



**Subject:** *Single Access & 100 Lots Options Report - Vulnerability Assessment Results*  
**To:** CAO for Planning Advisory Committee, January 21, 2025  
**Date Prepared:** January 15, 2025  
**Related Motions:** C23(210), C23(237), PAC24(5), C24(15), PAC24(48), and C24(257)  
**Prepared by:** Debbie Uloth, Community Planner II  
**Approved by:** John Woodford, Director of Planning and Development

### Summary

Since the wildfires in the spring of 2023, East Hants Council has directed staff to restrict the number of dwelling units permitted on a single egress/ingress as part of development agreement negotiations, directed staff to review the number of areas with one access and over 50 dwelling units, and requested staff to develop amendments to the Subdivision Bylaw that may allow more than 100 lots to be created on a single access.

In July 2024, a staff report was presented to PAC that provided a review regarding the 100 lot limit on a single access, a jurisdictional scan, and provided PAC options to Council on the number of lots and/or dwelling units that may be permitted on a single access. In response Council passed a motion directing staff “...to create lot access regulations based on the length of road, number of lots, and number of dwelling units.”

Staff have completed a vulnerability assessment on each of the areas with over 100 lots and have developed a method of determining instances where it may be acceptable to allow for over 100 lots to be created on a single access.

### Financial Impact Statement

There are no immediate financial impacts with the adoption of this report.

### Recommendation

Prepare amendments to the East Hants Official Community Plan based on Option 1; and authorize staff to schedule a public information meeting.

### Recommended Motion

*Planning Advisory Committee recommends that Council:*

- *authorize staff to prepare amendments to the Subdivision Bylaw that would permit over 100 lots be created on a single access road, where a vulnerability assessment shows that the road has a very low to moderate risk assessment.*

AND

- *authorize staff to prepare amendments to the Official Community Plan that permits a maximum of 300 dwelling units on a single access road in a GMA serviced by Municipal water and wastewater; and prepare amendments that would permit a maximum of 150 dwelling units on a single access in all areas of East Hants not serviced by Municipal water and wastewater.*

AND

- *authorize staff to schedule a public information meeting.*

---

## Background

East Hants Council has expressed concerns regarding the number of lots and/or dwelling units that access a single egress/ingress road during an emergency event, such as the wildfires in the spring of 2023. As a result, Council has passed the following motions:

- Motion C23(210)      *Direct staff to discontinue allowing developments to exceed the 100 unit minimum before requiring a second entrance/exit when negotiating development agreements prior to coming to Council.*
- Motion C23(237)      *Direct staff to create a report highlighting the single way in and single way-out subdivisions in the Municipality (over 50 homes, or what is deemed appropriate) to send to EMO and explore lands available to provide the possibility of second exits within those subdivisions.*
- Motion C24(15)      *Authorize staff to take the Secondary Access Report dated December 20, 2023, to EMO Planning Committee for prioritization of communities for the Fire Smart Assessment; and that Council authorize staff to review planning and subdivision regulations to aid in the implementation of Fire Smart principles.*
- Motion C24(257)      *Moved that Council authorize staff to create lot access regulations based on the length of road, number of lots, and number of dwelling units.*

A second access report was presented to Planning Advisory Committee in January 2024, which identified areas where over 50 dwelling units are serviced by a single access road. As a result of that report Motion C24(15) was passed and the staff report was presented to the March 2024 meeting of the EMO Committee for prioritization of communities for the Fire Smart Assessment. After the EMO Committee meeting the list of communities was forwarded to the Nova Scotia Department of Natural Resources.

A report was presented to PAC in July 2024, which identified areas with over 100 lots, including limits to their future development potential. As a result, Council authorized staff to “...create lot access regulations based on the length of road, number of lots, and number of dwelling units.” After completing a jurisdictional scan and completing a vulnerability assessment on each of the areas with over 100 lots, staff have developed a method of scoring a single access area for potential development of over 100 lots.

### JURISDICTIONAL SCAN

East Hants is one of the few municipalities in Nova Scotia that limit the number of lots created on a single access. Some of these municipalities have limits on the length of a new street but developers can get around the street length requirement by showing a phased subdivision but not building all of the roads shown on the Subdivision Plan. East Hants also requires a road reserve at a maximum of every 475 m where there are Municipal services and every 800 m where there are no Municipal services.

Community	Regulations
West Hants	No limits on the number of lots on a single access - For large-scale developments, the municipality would rely on the results of a traffic study.
Colchester	No limits on the number of lots located on a single access.
District of Lunenburg	No limits on the number of lots located on a single access.

Halifax	<p>The Halifax Municipal Design Guidelines stipulate that where a second access is impractical up to 100 lots containing a maximum of 100 dwelling units may be approved with a single access.</p> <p>Further to the 100 lots, in Halifax where there is an approved phasing plan and subdivision agreement in place confirming that a second street access will be provided within a specified time approved by the Municipal Engineer, up to 300 lots containing a maximum of 300 dwelling units may be approved prior to the second access being provided.</p>
Moncton	<p>The maximum length of a dead-end street is 180 m, any street beyond 180 m must have a second access. A dead-end street is only permitted in unique circumstances.</p> <p>Moncton Fire Department reviews plans of subdivision. The maximum number of dwelling units on one access depends on comments from the Moncton Fire Department. Depending on the number of dwelling units the fire department may want to see additional street intersections.</p>

Further research on the topic of single access roads was completed and there is not a science backed method of determining an appropriate road length and dwelling unit count on a single access. Most discussion boards, where Planners discussed the road access topic, indicated that their regulations are based on what a fire department can service and respond to and on the amount of risk that a Municipality is willing to accept.

In Los Angeles, the Municipal Code requires that when a dead-end access is permitted (requires special permission) in excess of 700 feet in length from the nearest cross street, at least one-additional ingress/egress roadway shall be provided in such a manner that an alternative means of ingress/egress is accomplished. This can be completed through the use of fire lanes. Los Angeles also has many other code requirements related to fire prevention, such as requiring a fire lane if a first floor wall is more than 150 feet from the front property line. Other jurisdictions in the United States have alternative regulations and there is no consistent set of regulations for dead-end streets. For example, the Delaware Department of Transportation states that no more than 20 single family homes shall be located on a dead-end street and that the maximum length of a street should be between 500 feet and 1000 feet.

---

## Discussion

Planning and Development staff worked together with EMO staff to review a variety of issues that need to be taken into consideration as part of determining in what instances more than 100 lots should be permitted on a single access.

### CURRENT METHOD OF DETERMINING LOCATION OF A SECOND ACCESS

Section 10.16 of the SUB states how many lots can be located on a single access road.

*10.16 No more than 100 lots and a remainder shall be serviced by a single road access to a collector or arterial street.*

*Notwithstanding 10.16, the Municipality may permit more than 100 lots with a single road street to a collector or arterial street if the development is subject to a development agreement, master plan, Comprehensive Development District, or phased Subdivision application which requires that a second*

road access to a collector or arterial street will be built in a future phase of development, in a manner and timeframe acceptable to the Municipality.

Other than the distance required between intersections as outlined in the Municipal standards, which can range from 75 m to 300 m depending on road ownership and type of road, the SUB does not identify where a second access road shall be located. Therefore, the location of the second access road is not reviewed as part of the subdivision plan review.

#### VULNERABILITY OF EXISTING SINGLE ACCESS DEVELOPMENTS

As part of previous reports, areas with 100 lots or more with a single access have been identified. Further to the identification, Planning, GIS, and EMO staff have completed a Vulnerability Assessment on each neighbourhood to help identify risks in each area. The detailed Vulnerability Assessment has been attached as Appendix A. Items that were taken into consideration and questions that were contemplated as part of the assessment include the following:

Evaluation criteria:

- **Access/Road Ownership** - Single access roads present challenges for ingress/egress and the ownership and quality of the road impacts residents and first responders' ability to use a road in the case of an emergency.
- **Length of Road** - The longer the road length the farther residents have to travel to exit the neighbourhood or the farther first responders have to travel to respond and assist residents in an emergency event.
- **Type of Forest Cover** - Determine the type of forest cover surrounds the neighbourhood. Research indicates that deciduous trees are less prone to burning than conifers, and that fires in deciduous stands burn slower and with less intensity than conifer stands (*Cumming, 2001; Hély et al., 2000*). Further to this, Provincial land cover data was used to create a Land Cover Risk Maps that categorizes risk of forest fire from the type of land cover.

Land Cover	Risk
Water	None
Bogs or Wetlands	Very Low
Hardwood	Low
Urban, Landfill, Quarry, Transport Corridor	Low
Agriculture	Moderate
Mixedwood	Moderate
Harvests	High
Softwood	Very High

- **Slope** - Wildfires burn up slope faster and more intensely than along flat ground. A steeper slope will result in a faster-moving fire, with longer flame lengths. While moderate or steep slopes greater than 20% are very dangerous, any slope can potentially increase the amount of heat a structure will be subject to during a wildfire (*Fire Safe Marin*).



Fire spreads rapidly up steep slope with heavy brush



Fire threatens home on steep hillside. AP News

- **Watercourses** - Determined how many watercourses intersect roads within the single access area. Considered if there was potential for a flood event or tried to determine if there had been a flood event or washout in the past.



- **Fire Protection** - Determined if the neighbourhood has fire hydrants, or if they have a dry hydrant, or if a fire truck get access to a lake.
- **Impacted Residents** - The number of residents and dwelling units located on a single access road will contribute to the speed of evacuation. Reviewed the type of homes, depending if they seasonal or permanent may impact how first responders respond to an event.

The Vulnerability Assessment could be further refined for EMO purposes or for climate change planning by adding additional criteria such as communications (cell phone), distance from first responders, etc.

The Vulnerability Assessment has shown that all of the neighbourhoods identified with over 100 lots are at some risk to fire and/or flooding, and would impact residents' ability to exit their neighbourhood in case of an emergency.

Detailed results of the Vulnerability Assessment have been included in Appendix A. Below are the results of the weighting of each neighbourhood. As weighted, every 20% increase is attributed to a different level of vulnerability. From 0 to 20% very low vulnerability, 21% to 40% low vulnerability, 41% to 60% moderate vulnerability, 61% to 80% high vulnerability, and 81%to 100% very high vulnerability.

Most to least vulnerable East Hants neighbourhoods with a single access and over 100 lots:

1. Uniacke Mines Road - overall score 79% - High Vulnerability
2. Piggott Lake Road - overall score 75% - High Vulnerability
3. Grand Lake Area - overall score 75% - High Vulnerability
4. Old Mines Road - overall score 72% - High Vulnerability
5. Lakecrest Drive - overall score 67% - High Vulnerability
6. Elmwood Subdivision - overall score 55% - Moderate Vulnerability
7. Kali Lane - overall score 36% - Low Vulnerability

Although Kali Lane does not have 100 lots, the area was included in the Vulnerability Assessment to show an example of an area that has a low vulnerability assessment. Although the road does not have 100 lots, there is over 2.4 hectares of land that could potentially be developed in the future. Depending on the land use development pattern of the 2.4 hectare parcel, 100 lots could be created with access on Kali Lane. In addition, due to the current zoning of the 2.4 hectares of land, multiple unit development could occur as-of-right, increasing the number of dwelling units accessing Kali Lane.

Of the neighbourhoods with over 100 lots, all of the areas reviewed have a moderate to high vulnerability, with Uniacke Mines Road having the highest vulnerability score. Reasons for the results include the length of roads, the quality of the roadways, the type of forest surrounding the area, the number of lots and the slope of the land. Additional details are included in the Vulnerability Assessment. There are likely other areas of East Hants that would have a high vulnerability assessment score although they have two ways to access the neighbourhood. At a future date East Hants Council may want to complete a vulnerability assessment for other neighbourhoods in East Hants.

Staff cannot predict if and when a major weather event or fire event may occur, but we can determine what are the community vulnerabilities. It is Council's decision to determine what risk is acceptable for the community and for the Municipality. Staff are not recommending continued development in areas with one access if the vulnerability is high to extreme. In the Options Section, options have been developed based on this recommendation for PAC's consideration.

#### NUMBER OF DWELLING UNITS ON A SINGLE ACCESS

In July of 2023, Council passed Motion C23(210), to limit the number of dwelling units to 100 units on a single access as part of development agreement negotiations. This motion does not apply to as-of-right development. Staff recommend that a consistent approach be taken to controlling the number of dwelling units located on a single access. Staff recommend that an alternative approach be taken. As shown by the Kali Lane vulnerability assessment example, a larger number of dwelling units can be located on a single access if the road is relatively short, the road is serviced by fire hydrants, and the surrounding area is developed (limited forest cover). Therefore, staff recommend that on roads 750 m in length or shorter up to 300 dwelling units may be permitted on a single access where there are Municipal water and wastewater services. This option would be more consistent with Halifax regulations.

In areas outside of a serviceable Growth Management Area, staff recommend that the maximum number of dwelling units located on a single access be 150. The 50% additional dwelling units than lots would permit half of single unit dwelling home owners to have an accessory dwelling unit.

#### EMERGENCY ACCESSES

As part of the Second Access Report presented to PAC in January 2024, Planning staff completed a simple desktop exercise and identified potential emergency access points that could be created by East Hants. One of the options identified in the report was to direct staff to further investigate these potential connections. However, PAC and Council chose not to move forward with the option at that time. During the July 2024 Council meeting, a motion was moved and later defeated that *"...that the Planning Advisory Committee recommend that Council direct staff to prepare a report on viability of connecting roads at the previously identified locations."*

If, after reviewing the Vulnerability Assessment, PAC wishes to now investigate options of creating a second access into the identified neighbourhoods, PAC may want to direct staff to investigate the potential development of emergency accesses to service the identified single access areas and to allow for the continued development of these areas.

---

## Options

As a result of the Vulnerability Assessment, staff do not recommend that the number of lots on the single access roads reviewed be permitted to increase without a second access. Based on staff evaluation the risk to the residents seems to outweigh the benefits of increasing the housing supply. Municipal staff have developed four options for the consideration of PAC.

1. Prepare amendments to the Subdivision Bylaw that would permit over 100 lots be created on a single access road, where a vulnerability assessment shows that the road has a very low to moderate risk assessment.

AND

Prepare amendments to the Official Community Plan that permits a maximum of 300 dwelling units on a single access road in a GMA serviced by Municipal water and wastewater; and prepare amendments that would permit a maximum of 150 dwelling units on a single access in all areas of East Hants not serviced by Municipal water and wastewater.

2. Maintain the 100 lot regulation and prepare an amendment to the East Hants Official Community Plan that would limit the number of dwelling units to 300 units on a single access in the GMA's serviced by Municipal water and wastewater and 150 dwelling units in all areas of East Hants not serviced by Municipal water and wastewater.
3. Direct staff to investigate the feasibility of constructing emergency accesses (financial and engineering requirements) to service the areas identified in this report to allow for increased development. Emergency access could be built and owned by East Hants or built to the East Hants private road standards with easements in favour of all impacted properties.
4. Make no changes to the current regulations and allow for the development community to build second accesses to the identified areas when development pressure warrants the cost of constructing the second access.

#### CITIZEN ENGAGEMENT

Proposed amendments to the East Hants Official Community plan require a public information meeting. If Council authorizes staff to prepare amendments to the East Hants Official Community Plan in accordance with the recommended motion, a public information meeting will be organized and held at the Lloyd E. Matheson Centre. Notice of the PIM will be advertised on the Municipal website and on social media. In addition, staff will notify local surveyors, developers, and road associations of the meeting.

#### STRATEGIC ALIGNMENT

Amendments to the East Hants Official Community Plan aligns with Council Strategic goal to build strong communities by "Ensure[ing] the East Hants official community plan is effective in managing changes in the community, reducing land use conflict and protecting both natural resources and community character."

#### LEGISLATIVE AUTHORITY

The Municipality has Legislative Authority to create land use policies and regulations under Part 8 of the Municipal Government Act.

#### FINANCIAL CONSIDERATIONS

There are no immediate financial impacts from the adoption of this report.

## Attachments

Appendix A - Vulnerability Assessment