



City of  
**Peterborough**

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**TO:** Members of the Waste Management Committee

**FROM:** Melanie Kawalec, Manager of Waste Management

**MEETING DATE:** September 21, 2009

**SUBJECT:** Report WMC09-02  
MOE 2009 Waste Disposal Site Inspection Report

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## **PURPOSE**

A report to update Committee on the Ministry of the Environment's 2009 Inspection of the Peterborough County/City Waste Management Facility.

## **RECOMMENDATION**

That the Waste Management Committee endorse the recommendation as outlined in Report WMC09-02 dated September 21 2009, of the Manager of Waste Management as follows:

That the Waste Management Committee direct staff to prepare a revised Terms of Reference for the Site Liaison Committee to be presented for review at the next Waste Management Committee meeting.

## **BUDGET AND FINANCIAL IMPLICATIONS**

There are no budget implications associated with this report.

## BACKGROUND

The Ministry of the Environment provides annual site inspections of the Peterborough County/City Waste Management Facility in order to ensure compliance with the operating Certificate of Approval. A copy of the draft Waste Disposal Site Inspection Report is attached as Attachment A.

## FINDINGS

A summary of the MOE site inspection comments that require action as well as staff follow-up comment are summarized below.

Condition	MOE Action Required	Staff Follow-up
Condition 5.1	application of appropriate daily cover to be applied to the active face in SFA	Staff noted the comment and practices have been revised accordingly.
Condition 5.2	ensure that cover material is maintained over interim areas of SFA	Staff noted the comment and practices have been revised accordingly.
Condition 5.3	ensure that active and interim areas of the SFA are graded so that surface water does not pool	Staff noted the comment and practices have been revised accordingly.
Condition 5.4	additional litter fences to control wind blown litter in the SFA should be installed.	Staff noted the comment and additional litter fencing will be installed in the SFA to assist in controlling wind blown litter.
Condition 5.5	by October 15, 2009, a report to be provided to MOE detailing how compliance will be achieved with Condition 25.13.6 and Schedule B.	Staff noted the non-compliance items and offer the following report on how compliance will be achieved for Condition 25.13.6 and Schedule B.
Condition 25.13.6	"Monitors 34 and 35 shall be abandoned in accordance with MOE well abandonment requirements in Ontario Regulation 903. Monitors 34 and 35 shall be replaced by another new multilevel monitor located in the shallow and deep overburden. This monitor shall be located at the center point between monitors 33, 37 and 38." Dated June 1999.	Based on staff research, monitors 34 and 35 were decommissioned and replaced in 1999 with monitoring well #100 which was placed between wells 33, 37, and 38. Copies of supporting documentation were sent to the MOE. This supporting documentation meets the original direction required, therefore should satisfy the MOE for compliance.
Schedule B	Schedule B which forms part of Provisional C of A of the original agreement dated December 22, 1993 is the Terms of Reference of the Bensfort Road Landfill Liaison Committee.	Since the formation of the Committee 16 years ago, the role and makeup of the Site Liaison Committee has changed based on the development and operational interest by the neighbouring community. These changes need to be addressed in the C of A, as the Committee is no longer in compliance with the Terms of Reference outlined in the C of A. Staff will introduce this issue to the

		<p>WMC at their meeting on September 21 seeking approval to revise the SLC Terms of Reference.</p> <p>Staff will draft an amended Terms of Reference, which will be presented to the WMC at their meeting on November 9, 2009. Once agreed to, Staff will present the draft Terms of Reference to the SLC at the meeting on January 19, 2010. Once both the SLC and the WMC agree to the revised Terms of Reference, staff will prepare an application for an administrative amendment to C of A A341508. Staff anticipates this will occur in early spring 2010.</p>
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A summary of the other inspection findings are summarized below.

Condition	MOE Inspection Findings	Staff Follow-up
Condition 6.1	staff responsible for the operation of the sewage works associated with the PCCWMF are to hold the appropriate level of licenses.	Staff noted the comment. All leachate collection system monitoring, operations and maintenance staff are certified for sewage works. Staff will ensure that all certificates are up to date, if not then renewal of licenses will be required.
Condition 6.2	a copy of memorandum from Mr. Bruce Metcalfe, dated July 28, 2009, was attached to the Inspection Report for information. Outstanding matters related to the surface water monitoring program will be addressed in the 2009 annual report for the PCCWMF.	Staff have noted the comment and will address surface water monitoring program information, as requested by Mr. Metcalfe, in the 2009 Annual Report.
Condition 6.3	MOE has initiated an internal process whereby staff from the Ministry's EAA Branch proactively update and consolidate the sites certificate.	Staff concur with your comment and welcome a consolidation of the site certificates for ease of use and understanding.

## SUMMARY

Overall, the Peterborough County/City Waste Management Facility is operating in compliance with its Certificate of Approval. The only non-compliant issue noted in the Inspection is the Site Liaison Committee Terms of Reference. As noted in staff comments, a draft revised Terms of Reference will be prepared for review and discussion at the WMC's November meeting.

Submitted by,

Melanie Kawalec,  
Manager Waste Management

Contact Name:

Phone – 742-7777 Ext. 1724

Fax – 876-4621

E-Mail – [Mkawalec@peterborough.ca](mailto:Mkawalec@peterborough.ca)

**Attachment A:** Solid Non-Hazardous Waste Disposal Site Inspection Report



## Solid Non-Hazardous Waste Disposal Site Inspection Report

**Client:** The Corporation of the City of Peterborough  
 Mailing Address: 500 George St N, Peterborough, Ontario, Canada, K9H 3R9  
 Physical Address: 500 George St N, Peterborough, City, County of Peterborough, Ontario, Canada, K9H 3R9  
 Telephone: (705)742-7777, Extension: 1724, FAX: (705)876-4621  
 Client #: 2061-4GSQTM, Client Type: Municipal Government, NAICS: 91391

**Inspection Site Address:** County and City of Peterborough Waste Management Facility (Oton-1)  
 Address: 1260 Bensfort Road, Pl Lots 13 14 15, Con 13 Pl Lots 13 14 15, Conc. 14, former Otonabee Township, Otonabee-South Monaghan, Township, County of Peterborough, K9J 1C4  
 District Office: Peterborough  
 GeoReference: Map Datum: NAD83, Zone: 17, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 716804, UTM Northing: 4900786, UTM Location Description: Next to weigh scales.

<b>Contact Name:</b>	Melanie Kawalec	<b>Title:</b>	Manager of Waste Management
<b>Contact Telephone:</b>	(705)742-7777 ext1724	<b>Contact Fax:</b>	(705)876-4621
<b>Last Inspection Date:</b>	2008/01/29		
<b>Inspection Start Date:</b>	2009/07/08	<b>Inspection Finish Date:</b>	2009/08/19
<b>Region:</b>	Eastern		

### 1.0 INTRODUCTION

The County and City of Peterborough Waste Management Facility (CCPWMF) was inspected to assess compliance with the Certificate and all applicable environmental legislation including Ontario Regulation 347. Prior to the inspection a file review was conducted including but not necessarily limited to: relevant legislation, Certificates of Approval, Annual Reports and previous Ministry inspections/incident reporting. The site is located 6.4 km south of the City of Peterborough on Bensfort Road.

The inspection commenced on Wednesday, July 8, 2009, when a meeting was held at Peterborough City Hall with myself; Ms. Melanie Kawalec, Manager of Waste Management, City of Peterborough; and Mr. Craig Simmons, Coordinator of Waste Operations, City of Peterborough, for the CCPWMF. During the meeting we discussed the conditions on the sites Certificate of Approval.

On Tuesday, July 14, 2009, I conducted a site inspection of the CCPWMF in the company of Mr. Simmons, which included the operating South Fill Area and the "to be developed" North Fill Area.

On Wednesday, August 19, 2009, I conducted a second inspection of the CCPWMF in the company of Ms. Denika Piggott, Summer Student, MOE, and Mr. Simmons.

### 2.0 INSPECTION OBSERVATIONS

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

The site operates under Provisional Certificate of Approval No. A341508 (the Certificate).

Landfilling operations commenced at the CCPWMF in 1981 in the South Fill Area. In July 2002 the CCPWMF became the joint property of the County and City and was renamed the South Fill Area. Approval for the North Fill Area was issued in June 2002. The

South Fill Area is completely separate from the North Fill Area.

The Certificate was originally issued September 1979. In June 1993 and December 1993 the Certificate was reissued revoking all previously issued Certificates for the site. Since that time there have been at least ten notices to the Certificate. The Certificate has not been consolidated since 1993. In general the Certificate is difficult to read, out of date, and contradicts itself. One of the intended results of this inspection is for a new consolidated Certificate to be issued.

#### 2.1 FINANCIAL ASSURANCE:

There is no requirement for financial assurance for this site at the present time.

#### 2.2 APPROVED AREA OF THE SITE:

The approved total area of the site including the South Fill Area and the North Fill Area is 158 hectares.

The approved landfilling area/ footprint of the South Fill Area is 18 hectares. The footprint of the South Fill Area is clearly identifiable and it does not appear that waste is being landfilled outside of the approved area.

The approved landfilling area/ footprint of the North Fill Area is 9.5 hectares. The footprint of the North Fill Area is not clearly identifiable because it has yet to be constructed/ developed. It is expected that construction of the North Fill Area will commence in 2010. Therefore, it does not appear that waste is being landfilled outside of the approved area.

#### 2.3 APPROVED CAPACITY:

The total approved capacity of the site is 1.4 million tonnes. The approved capacity of the South Fill Area is 0.521 million tonnes. It is expected that the South Fill Area will reach its capacity in 2010. Cell 1-West-B was developed in the spring of 2007 and is currently the active landfill area.

The approved capacity of the "to be constructed" North Fill Area is 0.897 million tonnes.

#### 2.4 ACCESS CONTROL:

Access to the site is controlled by fencing around the perimeter of the site. Access points have gates with locks to restrict access during non-operational periods. The site has an attendant on-duty at the weigh scale, tipping face and recycling depot during hours of operation.

#### 2.5 COVER MATERIAL:

The frequency of cover is not specified in the Certificate. The CCPWMF is subject to Ontario Regulation 232/98, which requires that the site be covered with 15 centimetres of cover material daily. Cover material consists of soil material from the site, contaminated soils accepted at the site and processed construction waste. During both site inspections cover material was not adequate allowing litter to become wind blown and odours from the dewatered biosolids to escape.

#### 2.6 WASTE BURNING:

There was no evidence of waste burning at the time of the inspection.

#### 2.7 GROUNDWATER/SURFACEWATER IMPACT:

During the inspection there was no evidence of groundwater or surface water impacts at the site. There was however ponded water located on the active and interim areas of the South Fill Area. The Ministry's Technical Support Section continue to review and provide comments concerning groundwater and surface water monitoring matters related to the site.

#### 2.8 LEACHATE CONTROL SYSTEM:

A leachate control system is required at the CCPWMF and has been installed. The operation of the leachate control system was reviewed with Mr. Simmons and appears to be functioning properly. Leachate is collected from the South Fill Area and is discharged in a sewer main which conveys the leachate to the City of Peterborough Water Pollution Control Plant. Leachate which will be generated from the "to be constructed" North Fill Area will be disposed of in the same manner.

#### 2.9 METHANE GAS CONTROL SYSTEM:

A methane gas control system is required at the CCPWMF and has been installed. The operation of the methane gas control system was reviewed with Mr. Simmons during the inspection and appears to be functioning properly. The methane is currently burned off using one flare located near the public drop off area. It is planned that additional methane gas collection wells will be installed in the South Fill Area. It is being planned that the methane generated from these additional wells and eventually from the North Fill Area will be conveyed to a facility operated by Peterborough Utilities Inc. which will generate electricity.

#### 2.10 OTHER WASTES:

There was no evidence during the inspection that wastes other than solid non-hazardous were being deposited at the site. The site has not accepted fully treated characteristic waste.

The site has weigh scales and a drop-off area for the residents from within the City and County dropping off waste from small vehicles that is later taken to the active land fill cell. Waste accumulated at the public drop-off area is compacted by a backhoe inside the

storage bins and Waste Management Inc., takes full bins to the tipping face in the South Fill Area. Large vehicles and municipal waste vehicles go directly to the tipping face after weighing in. The drop-off area was established in 2006. Currently, cardboard, metals, drywall, shingles, clean wood, tires, construction and demolition (c & d) waste are separated and shipped off-site for recycling as part of the site's waste diversion program. The c & d recyclable materials are removed from the site by M & M Disposal and then once processed are returned to the CCPWMF to be used as cover material. In 2007 the site began issuing fines for unseparated loads of waste. It is currently required that residents separate all organic yard waste (leaves, branches, grass clippings) and this yard waste is taken to a composting facility. The City of Peterborough is planning to implement a household organic waste separation program in which may include the processing of the material adjacent to the current CCPWMF. This program will divert all organic household waste to a composting facility. All large appliances such as ovens, refrigerators, washers and dryers are separated and recycled for metal. All refrigerators are stored up-right and a contractor comes in weekly to remove the Freon and apply tags. In the fall of 2008 the CCPWMF began accepting dewatered biosolids from the City of Peterborough Water Pollution Control Plant.

## **2.11 REVIEW OF OTHER CONDITIONS WITHIN PROVISIONAL CERTIFICATE OF APPROVAL # A341508:**

Condition 25.13.6: The City of Peterborough reports that the monitoring wells required by this condition do not appear to have been installed.

Schedule B (Landfill Liaison Committee): During the inspection I was advised that the current committee doesn't follow the original direction.

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

Action items from the previous inspection conducted on 2008/01/29

1. As per condition 21 of the C of A all complaint forms must be maintained on file at the site during operating hours and made available for review. Including complaints received at the site, at the Otonabee-South Monaghan municipal office, the County office and the City office.

**Inspection observations:** The required records are being kept at the scale house.

2. As per condition 32 of the C of A litter must be cleaned up and controlled as soon as is reasonably practical. Install temporary fencing around the tipping face area, the top of the slope of the south fill area and where applicable to prevent litter from gathering at the fence line bordering Bensfort road.

**Inspection observations:** Wind blown litter continues to be a concern at the site. There was limited litter fencing in place during the inspection period. Mr. Simmons indicated that it is planned that additional litter fences would be installed. Wind blown litter is likely a result of poor daily cover and a large active face.

## **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 ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Yes

Specifics: Non-compliance with Condition 25.13.6 and Schedule B of the Certificate were identified during the inspection.

## 5.0 ACTION(S) REQUIRED

1. The County and City of Peterborough shall ensure that appropriate daily cover is applied to the active face of the South Fill Area.
2. The County and City of Peterborough shall ensure that cover material is maintained over interim areas of the South Fill Area.
3. The County and City of Peterborough shall ensure that the active and interim areas of the South Fill Area are graded in such a manner that surface water is not allowed to pool on the South Fill Area.
4. The County and City of Peterborough should install additional litter fences to control wind blown litter in the South Fill Area.
- \* 5. By October 15, 2009, the City of Peterborough shall provide a report to the undersigned Provincial Officer detailing how compliance will be achieved with Condition 25.13.6 and Schedule B of the Certificate.

## 6.0 OTHER INSPECTION FINDINGS

- WW to level 1
1. The Corporation of the City of Peterborough shall ensure that operators qualified with the appropriate level of license are responsible for the operation of the sewage works associated with the CCPWMF.
  2. Please find attached to this inspection report a copy of Memorandum authored by Mr. Bruce Metcalfe and dated July 28, 2009. The Memorandum is attached for your information and does not require a response at this time. All outstanding matters related to the surface water monitoring program shall be addressed in the 2009 annual report for the CCPWMF.
  3. The Ministry has initiated an internal process whereby staff from the Ministry's EAA Branch proactively update and consolidate the sites Certificate.

## 7.0 INCIDENT REPORT

Not Applicable

## 8.0 ATTACHMENTS

Required attachments:

PREPARED BY:  
Environmental Officer:  
Name:  
District Office:  
Date:  
Signature

REVIEWED BY:

**District Supervisor:**

Name:

District Office:

Date:

Signature:

File Storage Number: SI PT OT CO13 610

**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"