

August 12, 2020

Via: Email <mike@kearnspaara.com>

Mr. Mike Kearns 102 Hoggard Court Thornbury ON N0H 2P0

Dear Mr. Kearns:

Re: Guideline D-4 Study for 114 John Street, Clarksburg, Ontario Regarding h3 Holding Provision Project No.: 300051999.0000

1.0 Introduction

Further to our telephone conversation on July 24, 2020 and your signed Approval to Proceed dated July 27, 2020, R.J. Burnside & Associates Limited (Burnside) is pleased to provide a summary of the Guideline D-4 Study for the property at 114 John Street in Clarksburg, ON (Site) located adjacent to the closed Clarksburg Landfill Site (Landfill). See the attached Site Plan for location details.

2.0 Scope of Work

2.1 Purpose

The Town of the Blue Mountains has placed a holding provision (h3) on the Site because it is within the Assessment Areas as defined in the Environmental Impact Study, Clarksburg Closed Landfill Site, prepared by Burnside in July 2010. Excerpts from the official plan are attached. As such, the purpose of this D-4 Study is to assess the potential for landfill related impacts to affect the Site in accordance with the Ministry of Environment, Conservation and Parks (MECP) Guideline D-4: Land Use on or Near Landfills and Dumps.

This study incorporates both a desktop evaluation and inspection of the Site to determine the potential for impacts from the Landfill on the Site. The information has been used to:

- Assess whether the Site is within the Landfill impact zones for groundwater, surface water, landfill gas, and nuisance impacts (odours); and,
- Assess the potential for the Landfill to impact the Site while taking into consideration groundwater flow, surface water drainage, topography, soils, depth to water table, landfill gas migration, noise, wind, and nuisance impacts.

2.2 Desktop Evaluation

The desktop evaluation considered:

- Geological and topographic mapping;
- MECP water well records;
- Historical Air photos to assess historical site alterations;
- Freedom of Information (FOI) request to obtain MECP records regarding the Landfill¹;
- Interpreted groundwater/surface water flow directions;
- Soil and water table conditions;
- Wind directions; and,
- Source water protection considerations.

Most of the information available regarding the Landfill was presented in the Environmental Impact Study completed by Burnside in July 2010. The report was completed for planning purposes and the assumptions made were conservative. The following conditions were noted in the report and have been assessed relative to the Site:

- The Closed Clarksburg Landfill was not listed in the Ministry of the Environment (MOE)² Regional Inventory of Closed Waste Disposal Sites and there were no records available in their files in 2010;
- The Landfill is situated upon alluvial deposits of sand and silt (moderately permeable) that follow the Beaver River;
- The water table at the Landfill ranged from 0.9 m to 2.3 m below ground surface;
- The groundwater impact zone was conservatively set as being 150 m downstream of the Landfill (toward the Beaver River) and 100 m in all other directions to account for possible mounding effects that could drive contaminants in other directions away from the waste. Given that the Site is higher than the top of the waste and groundwater is flowing north/westerly, leachate mounding effects at the Site are considered highly unlikely;
- No surface water features were identified at the Landfill, however, areas down gradient of the landfill were highlighted along the Beaver River as a possible (abeit unlikely) groundwater discharge/surface water impact zones;

¹ An FOI request for the Landfill was made as part of the 2010 Study. No site-specific records were found. An updated FOI search has been requested as part of this investigation in the unlikely event that new information becomes available. No activity is known to have taken place at the Landfill since 2010. ² The MOE is now referred to as the Ministry of Environment, Conservation and Parks (MECP).

- A 100 m landfill gas impact zone was conservatively set around the waste fill area. Typically landfill gas is inferred to migrate up to ten times the depth to groundwater (i.e. thickness of unsaturated waste). The water table at the Landfill was between 0.9 and 2.3 m which means that landfill gas impacts are unlikely to be present beyond a conservative 25 m radius. The Landfill is small and has been closed for many years. The Site is 28 m away from the Landfill which is beyond this inferred impact zone and the properties are separated by a permeable road base. Landfill gas impacts at the Site are highly unlikely;
- Nearby wells draw water from confined sand and gravel resources at depths of approximately 20 m deep. the four closest wells are shown in the excerpts from the 2010 Impact Study. The well records are also attached. If a well is to be drilled to supply future development of 114 John Street, the well records suggest that a confined aquifer (i.e. protected from surface activities such as landfills) is available;
- Winds are typically from the west with some variation, as such it is inferred that the Site is not downwind of the Landfill. Furthermore, visible waste or landfill odours were not detected during the Site visit;
- With good vegetation cover between the Landfill and the Site, other nuisance impacts are not anticipated; and,
- The 1962 Air photo presented in Appendix B of the 2010 Study shows that the Site was formerly part of an orchard and a disturbed area was visible on the Landfill property. Air photographs from 1995, 2010 and 2015 show little change from current conditions at the Site and Landfill.

2.3 Site Inspection

A site Inspection was conducted on July 28, 2020 which included a walk over and meeting with the Site owner (Mr. Mike Kearns). Site conditions were noted such as topography, drainage, surface cover and vegetation and general position of the Site relative to the landfill. Photographs taken during the inspection are appended.

The Inspection revealed the Site as a vacant un-serviced lot. Ground surface at the Site was higher than the landfill with overall drainage (surface water and shallow groundwater) inferred to be directed northwesterly toward the Beaver River. The waste fill area of the Landfill was not a visible mound above surrounding ground surface. The Landfill waste fill area was not visible from John Street or the Site. There were no odours or stressed vegetation visible along John Street.

The lots on either side of the Site were occupied with residential units inferred to be serviced with private wells and sewage treatment systems.

3.0 Conclusions

The results of this investigation indicate that:

- 1. Groundwater, surface water, landfill gas and nuisance impacts from the Closed Clarksburg Landfill Site are unlikely to affect the future development of 114 John Street.
- 2. Detailed site-specific investigations such as drilling, well installation, water quality sampling, water level measurements, and gas readings are not required.

4.0 Recommendations

The following recommendations are presented based on the results of this investigation:

- 1. No further Guideline D-4 study is required.
- 2. A copy of this letter report should be submitted to the Town of the Blue Mountains.
- 3. The Official Plan h3 holding provision should be removed from 114 John Street based on the results of this study.

If you have any questions or require additional information, please feel free to contact the undersigned at your convenience.

Yours truly, R.J. Burnside & Associates ROFE Walk -PC K. S. HAWKES JAMES R. PRACTISING MEMBER 8/12/2020 0669 Kim Hawkes, P. Eng. Jim Walls, P. Geo., QP_{ESA} **Project Engineer** Senior Geoscientist KSH:kl Enclosure(s) Figure 1 Site Plan Excerpts from Town of the Blue Mountains Official Plan Site Photographs Excerpts from the 2010 Environmental Impact Study Water Well Records

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Hold Provision area - 114 John Street

The Town of The Blue Mountains

Comprehensive Zoning By-law 2018 – 65



Office Consolidation to March 9, 2020

November 29, 2018 (Original Approved) 2. Additions and alterations to existing *dwellings* provided that the additions or alterations are not located closer to the feature than the existing dwelling.

10.2.2 Holding Provision (h2) – Areas of Natural and Scientific Interest (ANSI – Life Science) and Adjacent Lands

The Holding (h2) provision applying to Areas of Natural and Scientific Interest (ANSI – Life Science) identified in the Official Plan and lands within 50.0 metres of the ANSI – Life Science may be lifted if a Development Permit and/or exemption has been obtained from the Grey Sauble Conservation Authority or its successor, an approval has been obtained from the Grey Sauble Conservation Authority or the Nottawasaga Valley Conservation Authority and provided the proposed development will not have a negative impact on the ANSI and its associated ecological functions.

Any development application that requires a *building* permit within the area shown as subject to this Hold shall be required to submit this assessment, with the following exceptions:

- 1. Reconstruction or replacement of existing *dwellings;* and,
- 2. Additions and alterations to existing *dwellings* provided that the additions or alterations are not located closer to the feature than the existing dwelling.

10.2.3 Holding Provision (h3) – Landfill Sites

The Holding (h3) provision applying to closed or open landfill sites, as identified in the Official Plan, may be lifted once a study has been prepared by a qualified engineer and submitted for review in accordance with the Ministry of the Environment, Conservation and Parks Guideline D-4, indicating that the lands to be developed are secure from potential methane gas and/or leachate migration from the landfill site or what remedial measures or conditions are required prior to any development approval being granted.

This provision applies to lands within defined assessment areas from the fill area of a closed *waste disposal site* identified in Environmental Impact Studies prepared in July 2010 for the Thornbury Closed Landfill site and Clarksburg Closed Landfill site. This Hold will be lifted upon receipt of an assessment report prepared by a qualified engineer in accordance with Guideline D-4 (April 1994) of the Province of Ontario or its successor. Any development application that requires a *building* permit within the area shown as subject to this Hold shall be required to submit this assessment, with the following exceptions:

- 1. Reconstruction or replacement of existing dwellings;
- 2. Additions and alterations to existing dwellings; and,
- 3. Construction of *accessory buildings or structures*.

10.2.4 Holding Provision (h4a and h4b) – Lands Within Source Water Protection Areas

The Holding (-h4a) provision applies to significant drinking water threats within Water Intake Protection Zones / Events Based Areas (EBAs) EBA-50,000 and EBA-100,000. The (-h4a) provision prohibits land uses which include the handling and storage of more than 50,000 litres of fuel and 100,000 litres of fuel. The (-h4a) provision may be lifted once it is determined through a risk assessment under the *Clean Water Act, 2006* is completed demonstrating that the proposed development does not pose a risk to source water areas.

The Holding (-h4b) provision applies to significant drinking water threats within Wellhead Protection Areas (WHPAs). The (-h4b) provision prohibits the following land uses:

- Waste disposal sites within the meaning of Part V of the Environmental Protection Act;
- The establishment, operation or maintenance of a system that collects, stores transmits, treats or disposes of sewage;
- The application of agricultural source material to land;
- The storage of agricultural source material;
- The management of agricultural source material;
- The application of non-agricultural source material to land;
- The handling and storage of non-agricultural source material;
- The application of commercial fertilizer to land;
- The handling and storage of commercial fertilizer;
- The application of pesticide to land;
- The handling and storage of pesticide;
- The application of road salt;
- The handling and storage of road salt;



Photo 1: Site looking North toward John St from the Southern portion of Property



Photo 2: Site looking South from John St



Project NameD4 Study - 114 John St, ClarksburgProject No.300051999.0000DateJuly 28, 2020



Photo 3: Site looking from North side of John St



Photo 4: Looking North West from North edge of Site



 Project Name
 D4 Study - 114 John St, Clarksburg

 Project No.
 300051999.0000

 Date
 July 28, 2020



Photo 5: Beaver River looking South West Upstream



Photo 6: Beaver River looking North East Downstream



Project Name Project No. Date D4 Study - 114 John St, Clarksburg 300051999.0000 July 28, 2020



Photo 7: Closed Landfill Site looking North from John St



Photo 8: Closed Landfill Fill area looking North



 Project Name
 D4 Study - 114 John St, Clarksburg

 Project No.
 300051999.0000

 Date
 July 28, 2020



Environmental Impact Study Clarksburg Closed Landfill Site

Prepared By:

R.J. Burnside & Associates Limited 15 Townline Orangeville ON L9W 3R4

Prepared for:

Town of The Blue Mountains

July 2010

File No: MCO 018503

The material in this report reflects best judgement in light of the information available at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. R.J. Burnside & Associates Limited accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.





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Ministry of the Environment Measurements recorded in:



Well Record

Regulation 903 Ontario Water Resources Act
Page _____ of _____

124	Well Locati	on (Street Nur DF/N	st		To	BLUE MOU	NTAINS		Concessio	n	
C A	trict/Municip	pality			Ci	ty/Town/Village	3URG	Provir	nce	Posta	Code
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