both of these fields. In addition, there is an eight foot perimeter fence along the entire length of the airport and City of Kelowna lands adjacent to the polo field and paddocks that are located to the south.

## 5 Assessment of Effects on Agriculture

The following effects were assessed as part of the AIA:

- Loss of agricultural land
- Loss of agricultural revenue
- Disruption of drainage, irrigation and water quality
- Farm access and transportation
- Compatibility and property speculation
- · Severance or isolation
- Degradation of soils on agricultural land
- Temporary loss of infrastructure (fencing)

Details for each effect are described in Section 5.1 through 5.8.

#### 5.1 LOSS OF AGRICULTURAL LAND

The proposed expansion will result in the loss of approximately 22 ha of ALR land. The areas that would be removed are primarily composed of Class 2 and 3 soils, based on the improved land capability ratings. As noted above, the improved land capability rating is the appropriate indicator of land quality because irrigation and other improvements have been widely implemented throughout the Exclusion Area.

No parcels within the Exclusion Area are currently used for agricultural purposes, although they have been leased to forage producers in the past. Kelowna Airport has indicated that these lands are no longer leased for agricultural production in order to comply with Transport Canada guidelines to reduce wildlife hazards (i.e. bird strikes). Agricultural land uses are known to create wildlife hazards in the vicinity of an airport by attracting wildlife to food sources (Transport Canada 2004). Agricultural land uses that increase wildlife hazards include:

- crops (grains, forage, legumes);
- livestock feedlots, pig farms (not recommended within 3.2 km of airport reference points);
- pasture lands;
- plowing, having, harvesting activities that attract flocks of birds;
- vineyards;
- orchards; and
- berry farms.

Transport Canada recommends that these types of agricultural land uses are kept more than 1,200 feet away from runways to reduce wildlife hazards. If these guidelines for minimum distances are applied to the Exclusion Area, agricultural land loss would be reduced to a net loss of approximately 9 ha of land from the

ALR (Table 5-1)<sup>1</sup>. To put this loss into context, the average farm size in the Central Okanagan is 31.0 ha (Statistics Canada 2011), and this net loss is equivalent to losing about one-third of an average-sized farm.

Table 5-1
ALR land loss with buffers

Parcel	Gross Loss (ha)	Transport Canada 1,200 ft Buffer Zone	Net Loss (Land that could be farmed)
1	6.83	4.65	2.18
2	5.07	2.81	2.26
3	5.33	3.08	2.25
4	4.50	2.48	2.02
Total	21.73	13.02	8.71

Regardless of the actual area lost by the proposed expansion, any loss of agricultural land is considered an adverse effect on agricultural use because of the importance of preserving high capability agricultural lands within the ALR. It is the mandate of both the City of Kelowna and the RDCO to preserve agricultural land in the ALR to support agricultural viability. The ALC, along with municipal governments, generally discourage removal of land from the ALR unless there is a demonstrated net benefit to agriculture through compensation or improvements as a result of non-agricultural development in the ALR.

The mitigation measures to offset loss of agricultural land are described in Section 6.1.

#### 5.2 LOSS OF AGRICULTURAL REVENUE

Where there is permanent land loss and/or soil degradation, farmers may experience lost or reduced revenue due to their smaller land-base (many producers in the region farm multiple properties in the Kelowna area) and/or lower crop yields where temporary disturbances result in soil degradation. Although the Exclusion Area is no longer farmed in order to comply with Transport Canada guidelines, this area was previously leased for forage production; therefore, there is a permanent loss of potential agricultural revenues associated with YLW operations as well as the proposed expansion. In contrast, soil degradation

<sup>&</sup>lt;sup>1</sup> Transport Canada buffer zone guidelines are only applied to land owned by the City of Kelowna. They cannot be applied to private lands; however, Kelowna Airport works with adjacent neighbours to reduce the risk of wildlife hazards.

in adjacent areas or laydown areas is considered reversible; therefore, the economic implications of soil degradation are considered temporary.

The mitigation measures to offset economic effects associated with permanent land loss in the ALR are described in Section 6.2.

#### 5.3 DRAINAGE, IRRIGATION AND WATER QUALITY

Development within the Exclusion Area has the potential to affect drainage in surrounding agricultural areas by disrupting drainage patterns (i.e., reducing infiltration and increasing surface runoff). This has the potential to incrementally increase flooding and saturated soils in adjacent agricultural areas, which can result in reduced yields, delayed planting in the spring, and harvesting problems.

Any changes to drainage patterns due to development on Parcels 2, 3, and 4 are not expected to significantly increase flooding or saturated soil conditions, particularly if stormwater best management practices are implemented. However, development on the west side of Parcel 1 has the potential to negatively impact flood levels downstream, as portions of the natural flood plain will be removed from the system. Mill Creek is prone to flooding, particularly around YLW and the Bulman Road area (City of Kelowna 1998). The City of Kelowna is aware of this issue and has commissioned several studies over the years to determine the best options for dealing with flooding in the Upper Mill Creek Basin (particularly around YLW). Proposed capital projects include developing storm water retention areas, upgrading culverts, and widening channels.

From a water quality and irrigation perspective, farmers in the GEID are most concerned about the negative effects of high sediment concentrations (which can damage pumps), and, to a lesser extent, spills or leachate from industrial areas.

The mitigation measures to minimize potential effects on drainage, irrigation and water quality are described in Section 6.3.

#### 5.4 FARM ACCESS AND TRANSPORTATION

With expected development, traffic in the Ellison area, along Old Vernon Road and connector roads (Bulman Road), is expected to increase due to employee traffic associated with the proposed airside services (i.e., to and from work). To estimate the maximum potential increase in vehicle traffic along Old Vernon Road, the current number of employees/square foot at the largest YLW tenant, KF Aerospace (located west of the runway), was used to estimate the maximum number of employees for the proposed airside operations.

Based on these estimates, there will be a maximum of 780 vehicles per day in the long-term (approximately 45 years based on growth at KF Aerospace). Therefore, it is likely that the number of employees would be significantly less in the short-term. Furthermore, KF Aerospace's operations are labour-based. If the

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proposed airside development was a second fuelling center, it is anticipated that the number of employees would be significantly less than estimated.

KF Aerospace staff members generally work morning or evening shifts. If the same type of shift work is assumed for the proposed airside development, only an estimated 400 staff would be driving to work for the morning shift. There would be overlap during shift change that would likely occur around 4:00 pm with 400 staff leaving work. This would result in a significant increase in traffic during short periods of time, three times a day. Traffic is not expected to increase outside of these times, as it is not anticipated that the operations would be focused on airside activities and would not require travel on Old Vernon Road.

In general, roads throughout the Central Okanagan region are supporting traffic volumes that are increasing with growing farm businesses, escalating tourist traffic (buses and farm tours), and general regional growth (RDCO 2005). Higher traffic volumes in agricultural areas have the potential to increase conflict with slow-moving farm vehicles and make it difficult for farmers to access their farm lands. Roads developed and maintained for agricultural purposes may experience deterioration due to increased volumes, increased weight of vehicles (trucks and buses), and increased speeds. Old Vernon Road is currently maintained by contractors responsible to MOTI.

No effects on agricultural transportation are associated with Parcel 1 as this is an isolated parcel.

The mitigation measures to offset the effects of increased traffic are described in Section 6.4 and will be outlined in a Transportation Management Plan.

#### 5.5 COMPATIBILITY AND PROPERTY SPECULATION

When land uses, such as the proposed airside development, are located in agricultural areas there is an increased potential for land speculation to occur, which tends to reduce the level of active farming and reduce agricultural investment. This is because the perception may be that the Exclusion Area has become more developed and its character is more commercial rather than agricultural. In general, farm properties along the urban-rural fringe (primarily relating to residential development but can include commercial developments) are more likely to be farmed at a lower intensity or held by speculators despite being in the ALR. In addition, agricultural operators on adjacent areas may have complaints related to airside odour or dust, and farmers may experience increased difficulty in farming operations or littering or trespassing by the public. In general, however, when compared to other land use such as residential, commercial/industrial developments often make good agricultural neighbours when compared to residential developments (Metro Vancouver 2014).

Potential speculation of the agricultural areas directly adjacent to YLW is considered low as the City of Kelowna owns most of the adjacent land for future airport development. Speculation may increase for those areas not currently owned by the City of Kelowna that are located adjacent to YLW, if there is a feeling that land zoned for small holdings could be re-zoned as commercial. Conversely, the attractiveness of rural properties may decrease as air traffic increases. Speculation on the small hobby farm located west of

Parcel 1 is considered high as this area will become isolated if the exclusion/non-farm use application is successful. More information on this property is provided in the following section. Speculation in the wider Ellison area is not expected to occur as a result of airport expansion.

The mitigation measures to offset potential compatibility effects are described in Section 6.5.

#### 5.6 SEVERANCE OR ISOLATION

The Exclusion has the potential to further isolate the parcel of agricultural land located west of Parcel 1 from other agricultural areas making it susceptible to speculation, as described above. The property is currently bounded by City of Kelowna/YLW owned land to the north and east, non-ALR land to the south and Highway 97 to the west. This parcel of land was previously part of Parcel 1, prior to Parcel 1 being sold to the City of Kelowna. The area of this parcel of land is approximately 2 ha.

Note that this land is already relatively isolated and that its agricultural viability is therefore considered low. In its current state (without the airport expansion), speculation on this property is considered high given the location next to Highway 97 and YLW. Therefore, the Exclusion is not expected to substantially increase isolation and speculation on this property.

No severance and or isolation effects are expected on any other adjacent areas.

#### 5.7 DEGRADATION OF SOILS ON AGRICULTURAL LAND

There are no plans to use adjacent agricultural lands as temporary work or laydown areas during development of the Exclusion Area, because there is adequate space for such activities on existing YLW property. Therefore, no effects on agricultural soils outside the Exclusion Area will occur.

The mitigation measures to reduce the potential for degradation to agricultural soils are described in Section 6.7.

#### 5.8 TEMPORARY LOSS OF FARM INFRASTRUCTURE (FENCING)

During construction, some existing fences in the Exclusion Area will need to be removed. Agricultural fencing is not only important for livestock protection, but also helps to deter trespassing, vandalism, theft, and dumping. If fencing is not reconstructed in a timely manner or to discourage public access, there is potential for farm operations to be negatively affected.

The mitigation measures to reduce effects of fencing removal are described in Section 6.8.

# **6 Mitigation Strategies**

The following mitigation measures are intended to offset the effects on agriculture in the Exclusion Area, as described in Section 5. The effects and mitigation strategies are summarized in Table 6-1

Table 6-1
Summary of potential effects and mitigation measures

Potential Effects	Mitigation Strategies		
Loss of Agricultural Land	Salvaging topsoil for ALR use outlined in a Topsoil Management and Enhancement Plan		
Loss of Agricultural Revenue	<ul> <li>Farm to Table program at YLW</li> <li>Wine/craft beer/distillery themed bar at YLW</li> <li>Air cargo services for export of local produce</li> <li>Agri-business advertising at YLW</li> <li>Support of agri-tourism by arriving visitors</li> <li>Foreign farm workers arriving directly via YLW (e.g. Mexico City to Kelowna, direct)</li> </ul>		
Disruption of Drainage and Irrigation	<ul> <li>Storm water Management Plan</li> <li>Sediment and Erosion Control Plan</li> <li>Spill Management Plan</li> <li>Limit water main construction to off-peak irrigation season</li> <li>Improvements to Mill Creek at Bulman Road</li> </ul>		
Farm Access and Transportation	Transportation Management Plan for Old Vernon Road		
Compatibility and Property Speculation/ Fencing	<ul> <li>Installation of perimeter fencing along areas adjacent to agricultural land (south)</li> <li>Installation of landscape buffers that minimize conflicts between urban and agricultural uses.</li> </ul>		
Severance or Isolation	• n/a		
Degradation of Soils	<ul> <li>No laydown or temporary work areas in agricultural zones</li> <li>Implement erosion and sedimentation control plans during development</li> <li>Implement a customized Spill Management Plan</li> </ul>		

#### 6.1 LOSS OF AGRICULTURAL LAND

Ideally, any agricultural land losses in the ALR would be compensated for by adding the same amount of similar or better capacity land back into the ALR. This compensation is not considered feasible because of the lack of suitable non-ALR land in Kelowna and the Ellison area. However, the mitigation strategies outlined in the next section (Section 6.2 Agricultural Revenue) would offset future potential lost revenue that would occur as the result of the projected agricultural land loss. As noted earlier, the land is not currently being farmed, so no farm revenues are being generated.

To further help offset loss of agricultural land, topsoil will be salvaged from the Exclusion Area and used to enhance soils on other nearby agricultural lands in the ALR. Surplus topsoil from the Exclusion Area can be used to improve soil fertility on sites with shallow topsoil and poor nutrient status and to improve drainage by lowering the water table (in imperfectly drained areas), thereby increasing crop yields and revenue.

Several areas in the Ellison area have been identified as candidate sites for improvements based on published soil mapping information (Appendix B). These areas are generally composed of Knox and Rutland soils which typically have shallow topsoil and/or poor fertility status.

A detailed Topsoil Salvage and Enhancement Strategy will be developed to ensure that topsoils are used within the ALR to enhance low fertility soils. The strategy will include the following requirements:

- Handling of topsoils will be minimal to avoid potential soil degradation and should be delivered to agricultural lands as soon as possible (avoid stockpiling if possible).
- Gravelly and non-gravelly salvaged soils will be managed separately.
- Farmers will be identified prior to soil salvaging to ensure that soils can be placed in the ALR and used to improve agricultural capability.
- Farmers in the vicinity of the Airport will be given priority over farmers in other agricultural areas of Kelowna.

Estimated topsoil volumes based on the field investigation and published maps are outlined in Table 6-1 and are categorized by soil texture.

Table 6-2
Topsoil volumes in the Exclusion Area

Parcel ID	Silt Loam	Clay Loam	Gravelly, Sandy Loam
Parcel 1	17,000 m <sup>3</sup>	-	-
Parcel 2	-	1,800 m <sup>3</sup>	800 m <sup>3</sup>
Parcel 3	-	-	7,600 m <sup>3</sup>
Parcel 4	-	-	7,600 m <sup>3</sup>
Total volumes	17,000 m <sup>3</sup>	1,800 m <sup>3</sup>	16,000 m <sup>3</sup>

#### Notes:

Topsoil volumes will be refined once earthworks commence

Disturbed areas (occupied by the farm homeplate) were not included in these calculations.

#### 6.2 LOSS OF AGRICULTURAL REVENUE

Economic losses can partly be mitigated or offset by improving the agricultural productivity and/or viability of existing farm parcels that are currently underutilized. This includes salvaging topsoil from permanent disturbance areas to be used in areas as described above. In addition, there are opportunities to support the agri-tourism industry through programs at YLW. YLW has a long history of supporting and promoting agricultural initiatives. Existing initiatives include:

- Okanagan Estate Wine Cellar, which is located in the departures areas and offers a broad selection
  of wines exclusively from Okanagan wineries with complimentary packing in custom carry-on
  packages.
- Supporting agriculture and agri-tourism by providing signage opportunities in the terminal and on the main roads entering the Airport (e.g. Farm to Table, Wine Trails, Mission Hill, BC Apples and the Okanagan Bucket List)
- Sponsorship and/or partnership with local organizations or special events (e.g. Mile High Wine and Music Promo Pour)
- Promoting agri-tourism opportunities and products in YLW Connect, YLW's free magazine.

Kelowna Airport will continue to support local agri-business through these programs, but proposes to implement new services to further promote agri-business in the Okanagan. Two key initiatives planned for the future include:

- Providing a retail fruit kiosk beyond the security point with carry-on fruit boxes that are made-to-fit under airplane seats or in overhead compartments (Farm to Flight); and
- Building a wine, craft beer and distillery themed bar in the departures area that will serve Okanagan-based products.

More details about these services are provided in Kelowna International Airport Supporting Growth and Sustainability for Agriculture and Agri-Tourism document (Appendix C).

In addition, potential increased cargo services resulting from the proposed airside development would be able to provide local farmers with the capacity to deliver produce directly to export markets, particularly cherries. As stated above, export is vital to agri-business and cherry producers in the region. Currently, all cherries that are exported by air to overseas markets are loaded onto refrigerated trucks and transported to Vancouver International Airport. The proposed airside development would provide capacity for air transport directly from YLW to overseas markets as the volume of exports grows. The close proximity of this facility to major cherry producers (including the Sandhers family who are located directly across the proposed airside development) is considered a significant benefit to agricultural producers, particularly cherry producers, in the Okanagan region. With airport expansion, there is also the potential for additional direct flights from Mexico to YLW which may improve accessibility for seasonal farm workers to the Okanagan and reduce the costs incurred by farmers for transporting workers.

The combination of additional agri-business services at YLW, proposed cargo services, and improved access to seasonal farm workers will provide a net benefit to agriculture in the region. These are expected to offset any losses as a result of the Exclusion and have the potential to contribute significantly to agricultural revenues in the Central Okanagan.

#### 6.3 DRAINAGE, IRRIGATION AND WATER QUALITY

To minimize potential effects on drainage, stormwater best management practices will be implemented during and after construction in the Exclusion Area to ensure that the development does not adversely affect drainage in the surrounding agricultural area (i.e., result in ponding or standing water or impede flow of water into Mill Creek). Any water main construction will take into consideration the peak irrigation season to avoid disruption of irrigation. A Stormwater Management Plan will be developed prior to construction.

Additionally, the City of Kelowna has identified a number of storage and diversion options to mitigate issues related to flooding in the Upper Mill Basin. The City of Kelowna is committed to working towards a program of culvert improvements, in-channel upgrades, and hydraulic improvements to alleviate occasional flooding in the Upper Mill Basin related to the current and future conditions.

An Erosion and Sedimentation Control Plan will be developed to ensure that irrigation water quality is not affected during construction. In general, standard sediment and erosion control measures will be implemented to reduce the risk of sediments entering surface water watercourses that may be used for irrigation purposes.

YLW's spill and environmental emergency response plans will be updated to reflect the planned development on the Exclusion Area lands.

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If improvement to Mill Creek and standard best management practices are implemented and followed through construction and operation, no negative effects on water quality as it pertains to agriculture are expected to occur.

#### 6.4 FARM ACCESS AND TRANSPORTATION

To minimize effects on agricultural transportation, particularly in the Ellison area, Kelowna Airport will work with the RDCO/City of Kelowna and MOTI to devise a practical Transportation Management Plan specific to Old Vernon Road and connector roads (Bulman Road). Components of the Plan will include transportation objectives that are outlined in both the Kelowna Agricultural Plan and RDCO Agricultural Plan. These include:

- Monitoring traffic volumes in and around Old Vernon Road and considering road improvements where high traffic volumes impede agricultural operations;
- Reviewing signage on rural roads, and where appropriate, installing farm vehicle signs; and
- Expanding information signs, warning travellers of slow moving vehicles.

In addition, Kelowna Airport will consult with farmers to indicate when peak traffic is expected so that they can schedule activities to avoid potential conflict. Kelowna Airport will also work with airside businesses to educate business owners and employees about the potential impact on farm operators in the area by:

- Encouraging staff to carpool to reduce traffic volumes on Old Vernon Road; and
- Educating Airport staff about agricultural traffic specifically, hidden driveways, agricultural trucks turning, slow moving farm traffic, spray drift, and farm equipment crossings.

The proposed traffic management strategies are expected to offset any potential transportation effects on farm operators along Old Vernon Road and the Ellison Area. Therefore transportation effects are considered negligible.

#### 6.5 COMPATIBILITY AND PROPERTY SPECULATION

To mitigate potential compatibility effects with adjacent agricultural, land visual buffers may be installed along areas abutting agricultural land to enhance the rural feel of the areas adjacent to the Exclusion Area, where appropriate. Visual buffers will only be installed if they comply with Transport Canada guidelines (i.e., do not increase wildlife hazards and do not disrupt runway sight lines). The need for visual buffers will be determined based on consultation with landowners affected. Private property signage will also be posted along areas adjacent to agricultural areas to discourage littering and trespassing. Visual buffers, such as vegetated buffers, would be designed to standards as outlined in the City of Kelowna and RDCO Agricultural Plans relating to agricultural edge planning. Any vegetative buffers would be installed on the non-agricultural lands so as not to interfere with agricultural operations.

#### 6.6 SEVERANCE OR ISOLATION

Mitigation measures relating to speculation/isolation are not required as there are no severance and or isolation effects on adjacent agricultural areas.

#### 6.7 DEGRADATION OF SOILS ON AGRICULTURAL LAND

The following mitigation measures are recommended to reduce the potential for degradation to agricultural soils during construction:

- Temporary laydown areas must not occur on agricultural lands. All temporary laydown areas will be located on non-ALR land or land slated for development.
- Topsoil should be salvaged in construction areas and used in other areas of the ALR, according to the Topsoil Salvage and Enhancement Strategy describe in Section 6.1
- Incorporate erosion and sedimentation control strategies to reduce wind and water erosion.
- Develop a spill plan to prevent accidental spills and contamination.
- A qualified professional should be responsible for monitoring soil salvaging activities or any earthworks on agricultural lands to prevent residual disturbance.

If these mitigation measures are implemented, then residual adverse effects on soils are not expected when compared to the baseline conditions.

#### 6.8 FENCING MITIGATION MEASURES

Kelowna Airport will replace any agricultural fences that may be impacted as a result of the YLW expansion. The following best management practices for fence replacement will be implemented:

- Existing fencing will be moved just prior to construction and replaced to meet farm requirements.
- Consult with individual farmers of properties bordering the Exclusion Area who have livestock or horses (i.e., polo field to the south of the Exclusion Area), prior to installing the new and/or replacement fencing to ensure that the appropriate fence is installed to maintain both livestock and public safety. Fencing may have to be placed prior to the start of construction.

As long as existing fences are replaced and heights of any new fences are adequate, then issues dealing with fencing and compatibility (public access and security) are considered negligible and residual effects are not expected.

### 7 Residual Effects

Residual effects for agricultural land loss related to this ALR application remain despite the mitigation strategies outlined in Section 6. Net losses of useable ALR land as a result of the application will total about 9 ha when the Transport Canada guidelines for safety are applied. Ideally, any ALR losses would be compensated for by adding the same amount of similar or better capacity land to the ALR. This compensation is not considered feasible because of the lack of suitable non-ALR land in the region. However, the mitigation strategies outlined in Section 6.1 (Topsoil Enhancement Strategy) and 6.2 (Economic Mitigation) would offset potential future lost revenue caused by the application. The proposed cargo services would also provide producers (particularly cherry producers) in the Okanagan with the opportunity to export more produce to international markets. This has the potential to increase agricultural net revenues in the Okanagan. With this level of mitigation, the net loss of 9 ha of land from the ALR is not considered significant.

## 8 Cumulative Effects

Cumulative effects measure the potential effects of a project (primarily ALR exclusions) in combination with other past, present and future projects. Cumulative effects assessment considers the effects due to other projects and the thresholds where negative effects outweigh positive effects, or create a negative feedback loop.

Exclusion applications in the Central Okanagan, specifically in Kelowna, are not very common, although pressures for non-farm use are on the increase. According to the City of Kelowna website, there are 20 active ALR applications within the boundaries of the City of Kelowna with only two exclusion applications (one which is for Parcel 1, which was put on hold and is now part of the current application). The ALC also reports all applications as part of their annual reporting. A review of the annual reports over the last seven years indicates that on average approximately 8.1 ha (net of inclusions) of land are removed from the ALR annually in the Central Okanagan (ALC 2009-2015):

- 2014-2015 0 ha excluded
- 2013-2014 55 ha excluded
- 2012-2013 8 ha excluded
- 2011-2012 0 ha excluded
- 2009-2011 23 excluded, 29 included

The future expansion (i.e. beyond the 5 year plan described in this report) may impact the ALR within the Central Okanagan (particularly in the City of Kelowna). According to the 2045 Airport Master Plan (Appendix D, slide 20), in addition to the parcels identified in this AIA, Kelowna Airport proposes to eventually develop other lands adjacent to the Airport including High Noon Park, Ellison Dog Park, and part of the adjacent agricultural parcel for airside development. The areas slated for future airside and groundside development (beyond the 5 year plan) are all currently owned by the City of Kelowna. In all, the proposed development may require the use of an additional 27 ha and of land from the ALR (Table 8-1).

Table 8-1
Future Proposed ALR Exclusion Areas associated with future Airport expansion (i.e. beyond five years)

PID	Address	Legal Description	Area		Current Use
			Acres	Hectares	
011-518-146	5525 Airport Way	Plan# KAP1505, Lot 6, Section 14, District Lot 32, Township 23	12.7	5.15	Vacant Airport land (forested land between the federal lands and Llama farm)
009-458-921	4680-4720 Old Vernon Road	Plan# 11796, Lot 1	54*	22*	Park and agriculture
Total			66.7	27.15	

<sup>\*</sup>Approximate areas

High Noon Park and Ellison Dog Park are both currently used for non-farm uses. High Noon Park is currently zoned as P3 (parks and open space) and appears to have been filled to level out the field to accommodate a parking lot and six baseball diamonds. Given this status, it would therefore be difficult to reclaim this back to agricultural land. However, Ellison Dog Park could feasibly be converted back to agricultural use. Thus the total net loss is calculated to adjust for land that is no longer considered agriculturally viable (excluding the Transport Canada buffer zone and High Noon Park) to approximately 17 ha of land.

In addition to this future Airport expansion, it is understood that Westbank First Nation is also proposing to develop a site located to the south of YLW for industrial lands, subject to land use authorizations. The project team is currently not aware of any other large scale exclusions that are proposed in the Central Okanagan region.

Although 22 ha total loss (or 9 ha net loss) is more than the average net loss of 9 ha (annually from the ALR), the cumulative effects of the Exclusion, in combination with other exclusion projects (including future potential expansion at YLW – approx. 17 ha net), are negligible because the Exclusion Area is not being farmed and there is a low probability that it will be because of the safety buffer. The Kelowna Airport recognizes, however, that the planned reduction in ALR land to enable development is a concern, and will commit to the implementation of the mitigation measures and agricultural enhancement strategies described in this report.

## 9 Alternatives to Airside Development in the ALR

The only land available for airside development necessary to support the growth at YLW, is on the east side of the runway on lands located in the ALR and zoned for agriculture. The only land that currently has airside access is on the west side of the runway, directly to the north of the terminal building. This land is already fully developed and leased to airside tenants. The lands to the west, between the old Okanagan rail and Highway 97 could not be developed as airside as it does not have direct access to the runway. One tenant of the current airside development on the west side of the runway received a special exemption to tug planes across to the groundside land, but the maintenance and work performed takes weeks per plane, so planes are not being tugged frequently. This sort of set-up would not be conducive to the types of airside tenants that would require direct 24-hour access to the taxiway, as proposed for the new airside development.

The land directly south of the terminal building and adjacent to the runway, is planned to be used for further expansion of the terminal complex, apron and taxiway as the only direction the terminal complex can expand is to the south.

Therefore, alternatives to the Exclusion are not considered feasible. However, when developing the 2045 Master Plan, Kelowna Airport looked at options for reducing effects to agricultural land. Compared to the 2025 Master Plan (Appendix D, page iii), the effects on one of the agricultural parcels on Old Vernon Road (part of the long-term proposed airside development) were reduced.

## 10 Conclusions

The Kelowna Airport commissioned Associated to complete an Agricultural Impact Assessment (AIA) for the proposed expansion of the Kelowna Airport on four agricultural properties located in the ALR (the "Exclusion Area").

The results of the AIA indicate that the exclusion of ALR land will result in the loss of approximately 22 hectares (ha) of Class 2 and 3 agricultural lands (improved rating). Much of this land is not being farmed because of Transport Canada's buffer zones for airports, so the land that can practically be used for farming is approximately 9 ha of land. Ideally, any ALR losses would be compensated for by adding the same amount of similar or better capacity land to the ALR. This compensation is not considered feasible because of the lack of suitable non-ALR land. Therefore other mitigation measures such as topsoil enhancement and promoting agri-business at YLW, and the proposed cargo services that will provide more market opportunities for local producers will be implemented to offset negative effects to agriculture. Furthermore, management practices and careful planning and monitoring during design, construction and operations will ensure that potential negative effects to agriculture are minimized.

If all of the mitigation measures and strategies, as described in Section 6, are implemented, then the residual adverse effects on agriculture are likely to be small. Cumulative effects of the Exclusion, in combination with other potential exclusion applications (including future potential expansion of YLW), are negligible because the Exclusion Area is not being farmed and there is a low probability that it will be because of the safety buffer. Despite this, Kelowna Airport is committed to the mitigation measures and enhancement strategies outlined in this report to offset the projected long-term loss of ALR land.

## REPORT

## 11 Closure

This agriculture impact assessment is intended to assess the potential effects on agriculture and discuss mitigation measures from the proposed expansion of the Kelowna Airport. Any decisions that may be derived from this report will be just one of several sources of information that local governments and the ALC will use to make their decision regarding the proposed extension.

We trust that you will find the report satisfactory. If you have questions or comments, please call me at (604) 293-0195.

Yours truly,

Katarina Glavas, P.Ag.

Associated Environmental Consultants

Agrologist

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Reviewed by

Hugh Hamilton, Ph.D., P.Ag.

**Associated Environmental Consultants** 

Senior Environmental Scientist

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## **REPORT**

## **Appendix A – Terms of Reference**



## Agricultural Impact Assessment Terms of Reference (TOR)



#### 1. Introduction

The City of Kelowna Development Application Procedures Bylaw (Bylaw No. 10540) establishes that the Director, Land Use Management may require the applicant to provide information on, and a systematic detailed assessment of, the proposal to assist the City's decision making. As such, an Agricultural Impact Assessment (herein after referred to as the "Assessment") will be required to determine if a development proposal will adversely affect existing and future agricultural activities onsite and/or in the area surrounding the proposed development or change in land use.

An Assessment <u>is not</u> a soils assessment. An Assessment <u>is</u> a comprehensive consideration of the potential for agricultural production in all of its forms; along with a prediction of likely outcomes (both positive and negative) as a result of the proposed development. An Assessment typically includes a soils analysis.

Assessments will normally accompany applications under the <u>Agricultural Land Commission Act</u> (i.e. exclusion, subdivision, or non-farm use) in addition to applications to amend the City's <u>Official Community Plan</u> or <u>Zoning Bylaw</u> where the land is presently zoned for agriculture. Assessments may also be required when seeking approval for residential uses (e.g. Additional Dwelling for Farm Employee or Temporary Farm Worker Housing) on land zoned for agriculture.

#### 2. Selection of Personnel

Assessments are to be prepared and/or coordinated by one or more "Qualified Professionals (QPs)" as necessary. The number and qualifications of individuals involved will be site/context dependent. For this purpose, a "Qualified Professional" is typically a Professional Agrologist (P.Ag.) registered in British Columbia.

Assessments will be prepared, signed and sealed by the QP(s), unless otherwise approved by the Director of Land Use Management. Where information or expertise are required outside of an individuals professional competencies, additional QP(s) will be required. In these cases, the submission must be signed and sealed by each contributor.

Consistent with the BCIA <u>Code of Ethics</u>, QPs must only provide service in areas of their professional competence, and practice within the limits of their training, ability, and experience.

#### 3. Consultation with City Staff

The information contained within these TOR is intended as a general guide only and is not a comprehensive list of requirements. Each Assessment should be site specific and is likely to be unique in the information required. The QP is therefore advised to work with City staff to review and confirm a site specific TOR prior to commencing work on the Assessment. In some instances (i.e. smaller developments, or those with little or no perceived impact) it may only be necessary to assess a few of the issues contained herein. In larger or more complex proposals, the applicant may be required to address considerations not identified herein.

Every effort will be made to clarify the requirements in the early phases of each development application. It is the responsibility of the applicant to confirm the TOR for the Assessment prior to undertaking the Assessment.

## 4. Key Policy Considerations

In preparing an Assessment, the QP should consider how the proposal meets or does not meet City policy including, but not limited to the Official Community Plan as follows:

- Protect Agricultural Land. Retain the agricultural land base by supporting the ALR and by protecting agricultural lands from development, except as otherwise noted in the City of Kelowna Agricultural Plan. Ensure that the primary use of agricultural land is agriculture, regardless of parcel size.
- ALR Exclusions. The City of Kelowna will not forward ALR exclusion applications to the ALC except in extraordinary circumstances where such exclusions are otherwise consistent with the goals, objectives and other policies of this OCP. Soil capability alone should not be used as justification for exclusion.
- **Urban Uses.** Direct urban uses to lands within the urban portion of the Permanent Growth Boundary, in the interest of reducing development and speculative pressure on agricultural lands.
- Agri-tourist Accommodation. Agri-tourist accommodation will only be approved and operated in a manner that supports agricultural production and which limits the impact on agricultural land, City services and the surrounding community.
- Non-farm Uses. Support non-farm use applications on agricultural lands only where approved by the ALC and where the proposed uses:
  - are consistent with the Zoning Bylaw and OCP;
  - provide significant benefits to local agriculture;
  - can be accommodated using existing municipal infrastructure;
  - minimize impacts on productive agricultural lands;
  - will not preclude future use of the lands for agriculture;
  - will not harm adjacent farm operations.
- Subdivision. Maximize potential for the use of farmland by not allowing the subdivision of agricultural land into smaller parcels (with the exception of Homesite Severances approved by the ALC) except where significant positive benefits to agriculture can be demonstrated.
- Housing in Agricultural Areas. Discourage residential development (both expansions and new developments) in areas isolated within agricultural environments (both ALR and non-ALR).
- Farm Help Housing. Accommodation for farm help on the same agricultural parcel will be considered only where:
  - agriculture is the principal use on the parcel, and
  - the applicant demonstrates that the additional housing is necessary to accommodate farm employee(s) whose residence on the farm property is considered critical to the overall operation of the farm. The primary consideration is whether the scale of the farm operation is large enough that permanent help is deemed necessary.

Temporary farm worker housing (e.g. bunkhouse accommodation on non-permanent foundations) is the preferred solution where the need for farm worker housing is justified.

- Homeplating. Locate buildings and structures, including farm help housing and farm retail sales area and structures, on agricultural parcels in close proximity to one another and where appropriate, near the existing road frontage. The goal should be to maximize use of existing infrastructure and reduce impacts on productive agricultural lands.
- Public Use. Discourage the use of agricultural lands for public or institutional uses such as schools, parks and churches except as identified in the OCP.
- Service Corridors. Minimize the impact of penetration of road and utility corridors through agricultural lands, utilizing only those lands necessary and to the maximum capacity prior to seeking new corridors. Provision should be made for farm traffic to cross major roads.

## 5. Professional Standards

- 5.1. One (1) original signed and sealed Assessment must be retained on file (a photocopy signature and seal will not be accepted). The person or corporation who prepared the Assessment must be identified along with the person or corporation who requested and funded the Assessment.
- 5.2. The Assessment must include the following information:

- All personnel working on the project and their contributions.
- A 1-page biography or C.V. of each professional and technical staff contributing to the results, interpretations and recommendations as an addendum.
- The level of effort in terms of personnel and time spent on site evaluations must be clearly stated including the time of year and length of site evaluations.
- 5.3. The Assessment must conform to all municipal bylaws and plans, provincial and federal legislation, regulations, standards and best practices.
- 5.4. Site conditions likely to be absent during the period of evaluation need to be documented and assessed by appropriate alternative methods.
- 5.5. The Assessment must reflect the site conditions prior to the proposed disturbance and the anticipated site conditions post-development.
- 5.6. The Assessment must acknowledge off-site developments (both existing and those permitted by current regulations) and the impact these developments may have on the subject property.
- 5.7. The Assessment should reflect an "Avoid Mitigate Compensate" approach to negative impacts. Mitigation should be considered where it has been determined that negative impacts cannot be avoided. Where impacts can neither be avoided or mitigated, QPs should identify appropriate compensation measures to ensure no negative net impacts and ideally a positive net impact.
- 5.8. The Assessment should account for "cumulative effects". Cumulative effects are changes that are caused by an action in combination with other past, present and future actions. Cumulative effects assessment considers the effects due to other projects and the thresholds where negative effects outweigh positive effects, or create a feedback loop.
- 5.9. Methods used in the Assessment must be repeatable and based on agency and/or scientific standards appropriate the landscape being assessed. All data and non-standard methods contributing to the results, interpretations and recommendations contained in the Assessment must be included as appendices.
- 5.10. Any past Assessments for the subject property or a portion thereof must be identified and their relevance/usefulness in completing this Assessment noted.

#### 6. Basic Assessment Requirements

- 6.1. Briefly outline the history, type and extent of agricultural operations on the subject property (vegetative & crop cover, agricultural buildings, etc.), including recent changes.
- 6.2. Describe the soil types and agricultural capability of the land using best available secondary data (e.g. Canada Land Inventory, Terrestrial Ecosystem Modeling, etc.) for the subject property.
- 6.3. Describe adjacent land uses including the location and description of the type and intensity of surrounding agricultural and non-agricultural land uses.
- 6.4. Describe any non-agricultural land uses and indicate conflicts with existing and potential onsite agriculture. If agriculture is no longer taking place on the subject property and/or area, outline the limiting factor(s) and provide an estimate of barriers, if any, to re-establishing farming on the subject property and/or portion of the subject property under consideration. Current commodity prices and/or input costs should not be used as a barrier to production.

- 6.5. Describe the proposed use and its compatibility, or incompatibility within an agricultural area and potential to cause secondary impacts. A determination of the types and extents of potential impacts that may result from the proposed development should be identified.
- 6.6. Where the principal justification for the proposal is based on soil or land limitations, primary investigation of soils is required. In this case, the QP will ensure that the sample locations and number of pits/samples provides for a representative understanding of the subject property or area being considered.
- 6.7. Identify and describe site and soil improvements completed in the past (e.g. drainage, irrigation, contouring).
- 6.8. Identify and describe future site and soil improvements that are, or may be possible. Provide an estimate of the costs to undertake the improvements and a cost/benefit analysis of each.
- 6.9. Examine possible alternative sites for the intended use that would avoid or lessen agricultural impacts (i.e. urban areas/industrial areas). If no alternative sites can be identified, the Assessment should include a determination of mitigative actions that would be required if the proposal were to proceed (i.e. confining the development to areas with the least productive soils and/or terrain).
- 6.10. Estimate the value in the long term, of the loss of any agricultural production and mitigative measures to offset the loss.
- 6.11. Assess the flexibility of the site for different types of agricultural operations (alternatives). A feasibility & capacity assessment must consider each available opportunity for the following at a minimum:
  - anticipated barriers or constraints;
  - the area potentially affected;
  - the estimated development (capital) costs; and
  - the estimated annual return.
- 6.12. Assess the degree to which the proposal will sever or fragment agricultural land and describe/quantify the impact.
- 6.13. Consider the impact of the proposed use on drainage (on site and neighbouring properties).
- 6.14. Consider the impact of traffic (vehicular, pedestrian and cycling) of the proposed use to determine if proposed traffic volumes will impede farmers moving vehicles between fields and if recreational traffic will be kept out of agricultural land.
- 6.15. Examine and report on what it would take to develop the site for:
  - Crops and by-products that would be new to the site and area;
  - Non-soil based agricultural options (i.e. vegetable or nursery greenhouse, etc.); and
  - Accessory farm uses (i.e. B&B, agri-tourism, on-farm processing, on-farm retail).
- 6.16. Examine and report on alternative financial models for farming and their appropriateness to this site such as:
  - Leasing to other farmers;
  - Joint ownership by two or more farmers;
  - Community supported agriculture;
  - Leased garden plots for urban residents; and
  - Other.

- 6.17. Farm Home Plate Assessments triggered by site development for residential uses on A1 zoned land should include a recommendation for the suitable location for the farm home plate. The farm home plate must be sited so as not to have a negative effect on the existing agricultural operation or potential for future agricultural operations.
- 6.18. Agricultural Worker Dwellings Assessments triggered by site development of Agricultural Worker Dwellings (including temporary) should indicate the "need" for the additional dwelling onsite and why farm help cannot be accommodated offsite, along with the net benefit to agriculture.

#### 7. Data Deliverables

- 7.1. Site description including legal description (i.e. lot & plan number, etc.), OCP designation, Zoning category, and Agricultural Land Reserve (ALR) status should be illustrated on the location map or stated at the outset of the assessment. For large parcels, UTM coordinates of the site location where specific works will occur may be required.
- 7.2. Location Map at an appropriate scale (1:20,000) indicating the regional setting. This information should be overlaid on the most current cadastral map.
- 7.3. Site Map(s) at an appropriate scale (minimum 1:200 and maximum 1:5,000) indicating the layout of the project components and activities. This information should be overlaid on the most current cadastral map outlining surrounding property boundaries. Map legends should show clear descriptions of all symbols used as per provincial standards.
- 7.4. Cross sections in sufficient number to demonstrate terrain conditions prior to the proposed site disturbance and intended conditions post-development. A topographic survey must show natural slope contours (at appropriate contour levels e.g. 1 or 5 m) and the post-development contours.
- 7.5. Site Plans/sketches/colour photographs indicating the project location, site features and activities should be indicated with relation to easily identifiable landmarks such as those found on accompanying maps.
- 7.6. Appropriate referencing of all image and data sources, with a clear indication of the date of when the information was obtained.
- 7.7. Final Submission shall include the following at a minimum:
  - 1 colour hard copies.
  - 1 digital copy in .pdf format and unprotected.
  - Maps should be printed on 8-1/2 x 11 or 11 x 17" paper as appropriate and to scale.
  - Where available, digital copies of supporting information should be provided in a format compatible with the ESRI platform (shapefiles) in NAD83 UTM Zone 11.

#### 8. Incomplete or Deficient Assessments

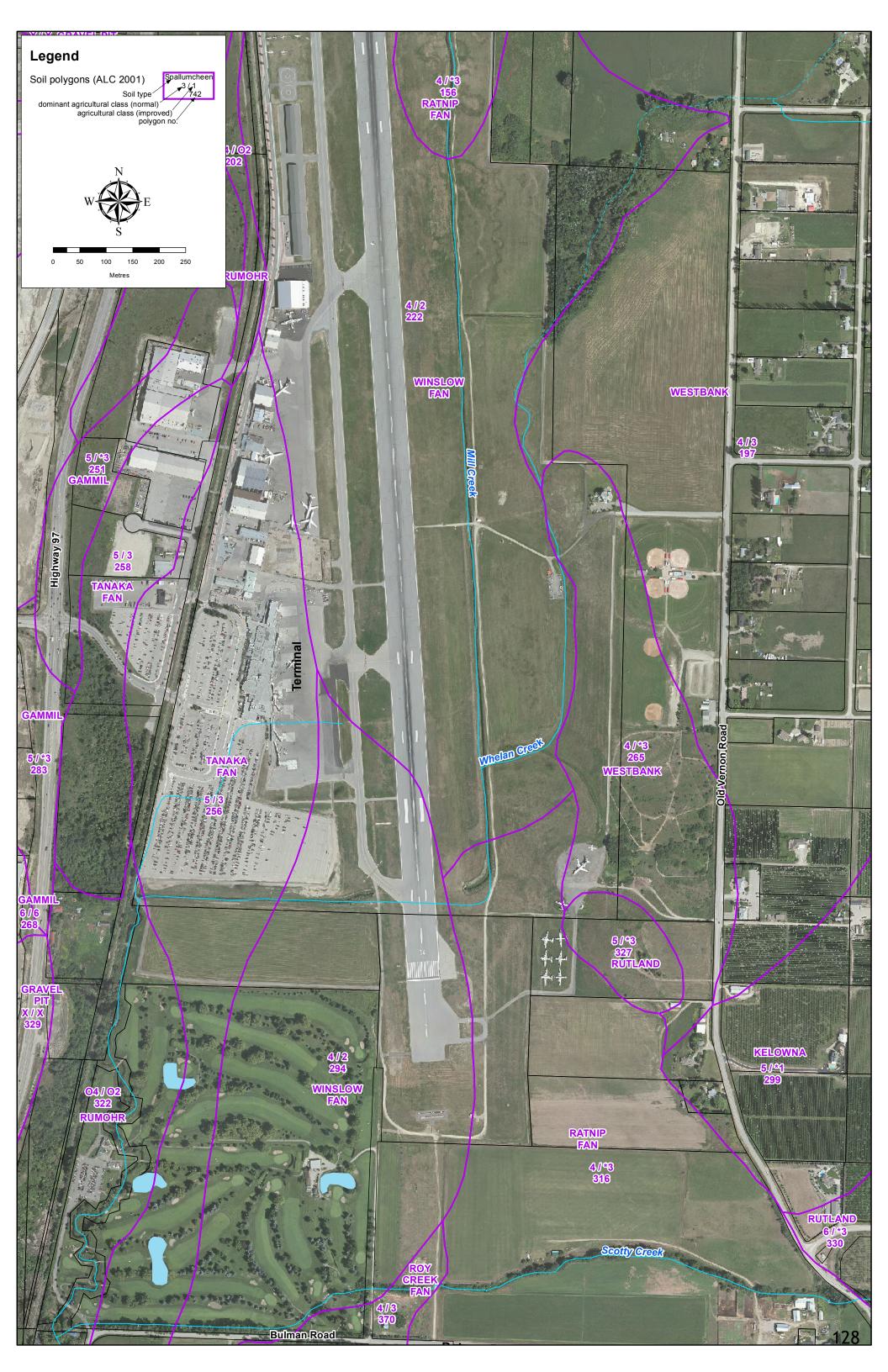
If it is determined by the Director, Land Use Management, that an Assessment is incomplete or deficient, the applicant will be notified in writing the nature of deficiencies.

## 9. Third Party Review

The City of Kelowna reserves the right to seek a third party review of the Assessment submitted. If necessary, the third party reviewer will be a mutually acceptable QP and the cost of the review shared equally among the applicant and municipality.

## **REPORT**

# **Appendix B – Soils and Agricultural Capability Investigation**



## **REPORT**

Appendix C – Supporting Growth and Sustainability for Agri-tourism – City of Kelowna



## Kelowna International Airport

Supporting Growth and Sustainability for Agriculture and Agri-Tourism

## Kelowna International Airport (YLW) Links Travellers with Okanagan Valley Agriculture and Agri-Tourism

Surrounding YLW is the vibrant agricultural landscape that the Okanagan Valley is renowned for. The unique landscape, environment and climate are primary decision makers when people choose to visit and relocate to the Okanagan Valley.

Being the 11<sup>th</sup> largest airport in Canada, with 1.6 million passengers passing through its doors in 2015, YLW provides travellers with the ability to access the Okanagan Valley from a variety of provincial, national and international locations.

Without YLW, access and exposure to the Okanagan Valley and its agriculture-based businesses and agri-tourism would be significantly restricted.

**Busiest Airport in British Columbia** 

1th Busiest Airport in Canada

1.6 Million passengers



## YLW's Economic Impact

YLW's 2015 Economic Impact Study has estimated that the airport's direct economic impact is \$152 million in GDP, \$83 million in direct wages and 1,411 jobs. These represent increases of 27,19 and 9 per cent, respectively, over the 2010 Economic Impact Study.

In addition to the direct economic impact that YLW has on the Okanagan Valley, the Economic Impact Study estimated that, including its contribution to Okanagan tourism, YLW's total economic impact is 4,545 jobs and \$789 million in total economic output to the province of British Columbia.

It is safe to say that a significant portion of the indirect, induced and catalytic economic impacts are positively affecting the Okanagan Valley's agricultural-based industries and agri-tourism, resulting in positive and lasting outcomes for the regional economy.

## Employment by:

- Airport itself
- Airlines
- Fixed-Base Operators
- Airport Tenants

Indirect Impact

## Employment created by improved connectivity:

- Tourism
- Conventions & Conferences
- Exports
- Business Relocations
- Foreign Direct Investments

### **Direct Impact**

Catalytic Impact



## Employment by:

- Travel Agencies
- Hotels & Restaurants
- Retail
- Agriculture

Induced Impact

Jobs created through spending by workers directly or indirectly employed by the airport

## YLW Supports Okanagan Valley Agriculture and Agri-Tourism

YLW community partners have established programs to assist in the growth of the agri-tourism sector, including:

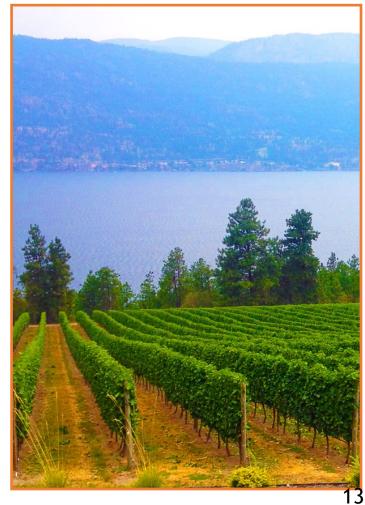
**Farm to Table**, which provides visitors with an opportunity to tour a local farm and enjoy a delicious meal made from fresh, local products.

Wine Trails provides visitors with maps of the many wineries located throughout the Okanagan, allowing visitors to easily guide themselves from winery to winery while enjoying local beverages and food.

Okanagan Bucket List is a list highlighting four iconic experiences unique to the Okanagan, one of which is Mission Hill Family Estate Winery.

YLW recognizes the importance of agriculture and agri-tourism as an economic driver for both the Okanagan Valley and the airport. YLW has been active in supporting the local agri-tourism economy by identifying opportunities to highlight the sector to travellers, partnering with local agri-tourism businesses and involving community partners wherever possible.

Some recent examples are highlighted on the following pages.



## Retail Initiatives at YLW



The Okanagan Estate
Wine Cellar is located in

the departures area of YLW and offers a broad selection of wines, exclusively from Okanagan wineries, with complimentary custom carry-on packages. Providing this service to passengers eliminates the worry of wine bottles breaking in checked bags during transit and provides a convenient carry-on option to purchase wine once clearing security. The shop also provides wine tastings for passengers during high traffic periods.



YLW is in the process of renovating its Departures

Lounge, and future development plans include a wine, craft beer and distillery themed bar.

This will provide travellers with the ability to try local wines, craft beer and distillery products while waiting to board their flight. If they find something they enjoy, they will have the option of walking next door to the Okanagan Estate Wine Cellar to purchase a bottle or two to take home. Construction of the bar is anticipated to be complete by the end of 2018.



YLW's Gifts of the Okanagan Departures

Lounge gift shop provides travellers with the opportunity to purchase various pieces of art. The airport's partners at Suk'wtemsqilxw West Kelowna Arts Council have curated both Aboriginal and non-Aboriginal artworks from Okanagan Valley artists, many of which are agriculture related.

Okanagan



YLW has partnered with De Simone Farms, a local produce distributor that Farm to Flight

grades and packages local fruit, in order to provide passengers with fresh, in-season produce that they can take home with them. The produce, consisting of various in-season fruits, will be packaged in specially designed boxes that will fit easily under airplane seats or in overhead compartments to ensure the fruit arrives at its destination in perfect condition. Farm to Flight products will be available for travellers to purchase in the Departures Lounge gift shop in Summer 2016, providing individuals with the ability to take home a unique, one of a kind gift to share with family and friends.

## YLW Signage

YLW has made a collaborative effort to ensure its advertising is focused on Okanagan-based products, services and experiences. This provides advertising opportunities to agricultural-based businesses with signage positions throughout the terminal, departures lounge and parking lots, but concentrated primarily in the arrivals and baggage areas for maximum exposure.

The advertising rates are affordably priced to allow even the smallest owner-operated businesses to participate and gain additional exposure to arriving customers. Current 2016 examples have been included below.



## Sponsorships, Partnerships and Events

## Food Services at YLW

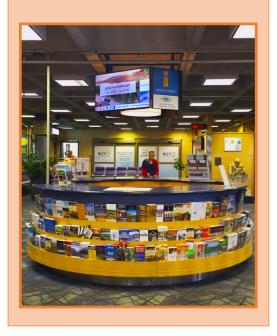
White Spot is one of two main food service providers at YLW.

White Spot has a passion for using fresh, regional ingredients in order to attain an authentic, local experience for travelers. The restaurant supports local suppliers wherever possible.

## Tourism Kelowna Information Kiosk

YLW provides space to Tourism Kelowna for the Information Kiosk located in the arrivals area.

Here, businesses can purchase rack card space to advertise their business and be provided with referral business from volunteers that man the station during peak arrival times. Much of this space is filled with pamphlets from agriculture-related businesses.





## YLW Advertising (ongoing)

YLW regularly advertises in various local wine publications, including the Okanagan Wine Festivals Tasting Booklet and the Wine Tour Handbook to British Columbia.

## Slow Food Canada (2012)

YLW sponsored Slow Food Canada's National Meeting, which took place in Osoyoos. The organization discussed the state of Slow Food in Canada and showcased the culinary and agriculture heritage of the host location.

## Wine Bloggers Conference (2013)

The Wine Bloggers Conference was held in Penticton to highlight local food and wine to visiting media and bloggers. To kick off their visit to the Okanagan, YLW hosted a welcome wine tasting.

## Mile High Wine & Music Promo Pour (2015)

YLW, in partnership with the Okanagan Wine Festival Society, hosted a wine tasting event in the arrivals area for local residents and visiting guests to promote Okanagan wines and the various local Wine Festivals held throughout the year. Three wineries participated and parking was provided free of charge.

YLW Connection Magazine

PLE AND PASSION

YLW Connection magazine is a quarterly publication that keeps the public informed about YLW and promotes tourism throughout the Okanagan Valley. The free publication is available to passengers, the Okanagan business community and the tourism industry. Circulation is 18,000 with an estimated 45,000 impressions per issue.

Past issues have featured agriculture and wine-related content and all issues provide a platform for agriculture-based businesses to purchase advertising space to target potential tourism customers.

Agriculture-based articles included in previous issues include:

- Fall 2015 Produce, People & Passion, Make the Okanagan a Culinary Destination
- Summer 2015 *Life is good in the Okanagan Valley* (highlights on local restaurants and wineries)
- Summer 2015 Discover... Wine-Art-Music
- Summer 2014 Okanagan Wine Tours
- Winter 2013 Local Wines Honoured with Prestigious Awards
- Fall 2013 Wine Talk

Previous issues are available at: <a href="http://www.kelowna.ca/CM/Page1346.aspx">http://www.kelowna.ca/CM/Page1346.aspx</a>

Agriculture on YLW Lands

YLW has a history of leasing Airport owned-lands eligible for agriculture to farmers at a very reasonable rate for the production of hay and alfalfa.

Transfer of Soil to ALR Lands

Between 2010-2015, YLW offered a licence to use 38.59 acres of City-owned land adjacent to the airport for farming purposes for the nominal rate of \$1.00.

In addition, YLW offered a licence to cut and remove hay from 165 acres of City owned lands surrounding the airport from 1998 to 2003. The licensee paid an annual fee of \$500.00 to the City.

In 2016, a private developer will be constructing an airport plaza, which will include a gas station, convenience store and new restaurant options at YLW.

The clearing of the lands commenced in March 2016, and YLW has requested that the soil be sent out for testing to ensure its agricultural quality. In the meantime, YLW has reached out to the City of Kelowna and Regional District of Central Okanagan to determine whether there are any local farmers looking for additional soil. YLW's intent is to transfer the soil to a local farm to help improve its agricultural ability.

## YLW Supports Agriculture

YLW has a long history of supporting and promoting agricultural initiatives and is at the forefront of advocating the expansion of agriculture and agrituurism within the Okanagan Valley.

YLW has a strong commitment to the communities it serves and ensures that the role agriculture and agri-tourism plays in the future economic success of the Okanagan Valley is robustly represented and promoted at the airport.

As YLW moves forward with continued growth, development and expansion, there will be continual and additional opportunity to support agriculture and agri-tourism at YLW.

The agricultural sector is an integral characteristic and economic driver of the Okanagan Valley, and a key factor in YLW's journey toward further growth and economic success.



## **Agricultural Advisory Committee**

## **Minutes**

Thursday, April 14, 2016 Date:

Location: Council Chamber

City Hall, 1435 Water Street

Domenic Rampone, Ed Schiller, Jeff Ricketts (Alternate), John **Members Present** 

Janmaat, Keith Duhaime, Tarsem Goraya, Yvonne Herbison, Jill Worboys (Interior Health)

Members Absent Pete Spencer

Suburban & Rural Planning Manager, Todd Cashin\*, Staff Present

Planner, Melanie Steppuhn, Planner, Trisa Brandt\*, Council Recording Secretary, Arlene McClelland

(\* Denotes partial attendance)

#### 1. Call to Order

The Chair called the meeting to order at 6:02 p.m.

Opening remarks by the Chair regarding conduct of the meeting were read.

#### **Applications for Consideration** 2.

## 3754 East Kelowna Road, A16-0003 - Balwinder Singh Khun Khun

#### Staff:

Displayed a PowerPoint Presentation summarizing the application.

The subject property is in the ALR; surrounding land uses are agricultural and completely surrounded by properties in the ALR.

The subject property is in the Resource Protection Area.

- The subject property is 13 acres in size with active agriculture which includes 8 acres of apples and 4 acres of cherries. One single family dwelling, one mobile dwelling, an agriaccessory building and concrete foundation proposed permanent dwelling location are also located on the property.
- Staff and Council are able to approve, without sending to ALC.
  - Temporary Farm Worker Housing
    - Bunkhouse or minimal in nature
    - In existing building, or manufactured home easily moveable from one location to
    - Temporary foundation (no concrete)

Located within a declared farm yard footprint.

- The application does not meet Temporary or Seasonal conditions; exceeds 8 months and the additional dwelling is permanent.

  The ALC determined 20 km is considered an acceptable distance to travel for work; this
- application is within 20 km.
- Non-Farm Uses on ALR Land
  - Agricultural land use conflict
  - o Farmers require temporary farm help to operate their farm
  - ALC mandate is to protect ALR land for agricultural uses

- o Farmers are seeking large, permanent buildings for "temporary farm help"
- The proposed dwelling is a two storey structure; first floor is common living space with a covered outdoor kitchen area; second floor is the open sleeping area with bathroom and storage area.
- Noted Federal Government requirements of living space required per worker.
- The proposed design can accommodate 27 workers, to accommodate all 40 workers approve through the SAWP, larger or additional buildings are required.
- Advised that a concrete footing has been poured without proper permits. Noted the Land Capability; 70% 5A Class 5: limited to production of perennial forage crops and specially adopted crops, and; 30% 4A Class 4.
- Noted Soil Class; 70% R Rutland Soils and 30% DH Dartmouth Soils.
- City Council is asking the Agricultural Advisory Committee for your recommendation for this application with respect to the City of Kelowna and ALC regulations and policies. Considerations should be given to agriculture impacts as well as the potential impacts to surrounding agricultural parcels.
- Responded to questions from Committee members.

## Andy Sandhu, Applicant Representative and Balwinder Singh Khun Khun, Applicant

- Believes it is the farmer's responsibility to provide accommodation for farm help. Rental accommodation as well as Hotels in Kelowna are highly priced and workers cannot afford that; the best place for farm help to reside is on farm land.
- The storage barn and trailer currently on the property are almost tear down buildings and not safe to live in.
- Believes it is also the farmer's responsibility to ensure farm help has access to shopping for groceries and necessities. The farmer also has to drive farm help from farm to farm.
- Available for questions.

## AAC/Applicant Discussion:

- Applicant confirmed the one building is to accommodate 27 workers on this particular site. Have applied for 40 workers but has accommodation on a different farm as well.
- Applicant stated that farm workers cannot drive as they do not have driver's licenses, therefore, the owner would have to pick up the farm help from various locations and drive them; it is easier to house the farm help at one location.
- Applicant confirmed that Immigration requires a certain type of living condition for farm help and that it is checked by agents to ensure it is acceptable.

#### AAC/Staff Discussion:

- Staff confirmed that all permanent dwelling applications will be forwarded to ALC.
- Staff confirmed that the ALC Act allows for one primary dwelling to be used year round and one mobile home for the family of the principle owners without being tied to agriculture.
- A Member raised concern with increasing number of permanent structures on agricultural land as noted by staff.
- Staff noted that a trailer can easily be removed if the operation changes as well temporary structures do not add value to the land as does a permanent structure.
- A Member commented that there should be some separation between workers in their sleeping accommodation in order for personal space.

## Moved By Domenic Rampne/Seconded By Tarsem Goraya

THAT the Agricultural Advisory Committee recommends that Council support an application to the Agricultural Land Commission under Section 20(3) of the Agricultural Land Commission Act for "non-farm use" on the subject property at 3754 East Kelowna Road for a permanent dwelling to accommodate 27 farm workers.

Yvonne Herbison, Jeff Ricketts and John Janmaat- Opposed

#### ANECTDOTAL COMMENT:

The Agricultural Advisory Committee supported this application for "non-farm use" on this property realizing that farmers require farm help and recognize that this particular proposal presents a small footprint and could be smaller than a trailer type of arrangement. The Agricultural Committee raised concerns with the number of people in the farm area which raised a broader issue of farm worker housing in general; suggested the City find ways to accommodate farmer's objective of having workers closer to shopping and transit and not residing on agricultural land. The Agricultural Committee raised concerns with the building design and the lack of privacy. Suggested some form of condition be placed on the property ensuring utilities and water are turned off during the non-farm work period of the year. The Agricultural Committee suggested the mobile home on the property be researched for any bylaw issues.

## 2.2 3240 Pooley Road, A16-0007 - Wyn Lewis

#### Staff:

- Displayed a PowerPoint Presentation summarizing the application.
- The applicant is requesting a Non-Farm Use to allow up to 12 theatre related commercial assemblies per year in the courtyard of their home, and weekend live music events in their picnic area on weekends through the summer.
- Okanaganvilla Estate Winery was established in 2008 and planted 6 acres of grapes.
  - 2009 Building Permit issued to turn farm house into Wine Shop; wine tasting licence
  - o 2011 Received Winery Special Event Endorsement Liquor Licence
  - 2016 Seeking ALC non-farm use commercial assembly and Wine Lounge Endorsement.
- Commercial Assemblies consist of
  - Theatre Events (10-12 per year in summer)
  - Live Music Picnic Area
  - Private Events
- The subject property is located in the Southeast Kelowna Sector of the City and is within the Agricultural Land Reserve. The Future Land Use of the property is Resource Protection Area). It is zoned A1 Agriculture 1 and is outside of the Permanent Growth Boundary.
- Displayed the weekend concert schedule at the Vibrant Vine from 1:30 to 4:30 p.m. from June 18<sup>th</sup> to September 11<sup>th</sup>.
- Noted land and soil capabilities.
- The Official Community Plan states:
  - Lands outside permanent growth boundary not supported for urban uses
  - Protect Agricultural land
  - Minimize land use conflicts on farm land
  - o Direct urban uses to within the permanent growth boundary.
- Policy 5.33.7 Non-Farm Uses support Non-farm uses where:
  - Consistent with Zoning Bylaw and OCP
  - Benefit to agriculture
  - Use existing infrastructure
  - Not preclude future use of lands for farming
  - No harm adjacent farms
- City Council is asking the Agricultural Advisory Committee for your recommendation for this application with respect to the City of Kelowna and ALC regulations and policies. Considerations should be given to agriculture impacts as well as the potential impacts to surrounding agricultural parcels.
- Responded to questions from Committee members.

#### AAC/Staff Discussion:

- Confirmed this application is pertaining to events and not parking.

Confirmed the total parcel is 11.3 acres of which 6 acres including southern portion is in the vineyard.

## Wyn Lewis, Applicant

- Owner of Vibrant Vine.
- Commented that he is a great supporter of ALR. All land owned and 50 acres that are leased is all within the ALR.
- The ALC stated many times their support for agri-tourism as long as it supports farming. Financially it is essential for our farm to have agri-tourism or it is not a viable operation.

Believes in tying the value of the land into the product.

- We advertise all over Canada to promote our vineyard. To promote connection to our wine we host wine maker dinners. There are hundreds of visitors from throughout the
- Received Best White Wine in the World award in 2013.
- Members of our Wine Club want to feel connected to the winery and they look forward to coming and seeing one of our evening plays.

Many visitors book their vacations around one of these events.

The plays are vital to our financial success and key to the livelihood of our employees.

- With what is proposed there will be no loss of farm land or creation of buildings; farm production is on-going. Investment will increase and will preserve 100% of agricultural land.
- Responded to questions from Committee Members.

#### AAC/Applicant Discussion:

- AAC Member commented that there is a traffic safety issue on Pooley Road.
- Applicant noted they have checked with RCMP and neighbours if this is an issue.

AAC raised concern with patrons being subjected to spray from neighbouring farms.

- The applicant confirmed that staff are part time employees and they work on everything from farming, chemistry production, manufacturing sales and whole sales; moves employees all around so they are part of all of it.
- Applicant advised that all neighbours are understanding of spray times and there are no issues if we ask them to not spray at certain times due to an event. Other farms are not impacting us with spraying.

#### Moved By Keith Duhaime/Seconded By Yvonne Herbison

THAT the Agricultural Advisory Committee recommends that Council support an application to the Agricultural Land Commission under Section 20(3) of the Agricultural Land Commission Act for "non-farm use" on the subject property at 3240 Pooley Road to hold commercial assembly activities such as Shakespeare plays and music.

> Carried Jeff Ricketts - Opposed

#### ANECTDOTAL COMMENT:

The Agricultural Advisory Committee supported this application for "non-farm use" on this property; however, commented that this is an example of tourism on agricultural land as opposed to agri-tourism as there is no learning component with this application. Raised concern with any kind of gravel parking lot placed on agricultural land.

#### 560 Highway 33, A16-0001 - Chancal Bal 2.3

#### Staff:

Displayed a PowerPoint Presentation summarizing the application.

The Applicant is requesting a non-farm use to hold commercial assemblies including weddings, anniversaries, reunions, festivals and concerts.

Provided background pertaining to Hillcrest Farms:

- Family has farmed in Kelowna for 100 years
- Currently farms 140 acres in Kelowna
- Fruit and Vegetable Retails Sales (2010)
- Bed and Breakfast (2010)
- Farm Café (ALC approval 2015)
- Cherry Packing Facility (2015)
- The subject property is located in the Rutland Sector of the City and is within the Agricultural Land Reserve. The Future Land Use of the property is Resource Protection Area. The subject properties are accessed by Highway 33 E at the Springfield Road intersection.
- The Applicant proposes:
  - Location re-contoured unfarmed land with soils from Highway widening
  - Additional soils 10 acres into production
  - Event venue knoll and structure 3% of land
  - Parking area at fruit loading site
  - Vegetation buffer proposed at east property line
- Customers must secure a special events liquor license.
- No additional services are proposed; portable toilets. No permanent structure proposed. Tents will be used for events.
- Event season from March 15 to November 30<sup>th</sup>.
- City Council is asking the Agricultural Advisory Committee for your recommendation for this application with respect to the City of Kelowna and ALC regulations and policies. Considerations should be given to agriculture impacts as well as the potential impacts to surrounding agricultural parcels.
- Responded to questions from Committee members.

#### AAC/Staff Discussion:

Confirmed that for large events twice a year with up to a 1000 people would need to conform to the zoning bylaw. A Text Amendment would be required, as it was for the Café, and presented to Council.

## Sukhpaul Bal, McCurdy Road, Applicant Representative

- Displayed a PowerPoint Presentation.
- The Bal family owns and operates Hillcrest Farm Market
- Proposing to establish a special events site in order to host events such as weddings, family gatherings, retreats, luncheons, festivals and concerts.
- To promote farm-growth products emphasizing farm-to-table offerings without the use of a permanent kitchen.
- Farming 140 acres within Kelowna.
- Family farm has been in existence for over 100 years.
- Struggle to maintain viable farming operations. In 2010, diversified into agri-tourism to ensure self-sufficiency in farming including Farm Café, Fruit Stand, Bed and Breakfast.
- Advised that 20,000 cherry trees in nursery to be planted in 2017.
- In 1998 began planting new cherry varieties.
- In 2006 began packing cherries on the farm.
- In 2014 upgraded to a new 8 ton per hour optical cherry sizer.
- Majority of cherries exported to Asia.
- Noted ALC Policy #4, acceptable farm-use activities.
- Believes they are promoting farming by blending agriculture, tourism and education.
- Hosted a School District Leadership Luncheon with approximately 1000 students.
- This site is surrounded by property the family owns; the closest neighbour is 300 meters from this site.

### AAC/Applicant Discussion:

- Applicant confirmed that for large events patrons will be shuttled to the site as well there will be parking attendants to ensure there is damage to trees.
- Applicant advised that their commercial kitchen is a semi-trailer that has been outfitted with commercial appliances; has past fire codes and health department requirements. The semi-trailer can be moved if need be.
- Applicant confirmed this is not a wetland area.
- Applicant confirmed that table grapes are in close proximity to the site.
- Applicant advised that from the farm market to the site there is a main road we use to go through our farm; no one would be walking through the Orchard.
- Applicant confirmed that the road through the orchard would be blocked with signage directing patrons to avoid having customers exposed to pesticides.
- AAC stressed that the education component be fulfilled.

## Moved By Ed Schiller/Seconded By Domenic Rampone

THAT the Agricultural Advisory Committee recommends that Council support an application to the Agricultural Land Commission under Section 20(3) of the Agricultural Land Commission Act for "non-farm use" on the subject property at 560 Highway 33 to hold commercial assembly activities including weddings, anniversaries, reunions, festivals and concerts.

Jeff Ricketts - Opposed

#### ANECTDOTAL COMMENT:

The Agricultural Advisory Committee supported the "non farm use" on this property, however, recognizing that this is a working cherry orchard, strongly suggest that patrons of an event are warned that pesticides have been used upon entry. That patrons have limited access to the surrounding Orchard to eliminate exposure to chemicals. The Agricultural Advisory Committee recognize and support the education component but raised concern on how success that will be. Recommended that a covenant be placed to ensure that if the property is sold, the use not be sold as a business, and that it be only for the current owner. The Agricultural Advisory Committee acknowledged the non-farm-use criteria being consistent with OCP Policy with respect to a non-farm use that uses existing infrastructure; not preclude future use of land for farming and not harm adjacent farms.

#### 3. Minutes

## Moved By Keith Duhaime / Seconded By Ed Schiller

THAT the Minutes of the March 10, 2016 Agricultural Advisory Committee meeting be adopted.

Carried

#### 4. Old Business

**ALC Decisions:** 

1629 KLO Road - Better Earth Garden Products - Non Farm Use Application. Rutland Road Alignment - Old Vernon Road Exclusion

#### Staff:

- Advised that the Agricultural Land Commission supported the Non-Farm Use Application for 1629 KLO Road.
- Advised that the Agricultural Land Commission supported the exclusion of a portion of Old Vernon Road without conditions.

## 5. Next Meeting

The next Committee meeting has been scheduled for May 12, 2016.

## 6. Termination of Meeting

The Chair declared the meeting terminated at 9:14 p.m.

John Janmaat, Chair

/acm