



## Solid Non-Hazardous Waste Disposal Site Inspection Report

<b>Client:</b>	The Corporation of the Municipality of Southwest Middlesex Mailing Address: 153 McKellar St, Post Office Box, 218, Glencoe, Ontario, Canada, N0L 1M0 Physical Address: 153 McKellar St, Southwest Middlesex, Municipality, County of Middlesex, Ontario, Canada, N0L 1M0 Telephone: (519)287-2015, FAX: (519)287-2359, email: jfrancisco@southwestmiddlesex.ca Client #: 2308-4XUQEP, Client Type: Municipal Government, NAICS: 913910		
<b>Inspection Site Address:</b>	Limerick Road Landfill (Mosa Landfill) Address: Lot: 23, Concession: 3, Geographic Township: MOSA, Southwest Middlesex, Municipality, County of Middlesex District Office: London - District GeoReference: Map Datum: NAD83, Zone: 17, Accuracy Estimate: 10-30 metres eg. Medium Quality GPS, Method: GPS, UTM Easting: 431559, UTM Northing: 4724065, , LIO GeoReference: Zone: , UTM Easting: , UTM Northing: , Latitude: 42.6661, Longitude: -81.8336 Site #: 6536-62NRPU		
<b>Contact Name:</b>	Tara Clayton	<b>Title:</b>	Public Works Manager
<b>Contact Telephone:</b>	(519)287-2015 ext119	<b>Contact Fax:</b>	
<b>Last Inspection Date:</b>	2014/10/01		
<b>Inspection Start Date:</b>	2016/12/07	<b>Inspection Finish Date:</b>	2016/12/07
<b>Region:</b>	Southwestern		

### 1.0 INTRODUCTION

On December 7, 2016, a solid non-hazardous waste disposal site inspection was carried out by Environmental Officer Krysta-Leigh Johnston at the Limerick Road Landfill. The landfill is located on Lot 23, Concession 3, in the Mosa Township of the Municipality of Southwest Middlesex (The Municipality). It is open Wednesdays from 12pm-5pm and Saturdays from 9am-5pm.

This planned and scheduled inspection is part of the Ministry of Environment and Climate Change (MOECC) London District Office's 2016/2017 inspection program. The purpose of the inspection is to assess compliance with the requirements of the Environmental Protection Act, the Ontario Water Resources Act, Regulation 347 (Waste), Certificate of Approval #A041902, and all other applicable Ministry of the Environment policies and guidelines. Site Supervisor Mike Sholdice, from the Municipality of Southwest Middlesex, and Environmental Officer John McGlynn were present during the inspection.

Inspection Note: Changes to the Environmental Protection Act effective in November of 2011 have resulted in Certificates of Approval now being referred to as Environmental Compliance Approvals. This Inspection Report form has not been updated to reflect this change.

### 2.0 INSPECTION OBSERVATIONS

**Certificate of Approval Number(s):**

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A041902

Environmental Compliance Approval # A041902 was issued on August 28, 1980 and approved a 6 hectare (15 acre) waste disposal site in accordance with the application and supporting information forms . The approval was issued originally in 1971 and renewed each year until 1980. After 1980 no renewals were required.

The site is currently approved to receive domestic and solid , non-hazardous industrial waste

There are two conditions on the approval. The first is the requirement to register the approval on title . The second is that the burning of domestic waste at this site is to be discontinued immediately (as of August 28, 1980).

## 2.1 FINANCIAL ASSURANCE:

### Specifics:

Financial assurance is not required , as the landfill is municipally owned and operated .

## 2.2 APPROVED AREA OF THE SITE:

### Specifics:

Limerick Road Landfill is a 6 hectare (15 acre) site surrounded by agricultural and natural areas. The landfill footprint is not defined in the approval but the site supervisor is aware of previous landfilling activities. Mr. Shouldice stated that most of the 6 hectare site has been landfilled at some point, with the exception of the current active cell, and the wooded area to the south of it. The active cell is located to the south of the landfill entrance.

## 2.3 APPROVED CAPACITY:

### Specifics:

There is no approved capacity listed in the approval. The remaining capacity of the landfill is unknown .

The 2004 document commissioned on behalf of the municipality entitled "An Outline of a Strategic Plan for the development of Waste Management Facilities" (later referred to as the Strategic Plan) does not estimate the amount of waste deposited at the site or the remaining site capacity. The Strategic Plan does make a number of recommendations related to site closure .

## 2.4 ACCESS CONTROL:

### Specifics:

The site is fenced and secured by a gate. When open, the site is supervised by a municipal staff member. Signage at the entrance includes hours of operations, approved and unapproved wastes, tipping fees and contact information for the Municipality.



Signage at the landfill entrance

## 2.5 COVER MATERIAL:

### Specifics:

There are no specific requirements for cover material identified on the approval. On the day of the inspection, the area being used for waste tipping was relatively small with soil coverage on the access ramp. Cover material is applied once every two to three weeks, depending on how much waste is received. Cover material is dirt that either originates from the site, or is brought in by road crews digging ditches.

Heavy vegetation surrounding the active landfill has prevented litter from moving off-site. Well worn animal trails were found throughout the landfill, indicating that a pest population is present.



Active landfill area

## 2.6 WASTE BURNING:

### Specifics:

A relatively small burning pile was noted toward the north end of the landfill. There were metal pieces in the burn pile, much of which looked as though it belonged to furniture with metal braces or fixtures. Miscellaneous other pieces of metal (i.e. metal safety inserts for boots) were also noted in the pile. The site supervisor informed us that furniture is no longer burned, but crushed and buried in the landfill. The Municipality is reminded to ensure that only clean wood and brush is burned at the landfill.



Metal in the burn pile

## 2.7 GROUNDWATER/SURFACEWATER IMPACT:

### Specifics:

No groundwater or surface water impacts were noted during the inspection. There are no known monitoring wells within the landfill boundary. The site supervisor indicated that the sandy soils in the landfill generally prevent the accumulation of surface water.

In 1981, the Ministry of the Environment and Climate Change conducted a preliminary hydrogeological assessment of

the site. The report indicated that at the time, the landfill operation was occurring in the north west corner of the site. Three minor concerns were identified in the Discussion section of the report. The report indicated that the water table was shallow in the area of the landfill, and that waste was likely contaminating the shallow aquifer. The report concluded that the threat to groundwater contamination in the bedrock was remote. The report noted that there was a domestic well in the southeast corner of the site, associated with a residence used by the landfill operator, and that the water quality in this well should be examined. The report also indicated that there was some potential for contamination to Fansher Creek from the landfill operation, from two pipes which appear to drain the northern portion of the landfill. Limited sampling at that time did not reveal any water quality impacts to the creek.

## 2.8 LEACHATE CONTROL SYSTEM:

### Specifics:

There is no leachate control system in place at the landfill. No accumulation or flows of leachate were noted during the inspection.

## 2.9 METHANE GAS CONTROL SYSTEM:

### Specifics:

There is no methane gas control system in place at the landfill.

## 2.10 OTHER WASTES:

### Specifics:

ECA number A041902 approved the site to receive domestic wastes and solid, non-hazardous industrial wastes.

The municipality operates recycling and composting programs at the site. The following waste types are being recycled:

- Used tires
- Metal and white goods
- Municipal recycling materials (paper, glass etc.)
- Leaf and yard waste
- E-waste
- Construction and demolition wastes, including shingles, carpeting, porcelain, and concrete.

Paint cans were observed during the inspection. The site supervisor stated that these were dumped at the entrance to the landfill, and that cans with remaining paint would be brought into Lowe's for disposal. The landfill does not currently accept household hazardous wastes.



Paint cans stockpile

## 3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

Previous compliance issues were the burning of materials other than clean wood and brush, as well as accepting wastes other than those listed on the ECA. No unapproved wastes were noted during the inspection.

Metal in the burn pile suggests that materials other than clean wood and brush are still being burned at the landfill. While measures have been put in place to dispose of materials appropriately, the Municipality is reminded that only clean wood and brush can be burned.

#### 4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

**Was there any indication of a known or anticipated human health impact during the inspection and /or review of relevant material, related to this Ministry's mandate?**

No

**Specifics:**

**Was there any indication of a known or anticipated environmental impact during the inspection and /or review of relevant material ?**

No

**Specifics:**

**Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?**

Yes

**Specifics:**

During the inspection, metal was found in the small burn pile in the north end of the landfill. This would suggest that Mosa / Limerick Road Landfill has not fully met its requirements for the burning of clean wood and brush. Burning at the landfill shall not include any Municipal waste as defined by Regulation 347.

"municipal waste" means,

(a) any waste, whether or not it is owned, controlled or managed by a municipality, except,

(i) hazardous waste,

(ii) liquid industrial waste, or

(iii) gaseous waste, and

(b) solid fuel, whether or not it is waste, that is derived in whole or in part from the waste included in clause.

A conversation with the site supervisor demonstrated that the Municipality is taking measures to ensure that materials are disposed of properly. The Municipality is reminded to ensure that only clean wood and brush is burned at the landfill.

**Was there any indication of a potential for environmental impairment during the inspection and /or the review of relevant material ?**

No

**Specifics:**

**Was there any indication of minor administrative non-compliance?**

No

**Specifics:**

#### 5.0 ACTION(S) REQUIRED

1. The Corporation of the Municipality of Southwest Middlesex shall ensure that only clean wood and brush are burned at Limerick Road Landfill. The Municipality shall confirm that they are following their burning procedure by January 30, 2017. Confirmation can be made by email or letter at :


krysta-leigh.johnston@ontario.ca

Ministry of Environment and Climate Change  
733 Exeter Road,  
C/O Krysta-Leigh Johnston  
London, ON  
N6E 1L3

**6.0 OTHER INSPECTION FINDINGS**

No other inspection findings.

**7.0 INCIDENT REPORT**

Applicable  
1703-AH5KE3 



**8.0 ATTACHMENTS**

**PREPARED BY:**

**Environmental Officer:**

**Name:**

Krysta-Leigh Johnston

**District Office:**

London District Office

**Date:**

2016/12/30

**Signature**



**REVIEWED BY:**

**District Supervisor:**

**Name:**

Dan Crompt

**District Office:**

London District Office

**Date:**

2017/01/04

**Signature:**



**File Storage Number:** -

**Note:**

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"