

DATE: <u>12-Dec-16</u> City of Ottawa Combined Sewage Storage PROJECT: <u>Tunnel (CSST)</u> CONTRACTOR: <u>DTJV</u> SUBJECT: <u>Revised General Soil Management Plan</u>	STANTEC REFERENCE: <u>01355.2R2</u> DTJV REFERENCE: <u>01355.2R2</u> PROJECT NO.: <u>1634-01060/58</u> CONTRACT NO.: <u>ISD14-2036</u> SPEC. SECTION: <u>01355</u>		
SUBMITTAL TYPE:			
<input checked="" type="checkbox"/> Shop Drawing <input type="checkbox"/> Sample <input type="checkbox"/> Quality Control <input type="checkbox"/> Other: _____ <input type="checkbox"/> Administrative <input type="checkbox"/> Technical <input type="checkbox"/> Contract Closeout _____			
REVIEW STATUS:			
<input type="checkbox"/> Reviewed (R) <input type="checkbox"/> Not Reviewed (NR) <input checked="" type="checkbox"/> Reviewed as Modified (RAM) <input type="checkbox"/> Revise and Resubmit (RAR) <input type="checkbox"/> Received for Record Purposes (RRP) <input type="checkbox"/> Received for Record Purposes, General Comments Provided (RRP, GCP)			
REVIEWER(S):	Initials:	REVIEWER(S):	Initials:
Jill Peters Dechman	JPD	S. Fradkin	SF
Colin Goodwin	CG		
<p>NOTE: This submittal has been reviewed by Stantec Consulting Ltd. (Stantec) only for general conformance with the design concept and the requirements of the Contract Documents. The Contractor remains solely responsible for the shop drawing(s) and this review by Stantec does not relieve the Contractor of the Contractor's responsibility for errors or omissions in the shop drawing(s) or for meeting all requirements of the Contract Documents. This review does not mean that Stantec approves the detailed design inherent in the shop drawing, responsibility for which shall remain with the Contractor submitting same nor does this review mean that Stantec accepts any deviation of the shop drawing(s) from the Contract Documents. The Contractor is responsible for confirming all dimensions and correlating them at the job site, for all construction means, methods and techniques, and for coordination of construction work of all trades, including coordination of all shop drawings.</p>			
Signature/Date _____			

NO.	COMMENT	RELATED SPEC PARA. / DWG. NO.	REVIEWER	STATUS
1	Fourth paragraph of Section 1.0 Introduction refers to the "Site Waste Management Plan", is this the same document as the "Soil Management Plan" (CSST Shop Drawing 01355.2R2)? Similarly, Sections 1.1, 2.1, and 3.0 refer to the SWMP. It is our understanding that the terms Site Waste Management Plan (SWMP) and Soil	General	JPD/CG	RAM

NO.	COMMENT	RELATED SPEC PARA. / DWG. NO.	REVIEWER	STATUS
	Management Plan refer to the same document which is this General Soil Management Plan (CSST Shop Drawing 01355.2R2). If this interpretation is not correct, DTJV shall notify Stantec-CH2M and modify this submission accordingly.			
2	Contractor response to comment 6 on previous version of the Soil Management Plan states that tarps will be used on top of and beneath stockpiles to prevent runoff. While it was expected that Section 4 of the submittal would be updated to be consistent with this response, we acknowledge that Section 6 was updated with the response instead.	01355/1.6.1.7	SF	RAM

Transmittal Record

To: Gerald Bauer P.Eng Company: Stantec		From: Company: Dragados Tomlinson Joint Venture		
Transmit by:		Courier	E-Mail	Hand
Contractor Health and Safety		Request for Information		
Notice of Intent to Claim		Schedule		
Permit and Approval		Shop Drawing		
Progress Payment Certificate		Other		
Item	Section	Reference Number	Description	

Remarks:

Signature

Date

Comment 1: Quality person has been replaced by “Qualified person” (see modifications).

Comment 2: Construction Waste Management Plan has been replaced by “Soil Waste Management Plan” (see modifications).

Comment 3: Consultant comments are unclear. There is no clause in the specification, requesting for frequency or schedule for Monitoring and Inspection. In the comments Consultant is referring to section 01355 Article 1.6.1, which is Health and Safety and not related to scheduling and frequency of monitoring.

Comment 4: Contractor will submit a detailed management plan for Groundwater.

Comment 5: As it was mentioned in site-specific plan (Site 10 and Site 3a) Tomlinson Industrial Waste Division owns and manages Springhill, Hawthorn and Lacombe sites.

Comment 6: Contractor to use tarps on the top and beneath the stockpiles to prevent runoffs.

DRAGADOS CANADA

TOMLINSON
FOUNDED ON **STRENGTH** GUIDED BY **VISION**

Combined Sewage Storage Tunnel (CSST)

Soil

Management Plan

ISD14-2036 - CSST

1.0 Introduction

The City of Ottawa currently has combined sewers in older areas of the City, which transport sewage and storm water runoff in the same pipe. These systems overflow during rainy seasons causing the basement backups. The excessive water discharges in Ottawa River, causing to deter the quality of water over time.

The purpose development will consist of the construction development of a new Combined Sewage Storage Tunnel (CSST) to improve the water quality of the Ottawa River, further reduce flooding residents in the city core, and allow the City to become fully compliant with the Ministry of Environment's capture and treatment requirements.

Dragados-Tomlinson JV has been awarded a contract by City of Ottawa to procure equipment and materials and construct a new Combined Sewage Storage Tunnel (CSST).

The OPSS Site Management Plan is the primary drive for the Site Waste Management Plan (SWMP).

This document describes the control measures that will be implemented during the project to ensure the compliance with the statutory requirements of OPSS 180 Reg.153 and Reg.347

1.1 Scope and Purpose

DTJV has appointed Palmira Asgaripour primary responsibility for control of waste produced during the construction phase of the Combined Sewage Storage Tunnel (CSST).

The procedure sets out the management framework to ensure that legal and contractual requirements are met through the proposed works, including the requirements of MOE.

The SWMP will be held (as a legally required document) for two years after completion for Environment Agency Audit.

The SWMP will be a 'live document', update to the plan may be necessary; any changes will be recorded along with 'lessons learnt'.

2.0 Key Parties, Personnel And responsibilities

2.1 Contractor Responsibilities

Contractor to ensure the following duties to be carry out during the construction stage:

- Ensuring Cooperation between Contractor/Subcontractor, owner, and receiver sites during the construction phase
- Provide information and training for every worker, with respect to SWMP
- Contractor to ensure that excess material is reused as per Section 01355 Article 1.8
- Contractor to ensure of disposable of OFF-SITE material as per Section 01355 Article 1.9
- Contractor to ensure of disposable of contaminated material as per Section 01355 Article 1.10
- Contractor to retain a Qualified Person (QP) for inspection and testing as per Section 01355 Article 1.8.3.
- Contractor to ensure the waste management to conform to the requirement of OPSS 180

2.2 Qualified Person (QP)

DT JV appointed Palmira Asgaripour as the **Qualified** Person. She is responsible for the following activities in relation to waste management:

- Maintaining and updating the procedures and carrying out regular inspections to ensure compliance with this procedure and complete testing and sampling
- To provide Contractor with direction on soil and groundwater management during the contract
- Complete visual inspection of material to be reused within the Project Site as per section 01355 Article 1.8.4
- Make waste data available to the Project Team
- Ensuring that all waste is dealt with in a safe efficient and legal manner
- Ensuring that all paper work relating to waste management is retained on site
- Provide a notification to the ministry of environment and climate changes (MOECC) as per section 01335 Article 1.5 and OPSS 180.Section 180.04.01.07
- Ensuring that relevant project personnel are provided training on the application of this procedure to their work

- Ensure that each load of waste goes off site under its own waste transfer ticket containing the correct information
- Monitor, and maintain Control of Substance Hazardous to Health
- Assist with any further waste management issues
- Auditing
- QP to retain *Houle Chevrier* on site as a Consultant

2.3 Construction Staff

The Construction Staff are responsible for the following activities in relation to soil management:

- Minimize the generation of waste
- Handle, dispose and segregate all the waste appropriately
- Where in doubt advise should be sought from the Construction Soil Management Plan, Qualified Person and/or Site Engineer
- Reuse soil wherever possible

3.0 Audits

Contractor to ensure all Transfer Notes will be held on site during construction, all documentation will be handed over to the Owner upon completion of the construction works.

The SWMP is considered “live” document and as such will be reviewed on regular basis. The Contractor’s QP will audit the Tomlinson Industrial Waste Division, Hawthorn Fill Site and Springhill Landfill to ensure compliance.

All relevant documents will be update and / or recorded in the SWMP. The records will state the followings:

- Whether the waste is loose or in a container and, if in a container, the type of container used
- The time and place of the transfer
- The name and address of the transferor and the transferee
- Whether the transferor is the producer of the waste
- Provide details of any waste carrier’s registration or any waste management license where used

To ensure the legislative requirements are met. The QP will ensure that the following actions are carried out for all transfers of waste from site:

- Confirm that the waste disposal contractor is a registered waste carrier
- Confirm that the transfer station, recycling facility or disposal site is licensed to handle the type and quantity of waste removed from site
- The QP will verify all waste carrier's licenses and disposal facility through the Environmental Agency
- Copies of waste carrier and management licenses will be held by the QP on site
- Confirm Waste Transfer Notes are completed for all waste removed off site for disposal or recycling

Contractor will ensure that the waste is legally transferred to an authorized party.

4.0 Waste Soil Collection and Segregation Area /Stockpiling

Designated Areas will be located at strategic, positions around the site for collection and segregation of waste produced during construction works. These will be as close as reasonably practicable to the area where waste material is generated.

Removal of the waste will be monitored to ensure that waste removed from site in a timely manner to prevent build up and escape of waste materials.

Contractor will put a silt fence around the stockpiles of contaminated soil during the construction activities to avoid run off.

5.0 Transporting the Contaminants to Other Property

Contractor to ensure that contaminated soil will be transported without contaminating other soils, and be kept away from groundwater and open water flow system.

Contractor will use a certified waste disposal companies for safe transportation of the contaminated soil to registered landfill sites. The truck route will be determined in advance from the originated site to the receiving site prior to material transportation. Noise by law will be respected to avoid of public disturbance. Contractor will provide dust control during the transportation phase. Contractor will remove the Contaminants from the site with compliance to Section R.S.O. 1990, CHAPTER E.19 168.7.1 Environmental Protection Act and as per section 01355 Article 1.9 and 1.10.

Copies of Waste Carrier and Management license and Certificate of Approval from the Waste Receiving Site will be submitted to CA in a submittal form. For fill transferred to other properties the Owner will comply with 180.04.01.04 of OPSS 180 and Section 01355 Article 1.6.11.

6.0 Contaminated Soil

Material arising from excavation of contaminated soil/ structures will be identified and handled of in according with OPSS 180. All arising will be stock piles, tested to be reuse if found suitable. **Contractor to use tarps on the top and beneath of the stockpiles to prevent the run offs.**

7.0 Re-Using soil

Uncontaminated extracted soil will be used as fill material (Backfill and structural fill) on the same site or will be transported where needed for other construction sites.

8.0 Monitoring and Inspection

QP is responsible to carrying out regular inspections to ensure that waste produced on site is dealt within a safe, efficient and legal manner. Waste Stream will be monitored and records will be maintained by the QP.

9.0 Testing and Evaluation

Contractor ensures to test one sample for every 500m³ of material excavated for tunnel muck and one sample for every 200 m³ of excavated soil. Material will be tested at a minimum for BTEX, PHCs, VOCs, PAHs, and metals, (and for phenolic compounds, dioxans and furans, polychlorinated biphenyls (PCBs), pesticides at Site 6 only), and TCLP will be performed on soil as required by landfill to ensure soil is not hazardous.

Contractor will evaluated the excavated soil and compare it against MOECC Table 1, 2, and 3 standards to find the appropriate location to reuse the soil.

Based on the MOECC standards, three material classification types are presented below:

Appendix 9.1

	Description	Material Use
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1	Materila that meet MOECC Table 1- provided the material is free of eleterious and soluble or decomposable chemical substances	Re-use on the Site or dispose of offsite as clean (inert) fill
2	Material that exceeds MOECC Table 1 but meets MOECC Table 3	Re-use on the Site or dispose of offsite at an appropriate Receiving Site (refer to MOECC best management practices- Appendix B)
3	Material that exceeds MOECC Table 3	Dispose of offsite at an approved landfill, Further classify to meet landfill disposal requirements under Ontario Regulation 347

10.0 Site Specific Plan

Contractor will provide CA with a detailed plan (including charts and tables) for every individual site. In this plan the soil characteristic will be closely investigated and analyzed from the collected data for every individual site to make the appropriate interpretations for the proposed use.

10.1 Submittals

The following submittals will be submitted as a separate item along with a specific plan for every individual site as excavation progresses:

1. Health and safety Plan
2. Estimation report for quantities for groundwater and construction water
3. Estimation report for soil and contaminated soil and rock quantities
4. Testing frequency and parameters for excess soil materials.
5. Map of areas where soil segregation is known to be required
6. Contingency plan outlining communication procedures and actions for unexpected contamination
7. Procedure for stockpiling and testing when suspected impacted materials are identified
8. A detailed procedure for screening requirements for waste material and oversized debris
9. Documentation for fill receiving site
10. Documentation for waste receiving sites
11. Permission for disposal from the Owner of the fill and waste receiving site

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12. Impacted material test report according to Ontario Regulation 347 so that it can be sent to a disposal facility

12.0 Training

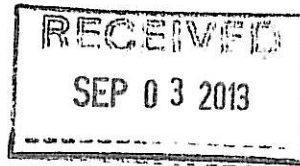
Training will be provided as necessary to ensure that waste is dealt with in a safe, efficient and legal manner. The site induction delivered to all employees working on the proposed development will cover environmental issues including section regarding waste management. 'Tool box' talks will be provided as required and will cover 'Waste Minimization, and Segregation'.

12.1 Phase II EA

The QP will evaluate the phase II EA to help determine the area of particulate concern with contaminates.

13.0 Health and Safety

Contractor will ensure that all the staff are trained and aware of the Hazardous Materials on site as per Occupational Health and Safety Act R.S.O 1990 C.O.1 23(1) and 25(1), and Section 01335 1.10.4.



AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A461402

Issue Date: August 23, 2013

City of Ottawa
110 Laurier Ave W
Ottawa, Ontario
K1P 1J1

Site Location: 7722 Springhill Road
Lot 31, Concession 6
City of Ottawa,
K0A 2P0

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:

the use and operation of 19.2 hectare landfilling area within a total site area of 40.5 hectares, being known as the Springhill Landfill Site, which includes the use of the site only for the disposal of the following categories of waste (Note: Use of the site for additional categories of wastes requires a new application and amendments to the Environmental Compliance Approval): domestic, commercial and non-hazardous solid industrial wastes.

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

"Approval" means this Environmental Compliance Approval, including all items, conditions and Schedules attached to and forming part of this Approval, as amended by the Director.

"Director" means any *Ministry* employee appointed by the Minister pursuant to Part II.1 of the Environmental Protection Act, as amended.

"District Manager" means the District Manager of the local district office of the Ministry in which the Site is geographically located;

"EPA" means *Environmental Protection Act*, R.S.O. 1990, c. E. 19, as amended;

"Facility" means 1.2 hectares area of leased land situated within the 19.2 hectares landfilling area used for the Construction and Demolition Waste Processing Facility as shown on Drawings DWG. 97-1159- SP1, SP2 and SP3 of Item 7, Schedule "A".

"Lease Agreement" means Lease Agreement made the 23 rd day of January, 1998 between The Corporation of the Township of Osgoode and R.W. Tomlinson, trading as Tomlinson Environmental Services and now as Tomlinson Waste Management Inc., Schedule "D" ;

"Ministry" or "MOE" means the Ontario Ministry of the Environment;

"Operator " means any person, other than the Owner's employees, authorized by the Owner as having the charge, management or control of any aspect of the site and includes Tomlinson Waste Management Inc., its successors or assigns;

"Owner " means any person that is responsible for the establishment or operation of the site being approved by this *Approval* , and includes the Corporation of the City of Ottawa, its successors and assigns;

"OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended;

PA means the *Pesticides Act* , R.S.O. 1990, c. P-11, as amended from time to time;

"Provincial Officer " means any person designated in writing by the Minister as a provincial officer pursuant to section 5 of the *OWRA* or section 5 of the *EPA* or section 17 of *PA* .

"Regional Director " means the Regional Director of the local Regional Office of the Ministry in which the Site is located.

"Regulation 232 " or "Reg. 232 " means Ontario Regulation 232/98 (New Landfill Standards) made under the *EPA* , as amended from time to time;

"Regulation 347 " or "Reg. 347 " means Regulation 347, R.R.O. 1990, made under the *EPA* , as amended from time to time;

"RUPO" means the Ministry of the Environment Reasonable Use Policy Objective (MOE Guideline B-7)

"Site " means the entire waste disposal site known as the Springhill Landfill Site, located at 7722 Springhill Road being described as Lot 31, Concession 6, in the former Geographic Township of Osgoode, City of Ottawa.

"The Landlord" means The Corporation of the City of Ottawa;

"The Tenant" means R. W. Tomlinson Limited, trading as Tomlinson Environmental Services and now as Tomlinson Waste Management Inc., the owner and operator of the Construction and Demolition Waste Processing Facility;

"Trained personnel" means knowledgeable in the following through instruction and/or practice:
a. relevant waste management legislation, regulations and guidelines;

- b. major environmental concerns pertaining to the waste to be handled;
- c. occupational health and safety concerns pertaining to the processes and wastes to be handled;
- d. management procedures including the use and operation of equipment for the processes and wastes to be handled;
- e. emergency response procedures;
- f. specific written procedures for the control of nuisance conditions;
- g. Specific written procedures for refusal of unacceptable waste loads;
- h. the requirements 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

GENERAL

Compliance

1. The *Owner* and *Operator* shall ensure compliance with all the conditions of this *Approval* and shall ensure that any person authorized to carry out work on or operate any aspect of the *Site* is notified of this *Approval* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. Any person authorized to carry out work on or operate any aspect of the *Site* shall comply with the conditions of this *Approval* .

In Accordance

3. Except as otherwise provided for in this *Approval* , the *Site* shall be designed, developed, built, operated and maintained in accordance with the "Design and Operations Report, Springhill Landfill", dated April 2013, prepared by Golder Associates, and the supporting documentation listed in Schedule A.

Interpretation

4. Where there is a conflict between a provision of any document, including the application, referred to in this *Approval* , and the conditions of this *Approval* , the conditions in this *Approval* shall take precedence.
5. Where there is a conflict between the application and a provision in any documents listed in Schedule "A", the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the *Ministry* approved the amendment.
6. Where there is a conflict between any two documents listed in Schedule "A", other than the application, the document bearing the most recent date shall take precedence.

7. The conditions of this *Approval* are severable. If any condition of this *Approval*, or the application of any condition of this *Approval* to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this *Approval* shall not be affected thereby.

Freedom of Information Act

8. Any information related to this *Approval* and contained in Ministry files may be made available to the public in accordance with the provisions of the Freedom of Information and Protection of Privacy Act, RSO 1990, CF-31.

Other Legal Obligations

9. The issuance of, and compliance with, this *Approval* does not:
- a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - b. limit in any way the authority of the *Ministry* to require certain steps be taken or to require the *Owner* and *Operator* to furnish any further information related to compliance with this *Approval* ;

Adverse Effect

10. The *Owner* and *Operator* shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the *Site*, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.
11. Despite an *Owner*, *Operator* or any other person fulfilling any obligations imposed by this *Approval* the person remains responsible for any contravention of any other condition of this *Approval* or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.

Change of Owner

12. The *Owner* shall notify the *Director*, in writing, and forward a copy of the notification to the *District Manager*, within 30 days of the occurrence of any changes in the following information:
- a. the ownership of the *Site* ;
 - b. the *Operator* of the *Site* ;
 - c. the address of the *Owner* or *Operator* ;
 - d. the partners, where the *Owner* or *Operator* is or at any time becomes a partnership and a copy of the most recent declaration filed under the *Business Names Act*, R. S. O. 1990, c.

B.17, shall be included in the notification;

13. No portion of this *Site* shall be transferred or encumbered prior to or after closing of the *Site* unless the *Director* is notified in advance and sufficient financial assurance is deposited with the *Ministry* to ensure that these conditions will be carried out. In the event of any change in *Ownership* of the works, other than change to a successor municipality, the *Owner* shall notify the successor of and provide the successor with a copy of this *Approval* , and the *Owner* shall provide a copy of the notification to the *District Manager* and the *Director*.

Certificate of Requirement

14. Pursuant to Section 197 of the *EPA* , no person having an interest in the *Site* shall deal in any way with the *Site* without first giving a copy of this *Approval* to each person acquiring an interest in the *Site* as a result of the dealing.
15. Two copies of a completed Certificate of Requirement, containing a registrable description of the *Site* , shall be submitted to the *Director* for the *Directors* signature.
16. The Certificate of Requirement shall be registered in the appropriate land registry office on title to the *Site* by the *Owner* , and a duplicate registered copy shall be submitted to the *Director* .

Inspections

17. No person shall hinder or obstruct a *Provincial Officer* from carrying out any and all inspections authorized by the *OWRA* , the *EPA* , or the *PA* , of any place to which this *Approval* relates, and without limiting the foregoing:
 - a. to enter upon the premises where the approved works are located, or the location where the records required by the conditions of this *Approval* are kept;
 - b. to have access to, inspect, and copy any records required to be kept by the conditions of this *Approval* ;
 - c. to inspect the *Site*, related equipment and appurtenances;
 - d. to inspect the practices, procedures, or operations required by the conditions of this *Approval* ; and
 - e. to sample and monitor for the purposes of assessing compliance with the terms and conditions of this *Approval* or the *EPA* , the *OWRA* or the *PA* .

Information and Record Retention

18. Any information requested, by the *Ministry* , concerning the *Site* and its operation under this *Approval* , including but not limited to any records required to be kept by this *Approval* shall be provided to the *Ministry* , upon request, in a timely manner. Records shall be retained for at least 5 years except for as otherwise authorized in writing by the *Director*.
19. The receipt of any information by the *Ministry* or the failure of the *Ministry* to prosecute any person or to require any person to take any action, under this *Approval* or under any statute,

regulation or other legal requirement, in relation to the information, shall not be construed as:

- a. an approval, waiver, or justification by the *Ministry* of any act or omission of any person that contravenes any term or condition of this *Approval* or any statute, regulation or other legal requirement; or
- b. acceptance by the *Ministry* of the information's completeness or accuracy.

Design and Operations Report

20. The Design and Operations Report listed as Item 22 in Schedule "A" is hereby approved.

Major Works

21. For the purposes of this *Approval* the following are *Major Works* :

- a. leachate management system;
- b. storm water management system; and
- c. gas management system.

22. A final detailed design shall be prepared for each *Major Work* to be constructed at the *Site* consistent with the conceptual design of the *Site* as presented in the Supporting Documentation listed in Schedule "A". The final detailed design of each *Major Work* shall be submitted to the *Director* , copied to the *District Manager* .

23. The final detailed design of each *Major Work* shall include the following:

- a. design drawings and specifications;
- b. a detailed quality assurance / quality control (QA/QC) program for construction of the major work, including necessary precautions to avoid disturbance to the underlying soils; and
- c. details on the monitoring, maintenance, repair and replacement of the engineered components of the major work, if any.

24. Any design optimization or modification that is inconsistent with the conceptual design shall be clearly identified, along with an explanation of the reasons for the change.

25. No construction of a Major Work shall commence prior the Director approving, in writing, the final detailed design of that Major Work. Each major work shall be constructed in accordance with the approved final detailed design and the QA/QC procedures shall be implemented as approved by the Director.

26. As-built drawings for all *Major Works* shall be retained on site and made available to *Ministry* staff for inspection.

Signs

27. The Owner/Operator shall place a sign at the main entrance to the Site on which is displayed in prominent letters the following information:
 - a. The name of the Site and the Environmental Compliance Approval number for the Site;
 - b. The operating authority, telephone number and mailing address;
 - c. The hours the Site is open to accept waste from the public;
 - d. The telephone number for reporting emergency situations occurring at the Site during non-operating hours;
 - e. The waste acceptable for disposal at the Site; and tipping fee rates.

Site Operation

28. The Site shall be permitted to operate Monday to Saturday 7:00 am and 6:00 p.m. throughout the year. The time of operation can be amended from time to time by writing to the Director or the District Manager.
29. The Owner/Operator shall maintain and use weigh scales to weigh all incoming waste at the Site. The Owner/ Operator shall maintain daily records with monthly summary of the quantity and types of waste disposed of at the Site.
30. The Owner/Operator shall maintain daily records with monthly summary of the quantity of waste such as, wood chips, automobile shredder fluff, and petroleum hydrocarbon contaminated soils which were used for alternative daily cover.
31. The following information shall be recorded on loads refused access to the Site for disposal purposes:
 - a. date;
 - b. name of persons;
 - c. company name on vehicle;
 - d. vehicle description of waste refused;
 - e. reasons for refusals
32. During non-operating hours of the Site, the entrance shall be locked.
33. No waste shall be received at the Site or removed from the Site, unless a Site Supervisor or his/her alternate (s) and/or designated person (s) are present to supervise the operation.

34. The Owner/Operator shall ensure that the Site Supervisor and/or designated alternative person (s) have been adequately trained with respect to the following procedures without limitations:
- a. conditions and Schedules of this Approval;
 - b. the operation and maintenance of this Site;
 - c. relevant waste management regulations and legislation;
 - d. Environmental conditions and concerns related to waste handling operations at the Site;
 - e. Occupational health and safety activities pertaining to the workplace and waste handling operations at the Site.
35. A training plan for all employees that operate any aspect of the *Site* shall be developed and implemented by the *Operator*. Only *Trained Personnel* shall operate any aspect of the *Site* or carry out any activity required under this *Approval*.

Litter Control

36. Litter Control shall be carried out by the Owner/Operator in accordance with procedures described in Schedule "A".

Dust Control

37. The Owner/Operator shall take all necessary mitigative actions for dust control.
38. A dust suppressant shall be applied to the on-site roads, when dust becomes a problem during the dry periods of the year.

Pest Control

39. The Owner/ Operator shall ensure that there are no pests that shall pose a hazard to the health and safety of persons.

Scavenging

40. The Owner/Operator shall ensure that there is no scavenging of waste at the Site.

Odour Control

41. The Owner/Operator shall operate the Site in such a manner to minimize off-Site impact of odours at all time.

Noise Control

42. The Owner/Operator shall operate the Site in such a manner to minimize noise impact from haulage trucks and operating equipment on the natural environment and persons.

Burning Prohibited

43. The Owner/Operator shall ensure that there is no burning of waste, brush, trees, and clean wood at the Site.

Daily Cover

44. The quantity of daily cover material used shall not exceed the 20 % limit of the annual volume of waste received at the Site. In addition, at year end, the stockpiled daily cover material shall be subject to inventory control.
45. The following non-hazardous waste materials may be used as an alternative daily cover:
- a. petroleum hydrocarbon contaminated soils;
 - b. automobile shredded fluff (trial basis, subject to the requirements of Condition 51.(2)), and
 - c. wood chips.
46. The service area for the daily cover material as specified in condition 45 is the City of Ottawa, Ville de Gatineau, the United Counties of Prescott-Russell, the United Counties of Stormont, Dundas and Glengarry, the United Counties of Leeds and Grenville, the United Counties of Lennox and Addington, and the Counties of Lanark, Hastings, Frontenac, Renfrew, Nipissing, Haliburton, Peterborough, Northumberland and Prince Edward as indicated in Item No.6, Schedule "A". Proposed changes to the service area shall be subject to the approval of the Director.
47. The waste material permitted for daily cover use, identified in conditions 45 shall be stored on site in a manner to ensure that they pose no off-site environmental impact, health and safety problems, and do not create a nuisance to persons. The Owner/Operator shall ensure at all times that the alternative daily cover material received outside the Geographic Township of Osgoode as determined by condition 46 is not exceeded. All quantities of alternative cover material which exceed the annual cover material requirements for the Site shall be redirected/diverted to an alternative waste disposal site licensed to receive that material as generated.
48. The use of petroleum hydrocarbon contaminated soils as an alternative daily cover material shall be limited to 50% (percent) of the annual daily cover material requirement as determined by condition 44.
- 48.1 The petroleum hydrocarbon contaminated soils shall be screened to ensure it is non-hazardous, it shall contain no free liquid petroleum hydrocarbon and petroleum hydrocarbon sludge. The contaminated petroleum hydrocarbon soils received at the Site shall be analyzed for the total

petroleum hydrocarbon, benzene, toluene ethylbenzene and xylenes (BTEX) concentrations to ensure it meets Ontario Regulation 347.

The Owner/Operator of the Site shall obtain a certified laboratory copy of the petroleum hydrocarbon contaminated soils analysis from the generator of the contaminated soils to assess its suitability for storage and for the use as an alternative daily cover material on the Site.

49. The volume of the required alternative daily cover material stored at the Site shall not exceed the annual daily cover requirements at the Site and shall meet and not exceed the limitation as indicated in condition 44.
50. The combined quantity of petroleum hydrocarbon contaminated soils, automobile shredder fluff and wood chips shall not exceed 100% of the total annual daily cover material requirements as determined by condition 44.
51.
 - (1) The total quantity of automobile shredder fluff at the Site shall not exceed 50% by volume of the annual daily cover material requirements as determined by Condition 44.
 - (2) Within one year of the initial receipt of automobile shredder fluff for use as alternative daily cover, the Owner/Operator shall submit to the Director a report containing information on leachate toxicity and density, operational guidelines for use of this material as daily cover and an estimate of the quantity of automobile shredder fluff required to obtain the optimal compaction rate for use as daily cover material at the Site.
52. Should the use of the alternative daily cover material pose a danger to the health and safety of any persons or cause a nuisance or result in an off-Site adverse effect, the use of this material shall immediately cease upon the notification by the District Manager to the Owner/Operator.
53. The Owner/Operator shall ensure that waste shall be covered daily and the cover material shall be applied to all exposed waste in accordance with standard practice. The averaged thickness of the daily cover when using an alternative cover material shall not exceed 15 cm. and any proposed changes to the thickness shall require the approval of the Director.
54. A suitable stock pile of clean granular cover material, which shall be equivalent to 50% of the quantity of the required annual daily cover material as outlined in condition 44, shall be maintained at the Site as a contingency measure.
55. The Owner/Operator shall provide in the annual monitoring report a separate progress report for the monitoring of the petroleum hydrocarbon contaminated soil component of the daily cover material. The Owner/Operator shall conduct a groundwater impact study on the petroleum hydrocarbon contaminated soil storage at the Site that shall contain groundwater chemical quality trigger mechanism. In the event the trigger parameters are exceeded a contingency program shall be implemented subject to the approval of the Director.

Intermediate Cover

56. The intermediate cover shall consist of clean soil material and the thickness of the cover shall be a minimum of 300 mm.

Final Cover

57. The *Owner* shall only accept and deposit waste at the site as long as the total site capacity for waste and waste cover does not exceed 1,800,000 cubic metres, and there is available capacity as defined by the final waste contours for the *Site* approved by the Director, in the Design and Operations Report listed as Item 22 in Schedule "A".
58. (1) In areas where landfilling has been completed to final contours, a minimum 0.75 m thick layer of final cover soil shall be placed.
- (2) The material for final cover shall be clean soil meeting the requirements of Table 3 in the Ministry's document titled "Soil, Groundwater and Sediment Standards, for Use Under Part XV.1 of the Environmental Protection Act" and dated April 15, 2011, as amended.
- (3) A layer of minimum 0.15 m thick topsoil that meets the Ontario Ministry of transportation's Specification 572 for construction Seed and Cover shall be placed above the 0.75 m thick soil layer. Fill areas shall be progressively completed and rehabilitated as landfill development reaches final contours.
- (4) The maximum height for the waste and final cover shall not exceed 111.9 metres above the assumed elevation datum.

Groundwater Monitoring

59. The groundwater monitoring program shall be undertaken by the Owner/Operator in accordance with Appendix D of the Design and Operations Report listed as Item 22 in Schedule "A". The Owner/Operator shall provide, with the annual report, an evaluation of the groundwater condition for long term monitoring purposes and the number of wells required on site to provide an accurate configuration of the hydrogeochemical conditions at the Site and proposed changes to the monitoring program shall be subject to the approval of the Director.
60. The Owner/Operator shall follow the groundwater trigger mechanism detailed in Appendix E of the Design and Operations Report listed as Item 22 in Schedule "A". In the event the groundwater trigger criteria is exceeded and it is attributable to contamination originating from the Site, then the Owner/Operator shall provide to the Director a contingency and remediation implementation Schedule plan to address the off-Site contamination. The financial cost for implementing the remedial action plan and abatement program shall be the responsibility of the Owner/Operator. The Contingency plan shall be implemented upon approval of the Director.
61. The leachate attenuation zone as indicated in Plan 96-1147-SP-2 rev. 3 in Item No.4, Schedule "A" and Schedule "B" are the 20 hectares of land situated north of the Site in lot 30, concession 6 in the

Geographic Township of Osgoode. The agreement entered into by R.W. Tomlinson Limited with the former Township of Osgoode (now the City of Ottawa) to use this land as a groundwater easement for landfill leachate attenuation is indicated in Schedule "B".

Surface Water Monitoring

62. (1) The surface water monitoring program shall be conducted as indicated in Appendix D of the Design and Operations Report listed as Item 22 in Schedule "A", proposed changes to the monitoring program shall be subject to the approval of the Director.
- (2) The Owner/Operator shall implement the Surface Water Trigger Mechanism detailed in Appendix F of the Design and Operations Report listed as Item 22 in Schedule "A".
63. Within six months of the issuance of this Approval, the Owner/Operator shall submit to the Director, with copy to the District Manager, an application for approval under Section 53 of OWRA for the storm water management system at the Site.

Complaints Procedure

64. If at any time, the *Owner/ Operator* receives complaints regarding the operation of the *Site*, the *Owner* shall respond to these complaints according to the following procedure:
- a. The *Owner/ Operator* shall record and number each complaint, either electronically or in a log book, and shall include the following information: the nature of the complaint, the name, address and the telephone number of the complainant if the complainant will provide this information and the time and date of the complaint;
 - b. The *Owner/ Operator*, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint and forward a formal reply to the complainant; and
 - c. The *Owner/ Operator* shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents.
65. The *Owner/ Operator* shall designate a person to receive any complaints and to respond with a written notice of action as soon as possible. The *Owner/ Operator* shall post site complaints procedure at site entrance. All complaints and the *Owner/ Operator*'s actions taken to remedy the complaints must be summarized in the Annual Report.

Closure Plan Landfill Site

66. One year before the Site is expected to close and stop receiving waste, as determined by Condition 57, the Owner shall develop and submit an updated Closure Plan. The Closure Plan shall be submitted for

the Director's approval and should outline the post-closure maintenance and monitoring program. The plan shall include, but not be limited to the following:

- (1) Changes to the final contour plan that have occurred and have been previously identified in the annual reports or recommended in the development of the detailed closure plan;
- (2) fencing and access control;
- (3) details of any vegetative planting planned;
- (4) the sequence and schedules for the final cover installation;
- (5) post-closure and end-use plans;
- (6) plans and schedules for the management and continued monitoring of the surface water, groundwater and landfill gas;
- (7) plans and schedules for routine monitoring and maintenance of stormwater facilities;
- (8) plans and schedules for the routine monitoring of leachate seeps, the final cover and Site settlement;
- (9) procedures for record keeping and reporting, complaint contact and response;
- (10) an assessment of the adequacy of and need to implement the contingency plans for surface water and groundwater; and
- (11) an updated estimate of the contaminating life span of the *Site* , based on the results of the monitoring programs to date.

Annual Report

67. The Owner/Operator shall prepare and submit an annual report to the Director by June 1st, of the year following the calendar year covered by the report which shall include as a minimum, but not limited to the following:
- (1) a survey of the Landfill Site waste disposal area conducted every three years and a map illustrating existing contours;
 - (2) a summary of the total annual quantities of waste received on a quarterly basis for the Site;
 - (3) a drawing(s) indicating all groundwater and surface water monitoring locations;
 - (4) tables outlining monitoring locations, analytical parameters sampled and the frequency of

sampling;

- (5) an interpretation of the surface water, groundwater and leachate monitoring data; a review of the adequacy of the monitoring programs; provide conclusions and recommendations for changes made in the monitoring programs;
- (6) an assessment of the groundwater quality as it relates to the RUPO and ODWO;
- (7) an assessment of the surface water quality with respect to the PWQO/Guidelines;
- (8) an update of any changes made in the operations, equipment, or procedures at the Site and Facility and operating difficulties encountered;
- (9) drawings showing the areas of fill, buffer areas, the most recent landfill contours, percentages of available space utilized, and an estimate of the remaining disposal capacity and the landfill life span;
- (10) a summary discussion of landfill daily cover requirements and erosion protection;
- (11) a statement of compliance with all the conditions with respect to the inspection and reporting requirements as indicated in the Approval;
- (12) a summary of any complaints made regarding the landfill Site operations and response from the Owner/Operator and the necessary actions taken to address these complaints;
- (13) recommendations with respect to any proposed changes made in the operation and monitoring programs for the Site; and
- (14) proposed changes made in the operation and monitoring program for the Site shall be subject to the approval of the Director.

Construction and Demolition Waste Processing Facility

68. The Tenant shall use 1.2 hectares area of leased land for the operation of the Facility. Proposed changes such as enlarging the area of operation of the Facility shall be subject to the approval of the Director.
69. The Facility shall be located and operated in such a manner so as not to interfere with the proper operation of the landfill site activities and so as not to create a public nuisance or an environmental impact.
70. The Facility shall not be moved or relocated into footprint areas of the Site where waste cells have reached final contours and/or are partly filled. Any change of location for the Facility shall

require an assessment study addressing the environmental impact and suitability of the location and shall be subject to the approval of the Director.

71. The fines generated by the landfill mining/reclamation operations are deemed waste and shall be treated and handled as such. This waste can be used for purposes of daily and interim cover materials. Storage of these fines on site shall be limited to the approved waste footprint or a designated temporary storage area on the buffer lands on a bermed and lined area. These wastes cannot be used as final cover material except for the bottom 450 mm of the final cover where the thickness of the final cover is 900 mm.

SCHEDULE "A"

This Schedule "A" forms part of this Environmental Compliance Approval No. A461402 and contains an application along with documentation submitted in support of this application:

1. "Springhill Landfill Site Development and Operation Report, Township of Osgoode, lot Concession 6," prepared by Kostuch Engineering Limited, November, 1992.
2. "Phase 2 Hydrogeological Investigation* Springhill Landfill Site, Township of Osgoode, Ontario," prepared by Golder Associates, dated June 14, 1993.
3. "Revisions to Site Development and Operations Report Springhill Landfill Site," prepared by Golder Associates, dated September 10, 1997.
4. "Application to MOE for an Amendment to Provisional Certificate of Approval Number A 461402, Corporation of the Township of Osgoode , Engineering Report File no. 97-1159," prepared by Simmering & Associates and Golder Associates dated December 2, 1997.
5. "Correspondence to MOE from Simmering & Associates Ltd and Golder Associates," dated March 2, 1998, addressing current active landfill area of 16.8 hectares and 2.4 inactive landfill area for the approved 19.2 hectares landfill Site.
6. "Correspondence to G. Carpentier, MOE from M..J. E. Sheflin, P.Eng. Environmental and Transportation Commissioner, Regional Municipality of Ottawa-Carleton granting approval to the Township of Osgoode to receive alternative cover material (waste) from outside the existing service area," dated April 14, 1998.
7. "Tomlinson Environmental Services Ltd. Application to MOE for a Construction and Demolition Waste Processing Facility Lot 31, Concession 6, Township of Osgoode, Engineering Report," prepared by Simmering & Associates Ltd dated January, 1998.
8. "Correspondence to G. Carpentier, MOE from The Corporation Of The Township Of Osgoode, application to MOE for Certificate of Approval No. 710140, Tomlinson Environmental Services

Ltd. Lot 31 Concession 6, Township of Osgoode," dated February 20, 1998.

9. Application for Provisional Certificate of Approval for a Waste Disposal Site, dated November 22, 2000.
10. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated March 13, 2003 including the following attached information:
 - Covering letter dated March 7, 2003 and signed by Dale MacGregor, Safety Director, Tomlinson Limited.
 - Drawing entitled "Tomlinson Environmental Services Inc. - New Scale Location and Proposed Entrance" prepared by Golder Associates.
11. Application for Provisional Certificate of Approval for a Waste Disposal Site, dated March 22, 2005, signed by Kenneth Brothers, City of Ottawa, and all the supporting documentation associated with the application, requesting to change the sequence of filling to Phase 1, Phase 2, Phase 4A, Phase 3, Phase 4B and Phase 5.
12. Report on "Hydrogeological Study and Proposed Landfill Base Improvements in Support of an Application to Amend Certificate of Approval No. 461402 Springhill Landfill Site, City of Ottawa, Ontario" dated December 2004 submitted to Tomlinson Environmental Services Inc., and prepared by Golder Associates Ltd.
13. Application for a Provincial Certificate of Approval for a Waste Disposal Site dated February 8, 2005, signed by Kenneth J. Brothers, Director Utility Services, City of Ottawa.
14. Letter from Golder Associates Ltd. dated November 18, 2005 to Mike Heeringa, Senior Environmental Officer, Ministry of the Environment, Ottawa District Office regarding the Surface Water and Groundwater Technical Comments.
15. Letter from Golder Associates Ltd. dated April 3, 2006 to Mike Heeringa, Senior Environmental Officer, Ministry of the Environment, Ottawa District Office regarding the Supplemental Surface Water and Groundwater Technical Comments and Compliance Inspection Report, Springhill Landfill.
16. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated July 25, 2007 signed by Kenneth J. Brothers and all the supporting documentation included with the application.
17. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated September 10, 2007 signed by Marilyn Harold and all the supporting documentation included with the application.
18. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated June 10, 2008 signed by Albert Shames and the supporting documentation included with the application.
19. Report titled "Application to Amend Certificate of Approval No. A461402 Processing of

Existing On-site Waste Materials Springhill Landfill Site, City of Ottawa, Ontario" dated June 2008 and prepared by Golder Associates Ltd.

20. Report entitled "Assessment Study - Construction & Demolition Waste Processing Facility, Springhill Landfill Site, Geography Township of Osgoode, Ottawa, Ontario" Dated December 2009 prepared by Golder Associates.
21. Letter dated July 12, 2010 addressed to Rick Li, Ministry of the Environment from M. K. Farnel, Golder Associates providing response to MOE comments on the relocation of the C & D Facility.
22. Report entitled "Design and Operations Report, Springhill Landfill" dated April 2013 prepared by Golder Associates.
23. Report entitled "Hydrogeological Investigation between Highway 31 and the Eastern Limit of the Licensed Fill Area, Groundwater Trigger Mechanism and Site Operations, Springhill landfill Landfill Site, Geographic Township of Osgoode, City of Ottawa, Ontario" dated 2001 prepared by Golder Associates.

SCHEDULE "B"

All and Singular that certain parcel or tract of land and premises situate and being in the Township of Osgoode, in the Regional Municipality of Ottawa - Carleton and being composed of the South half of the East Half of Lot 30, in the Sixth Concession of the Township of Osgoode containing a measurement fifty (50) acres more or less.

Save and excepting thereout and therefrom that part of said lands expropriated by the Department of Highway for the widening of the road as more particularly set out in Plan and description registered as No. 16242.

Save and excepting Part 1 on Plan 5R-9743 a reference plan deposited and registered in the Registry Office for the Division of Ottawa - Carleton No. 5

As in Instrument N752414.

This Transfer of easement made this 15 day of September, 1997.

BETWEEN:

R. W. Tomlinson Limited

hereafter called the "Transferor"

AND:

THE CORPORATION OF THE TOWNSHIP OF OSGOODE

hereafter called the "Transferee"

SCHEDULE "C"

This Schedule "C" forms part of the Environmental Compliance Approval No. 461402. It describes the Lease agreement referred to in Conditions 68, 69 and 70.

LEASE AGREEMENT

Lease made the 23 rd day of January, 1998.

BETWEEN:

The Corporation of the Township of Osgoode
Referred to Herein As " The Landlord"

AND:

R. W. Tomlinson Limited, trading as Tomlinson Environmental Services
Referred to Herein as "The Tenant"

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

1. The reason for Conditions 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 18 and 19 is to clarify the legal rights and responsibilities of the Owner and Operator under this Environmental Compliance Approval.
2. The reasons for Conditions 3 and 20 is to ensure that the Site is designed, operated, monitored and maintained in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.
3. The reasons for Conditions 12 are to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval and to ensure that the Director is informed of any changes.
4. The reasons for Condition 13 are to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Environmental Compliance Approval.

5. Conditions 14, 15, and 16 are included, pursuant to subsection 197(1) of the EPA, to provide that any persons having an interest in the Site are aware that the land has been approved and used for the purposes of waste disposal.
6. The reason for Condition 17 is to ensure that appropriate Ministry staff have ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in Environmental Compliance Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA and OWRA.
7. The reason for Condition 21 is to define which aspects of the Site design are to be considered Major Works for the purposes of this Approval.
8. The reason for Conditions 22, 23, 24 and 25 is to ensure that the Site is designed, constructed and operated in an environmentally acceptable manner, based on the conceptual design and operations for the Site. Condition 24 has been specifically included to allow for optimization of design for subsequent stages based on operating experience and monitoring results.
9. The reason for Condition 26 is to ensure the availability of record drawings for inspection and information purposes.
10. The reason for Condition 27 is to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Environmental Compliance Approval.
11. The reason for Conditions 28 through 43 are to ensure the Site is operated in compliance and in accordance with the Environmental Compliance Approval, EPA and other supporting documents submitted in Schedule "A".
12. The reason for Conditions 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, and 56 are to ensure that the daily alternative cover material does not create an impact on the natural environment and does not pose a health and safety problem and create a nuisance to persons.
13. The reason for Condition 46 is to ensure the daily cover material is collected only from the service area as specified in the condition of this Approval.
14. The reason for Conditions 57 and 58 are to ensure that Site capacity is not exceeded beyond final contours and adequate final cover is installed at the Site.
15. The reason for Conditions 59, 60, 61 and 62 are to ensure that the surface water and groundwater monitoring programs are conducted so that the Site is operated in compliance with the Ontario Water Resources Act, Environmental Protection Act and the conditions in this Approval.
16. The reason for Condition 63 is to ensure the storm water at the Site is managed in accordance with the ministry's policy and standards.

17. The reason for Conditions 64 and 65 is to ensure that any complaints regarding landfill operations at this Site are responded to in a timely and efficient manner.
18. The reason for Condition 66 is to ensure that final closure of the Site is completed in accordance with Ministry standards, and to ensure the long-term protection of the health and safety of the public and the environment.
19. The reasons for Condition 67 are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. An annual report is an important tool used in reviewing site activities and for determining the effectiveness of site design.
20. The reasons for Condition 68, 69, and 70 are to ensure that the land area designated for operation of the Facility is not enlarged without the approval of the Director. Also to ensure that the Facility shall be operated so as not to interfere with the landfill Site operation and so as not to cause a public nuisance or an environmental impact.
21. The reason for condition 71 is to ensure the historical waste is removed and the Site is developed and operated in an environmentally secure manner as per the documentation provided to the *Director* for his consideration and approval.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A461402 issued on October 27, 1993

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. 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

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

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

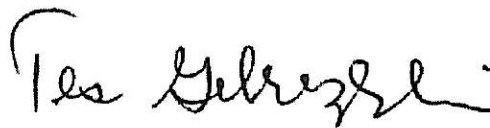
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* 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

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

DATED AT TORONTO this 23rd day of August, 2013

THIS CERTIFICATE WAS MAILED	
ON	AUG 27/13
	AL
(Signed)	



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

RL/

c: District Manager, MOE Ottawa
Michael Walters, Tomlinson Waste Management Inc.
Andrew Benson, Golder Associates Ltd.

AMENDED PROVISIONAL CERTIFICATE OF APPROVAL
WASTE DISPOSAL SITE
NUMBER A460716
Issue Date: July 28, 2010

349977 Ontario Ltd.
(o/a Lacombe Waste Services)
5555 Power Rd
Gloucester, Ontario
K1G 3N4

Site Location: Lacombe Waste Services
Lot Part of 26, Concession 5
Ottawa City,

You have applied in accordance with Section 27 of the Environmental Protection Act for approval of:

a waste disposal site for the transfer/processing of municipal and subject waste, limited as per the conditions of this Certificate

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

1. **"Certificate"** means this entire provisional certificate of approval document, issued in accordance with section 39 of the EPA, and includes any schedules to it, the application and the supporting documentation listed in Schedule "A";

"Director" means any Ministry employee appointed in writing by the Minister pursuant to section 5 of the EPA as a Director for the purposes of Part V of the EPA;

"District Manager" means the District Manager of the local district office of the Ministry in which the Site is geographically located;

"EPA" means Environmental Protection Act, R.S.O. 1990, c. E. 19, as amended;

"Ministry" means the Ontario Ministry of the Environment;

"Operator" means any person, other than the Owner's employees, authorized by the Owner as having the charge, management or control of any aspect of the site, and includes its successors or assigns;

"Owner" means any person that is responsible for the establishment or operation of the Site being approved by this Certificate, and includes 349977 Ontario Ltd., its successors and assigns;

"OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O-40, as amended from time to time;

"PA" means the Pesticides Act, R.S.O. 1990, c. P-11, as amend from time to time;

"Provincial Officer" means any person designated in writing by the Minister as a provincial officer pursuant to section 5 of the OWRA or section 5 of the EPA or section 17 of PA.

"Regional Director" means the Regional Director of the local Regional Office of the Ministry in which the Site is located;

"Reg. 347" means Regulation 347, R.R.O. 1990, made under the EPA, as amended from time to time;

"representative sample" means a representative sample as defined in the Ministry document entitled "Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities", dated May 2007

"Site" means the site and waste management infrastructure located at Lot Part of 26, Concession 5, Ottawa, Ontario, approved by this Certificate;

"Trained personnel" means knowledgeable in the following through instruction and/or practice:

- a. relevant waste management legislation, regulations and guidelines;
- b. major environmental concerns pertaining to the waste to be handled;
- c. occupational health and safety concerns pertaining to the processes and wastes to be handled;
- d. management procedures including the use and operation of equipment for the processes and wastes to be handled;
- e. emergency response procedures;
- f. specific written procedures for the control of nuisance conditions;
- g. specific written procedures for management of unacceptable waste loads;
- h. the requirements of this Certificate.

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

TERMS AND CONDITIONS

GENERAL

Compliance

2. The Owner and Operator shall ensure compliance with all the conditions of this Certificate and shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of this Certificate and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
3. Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Certificate.

Build, etc. in Accordance

4. Except as otherwise provided by this Certificate, the Site shall be designed, developed, built, operated and maintained in accordance with the application for this Certificate dated September 16, 2008, and the supporting documentation listed in Schedule "A".

Interpretation

5. Where there is a conflict between a provision of any document, including the application, referred to in this Certificate, and the conditions of this Certificate, the conditions in this Certificate shall take precedence.
6. Where there is a conflict between the application and a provision in any documents listed in Schedule "A", the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.
7. Where there is a conflict between any two documents listed in Schedule "A", other than the application, the document bearing the most recent date shall take precedence.
8. The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this certificate shall not be affected thereby.

Other Legal Obligations

9. The issuance of, and compliance with the conditions of, this Certificate does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner and Operator to furnish any further information related to compliance with this Certificate.

Adverse Effects

10. The Owner and Operator shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.
11. Despite an Owner, Operator or any other person fulfilling any obligations imposed by this certificate the person remains responsible for any contravention of any other condition of this Certificate or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.

Change of Owner

12. The Owner shall notify the Director in writing, and forward a copy of the notification to the District Manager, within 30 days of the occurrence of any changes:
 - a. the ownership of the Site
 - b. the Operator of the Site;
 - c. the address of the Owner or Operator;
 - d. the partners, where the Owner is or at any time becomes a partnership and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B-17 shall be included in the notification; or
 - e. the name of the corporation where the Owner is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C-39 shall be included in the notification.
13. No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance and sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out. In the event of any change in Ownership of the Site, other than change to a successor municipality, the Owner shall notify the successor of and provide the successor with a copy of this Certificate, and the Owner shall provide a copy of the notification to the District Manager and the Director.

Financial Assurance

14. The Owner shall submit to the Director, within ten (10) days of the date of issuance of this Certificate, Financial Assurance as defined in Section 131 of the EPA, in the amount of \$285,292.77. This Financial Assurance shall be in a form and amount acceptable to the Director and shall provide sufficient funds to pay for compliance with and performance of any action specified in this Certificate, including site clean-up, monitoring and disposal of all quantities of waste on-site, closure and post-closure care of the Site and contingency plans for the Site.
15. A written report reviewing the Financial Assurance required by the conditions in this Certificate shall be submitted to the Director and the District Manager by March 31, 2011, and shall be updated and re-submitted every three years thereafter on the anniversary date. The update shall

include estimates of the amount of Financial Assurance required to facilitate the actions listed under Condition 14 above.

16. If any Financial Assurance is scheduled to expire or notice is received, indicating Financial Assurance will not be renewed, and satisfactory methods have not been made to replace the Financial Assurance at least 60 days before the Financial Assurance terminates, the Financial Assurance shall forthwith be replaced by cash.

Inspections

17. No person shall hinder or obstruct a Provincial Officer in the performance of their duties, including any and all inspections authorized by the OWRA, the EPA or the PA of any place to which this Certificate relates, and without limiting the foregoing to:
 - a. enter upon the premises where the Site is located, or the location where the records required by the conditions of this Certificate are kept;
 - b. have access to, inspect, and copy any records required by the conditions of this Certificate;
 - c. inspect the practices, procedures, or operations required by the terms and conditions of this Certificate; and
 - d. sample and monitor for the purposes of assessing compliance with the conditions of this Certificate or the EPA, the OWRA or the PA.

Information and Record Retention

18. Any information requested, by the Ministry, concerning the Site and its operation under this Certificate, including but not limited to any records required to be kept by this Certificate shall be provided to the Ministry, upon request. Records shall be retained for a minimum of two (2) years from the date of creation, except as otherwise authorized in writing by the Director.
19. The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Certificate or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:
 - a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Certificate or any statute, regulation or other legal requirement; or
 - b. acceptance by the Ministry of the information's completeness or accuracy.

OPERATIONS

Operations

20. This Site is approved for the processing of municipal waste and subject waste, limited as per the Conditions of this Certificate. The Site shall be operated and maintained, and the management

and disposal of all waste shall be carried out, in accordance with the EPA, Regulation 347 and the conditions of this Certificate. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Hours of Operation

21. The Site may accept, transfer and process waste 24 hours a day, 365 days a year.

Service Area

22. Only waste that is generated in Canada and the United States of America shall be accepted at the Site.

Waste Types

23. (a) No wastes other than the following shall be accepted at the Site:
- (i) solid non-hazardous industrial waste;
 - (ii) grease trap waste from industrial, commercial and institutional sources;
 - (iii) hauled sewage (septage);
 - (iv) liquid industrial waste and hazardous waste from industrial, institutional and commercial sources limited to Waste Classes 111 to 114 inclusive, 121 to 123 inclusive, 131 to 135 inclusive, 141 to 150 inclusive, 211 to 213 inclusive, 221, 222, 231 to 233 inclusive, 241, 242, 251 to 254 inclusive, 261 to 270 inclusive, 281, 282, and 331 as described in the New Ontario Waste Classes, January 1986, or as amended.
- (b) No putrescible food-related wastes, other than grease trap waste from industrial, commercial and institutional sources, shall be accepted at the Site.

Waste Storage

24. The amount of waste present at the Site at any one time shall not exceed any of the following:
- (a) 450 tonnes of solid non-hazardous industrial waste;
 - (b) 50 tonnes of solid hazardous waste;
 - (c) 19,021 litres of hauled sewage (septage);
 - (d) grease trap waste not to exceed the limits listed in Condition 25 below; and
 - (e) liquid industrial waste and liquid hazardous waste from industrial, institutional and commercial sources not to exceed the limits listed in Condition 25 below.

(For the purposes of assessing compliance with this Certificate, a general conversion factor for solids to liquids shall be one (1) tonne = 1,000 kilograms = 1,000 litres and will not incorporate the specific gravity of the waste.)

25. All waste shall be stored in accordance with Item 1 of Schedule "A". In addition, the storage of

waste at the Site is further limited to the following containers and locations:

- (a) 11 Above Ground Storage Tanks (AST's) located within the in the Outdoor Tank Farm containing various processed and unprocessed liquid industrial wastes and hazardous wastes not to exceed the limits listed in Schedule "B" of this Certificate. These tanks shall be equipped with operating High Level Alarms that are to be manually actuated every forty five (45) days to ensure that they are functional;
 - (b) 6 AST's, the Sludge Tank, the Flocculation Tank and the Water Tanker in the Water Treatment Area, the 4 AST's in the Indoor Tank Farm containing processed and unprocessed Liquid Industrial Waste not to exceed the limits listed in Schedule "B" of this Certificate. These tanks shall be equipped with operating High Level Alarms that are to be manually actuated every forty five (45) days to ensure that they are functional;
 - (c) Drums, totes and suitable containers of waste as described in Item 1 of Schedule "A" of this Certificate containing various processed and unprocessed Non-Hazardous Solid, Liquid Industrial, Hazardous Wastes and grease trap waste not to exceed 219,418 litres;
 - (d) A maximum of five hundred (500) tonnes of waste contained on the Solidification Pad including Non-Hazardous Solid Industrial Waste derived from the solidification activities and Hazardous Waste bulked at the Site as described in Item 1 of Schedule "A" of this Certificate of which no more than fifty (50) tonnes may consist of Hazardous Waste; and
 - (e) A maximum of 19,021 litres of hauled sewage (septage) stored within a polyethylene above ground storage tank as described in Item 1 of Schedule "A" of this Certificate.
26. The Owner shall ensure that all waste is stored, processed and transferred in accordance with the Ministry document entitled "Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities", dated May 2007, at all times. No incompatible wastes (including wastes contained in separate drums, totes or other containers) shall be stored within the same secondary containment area at the same time.
27. No storage or processing areas, other than those approved under this Certificate, shall be used for waste storage or processing, and no fixed storage tanks or related processing equipment for liquid or subject waste shall be moved, replaced or altered without the advance written approval of the Director. The Owner may replace equipment used to manage solid non-hazardous waste, provided:
- (a) the replacement equipment is substantially similar to the equipment currently in use; and
 - (b) written concurrence from the District Manager is obtained prior to replacing the equipment.

Incoming / Outgoing Waste

28. (a) All incoming and outgoing wastes shall be inspected, tested and characterized by Trained personnel prior to being received, processed, transferred and shipped to ensure wastes are being

managed and disposed of in accordance with the EPA and Reg. 347.

- (b) All testing and characterization shall be carried out in accordance with the criteria and testing methods described in the definitions of "hazardous industrial waste", "acute hazardous waste chemical", "hazardous waste chemical", "severely toxic waste", "ignitable waste", "corrosive waste", "reactive waste", and "leachate toxic waste" listed in Reg. 347.
 - (c) All testing and characterization shall use a representative sample for analysis.
29. (a) Any incoming waste, or any waste discovered on-site, that does not meet the requirements of this Certificate shall be refused and promptly removed from the Site. In the event that any waste load is refused, the Owner shall notify the District Manager within twenty-four (24) hours, and a record shall be made in the daily log book of the reason the waste was refused and the origin of the waste.
- (b) In the event that a manifest correction is required for an incoming waste load, the Owner shall follow the procedure described in s.4.6.3 of the Ministry document entitled "Registration Guidance Manual for Generators of Liquid Industrial and Hazardous Waste" dated December 2009.
30. The total amount of waste leaving the Site for final disposal, comprised of waste from the transfer operation and residual waste arising from the processing operation, shall not exceed 299 tonnes or equivalent per day. This amount does not include treated waste water destined for disposal at ROPEC.
31. Chlorinated solvent being transported from the Site to St. Lawrence Cement is exempt from Part V of the EPA and Reg. 347 provided:
- (a) the solvent meets the following chemical and compositional criteria:
 - (i) has a minimum of 2% chlorine content;
 - (ii) is a complex mixture of chlorinated hydrocarbons in a chlorinated aromatic hydrocarbon base;
 - (iii) does not contain more than 10 ppm of any residual organochlorine pesticides; and
 - (iv) does not contain more than 5 ppm of polychlorinated biphenyls (PCBs);
 - (b) a chemical analysis for each load is submitted to St. Lawrence Cement prior to its use at the facility. The analysis shall include, but not be limited to, the following:
 - (i) percent chlorine content;
 - (ii) concentration of organochlorine pesticides, reported in ppm; and
 - (iii) concentration of PCBs, reported in ppm; and
 - (c) the solvent is transported by a hauler holding a valid waste management system Certificate of Approval directly to the St. Lawrence Cement facility located at 2391 Lakeshore Road West, Mississauga, Ontario for use in the production of reduced alkali.

Processing

32. Notwithstanding the Conditions of this Certificate, no hazardous waste shall be placed on the non-hazardous processing pad at any time. In addition, no processes other than the following shall be carried out at the Site:
- (a) receipt, storage, transfer and shipping of waste as per the Conditions of this Certificate;
 - (b) bulking and blending of liquid waste, subject to the following:
 - (i) only compatible wastes may be bulked or blended;
 - (ii) waste may be filtered to remove solids and debris as part of the bulking and blending process, provided the filtered solids and debris are managed in accordance with the EPA, Reg. 347 and the conditions of this Certificate;
 - (iii) no waste shall be bulked or blended if the only purpose of the bulking or blending is to dilute the waste;
 - (iv) no waste shall be bulked or blended unless the waste has first been tested and characterized;
 - (v) all products of bulking and blending shall be properly characterized (including testing as necessary to establish the correct characterization) before being further processed on-site or being disposed of;
 - (vi) bulking and blending of liquid waste shall otherwise be carried out as described in Item 1 of Schedule "A".
 - (c) neutralization, subject to the following:
 - (i) no wastes other than Waste Class Nos. 111, 112, 113, 114, 121, 122 and 123 shall be neutralized on-site, unless:
 - a. the waste meets the definition of "corrosive waste" in Reg. 347;
 - b. in the written opinion of the on-site Chartered Chemist: (i) neutralization is an acceptable treatment for the waste; (ii) the waste is compatible with the other wastes being neutralized; and (iii) neutralization is the best treatment option available at the Site for the waste; and
 - c. written concurrence is obtained from the on-site Environmental Manager;
 - (ii) no waste shall be neutralized unless the waste has first been tested and characterized;
 - (iii) all products of neutralization shall be characterized (including testing as necessary to establish the correct characterization) before being bulked, blended, further processed on-site or being disposed of;
 - (iv) neutralization shall otherwise be carried out as described in Items 1 and 2 of Schedule "A".
 - (d) wastewater treatment, subject to the following:
 - (i) no waste having the H, A, B, or S hazardous waste characterization suffix shall be treated using the wastewater treatment process;
 - (ii) no waste shall be treated using the wastewater treatment process unless the waste has first

- been tested and characterized;
 - (iii) all products of the wastewater treatment process shall be characterized (including testing as necessary to establish the correct characterization) before being bulked, blended, further processed on-site or being disposed of;
 - (iv) wastewater treatment shall otherwise be carried out as described in Item 1 of Schedule "A".
- (e) solidification of non-hazardous waste, subject to the following:
- (i) no hazardous waste shall be mixed with non-hazardous waste as part of the solidification process;
 - (ii) no waste shall be solidified unless the waste has first been characterized (including testing as necessary to establish the correct characterization);
 - (iii) no waste shall be solidified unless the waste has first been tested, using the solidification agent available on-site, to determine the amount of solidification agent required to solidify the waste;
 - (iv) the Owner may construct a trench in the solidification area and use it to capture excess liquid, provided:
 - (1) the trench is leak-proof;
 - (2) all liquids removed from the trench are managed in accordance with the EPA, Reg. 347 and the conditions of this Certificate; and
 - (3) the site plan is updated to show the trench within thirty (30) days of the completion of construction of the trench.
 - (v) all products of solidification shall be characterized (including testing as necessary to establish the correct characterization) before being further bulked, blended, processed on-site or being disposed of;
 - (vi) solidified waste shall be left to stand for at least one (1) hour before being tested and characterized to ensure that no liquid is evolved;
 - (vii) any material that does not pass the Slump Test described in Schedule 9 of Reg. 347 after solidification shall be disposed of as liquid industrial waste (or as hazardous waste if determined to be hazardous), and any material that is determined to be hazardous waste using the Toxicity Characteristic Leaching Procedure as defined in Reg. 347 shall be disposed of as hazardous waste;
 - (viii) solidification of non-hazardous waste shall otherwise be carried out in accordance with Item 1 of Schedule "A".
- (f) solidification of hazardous waste, subject to the following:
- (i) no hazardous waste shall be mixed with non-hazardous waste as part of the solidification process;
 - (ii) no waste shall be solidified unless the waste has first been tested and characterized;
 - (iii) no waste shall be solidified unless the waste has first been tested, using the solidification agent available on-site, to determine the amount of solidification agent required to solidify the waste;
 - (iv) the Owner may construct a trench in the solidification area and use it to capture excess liquid, provided:

- (1) the trench is leak-proof;
 - (2) all liquids removed from the trench are managed in accordance with the EPA, Reg. 347 and the conditions of this Certificate; and
 - (3) the site plan is updated to show the trench within thirty (30) days of the completion of construction of the trench.
 - (v) all products of solidification shall be characterized (including testing as necessary to establish the correct characterization) before being further bulked, blended, processed on-site or being disposed of;
 - (vi) solidification shall otherwise be carried out as described in Item 1 of Schedule "A".
- (g) sorting and segregation of material received as lab packs;
- (i) all products of sorting and segregation shall be characterized (including testing as necessary to establish the correct characterization) before being bulked, blended, further processed on-site or being disposed of;
 - (ii) sorting and segregation of material received as lab packs shall otherwise be carried out in accordance with Item 1 of Schedule "A".
- (h) aerosol and propane container processing, subject to the following:
- (i) aerosol and propane container processing shall be carried out as described in Item 1 of Schedule "A".
- (i) oil filter draining and crushing, subject to the following:
- (i) oil filter draining and crushing shall be carried out as described in Item 1 of Schedule "A".
- (j) fluorescent lamp crushing, subject to the following:
- (i) fluorescent lamp crushing shall be carried out in accordance with Item 1 in Schedule "A"; and
 - (ii) the Owner may replace the fluorescent lamp crushing unit, provided:
 - (1) the replacement fluorescent lamp crushing unit is substantially similar to the equipment currently in use;
 - (2) the emission performance of the replacement fluorescent lamp crushing unit meets or exceeds the emission performance of the fluorescent lamp crushing unit being replaced; and
 - (3) written concurrence from the District Manager is obtained prior to replacing the fluorescent lamp crushing unit.
- (k) baling of solid non-hazardous waste, subject to the following:
- (i) no waste other than recyclable solid non-hazardous waste shall be baled;
 - (ii) baling shall otherwise be carried out in accordance with Item 1 in Schedule "A".

33. The Owner shall ensure that all processing of hazardous waste at the Site and the disposal of all hazardous waste from the Site is carried out in accordance with Sections 74 through 85 of Reg. 347.
34. The processing activities approved in this Certificate as described in Item 1 of Schedule "A" only permit the de-listing of wastes when received in "Lab Pack" form and the contents of the smaller containers are bulked into larger containers of similar waste characteristics for the sole purposes of transporting waste for final disposal. All other bulking, transferring and processing activities are not permitted to de-list waste with the H, A, B, or S hazardous waste characterization suffix.
35. AST's, drums, totes and other containers used in the storage, transportation or containment of Listed Waste, shall be decontaminated when emptied of their contents with the residual sludges and clean-up material disposed of in accordance with the Reg. 347 prior to that specific container being re-used. Otherwise, any additional waste or materials added to that container will be considered to be derived from that particular Hazardous Waste and shall be managed accordingly.
36. Notwithstanding the Conditions of this Certificate, the Owner shall take all reasonable actions in the way of laboratory, compatibility and bench testing of waste and materials to ensure that the bulking, blending, mixing, transfer and processing of wastes at the Site will not result in uncontrollable reactions that could result in a fire or release of contaminants to the natural environment.
37. (a) Hazardous Industrial Waste (Schedule 1, Reg. 347), Acute Hazardous Waste Chemical (Schedule 2(A), Reg. 347), Hazardous Waste Chemical (Schedule 2(B), Reg. 347) and Severely Toxic Waste (Schedule 3, Reg. 347) may not be mixed, bulked, blended, put into a common container, or processed with any other waste material at the Site unless the procedures specified in this Condition are followed;
 - i. Only compatible wastes may be mixed bulked or blended;
 - ii. A mixture of a Severely Toxic Waste and any other waste(s) is a Severely Toxic Waste;
 - iii. A mixture of an Acute Hazardous Waste Chemical and any other waste(s) except a Severely Toxic Waste is an Acute Hazardous Waste Chemical;
 - iv. A mixture of a Hazardous Waste Chemical and any other waste(s) except a Severely Toxic Waste or an Acute Hazardous Waste Chemical is a Hazardous Waste Chemical; and,
 - v. A mixture of a Hazardous Industrial Waste and any other waste(s) except a Severely Toxic Waste, an Acute Hazardous Waste Chemical or a Hazardous Waste Chemical is a Hazardous Industrial Waste;
- (b) The Owner shall maintain for a minimum of two (2) years, a record available for inspection, tracking the path of waste movement through the Site for Acute Hazardous Waste Chemical, Hazardous Waste Chemical, Hazardous Industrial Waste and Severely Toxic Waste, including as a minimum;
 - i. Date of receipt of the waste, including manifest number;
 - ii. Waste class and waste characteristic;

- iii. Volume or mass of waste received;
- iv. Storage location of the waste(s); and
- v. Date and location of disposal of the Hazardous Waste, including the manifest number.

Labelling

38. The Owner shall clearly label and or sign all waste storage containers at the Site showing; volume, waste class(es), waste characteristic (such as WHMIS and or, TDGA classification when applicable), and shall ensure that the label and or sign are clearly visible for inspection and record keeping. All Non-Hazardous Wastes shall be adequately segregated and contained as to ensure that they do not come into contact with Hazardous Wastes while being stored, transferred or processed at the Site.

Signage

39. A sign shall be posted and maintained at the entrance to the site in a manner that is clear and legible, and shall include the following information:
- a. the name of the Site and Owner;
 - b. this Certificate number;
 - c. the name of the Operator;
 - d. the normal hours of operation;
 - e. the allowed waste types, and any waste types explicitly prohibited by Conditions of this Certificate;
 - f. a telephone number to which complaints may be directed;
 - g. a twenty-four (24) hour emergency telephone number (if different from above); and
 - h. a warning against dumping outside the Site.

Monitoring

40. No later than January 31, 2011 the Owner shall submit a groundwater monitoring program to the Director for approval. The groundwater monitoring program shall include, but not be limited to:
- (a) groundwater monitoring locations;
 - (b) direction of groundwater flow;
 - (c) sampling frequencies; and
 - (d) monitoring parameters for assessment.

Upon approval of the groundwater monitoring program by the Director, the Owner shall include the results from the approved program, with the interpretation of the monitoring results prepared by a qualified hydrogeologist, engineer or scientist, in the Annual Report. The District Manager or the Director may alter the frequencies and locations of sampling and parameters for analysis required by this Condition if he/she considers it necessary for proper assessment of the quality of the groundwater, or if

he/she is requested to do so by the Owner and considers it acceptable by the evidence of information in support of the request.

Vermin, etc.

41. The Owner shall conduct on each operating day a visual inspection of the following areas to ensure the Site is secure and that no off-site impacts such as vermin, vectors, odour, noise, dust and litter, result from the operation of the Site:
- (a) waste loading/unloading areas;
 - (b) waste storage and all associated containment areas including the in-ground storage tanks serving the Processing Pads; and
 - (c) security fence, barriers and property line.

Design and Operations Report

42. The Design and Operations Report, listed as Item 1 in Schedule "A", shall be retained at the Site, kept up to date through periodic revisions, and be available for inspection by Ministry staff. Changes to the Design and Operations Report shall be submitted to the Director for approval before being implemented.

Training Plan

43. The Owner shall ensure through proper written records that all personnel directly involved with activities relating to the Site have been trained with respect to:
- (a) relevant waste management legislation, regulations and guidelines;
 - (b) major environmental concerns pertaining to the waste to be handled;
 - (c) occupational health and safety concerns pertaining to the processes and wastes to be handled;
 - (d) management procedures including the use and operation of equipment for the processes and wastes to be handled;
 - (e) emergency response procedures;
 - (f) specific written procedures for the control of nuisance conditions;
 - (g) specific written procedures for management of unacceptable waste loads;
 - (h) all other requirements of this Certificate.
44. The Owner shall ensure that trained Trained personnel are available at all times during the hours of operation of this Site. No receiving, processing, transfer, shipping or other management of waste shall occur at the Site unless Trained personnel are present.

Site Security

45. The Site shall be maintained in a secure manner, such that unauthorized persons cannot enter the Site.

Site Inspection

46. The Owner shall conduct regular weekly inspections of the equipment and facilities to ensure that all equipment and facilities at the Site are maintained in good working order at all times. Any deficiencies detected during these regular inspections must be promptly corrected. A written record shall be maintained at the Site, which includes the following:
- (a) name and signature of trained personnel conducting the inspection;
 - (b) date and time of the inspection;
 - (c) list of equipment inspected and all deficiencies observed;
 - (d) recommendations for remedial action and actions undertaken including:
 - i. a detailed description of the maintenance activity;
 - ii. date and time of maintenance activity; and
 - iii. any further recommendations required.

Complaint Response

47. If at any time, the Owner receives a complaint regarding adverse effect (as defined in the EPA) due to operation of the Site, the Owner shall respond to the complaint according to the following procedure:
- (a) The Owner shall record and number each complaint, either electronically or in a separate log book, along with the following information:
 - (i) the nature of the complaint,
 - (ii) if the complaint is odour or nuisance related, the weather conditions and wind direction at the time of the complaint;
 - (iii) the name, address and telephone number of the complainant (if provided); and
 - (iv) the time and date of the complaint;
 - (b) The Owner, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint, notify the District Manager of the complaint within 24 hours of receiving the complaint, and forward a formal reply to the complainant; and
 - (c) The Owner shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents. Should subsequent complaints be received following the implementation of corrective action, further corrective actions shall be developed and implemented iteratively until the problem is corrected.

Spills and Emergency Response

48. The Owner shall take immediate measures to clean-up all spills as defined under Part X of the Act, related discharges and process upsets of wastes which result from the operation of the Site. All spills and upsets shall be immediately reported to the Ministry's Spills Action Centre at (416) 325-3000 or 1-800-268-6060. All records shall be recorded in a written log or an electronic file format, referred to in Condition 37 of this Certificate, as to the nature of the spill or upset, and the action taken for clean-up, correction and prevention of future occurrences.
49. (a) The Owner shall ensure that a Spill Contingency and Emergency Response Plan with the following minimum information is kept on-site at all times:
- (i) Maps and drawings showing the location of all waste materials and hazardous products being stored at the Site;
 - (ii) Maps and drawings highlighting areas of the secondary containment for all loading and un-loading, processing and storage areas and associated contingency equipment and spill clean-up materials and their locations throughout the Site;
 - (iii) emergency response procedures to be undertaken in the event of a spill or process upset, including specific methods for each individual type of waste; and,
 - (iv) a notification protocol with current names and telephone numbers of persons to be contacted in the event of an spill or, including company personnel, contractors, provincial and municipal regulatory officials (i.e. Ministry of the Environment, Ministry of Labour, local Fire Department, Medical Officer of Health) and,
- (b) The Spill Contingency and Emergency Response Plan shall be kept up-to-date and be stored in a central location that is accessible to all staff, with a copy submitted to the District Manager and the City of Ottawa.

Closure Plan

50. (a) The Owner shall submit, for approval by the Director, a written Closure Plan for the Site four (4) months prior to the closure of the Site. This plan must include as a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work; and
- (b) Within ten (10) days after closure of the Site, the Owner must notify the Director in writing that the Site has been closed in accordance with the approved Closure Plan.

Record Keeping

51. The Owner shall maintain, at the Site for a minimum of two years, a log book or electronic file format which records daily the following information:
- (a) date of record;

- waste
- (b) types (waste class and primary characteristic), quantities and source of waste received at the Site;
 - (c) quantity and type (waste class and primary characteristic) of waste stored on the Site;
 - (d) quantity (including amount of solidification/stabilization material), type (including residual from processing and processed water to ROPEC) and destination of waste shipped from the Site;
 - (e) all testing and other analytical results; and
 - (f) results of inspections and reports required under this Certificate, including the name and signature of the person conducting the inspection and completing the report.

Annual Report

52. By **March 31, 2011**, and on an annual basis thereafter, the Owner shall prepare and submit to the District Office an Annual Report covering the previous calendar year. Each report shall include, as a minimum, the following information:
- and
- (a) a detailed monthly summary of the type, quantity and origin of all wastes received, processed and transferred from the Site, including the destination, type and quantity of waste destined for final disposal and also including any reconciliations on mass balance made;
 - (b) any environmental and operational problems, that could negatively impact the environment, encountered during the operation of the Site and during the facility inspections and any mitigative actions taken;
 - (c) a statement as to compliance with all Terms and Conditions of this Certificate and with the inspection and reporting requirements of the Conditions herein;
 - (d) any recommendations to minimize environmental impacts from the operation of the Site and to improve Site operations and monitoring programs in this regard; and
 - (e) a detailed section showing the results, interpretation of the results, timetable for implementing recommendations from the approved groundwater monitoring program referred to in Condition

Stormwater Management

53. The Owner shall manage all discharges from the Site including stormwater run-off and processed wastewater in accordance with appropriate Municipal, Provincial and or Federal Legislation, Regulations and By-laws. The Owner shall prepare a stormwater management plan, and shall update the plan as necessary so that the plan is current and up to date. A copy of this plan shall be kept on-site at all times, and shall be made available for inspection upon request.

Schedule "A"

This Schedule forms a part of this Certificate of Approval:

1. Application for a Approval of a Waste Disposal Site dated September 16, 2008, including the document entitled "Lacombe Waste Services Design and Operations Manual" submitted as an attachment to the e-mail from Paul Nagy, Lacombe Waste Services, to Andrew Neill, P.Eng., MOE, dated 9:55 AM June 29, 2010.
2. The letter dated February 10, 2010 prepared by Lacombe Waste Services, detailing the Waste Analysis Plan for the site.

Schedule "B" - Tank Schedule

This Schedule forms a part of this Certificate of Approval:

TANK ID	LOCATION	TANK USE¹	VOLUME (L)
Tank 1	Outdoor Tank Farm	Oily water storage	90,000
Tank 2	Outdoor Tank Farm	Oily water storage	90,000
Tank 3	Outdoor Tank Farm	Oil storage	90,000
Tank 4	Outdoor Tank Farm	Oil storage	90,000
Tank 5	Outdoor Tank Farm	Rich waste storage	25,000
Tank 6	Outdoor Tank Farm	Lean waste storage	25,000
Tank 7	Outdoor Tank Farm	HAL storage	45,437
Tank 9	Outdoor Tank Farm	Oil storage	90,000
Tank 10	Outdoor Tank Farm	Oil storage	90,000
Tank 11	Outdoor Tank Farm	Glycol storage	22,731
Tank 12	Outdoor Tank Farm	Glycol storage	10,900
Coalescing Tank	Wastewater Tank Farm	Water storage	--
Flocculation Tank	Wastewater Tank Farm	Flocculant storage	1,000
Sludge Tank	Wastewater Tank Farm	Water storage	14,000
Water Tanker	--	Water storage	40,000
Tank 50	Wastewater Tank Farm	Water storage	45,461
Tank 51	Wastewater Tank Farm	Water storage	22,136
Tank 52	Wastewater Tank Farm	Water storage	22,136
Tank 53	Wastewater Tank Farm	Water storage	22,668
Tank 54	Wastewater Tank Farm	Water storage	22,668
Tank 55	Wastewater Tank Farm	Water storage	22,730
Tank 56	Wastewater Tank Farm	Water storage	22,730
Tank 57	Wastewater Tank Farm	Water storage	22,730
Tank 58	Wastewater Tank Farm	Water storage	22,730

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

1. The reason for Condition 1 is to simplify the wording of the subsequent conditions and define the specific meaning of terms as used in this Certificate of Approval.
2. The reason for Conditions 2, 3, 5, 6, 7, 8, 9, 10, 11, 18 and 19 is to clarify the legal rights and

responsibilities of the Owner and Operator.

3. The reason for Condition 4 is to ensure that the Site is operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.
4. The reasons for Condition 12 are to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval, and to ensure that the Director is informed of any changes.
5. The reasons for Condition 13 are to restrict potential transfer or encumbrance of the Site without the approval of the Director, and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Certificate of Approval.
6. The reason for Conditions 14, 15 and 16 is to ensure sufficient funds are available to provide for the clean-up of the Site in the event the Owner is unwilling or unable to clean up the Site.
7. The reason for Condition 17 is to ensure that appropriate Ministry staff have ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this Certificate of Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA and OWRA.
8. The reason for Conditions 20, 41 and 53 is to ensure that the Site is operated in a manner which does not result in a nuisance or a hazard to the health and safety of the environment or people.
9. The reason for Condition 21 is to specify the hours of operation for the Site.
10. The reasons for Conditions 22, 23, 24 and 30 are to specify the approved service area from which waste may be accepted at the Site, the types of waste that may be accepted at the Site, the amounts of waste that may be stored and processed at the Site, the maximum rate at which the Site may receive waste, and the maximum rate at which waste may leave the Site, based on the Owner's application and supporting documentation.
11. The reason for Conditions 25, 26 and 27 are to ensure that the storage, processing and transfer of liquid waste is carried out in a manner which minimizes the risk of spills, fire and explosions at the Site.
12. The reasons for Conditions 28 and 29 are to ensure that all incoming wastes are inspected and tested/characterized to ensure compliance with this Certificate, to ensure that a record is made of any waste load refusal, and to ensure proper procedure is followed when making manifest corrections.
13. The reason for Condition 31 is to ensure compliance with Provincial Officer Order No. P451211 issued to St. Lawrence Cement to include the shipment of product solvents from 349977 Ontario Ltd., to be wholly utilized at St. Lawrence Cement in Mississauga.

14. The reasons for Conditions 32, 33, 34, 35, 36, 37 and 38 are to list all approved processes at the Site, to ensure all processing is undertaken in a manner which does not result in a nuisance or a hazard to the health and safety of the environment or people, to ensure that all processing is carried out in accordance with relevant legislation and guidelines, to ensure that decontamination of all containers and vessels is carried out as necessary, to ensure records are kept, and to ensure all containers and vessels are properly labelled with regard to their contents.
15. The reason for Conditions 39 is to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Certificate of Approval.
16. The reason for Condition 40 is to ensure an up-to-date groundwater monitoring program is prepared and implemented at the Site.
17. The reason for Condition 42 is to ensure that an up-to-date Design and Operations Report is maintained on-site at all times.
18. The reason for Condition 43 and 44 is to ensure that the Site is operated by properly Trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.
19. The reason for Condition 45 is to ensure the controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no site attendant is on duty.
20. The reasons for Condition 46 are to ensure that routine Site inspections are completed, and that detailed records of Site inspections are recorded and maintained for inspection and information purposes.
21. The reason for Condition 47 is to ensure that any complaints regarding Site operations at the Site are responded to in a timely manner.
22. The reasons for Conditions 48 and 49 are to ensure that an Emergency Response Plan is developed and maintained at the Site and that staff are properly trained in the operation of the equipment used at the Site and emergency response procedures.
23. The reason for Condition 50 is to ensure that the Site is closed in accordance with Ministry standards in order to protect the health and safety of the public and the environment.
24. The reasons for Condition 51 are to provide for the proper assessment of effectiveness and efficiency of site design and operation, their effect or relationship to any nuisance or environmental impacts, and the occurrence of any public complaints or concerns. Record keeping is necessary to determine compliance with this Certificate of Approval, the EPA and its regulations.
25. The reasons for Condition 52 are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or

monitoring programs are identified. An annual report is an important tool used in reviewing site activities and for determining the effectiveness of site design.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. A460716 issued on May 22, 2003

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, 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 approval or each term or condition in the 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 Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the waste disposal site is located;

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, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Environmental
Commissioner
1075 Bay Street, 6th Floor
Suite 605
Toronto, Ontario
M5S 2B1

AND

The Director
Section 39, *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) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

This instrument is subject to Section 38 of the Environmental Bill of Rights, 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.ene.gov.on.ca, you can determine when the leave to appeal period ends.

The above noted waste disposal site is approved under Section 39 of the Environmental Protection Act.

DATED AT TORONTO this 28th day of July, 2010



Ian Parrott, P.Eng.
Director
Section 39, *Environmental Protection Act*

AN/

c: District Manager, MOE Ottawa
Paul L. J. Nagy, 349977 Ontario Ltd.