



## Solid Non-Hazardous Waste Disposal Site Inspection Report

|                                 |  |                                |                      |
|---------------------------------|--|--------------------------------|----------------------|
| <b>Client:</b>                  | The Corporation of the Municipality of Southwest Middlesex<br>Mailing Address: 153 McKellar St, Post Office Box, 218, Glencoe, Ontario, Canada, N0L 1M0<br>Physical Address: 153 McKellar St, Southwest Middlesex, Municipality, County of Middlesex, Ontario, Canada, N0L 1M0<br>Telephone: (519)287-2015, FAX: (519)287-2359, email: jfrancisco@southwestmiddlesex.ca<br>Client #: 2308-4XUQEP, Client Type: Municipal Government, NAICS: 913910 |                                |                      |
| <b>Inspection Site Address:</b> | Trillium Drive Landfill Site (Ekfrid Landfill)<br>Address: 3945 Trillium Dr, Southwest Middlesex, Municipality, County of Middlesex, N0L 1M0<br>District Office: London - District<br>LIO GeoReference: Zone: 17, UTM Easting: 445036.6, UTM Northing: 4731827.0, Latitude: 42.736988, Longitude: -81.67147<br>Site #: 7217-67MJFL   |                                |                      |
| <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>    |  |                                |                      |
| <b>Inspection Start Date:</b>   | 2016/10/18   | <b>Inspection Finish Date:</b> | 2017/01/26           |
| <b>Region:</b>                  | Southwestern   |                                |                      |

### 1.0 INTRODUCTION

On October 18, 2016, as part of the Ministry's 2016/2017 inspection program, Provincial Officer John McGlynn conducted an inspection of the Trillium Drive Landfill site (Ekfrid Landfill), located on Lot 22, Concession R1N, in the Ekfrid Township of the Municipality of Southwest Middlesex. The purpose of the inspection was to assess compliance with the requirements of the Environmental Protection Act, the Ontario Water Resources Act, Regulation 347 (Waste), Environmental Compliance Approval (ECA)# A041403, and all other applicable Ministry of the Environment policies and guidelines.

The site is a municipal solid non-hazardous waste disposal site. The site representative for the inspection was Mike Sholdice, Landfill Attendant.

The landfill is currently operating under the original Certificate of Approval issued in 1971 and renewed each year until 1980, after 1980 no renewals were required. The existing ECA does not require the municipality to prepare and implement a design and operations report, or conduct surface and groundwater sampling.

It is my opinion that the existing ECA needs to be updated to include additional requirements that will ensure the municipality is utilizing current best management practices when operating the landfill. The need for a surface/groundwater monitoring program is necessary to provide analytical data that will assist in determining if current/future operations at the landfill are contributing to adverse impacts offsite. As a result, the London District Office has issued a 'Field Alert' to the MOECC Environmental Approvals Branch (EAB) requesting the current ECA be updated and amended to include, but not limited to, requirements for

a Design & Operations Report and establishment of a monitoring/reporting program.

On January 26, 2017 Provincial Officer McGlynn met with the new Southwest Middlesex Public Works Manager, Tara Clayton, to discuss the ongoing concerns with the operations at the landfill, specifically, the issues surrounding exposed waste and leachate management at the site. It was communicated that the London District Office will be issuing a 'Field Alert' requesting the current ECA be updated and amended, and suggested the municipality consider making preparations for the upcoming changes. It is anticipated that the MOECC London District will work closely with the MOECC EAB during the amendment process and will strive to keep the municipality updated on the proposed changes.

## 2.0 INSPECTION OBSERVATIONS

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

A041403

Certificate of Approval number A041403 was issued on July 3, 1980 and approved a 20.2 hectare (50 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 approved to receive domestic, commercial and non-hazardous solid industrial waste and that the approval be a register instrument on title.

### 2.1 FINANCIAL ASSURANCE:

#### **Specifics:**

The site is owned by the municipality, financial assurance requirements do not apply.

### 2.2 APPROVED AREA OF THE SITE:

#### **Specifics:**

Trillium Drive Landfill is a 20.2 hectare (50 acre) site surrounded by agricultural and natural areas. The landfill footprint is not defined in the approval and is difficult to determine where filling has taken place. The active cell which is being filled is identifiable north-east upon entering the landfill. Previous landfill activities which have occurred are generally known by the municipality. The closest residential dwelling was observed to be approximately 250 metres north-east of the landfill. Newbiggen Creek borders the property from the north-east corner to the southeast corner, with drainage from the site being generally directed towards the creek.

### 2.3 APPROVED CAPACITY:

#### **Specifics:**

There is no approved capacity listed in the approval. The remaining capacity at the landfill is currently unknown. There is an active recycling program and refuse is primarily taken to the landfill by residents and Emterra, who performs the municipal collection.

### 2.4 ACCESS CONTROL:

#### **Specifics:**

At the time of the inspection the landfill was observed to have a secure entrance. During the hours of operation the site is supervised by an employee of the County. There are signs posted at the entrance which includes hours of operation, approved wastes, unapproved wastes, and tipping fees.

### 2.5 COVER MATERIAL:

#### **Specifics:**

There are no specific requirements for cover material identified on the approval. At the time of the inspection, the active tipping area was observed to be a large area with exposed waste, considerable in height, with no soil coverage. A large pond of leachate was observed at the base of the exposed waste. Applying regular cover material at the tipping face does not appear to be an operational practice at this site. The application of daily cover assists with reducing odours, controlling litter and controls and reduces amount of leachate accumulation.

**2.6 WASTE BURNING:**

**Specifics:**

At the time of the inspection there was a burn area observed on the south-east side of the landfill. The burn area was observed to only contain brush and clean wood.

**2.7 GROUNDWATER/SURFACEWATER IMPACT:**

**Specifics:**

During the site visit I inspected the vegetative area between the the working face of the landfill and the creek bordering the property. Evidence of previous surface water flowing from the active tipping area to the creek was apparent by the number of water flow paths observed carved in the soil. Leachate impacts to surface water and groundwater is a possibility due to the current waste management practises and excessive amount of leachate observed pooling at the base of the active tipping area. No surface water monitoring or groundwater monitoring has been completed at the site, therefore, it is difficult to determine if the site is contributing to adverse impacts offsite.

**2.8 LEACHATE CONTROL SYSTEM:**

**Specifics:**

The site does not have a leachate collection system. At the time of the inspection a large quantity of exposed leachate was observed pooling at the base of the active tipping area.

**2.9 METHANE GAS CONTROL SYSTEM:**

**Specifics:**

There are no methane gas control requirements or controls for Trillium Drive Landfill.

**2.10 OTHER WASTES:**

**Specifics:**

**3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES**

As a result of the findings from the inspection completed by the MOECC in October 2014 the following actions were required:

1) The Municipality of Southwest Middlesex shall develop a burning procedure, in writing, that shall be implemented at the municipal landfills by no later than November 28, 2014. A copy of this procedure shall be forwarded to the author of this report no later than the above date.

Complied

2) The Municipality of Southwest Middlesex shall immediately stop taking unapproved wastes at the landfill sites. Waste located at the site shall be assessed, characterized, and if found to be subject waste, removed by an approved carrier and disposed of at an approved receiver. Documentation that the wastes were moved by an approved hauler and disposed of at an approved waste site shall be provided to the undersigned provincial officer by no later than November 28, 2014.

Complied

3) The Municipality of Southwest Middlesex shall provide a response in writing describing how the leachate issues identified will be addressed. This response must be provided to the undersigned provincial officer no later than November 28, 2014.

No record of the actions taken by municipality to address the ongoing leachate concerns received.

**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 ?**

No

**Specifics:**

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

Yes

**Specifics:**

At the time of the inspection a large area of exposed leachate was observed to be pooling at the base of the active tipping area in close proximity to adjacent creek.

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

No

**Specifics:**


**5.0 ACTION(S) REQUIRED**

The municipality shall implement the following practices:

- Apply cover material to minimize the size of the uncovered working face.
- Minimize the size of the tipping area and ensure that wastes are pushed into the trench and covered after each day the site receives waste.
  1. By March 3, 2017 provide the undersigned Provincial Officer with a written action plan to address the identified ongoing concerns with leachate management on the site.

**6.0 OTHER INSPECTION FINDINGS**

**7.0 INCIDENT REPORT**

Applicable  
7230-AJ5REV 



**8.0 ATTACHMENTS**

**PREPARED BY:**

**Environmental Officer:**

**Name:**

**John McGlynn**

**District Office:**

**London District Office**

**Date:**

**2017/01/31**

**Signature**



**REVIEWED BY:**

**District Supervisor:**

**Name:**

**Dan Cromp**

**District Office:**

**London District Office**

**Date:**

**2017/01/31**

**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"