



Lindsay Ops Landfill
51 WILSON RD, KAWARTHA LAKES, ON, K9V 4R3

Inspection Report

System Number:
Inspection Start Date: 10/28/2021
Inspection End Date: 11/24/2021
Inspected By: Glenn Rutherford
Badge #: 472

A handwritten signature in black ink, appearing to read "Glenn Rutherford".

(signature)

NON-COMPLIANCE/NON-CONFORMANCE ITEMS

This should not be construed as a confirmation of full compliance with all potential applicable legal requirement and BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: Regulated Activity: WASTE : Landfills

Component Assessed: LANDFILL

Question ID	NOL 1		
Question		Question Type	Legislative Requirement
Does the Open landfill site have an Environmental Compliance Approval (ECA)?		Legislative	EPA 27 (1)
Observation			
<p>Yes</p> <p>An inspection site visit was conducted on October 28, 2021.</p> <p>The 2020 Annual Monitoring Report (AMR) was used as a resource to address inspection questions as needed.</p> <p>This section present some landfill background followed by a discussion of the ECA.</p> <p>Background</p> <p>The Lindsay Ops Landfill site is located at 51 Wilson Road, in the former Township of Ops. The site is just outside the town of Lindsay and is located next to the Lindsay Wastewater Treatment facility. The site is owned by the City of Kawartha Lakes.</p> <p>Landfill operations originally began at the site in 1980. The original landfill at the site is now closed and the currently operating landfill, known as the north expansion area, is located to the north of the closed landfill. The current landfill operation was first approved in 2001.</p> <p>The site consists of a 21.2 hectare waste fill area within a total site area of 53.9 hectares. The landfill site is one of five operating Landfills serving the City of Kawartha Lakes, population approximately 80,000. The site is approved to receive solid, non-hazardous municipal wastes generated within the City of Kawartha Lakes, including residential, commercial, institutional and industrial sectors, contaminated fill, and biosolids (processed organic wastes) restricted to treated and dewatered sewage sludge from the Lindsay Water Pollution Control Plant (WPCP).</p> <p>ECA</p> <p>ECA A321504 was consolidated into a single document dated December 5, 2019 as a "housekeeping" measure to eliminate the seven amending notices and to modernize the ECA wording.</p> <p>A subsequent minor amendment was issued on January 8, 2021. This amendment approved</p>			

changes related to discharge of water from the compost pond. This amendment was incorporated into the main body of the ECA.

Question ID	NOL 3	
Question	Question Type	Legislative Requirement
Does the holder of the landfill ECA own the entire site?	Information	EPA 27 (1), EPA O. Reg. 232/98 3
Observation		
Yes		
The 2020 AMR provides a general description of the CAZ lands for the landfill site, as follows:		
2020 AMR page 2 indicates:		
"The Lindsay WPCP is located immediately west of the original landfill and southwest of the expansion area. The Sturgeon Lake Wetland and the Scugog River are west of the Lindsay WPCP and Landfill Site. The City owns the land to the north of the Site. Immediately south of the Site is Lagoon Road, with the adjacent land south of the road owned by the City as a contaminant attenuation zone (CAZ). Immediately east of the Site is Wilson Road. The City owns all of the properties to the east side of Wilson Road with the exception of one at the northeast corner of Wilson Road and Highway 36."		

Question ID	NOL 2		
Question		Question Type	Legislative Requirement
Is this landfill on Crown land?		Information	Not Applicable
Observation			
No			

Question ID	NOL 4		
Question		Question Type	Legislative Requirement
Does the landfill have a Contaminant Attenuation Zone (CAZ)?		Information	Not Applicable
Observation			
Yes			

Question ID	NOL 5		
Question		Question Type	Legislative Requirement

Is the CAZ on Crown land?	Information	Not Applicable
Observation		
No		

Question ID	NOL 13	
Question	Question Type	Legislative Requirement
Are access roads and on-site roads provided so that vehicles hauling waste to and on the site may travel readily on any day under all normal weather conditions?	Information	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 14	
Question	Question Type	Legislative Requirement
Is site access limited to times when an attendant is on duty?	Legislative	EPA 27 (1)
Observation		
<p>Yes</p> <p>Access to the site is controlled. The site is fenced and gated. When open all vehicles entering the site must pass the scale house.</p> <p>Current site public operating times: (Winter and summer hours) Monday: 8am to 5pm Tuesday: 8am to 5pm Wednesday: closed Thursday: 8am to 5pm Friday: 8am to 5pm Saturday: 8am to 3pm</p>		

Question ID	NOL 15	
Question	Question Type	Legislative Requirement
Does the site only receive waste from within its approved service area?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 16	
Question	Question Type	Legislative Requirement

Is the site required to have a ground water monitoring program by the ECA?	Information	Not Applicable
Observation		
Yes		

Question ID	NOL 17	
Question	Question Type	Legislative Requirement
Is the site implementing the groundwater monitoring program as required by the ECA?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 18	
Question	Question Type	Legislative Requirement
Are monitoring well samples taken and tested to determine the quality of the ground water?	Legislative	EPA 27 (1), EPA O. Reg. 232/98 25
Observation		
Yes		

Question ID	NOL 19	
Question	Question Type	Legislative Requirement
Is the ministry concerned with the results of the samples that have been tested?	Information	Not Applicable
Observation		
<p>No</p> <p>Groundwater monitoring results from the AMR for the site are periodically reviewed.</p> <p>Based on a limited review of the 2019 AMR for this inspection report, the 2019 AMR's main conclusions appear to be that the contaminate plume from the old landfill does not extend significantly beyond the old landfill site boundary and that loadings to the bedrock aquifer from the landfill are considered acceptable. A single round of PFAS sampling was evaluated.</p> <p>As well, the 2019 AMR does not identify any Reasonable Use Guideline concerns with the site.</p> <p>PFAS sampling has been undertaken at the site and this may assist in identifying the landfill groundwater plume from any other contaminant plume associated with the sewage lagoons or off-site sources.</p>		

Question ID	NOL 20		
Question		Question Type	Legislative Requirement
Is there ongoing abatement to address any concerns the ministry has with the ground water monitoring?		Information	Not Applicable
Observation			
No			

Question ID	NOL 21		
Question	Question Type	Legislative Requirement	
Is the site required to manage leachate by the ECA?	Information	Not Applicable	
Observation			
Yes			
Leachate control at the site is provided by the following:			
<ul style="list-style-type: none">- An engineered leachate collection system constructed to service the north expansion area. This includes Cells 1, 2, 3, and 6, and more recently Cells 4 and 5 (north half).- The old landfill is serviced by a perimeter leachate collection system installed as part of the site closure but has no base liner system. As well, the old landfill is capped with a synthetic membrane to prevent precipitation from infiltrating to the waste mound.			
Additionally, sewage from the onsite buildings, septage from the RV dumping station are directed to leachate pump chambers.			
Leachate is pumped to the water pollution control plant for treatment and disposal.			
Leachate flow volumes are monitored at the water pollution control plant. The total leachate/groundwater volume pumped in 2020 was approximately 47,235 cubic metres with the majority coming from the landfill expansion area.			
As per ECA Condition 5.16, annual high pressure flushing and CCTV video inspection of the collection system is completed. The CCTV video inspection was in progress on the day of the inspection.			

Question ID	NOL 22		
Question		Question Type	Legislative Requirement
Is the landfill implementing the procedures required by the ECA to manage leachate?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	NOL 23		
Question		Question Type	Legislative Requirement
Are samples taken to monitor leachate quality?		Legislative	EPA 27 (1), EPA O. Reg. 232/98 26
Observation			
Yes			

Question ID	NOL 24		
Question		Question Type	Legislative Requirement
Is the ministry concered with the leachate quality?		Information	Not Applicable
Observation			
No			

Question ID	NOL 25		
Question		Question Type	Legislative Requirement
Is there ongoing abatement to address any concerns the ministry has with the leachate monitoring?		Information	Not Applicable
Observation			
No			

Question ID	NOL 26		
Question		Question Type	Legislative Requirement
Is the site required to manage landfill gas by the ECA?		Information	Not Applicable
Observation			
<p>Yes</p> <p>The Lindsay Ops Landfill is equipped with landfill gas collection. Landfill gas collection wells were added to the older sections of the landfill post-closure while the newer cells were engineered and built with landfill gas collection systems.</p> <p>Landfill gas is collected and pumped to a central facility which cleans the gas for use in engines which are used to generate electricity. The facility is also equipped with a landfill gas flare which operates when the engines are not operational and for burning off wastes from the siloxane filter.</p> <p>The 2020 AMR reports that the landfill gas monitoring program continues to confirm that methane gas from the landfill is not migrating off-site at significant levels. Significant detections of methane gas are found on-site at locations near the waste mound but significant concentrations are not found beyond the vicinity of the waste mound.</p>			

Question ID	NOL 27		
Question		Question Type	Legislative Requirement
Is the site implementing the landfill gas manangement requirements in the ECA?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	NOL 29		
Question		Question Type	Legislative Requirement
Is the ministry concerned with landfill gas at this site?		Information	Not Applicable
Observation			
No			

Question ID	NOL 30		
Question		Question Type	Legislative Requirement
Is there ongoing abatement to address any concerns the ministry has with landfill gas at this site?		Information	Not Applicable
Observation			
No			

Question ID	NOL 31		
Question		Question Type	Legislative Requirement
Is the site required to have a surface water monitoring program by the ECA?		Information	Not Applicable
Observation			
Yes			
Reviews of previous AMRs have suggested some possible impacts to the Scugog River from either the landfill, the Lindsay Water Pollution Control Plant or another nearby but off-site source. PFAS monitoring that is currently underway and additional sample results may assist in ruling out the landfill as a source of this contamination.			

Question ID	NOL 32		
Question		Question Type	Legislative Requirement
Is the site implementing the surface water monitoring program as required by the ECA?		Legislative	EPA 27 (1)
Observation			

Yes

Question ID	NOL 33	
Question	Question Type	Legislative Requirement
Is the water quality being monitored/sampled for surface water features on-site and for any off-site surface water features that receive run-off from the site?	Legislative	EPA 27 (1), EPA O. Reg. 232/98 24
Observation		
Yes		

Question ID	NOL 34		
Question		Question Type	Legislative Requirement
Are there water quality concerns with the results of the samples that have been tested?		Information	Not Applicable
Observation			
No			

Question ID	NOL 35		
Question		Question Type	Legislative Requirement
Is there ongoing abatement to address any concerns the ministry has with the surface water monitoring?		Information	Not Applicable
Observation			
No			

Question ID	NOL 36		
Question		Question Type	Legislative Requirement
Is proper equipment available for the compaction of waste and applying cover material?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	NOL 37	
Question	Question Type	Legislative Requirement
Is the landfill able to accurately determine the amount of waste received?	Legislative	EPA 27 (1)
Observation		

Yes

Question ID	NOL 38		
Question		Question Type	Legislative Requirement
Are all disposal operations at the site adequately and continually supervised?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	NOL 39		
Question		Question Type	Legislative Requirement
Does the landfill operator have a site inspection program as required by the ECA?		Information	Not Applicable
Observation			
Yes			

Question ID	NOL 40		
Question		Question Type	Legislative Requirement
Does the landfill operator have a procedure in place to address issues identified by staff during the site inspection?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	NOL 41		
Question	Question Type	Legislative Requirement	
Is the waste being compacted adequately?	Legislative	EPA 27 (1)	
Observation			
Yes			

Question ID	NOL 42		
Question		Question Type	Legislative Requirement
Is Daily cover applied to the waste at the end of each working day or as otherwise specified in the ECA?		Legislative	EPA 27 (1), EPA O. Reg. 232/98 7
Observation			
Yes			

--

Question ID	NOL 43	
Question	Question Type	Legislative Requirement
Are procedures implemented to control rodents or other animals and insects at the site?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 44	
Question	Question Type	Legislative Requirement
Is site access restricted by use of a gate, fence, or physical barrier when the site is not operating?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 45	
Question	Question Type	Legislative Requirement
Is the waste disposal area adequately screened from public view?	Legislative	EPA 27 (1)
Observation		
Yes		
The active waste disposal area is visible from the access road but cannot be observed from local public roads.		

Question ID	NOL 46	
Question	Question Type	Legislative Requirement
Are daily records of site operations available at the site for at least the past 2 years or as otherwise required by the ECA?	Legislative	EPA 27 (1), EPA O. Reg. 232/98 21
Observation		
Yes		

Question ID	NOL 47	
Question	Question Type	Legislative Requirement
Has the annual operations report been submitted to MECP or	Legislative	EPA 27 (1)

available on site as required by the ECA?		
Observation		
Yes		

Question ID	NOL 48	
Question	Question Type	Legislative Requirement
Is scavenging being prevented?	Legislative	EPA 27 (1), EPA O. Reg. 232/98 23
Observation		
Yes		

Question ID	NOL 51	
Question	Question Type	Legislative Requirement
Is the landfill only accepting the types of waste that they are approved to receive?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 52	
Question	Question Type	Legislative Requirement
Does the landfill have a waste refusal procedure in place to manage waste that arrives at the site that the site is not approved the accept?	Information	Not Applicable
Observation		
Yes		

Question ID	NOL 53	
Question	Question Type	Legislative Requirement
is the waste refusal procedure being followed?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 54	
Question	Question Type	Legislative Requirement
Does the landfill have a procedure in place to address and	Legislative	EPA 27 (1)

document spills and fires?		
Observation		
Yes		

Question ID	NOL 55	
Question	Question Type	Legislative Requirement
Does the landfill have emergency contingency plan as required by the ECA?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 59	
Question	Question Type	Legislative Requirement
Does the landfill have a procedure in place to address complaints?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 61	
Question	Question Type	Legislative Requirement
Has the landfill operator developed a Design and Operations Manual?	Information	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 62	
Question	Question Type	Legislative Requirement
Is the Design and Operations Manual up to date?	Information	Not Applicable
Observation		
Yes		

Question ID	NOL 63	
Question	Question Type	Legislative Requirement
Does the landfill operator have training procedures for site personnel?	Legislative	EPA 27 (1)
Observation		

Yes

Question ID	NOL 64	
Question	Question Type	Legislative Requirement
Is the landfill operator following the established training procedures?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	NOL 65		
Question	Question Type	Legislative Requirement	
Has the Certificate of Requirement been registered on Title?	Legislative	EPA	27 (1)
Observation			
Yes			

Question ID	NOL 60		
Question		Question Type	Legislative Requirement
Has the landfill operator addressed the complaints to the satisfaction of the ministry?		Legislative	EPA 27 (1)
Observation			
Yes			

Ministry Program: Regulated Activity: WASTE : Receiver Transfer Processing
Component Assessed: HOUSEHOLD HAZARDOUS WASTE DEPOT

Question ID	1-E2RB6L		
Question		Question Type	Legislative Requirement
Is the site only accepting wastes limited to the types specified in the ECA?		Legislative	EPA 27 (1)
Observation			
Yes			
The site is only collecting the waste classes identified in the ECA.			
Collected wastes are picked up by Terrapure. Collection is generally completed weekly with fewer collections during winter months as received volumes decrease.			

Question ID	1-E2TK4R	
Question	Question	Legislative

	Type	Requirement
Is waste received at the Site within the approved limits as specified in the ECA?	Legislative	EPA 27 (1)
Observation		
Yes		
All waste volumes are recorded via the manifests and tracked.		

Question ID	1-E2TK4Z	
Question	Question Type	Legislative Requirement
Are wastes stored and handled in accordance with the ECA conditions?	Legislative	EPA 27 (1)
Observation		
Yes		
Collected materials are stored in drums. Separate drums are used for each waste class. Drums are provided by the carrier.		

Question ID	1-E2TODX	
Question	Question Type	Legislative Requirement
Are waste areas of the site being inspected, as specified in the ECA?	Legislative	EPA 27 (1)
Observation		
Yes		

Question ID	1-E2TOEX	
Question	Question Type	Legislative Requirement
Are trained/competent personnel inspecting the waste areas, as specified in the ECA?	Legislative	EPA 27 (1)
Observation		
Yes		
All staff working in the HHW depot are trained. This includes TDGA training every 3 years.		

Question ID	1-E2TOF5	
Question	Question Type	Legislative Requirement
Is the site maintaining records on incoming, outgoing, and waste storage amounts, as specified in the ECA?	Legislative	EPA 27 (1)

Observation
Yes

Question ID	1-E2TOBB		
Question		Question Type	Legislative Requirement
Are wastes stored in accordance with the storage duration limits specified in the ECA?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	1-E2TOD5		
Question		Question Type	Legislative Requirement
Are wastes stored and handled in accordance with any additional or site-specific requirements as specified in the ECA?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	1-E2TOCF		
Question		Question Type	Legislative Requirement
Are wastes stored in accordance with the storage quantity limits specified in the ECA?		Legislative	EPA 27 (1)
Observation			
Yes			

Question ID	1-E2TOCN		
Question		Question Type	Legislative Requirement
Are wastes stored in accordance with the storage locations specified in the ECA?		Legislative	EPA 27 (1)
Observation			
Yes			