

ENVIRONMENTAL COMPLIANCE APPROVALNUMBER 2005-8RHJL6
Issue Date: February 27, 2012

Clean Harbors Canada, Inc.
4090 Telfer Road
Corunna, Ontario
N0N 1G0

Site Location: 4090 Telfer Road
St. Clair Township, County of Lambton, Ontario

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

- two (2) high density polyethylene geomembranes, used as covers for the two (2) leachate ponds at the site, one for each pond. Each cover is equipped with a vent complete with a ball valve, having an exit diameter of 0.05 metre and extending about 0.05 metre above the cover, used to vent the air inside the cover when leachate is pumped to the pond. The two (2) vents of the covers are combined and the discharge from the vents is sent to a scrubber, with a dilute sodium hydroxide solution or equivalent as scrubbing medium, followed by an activated carbon bed for treatment. The treated discharge from the activated carbon bed exhausts into the atmosphere through a stack, having an exit diameter of about 0.1 metre, extending about 2 metres above grade;

all in accordance with the Application for Environmental Compliance Approval, dated December 19, 2011 and received December 22, 2011 and signed by Michael Parker, Clean Harbors Canada, Inc., and all information and documentation associated with the application including additional information provided by Conestoga-Rovers & Associates on behalf of Clean Harbors Canada, Inc. in an email sent on February 8, 2012 and from Kaitlin Ryan, P.Eng. and in an email sent on February 16, 2012 and from Gordon Reusing, P.Eng., and additional information provided by Clean Harbors Canada, Inc., sent in two (2) emails sent on February 14, 2012 and one (1) email sent on February 15, 2012 and from Michael Parker.

For the purpose of this environmental compliance approval, the following definitions apply:

- (1) "Approval" means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation listed above.

- (2) "Company" means Clean Harbors Canada, Inc. that is responsible for the construction or operation of the Equipment and includes any successors and assigns.
- (3) "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the System is geographically located and operated.
- (4) "Equipment" means the means the two (2) leachate pond covers complete with the vents, the scrubber and the activated carbon bed described in the Company's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval.
- (5) "ESDM Report" means the Emission Summary and Dispersion Modelling Report which was prepared by Conestoga-Rovers & Associates and dated December 2011 submitted in support of the application, and includes any changes to the report made up to the date of issuance of this Approval.
- (6) "Exhausted" means the capacity of the activated carbon in the Equipment to adsorb emissions is reached and the activated carbon bed is no longer able to effectively reduce emissions.
- (7) "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended.
- (8) "Facility" means the entire operation located on the property where the Equipment is located.
- (9) "Manual" means a document or a set of documents that provide written instructions to staff of the Company.
- (10) "Ministry" means the ministry of the government of Ontario responsible for the EPA and includes all officials, employees or other persons acting on its behalf.
- (11) "Test Contaminants" means the compounds contained in Schedule "A" of this Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

OPERATION AND MAINTENANCE

1. The Company shall install a pressure gauge before the ball valve of the vent, for each cover of the leachate ponds, to monitor and record at least daily the pressure of the air inside the covers.
2. The Company shall not allow venting of the two (2) leachate ponds through the vents simultaneously.
3. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:

- (1) prepare, before commencement of operation of the Equipment, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:
 - (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
 - (b) emergency procedures, including spill clean-up procedures;
 - (c) procedures to record the pressure of the air inside the covers;
 - (d) procedures to determine the concentration and the scrubbing chemical to be used in the scrubber;
 - (e) procedures to determine the breakthrough of the activated carbon in the activated carbon bed and the criteria on replacement of the activated carbon;
 - (f) procedures to check for cracks, flaws and pinholes in the covers;
 - (g) procedures to record the date, time, duration and the volume discharged in each venting of the covered ponds, and procedures to monitor the odour impacts off the site due to the venting of the covered ponds at the time of the venting;
 - (h) procedures for any record keeping activities relating to operation and maintenance of the Equipment; and
 - (i) all appropriate measures to minimize odorous emissions from all potential sources;
- (2) implement the procedures, measures and recommendations of the Manual.

4. The Company shall ensure that the activated carbon in the activated carbon bed of the Equipment is not Exhausted at the times of venting of the covered ponds.

EMISSIONS MONITORING

5. The Company shall undertake sampling and testing of the emissions discharged from the Equipment stack in accordance with the following schedule:
 - (1) At first venting of the covered ponds.
 - (2) In summer of 2012.

The sampling and testing shall be designed and conducted to measure the rates of emissions of the Test Contaminants discharged at the Equipment stack. The Company shall notify the District Manager at least fifteen (15) days before each test, to provide an opportunity for the District Manager or its representative to witness the sampling and testing.

6. The Company shall, within three (3) months after the completion of each sampling and testing, update the ESDM Report using the results of the sampling and testing, and submit to the District Manager, as a minimum, a copy of the results of the sampling and testing and a copy of the emission summary table in the updated ESDM Report. This update of the ESDM Report and submission of the updated information are required when the emission rates of the Test Contaminants obtained in the sampling and testing are higher than the emission rates listed in Table A.11B of the ESDM Report.

NOTIFICATION REQUIREMENT

7. The Company shall notify the District Manager, orally and in writing, at least two (2) days before the first venting of the air inside the covers of the leachate ponds and its discharge through the Equipment stack.
8. The Company shall forthwith notify the Ministry of all odour complaint(s) received at the Facility. The notification shall include:
 - (1) a description of the nature of the complaint;
 - (2) the time and date of the incident to which the complaint relates; and
 - (3) a description of the measures taken to address the cause of the incident to which the complaint relates and to prevent a similar occurrence in the future.

RECORD RETENTION

9. The Company shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this Approval, and make these records available for review by staff of the Ministry upon request. The Company shall retain:
 - (1) all records on the maintenance, repair and inspection of the Equipment;
 - (2) all records on the operation of the Equipment;
 - (3) all results of the sampling and testing of the Equipment discharge; and
 - (4) all records of any odour complaint; including:
 - (a) a description, time and date of each incident to which the complaint relates;
 - (b) wind direction at the time of the incident to which the complaint relates; and

- (c) a description of the measures taken to address the cause of the incident to which the complaint relates and to prevent a similar occurrence in the future.

The reasons for the imposition of these terms and conditions are as follows:

1. Conditions No. 1 to 4, both inclusive, are included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the EPA, the regulations and this Approval.
2. Conditions No. 5 and 6 are included to require the Company to gather accurate information so that the environmental impact and subsequent compliance with the EPA, the regulations and this Approval can be verified.
3. Conditions No. 7 and 8 are included to require the Company to notify staff of the Ministry so as to assist the Ministry with the review of the site's compliance.
4. Condition No. 9 is included to require the Company to keep records and to provide information to staff of the Ministry so that compliance with the EPA, the regulations and this Approval can be verified.

SCHEDULE "A"

Test Contaminants

Acetone

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Butanone, 2 -

Carbon Disulphide

Carbon Tetrachloride

Chlorobenzene

Chloroform

Chloromethane

Cyclohexane

Dibromochloromethane

Dibromoethane, 1,2 -

Dichlorobenzene, 1,2 -

Dichlorobenzene, 1,3 -

Dichlorobenzene, 1,4 -

Dichlorodifluoromethane

Dichloroethane, 1,1 -

Dichloroethane, 1,2 -

Dichloroethene, trans-1,2 -

Dichloroethene, 1,1 -

Dichloroethene, cis-1,2 -

Dichloromethane

Dichloropropene, 1,1 -

Dichloropropene, cis-1,3 -

Dichloropropene, Trans-1,3 -

Ethyl Acetate

Ethylbenzene

Ethyltoluene, p -

Heptane

Hexane

Hexachlorobutadiene

Hexanone, 2 -

Isooctane

Isopropyl Alcohol

Methyl Isobutyl Ketone

Methyl t-Butyl Ether

Naphthalene

Styrene

Tetrachloroethane, 1,1,2,2 -
Tetrachloroethene
Tetrahydrofuran
Toluene
Trichlorobenzene, 1,2,4 -
Trichloroethane, 1,1,1 -
Trichloroethane, 1,1,2 -
Trichloroethene
Trichlorofluoromethane
Trimethylbenzene, 1,2,4 -
Trimethylbenzene, 1,3,5 -
Vinyl Acetate
Vinyl Chloride
Xylene, m-, p- and o-
Total Reduced Sulphur Compounds

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, S.O. 1993, c. 28 (Environmental Bill of Rights), the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Environmental Commissioner
1075 Bay Street, Suite 605
Toronto, Ontario
M5S 2B1

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-4506 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.ca, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 27th day of February, 2012



Ian Parrott, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

RW/

c: District Manager, MOE Sarnia District Office
Gordon Reusing, P.Eng., Conestoga-Rovers & Associates