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TOWNSHIP OF LEEDS AND THE THOUSAND ISLANDS

**Escott Waste Disposal Site
201- Annual Monitoring, Development and
Operations Report**



Appendix D-Monitoring and Screening Checklist General Information and Instructions

General Information: The checklist is to be completed, and submitted with the Monitoring Report.

Instructions: A complete checklist consists of:

- (a) a completed and signed checklist, including any additional pages of information which can be attached as needed to provide further details where indicated.
- (b) completed contact information for the Competent Environmental Practitioner (CEP)
- (c) self-declaration that CEP(s) meet(s) the qualifications as set out below and in Section 1.2 of the Technical Guidance Document.

Definition of Groundwater CEP:

For groundwater, the CEP must have expertise in hydrogeology and meet one of the following:

- (a) the person holds a licence, limited licence or temporary licence under the *Professional Engineers Act*; or
- (b) the person holds a certificate of registration under the *Professional Geoscientists Act, 2000* and is a practicing member, temporary member or limited member of the Association of Professional Geoscientists of Ontario. O. Reg. 66/08, s. 2..

Definition of Surface water CEP:

A CEP for surface water assessments is a scientist, professional engineer or professional geoscientist as described in (a) and (b) above with demonstrated experience and post-secondary education, either a diploma or degree, in hydrology, aquatic ecology, limnology, aquatic biology, physical geography with specialization in surface water, and/or water resource management.

The type of scientific work that a CEP performs must be consistent with that person's education and experience. If an individual has appropriate training and credentials in both groundwater and surface water and is responsible for both areas of expertise, the CEP may then complete and validate both sections of the checklist.

Monitoring Report and Site Information	
Waste Disposal Site Name	Escott Waste Disposal Site
Location (e.g. street address, lot, concession)	Lot 8, 9, and 10, Broken front Concession in the Township of Leeds and the Thousand Islands
GPS Location (taken within the property boundary at front gate/ front entry)	442424.05 N, 755638.79 N
Municipality	Township of Leeds and Thousand Islands
Client and/or Site Owner	The Corporation of the Township of Leeds and Thousand Islands
Monitoring Period (Year)	2019
This Monitoring Report is being submitted under the following:	
Environmental Compliance Approval Number:	A441703
Director's Order No.:	N/A
Provincial Officer's Order No.:	N/A
Other:	N/A

Report Submission Frequency	<input checked="" type="radio"/> Annual <input type="radio"/> Other	Specify: March 31, 2019	
The site is: (Operation Status)	<input checked="" type="radio"/> Open <input type="radio"/> Inactive <input type="radio"/> Closed		
Does your Site have a Total Approved Capacity?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
If yes, please specify Total Approved Capacity	40,000	Units	Cubic Metres
Does your Site have a Maximum Approved Fill Rate?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
If yes, please specify Maximum Approved Fill Rate	N/A	Units	
Total Waste Received within Monitoring Period (Year)	unsure	Units	Cubic Metres
Total Waste Received within Monitoring Period (Year) <i>Methodology</i>	surveyed using a total station, compared to final contours		
Estimated Remaining Capacity	2453	Units	Cubic Metres
Estimated Remaining Capacity <i>Methodology</i>	difference between annual surveys and approved total capacity		
Estimated Remaining Capacity <i>Date Last Determined</i>	December 2019		
Non-Hazardous Approved Waste Types	<input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial, Commercial & Institutional (IC&I) <input type="checkbox"/> Source Separated Organics (Green Bin) <input type="checkbox"/> Tires	<input type="checkbox"/> Contaminated Soil <input type="checkbox"/> Wood Waste <input type="checkbox"/> Blue Box Material <input type="checkbox"/> Processed Organics <input checked="" type="checkbox"/> Leaf and Yard Waste	<input type="checkbox"/> Food Processing/Preparation Operations Waste <input type="checkbox"/> Hauled Sewage Other: Domestic and Non-hazardous solid industrial waste (per ECA) <input type="checkbox"/>
Subject Waste Approved Waste Classes: Hazardous & Liquid Industrial <i>(separate waste classes by comma)</i>			
Year Site Opened <i>(enter the Calendar Year only)</i>	unknown	Current ECA Issue Date	October 4, 2004
Is your Site required to submit Financial Assurance?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Describe how your Landfill is designed.	<input checked="" type="radio"/> Natural Attenuation only <input type="radio"/> Fully engineered Facility <input type="radio"/> Partially engineered Facility		
Does your Site have an approved Contaminant Attenuation Zone?	<input type="radio"/> Yes <input checked="" type="radio"/> No		

If closed, specify C of A, control or authorizing document closure date:

Has the nature of the operations at the site changed during this monitoring period?

Yes

No

Type Here

If yes, provide details:

Have any measurements been taken since the last reporting period that indicate landfill gas volumes have exceeded the MOE limits for subsurface or adjacent buildings? (i.e. exceeded the LEL for methane)

Yes

No

Groundwater WDS Verification:

Based on all available information about the site and site knowledge, it is my opinion that:

Sampling and Monitoring Program Status:

<p>1) The monitoring program continues to effectively characterize site conditions and any groundwater discharges from the site. All monitoring wells are confirmed to be in good condition and are secure:</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p>	<p>If no, list exceptions (Type Here): Additional monitoring wells were installed in February 2020.</p>
<p>2) All groundwater, leachate and WDS gas sampling and monitoring for the monitoring period being reported on was successfully completed as required by Certificate(s) of Approval or other relevant authorizing/control document (s):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>If no, list exceptions below or attach information.</p>

Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date

3) a) Is landfill gas being monitored or controlled at the site?	<input checked="" type="radio"/> Yes <input type="radio"/> No
--	--

If yes to 3(a), please answer the next two questions below.

b) Have any measurements been taken since the last reporting period that indicate landfill gas is present in the subsurface at levels exceeding criteria established for the site?	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	--

c) Has the sampling and monitoring identified under 3(a) for the monitoring period being reported on was successfully completed in accordance with established protocols, frequencies, locations, and parameters developed as per the Technical Guidance Document: or MECP Concurrence (see report)	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable	If no, list exceptions below or attach additional information.
---	--	--

Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date

4) All field work for groundwater investigations was done in accordance with standard operating procedures as established/outlined per the Technical Guidance Document (including internal/external QA/QC requirements) (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	<input checked="" type="radio"/> Yes <input type="radio"/> No	See report for details of SOP.
--	--	--------------------------------

Sampling and Monitoring Program Results/WDS Conditions and Assessment:

<p>5) The site has an adequate buffer, Contaminant Attenuation Zone (CAZ) and/or contingency plan in place. Design and operational measures, including the size and configuration of any CAZ, are adequate to prevent potential human health impacts and impairment of the environment.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>If no, the potential design and operational concerns/exceptions are as follows (Type Here): Development of a CAZ for the Site will be revisited following collection of data from wells installed in 2020.</p>	
<p>6) The site meets compliance and assessment criteria.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>See previous comment and report for details.</p>	
<p>7) The site continues to perform as anticipated. There have been no unusual trends/ changes in measured leachate and groundwater levels or concentrations.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>If no, list exceptions and explain reason for increase/change (Type Here):</p>	
<p>1) Is one or more of the following risk reduction practices in place at the site: (a) There is minimal reliance on natural attenuation of leachate due to the presence of an effective waste liner and active leachate collection/ treatment; or (b) There is a predictive monitoring program in-place (modeled indicator concentrations projected over time for key locations); or (c) The site meets the following two conditions (typically achieved after 15 years or longer of site operation): <i>i.</i> The site has developed stable leachate mound(s) and stable leachate plume geometry/concentrations; and <i>ii.</i> Seasonal and annual water levels and water quality fluctuations are well understood.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>Note which practice(s):</p>	<p><input type="checkbox"/> (a) <input type="checkbox"/> (b) <input type="checkbox"/> (c) As discussed in report.</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Not Applicable</p>	<p>See report.</p>	

Groundwater CEP Declaration:

I am a licensed professional Engineer or a registered professional geoscientist in Ontario with expertise in hydrogeology, as defined in Appendix D under Instructions. Where additional expertise was needed to evaluate the site monitoring data, I have relied on individuals who I believe to be experts in the relevant discipline, who have co-signed the compliance monitoring report or monitoring program status report, and who have provided evidence to me of their credentials.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed, as deemed appropriate for this Site in my professional judgement, the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended), and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analyzed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

The completion of this Checklist is a requirement of the MECP. As always, we rely upon the MECP to undertake a complete review the report(s) provided regarding the waste disposal site/landfill, and provide their comments and acceptance of our interpretation, conclusions and recommendations. The Checklist should in no way supersede the MECP's responsibility to undertake their complete review of our report(s) to ensure Site compliance with environmental regulations, standards and/or approvals. If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature and will be rectified for the next monitoring/reporting period. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

Select Date

Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

<p><input type="radio"/> No changes to the monitoring program are recommended</p> <p><input checked="" type="radio"/> The following change(s) to the monitoring program is/are recommended:</p>	<p>See report.</p>
<p><input type="radio"/> No Changes to site design and operation are recommended</p> <p><input checked="" type="radio"/> The following change(s) to the site design and operation is/are recommended:</p>	<p>Development of a CAZ is for the Site is ongoing and will resume once additional investigation is complete.</p>

Name:	John Pyke, P.Geo.		
Seal:	Add Image		
Signature:		Date:	March 23, 2020
CEP Contact Information:	John Pyke, P.Geo.		
Company:	Malroz Engineering Inc.		
Address:	308 Wellington St., 2nd Floor, Kingston ON		
Telephone No.:	613-548-3446 ext. 34	Fax No. :	Type Here
E-mail Address:	pyke@malroz.com		
Co-signers for additional expertise provided:			
Signature:	<input type="text"/>	Date:	Select Date
Signature:	<input type="text"/>	Date:	Select Date

Surface Water WDS Verification:

Provide the name of surface water body/bodies potentially receiving the WDS effluent and the approximate distance to the waterbody (including the nearest surface water body/bodies to the site):

Name (s)	unnamed creek, marshland
Distance(s)	north of the Site, south of the Site, see report for additional information

Based on all available information and site knowledge, it is my opinion that:

Sampling and Monitoring Program Status:

1) The current surface water monitoring program continues to effectively characterize the surface water conditions, and includes data that relates upstream/background and downstream receiving water conditions:	<input checked="" type="radio"/> Yes <input type="radio"/> No	See report for discussion.
2) All surface water sampling for the monitoring period being reported was successfully completed in accordance with the Certificate(s) of Approval or relevant authorizing/control document(s) (if applicable):	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable (No C of A, authorizing / control document applies)	If no, specify below or provide details in an attachment.

Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
Type Here	Type Here	Select Date

<p>3) a) Some or all surface water sampling and monitoring program requirements for the monitoring period have been established outside of a ministry C of A or authorizing/control document, or MECP concurrence.</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>
--	---

<p>b) If yes, all surface water sampling and monitoring identified under 3 (a) was successfully completed in accordance with the established program from the site, including sampling protocols, frequencies, locations and parameters) as developed per the Technical Guidance Document:</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> Not Applicable</p>	<p>If no, specify below or provide details in an attachment.</p>
--	---	--

Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
Type Here	Type Here	Select Date

<p>4) All field work for surface water investigations was done in accordance with standard operating procedures, including internal/external QA/QC requirements, as established/outlined as per the Technical Guidance Document, MOE 2010, or as amended. (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>See report for discussion.</p>
--	---	-----------------------------------

Sampling and Monitoring Program Results/WDS Conditions and Assessment:

5) The receiving water body meets surface water-related compliance criteria and assessment criteria: i.e., there are no exceedences of criteria, based on MECP legislation, regulations, Water Management Policies, Guidelines and Provincial Water Quality Objectives and other assessment criteria (e.g., CWQGs, APVs), as noted in Table A or Table B in the Technical Guidance Document (Section 4.6):

Yes

No

If no, list parameters that exceed criteria outlined above and the amount/percentage of the exceedance as per the table below or provide details in an attachment:

Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance or Assessment Criteria or Background Exceeded
e.g. Nickel	e.g. C of A limit, PWQO, background	e.g. X% above PWQO
Refer to Table 8 in Report	PWQO, Table A, Table B	See report for discussion.
6) In my opinion, any exceedances listed in Question 5 are the result of non-WDS related influences (such as background, road salting, sampling site conditions)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	See report for discussion:

<p>7) All monitoring program surface water parameter concentrations fall within a stable or decreasing trend. The site is not characterized by historical ranges of concentrations above assessment and compliance criteria.</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>See report for discussion. Surface water parameters generally fall within the historic range of results.</p>
<p>8) For the monitoring program parameters, does the water quality in the groundwater zones adjacent to surface water receivers exceed assessment or compliance criteria (e.g. , PWQOs, CWQGs, or toxicity values for aquatic biota (APVs)):</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> Not Known</p> <p><input type="radio"/> Not Applicable</p>	<p>See report for discussion. Additional investigation is currently being implemented.</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> Not Applicable</p>	<p>See report for discussion.</p>

Surface Water CEP Declaration:

I, the undersigned hereby declare that I am a Competent Environmental Practitioner as defined in Appendix D under Instructions, holding the necessary level of experience and education to design surface water monitoring and sampling programs, conduct appropriate surface water investigations and interpret the related data as it pertains to the site for this monitoring period.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed, as deemed appropriate for this Site in my professional judgement, the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MECP, 2010, or as amended) and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

The completion of this Checklist is a requirement of the MECP. As always, we rely upon the MOE to undertake a complete review the report(s) provided regarding the waste disposal site/landfill, and provide their comments and acceptance of our interpretation, conclusions and recommendations. This Checklist should in no way supersede the MECP responsibility to undertake their complete review of our report(s) to ensure compliance with environmental regulations, standards and approvals.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature or will be rectified for future monitoring events. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

2020-02-23

Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

<p><input checked="" type="radio"/> No Changes to the monitoring program are recommended</p> <p><input type="radio"/> The following change(s) to the monitoring program is/are recommended:</p>	<p>See report for discussion.</p>
<p><input checked="" type="radio"/> No changes to the site design and operation are recommended</p> <p><input type="radio"/> The following change(s) to the site design and operation is/are recommended:</p>	<p>See report for discussion.</p>

CEP Signature		
Relevant Discipline	Professional Geologist with relevant experience and training.	
Date:	March 23, 2020	
CEP Contact Information:	John Pyke, P.Geol.	
Company:	Malroz Engineering Inc.	
Address:	308 Wellington St., 2nd Floor, Kingston ON	
Telephone No.:	613-548-3446 ext. 34	
Fax No. :	Type Here	
E-mail Address:	pyke@malroz.com	
Save As		Print Form

NOTICE TO READER

This document has been prepared by Malroz Engineering Inc. (Malroz) on behalf of the Township of Leeds and the Thousand Islands (TLTI), in fulfilment of Condition 52 of Amended Provisional Certificate of Approval (CofA) No. A441703.

Malroz has relied upon TLTI staff to provide historic data upon which the current data interpretation and conceptual understanding of the site are partially based. Malroz accepts no responsibility for the integrity of the data provided by TLTI or for missing data. Any third-party use or reliance of this report, or decisions made based on this report, are the responsibilities of the third party. Malroz accepts no responsibility for damages suffered by any third party as a result of decisions made or actions taken based on the contents of this report.

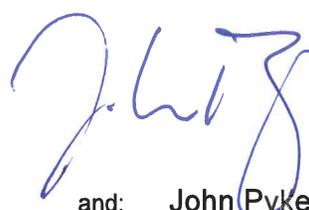
This document has been prepared for TLTI for submission to the Ministry of Environment, Conservation and Parks (MECP) as required by the CofA. Unauthorized re-use of this document for any other purpose, or by third parties without the express written consent of Malroz shall be at such party's sole risk.

This page is an integral part of this document and must remain with it at all times.

Respectfully Submitted,

MALROZ ENGINEERING INC.

per: 
Albert Paschkowiak, C.E.T.,
Environmental Technologist

and: 
John Pyke, P. Geo.
Project Manager

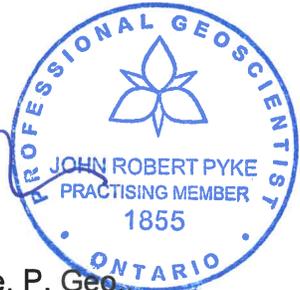


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1.0 Introduction

The Escott waste disposal site (the Site) operates under amended provisional Certificate of Approval (CofA) No. A441703, issued by the Ministry of Environment (MOE), now the Ministry of Conservation and Parks (MECP) and dated October 4, 2004 (see Appendix C). The Site is located on part of Lots 8, 9, and 10 Broken Front Concession in the Township of Leeds and the Thousand Islands (TLTI) and is depicted in Figure 1 (Appendix A). In accordance with the CofA, an Annual Monitoring Report (AMR) is to be completed each year.

Malroz was retained by TLTI to conduct the semi-annual monitoring of the groundwater and surface water, and report on the development and operations of the Site. This document presents our methodology, results and interpretation of these results with respect to the CofA. This report was prepared on behalf of the TLTI, using data collected by Malroz and available information provided by TLTI staff.

1.1 Ownership and Key Personnel

The Site is owned and maintained by the Corporation of the Township of Leeds and the Thousand Islands. Key contacts for the Site are as follows:

Municipal Contact

Adam Goheen
Director of Operations
1233 Prince Street, P.O. Box 280
Lansdowne, Ontario, K0E 1L0
613-659-2415 ext. 213
agoheen@townshipleeds.on.ca

Environmental Professional Contact

John Pyke, P. Geo.
Project Manager
308 Wellington St.
Kingston, Ontario, K7K 7A8
613-548-3446 ext. 34
pyke@malroz.com

2.0 Background

The geology, hydrogeology and hydrology of the Site are described in this section, based on our review of collected data including site observations and previous reports on investigations at the Site.

2.1 Geological Setting

Based on geological maps of the region, the geological setting at the Site consists of Precambrian metasedimentary rocks, including: paragneiss, pelitic and psammo-pelitic schists and gneisses (Hewitt, 1964). The bedrock is considerably folded at the Site, dipping northwest by 70 degrees (Hewitt, 1964). The bedrock to the northwest of the Site (at Escott centre) consists of Precambrian granitic gneiss, while bedrock southeast of the Site (Highway 401) is quartzite (Hewitt, 1964). Borehole logs from the Site suggest that bedrock is between 0.46 and 7.62 metres below grade (mbg), with increased depth to bedrock in the field north of the waste mound (Appendix D). Bedrock outcrops are visible in the southern portion of the Site, by BW3 (Figure 2, Appendix A).

Overburden at the Site consists of brown, silty clay, silt, clay or clayey silt, underlain by a greyish sandstone (Appendix D). These are likely glacial-lacustrine deposits (Hewitt, 1964). This is inconsistent with the OGS regional map by Jupe and Jackson (Hewitt, 1964). However, it is possible that the bedrock has not been eroded down to the metasedimentary (older) unit across the Site, due to the structural folding in the area, resulting in the younger granite being exposed at surface. Such small inconsistencies are generally not included in a map of larger scale (1:126,720), such as OGS map No. 2054. The borehole log for BW1 also suggests that a thin (~2.4 metres) sandstone unit overlies the granite, which is consistent with the literature: Precambrian granitic is overlain by Ordovician sandstone and dolomite from the Beekmantown, Potsdam, or Nepean Formations (Hewitt, 1964). Borehole logs identified a red granite beneath the sandstone in the bedrock wells, and in some cases (BW2, and MW103) the sandstone was not observed.

2.2 Hydrogeologic Setting

Based on Malroz site observations and descriptions by previous consultants, the hydrogeological setting at the site is separated into two zones: in the overburden and bedrock. The vertical relationship between the bedrock and overburden zones has not been fully characterized. Proximal overburden and bedrock wells (OW8R1 and BW3), located to the southwest of the waste mound show a downward gradient, suggesting a zone of recharge. To the north of the waste mound, overburden and bedrock wells OW3 and BW1 show a slight upward gradient indicating discharge. Further downgradient

overburden and bedrock wells OW11-R1 and BW4 also show a slight upward gradient indicating bedrock is discharging to the overburden aquifer downgradient of the landfill.

Groundwater elevations suggest that overburden groundwater flows northeast off the waste mound (Figure 3a, Appendix A). However, limited data is available to the immediate southeast and west of the waste mound. According to the previous consultant, the overburden zone is not used as a source of potable water in the vicinity of the Site, and there are no reported uses of the overburden zone as a source of agricultural water in the vicinity of the Site (Day, 2015). The agricultural field north of the waste fill area is reportedly tile-drained (draining towards the northeast) and discharges at Hickenbottom outlet which, in turn, drains into the wetland that feeds La Rue Mills Creek (Day, 2015).

Based on the monitoring results from 2019, bedrock groundwater flows northward, across a shallow gradient, through the site with a western component along the north portion of the waste site (Figure 3b, Appendix A). Two residential properties are within 500 m of the Site: the first is located 300 m southwest and the other is 500 m south (Jp2g, 2013). A residential bedrock well was formerly sampled as part of the monitoring program at the residence 300 m southwest of the Site (then known as the ‘MacDonald residence’).

2.3 Surface Water Features

Based on site observations and previous reports, there appears two creeks running parallel (SW-NE) to the Site and on either side of the Site. The creek to the North of the Site is manmade and maintained for the purpose of draining excess water from adjacent agricultural fields (Day, 2015). The North Creek passes under Escott Rockport Road via a culvert located at SW4, and low flow conditions have been observed historically (SW4).

The creek to the South of the Site passes through the wetland area located beyond the wooded area to the East-Southeast of the Site. The South creek also passes under Escott Rockport road via a culvert near SW7. The South Creek comprises a larger area than the North creek, however, historically lentic flow conditions have been observed at SW7. The previous consultant reported that although the South Creek is not anthropogenic, it is periodically cleaned to ensure positive drainage (Day, 2015). Malroz is not aware of any such activities taking place at the South Creek. The previous consultant also noted the presence of beaver populations and multiple active and inactive beaver dams along the Creek (Day, 2015).

Based on site observations, water tends to pond behind the recycling bin (to the southwest of the active waste mound), and along the south side of the entrance road by the brush pile. Grading was undertaken within this area in 2019 to address this ponding. A small ditch is located along the northern edge of the waste mound and discharges at Hickenbottom Inlet. Evidence of seeps have been reported at the Inlet historically (Day, 2015).

During periods of high precipitation, a pond is present in the south portion of the Site, around OW6 and OW7, and reportedly drains towards SW1 (Day, 2015). SW1 and SW2 have been inactive stations since 2016: SW1 due to repeated dry conditions and SW2 was removed as it was filled and regraded in 2015 (Day, 2015).

2.4 MECP Correspondence

The MECP provided comments on the 2018 AMR in a memorandum dated February 7, 2020 (Appendix F). The reviewer provided the following recommendations:

- i. Considering the intermittent nature of some surface water stations, best efforts should be made to collect surface water samples shortly after a rain event.
- ii. Trace metals such as antimony, beryllium, molybdenum, selenium, strontium, thallium, tin, titanium, tungsten, and vanadium can be removed from the parameter list.
- iii. Surface water flow measurements should be collected in the field.
- iv. Site grading should occur to eliminate surface water ponding near the recycling bins along the access road.
- v. Surface water monitoring should continue at the site.

We concur with the MECP surface water review comments.

Comments related to the groundwater monitoring conducted at the site in 2018 were not received from the MECP at the time this report was prepared. However, Malroz, TLTI and MECP District and Regional personnel met in 2019 to discuss the site, amongst others, which included the ongoing efforts to characterise the groundwater.

3.0 Development and Operations

3.1 Waste Disposal Site Description

The Site has an approved waste volume of 40,000 m³ and is actively landfilling non-hazardous waste materials from within Ward 3, Front of Escott in TLTI. Agricultural and forested land are proximal to the Site. The current Site property boundary and fill area is shown on Figure 2 (Appendix B).

We understand there have been no changes in Site operations (CofA 52(f)) during 2019.

3.2 Site Access

The Escott WDS is located on part of Lots 8, 9, 10, Broken Front Concession, in the Township of Leeds and the Thousand Islands (former Township of Front of Escott). The site is located approximately 0.5 km north of Highway 401 and approximately 2.3 km northwest of the St. Lawrence River. Geodetic coordinates for the Site benchmark are as follows (2013 Site survey):

Zone:	NAD 83, 18T
Easting:	0424873.3 m (+/- 0.5 m)
Northing:	4917507.5 m (+/- 0.5 m)

Escott WDS can be accessed by Escott Rockport Road via either County Road 2 or the Thousand Islands Parkway.

3.3 Service Area

The waste disposal site services residents of Ward 3 in the TLTI. It is one of three active waste disposal sites serving TLTI (along with Lansdowne and Lyndhurst/Briar Hill Landfills).

3.4 Hours of Operation

Hours of operation are as follows:

Tuesday	8:30 a.m. - 4:45 p.m.
Saturday	8:30 a.m. - 4:45 p.m.

The entrance and exit gates are locked and no waste is received at the Site during non-operating hours. The Site was supervised by a site attendant during operating hours. A program is in place to inspect incoming waste loads for compliance.

3.5 Waste Characteristics

In accordance with the CofA, the Site is currently actively landfilling solid non-hazardous waste. The Site also accepts recycling materials, white goods, and metals only for bulking and subsequent transfer off-site. No liquid industrial or hazardous wastes are accepted at the Site. Site records report that 1 ton (metric) of mixed container waste was received at the Site over the monitoring period (Appendix G). We understand that

recyclable material, metals, white goods and tires are transferred off-site for further processing.

Bins for recycling materials were maintained at the subject site during 2019. Removal and processing of the recycling materials was completed by Manco Recycling Systems, who were recently acquired by Environmental 360 solutions (E360).

Tires are not accepted at the Escott Site. Users are directed to the Lansdowne WDS where the tires are recycled. Any tires dumped at the gates of the Site are stockpiled and shipped to the Lansdowne WDS for recycling.

3.6 Phasing of Site Usage

Cover material is not stockpiled at the Site. Material is brought to the Site during covering operations, placed on a compacted portion of the waste fill area and used within 48 hours.

Final cover was applied in 2019 at areas of the site that have reached the final elevation. The waste pile was contoured, and side slopes were re-established to conform to final elevations. Additional cover will be applied to the Site as more areas reach their final grade.

3.7 Site Inspections

Site inspections are carried out during each day of operation (Tuesday and Saturdays) by the Site attendant and records of these inspections are included in Appendix G. No erosion or leachate springs were reported in 2019. No vermin or vector outbreaks occurred in 2019, although observations of birds, cats, and/or racoons were made on several occasions. Wind blown litter was also identified as a deficiency at the Site on several occasions: efforts to pick up windblown litter were noted. Ponding was reportedly observed at the Site following rain events. We understand that site grading occurred in 2019 to reshape low-lying areas with the intention of preventing ponding.

Escott WDS attendants refused loads of tree stumps, construction material, and waste originating from outside the township during 2019.

During the Malroz inspections, we noted that the entrance signage is beginning to show signs of degradation. Malroz also noted that signs at the Site do not direct vehicles to the working face, the recycling bins, and other disposal areas at the Site. We have provided this information to TLTI and recommend that this be addressed.

Malroz undertook an inspection on November 25, 2019 to ensure monitoring wells are adequately sealed at the surface, to measure landfill (methane) gas concentration, and to identify any additional problems with the operation of the Site (CofA 52 (i)). Results of the well inspection are presented in Table 1, Appendix D and are discussed in Section 6.1.

Monitoring wells OW8 and OW11 were present at the Site during the well inspection, however abandonment of these wells has since occurred (See Section 4.0).

3.8 Record of Complaints

The Site received two complaints in 2019 from residents regarding the presence of mud pit at the site following a rain event, and bins being too full. Issues were rectified via grading of the site and emptying of bins.

3.9 Method of Waste Disposal

The Escott Waste Disposal Site operates as an area fill site. On a bi-weekly basis, the waste is contoured, compacted and covered with sand fill (Appendix G). E360 provides recycling bin rentals for the Site and provides pickup and processing services for recycling materials dropped off by TLTI residents.

The WDS relies on natural attenuation. There are no engineered systems for leachate collection or storm water management, other than a ditch located along the north-western edge of the waste mound. However, ponding along the ditch suggests that it may need re-grading. The Site has been approved to burn clean wood waste (CofA 23(b)), following the MECP's Guideline C-7 entitled "Burning at Landfill Sites". We understand, from discussion with TLTI personnel, that burning occurs once per month at the Site, weather permitting. Based on the attendant logs, no spills or emergencies occurred at the Site in 2019.

We understand that landfill gas migrating from the Site is not collected by an engineered gas system. In 2015, an elevated attendant's trailer was installed at the Site to ensure that gas does not accumulate within the enclosed space.

3.10 Record Keeping

Field notes and Site records are maintained at the Township offices, 1233 Prince Street, Lansdowne, Ontario. We understand that TLTI has evaluated their record keeping practices and implemented a new logbook system at the Site beginning in April, 2019.

3.11 Remaining Site Capacity

The maximum volumetric capacity approved for the Site is 40,000 m³ as reported in the CofA, Section 15. This volume includes the waste, daily cover and intermediate cover, but excludes final cover. The amount of daily cover and final cover are not calculated for this site, rather the total of waste and cover is used to calculate remaining volume (CofA 52 (a)).

The Site was surveyed by BluMetric Environmental Inc. (BluMetric) in December 2016. BluMetric determined the Site had a remaining capacity of 4,131 m³, based on a final capacity of 39,760 m³ and excluding final cover. The reason for the discrepancy between the BluMetric final capacity and that stated in the CofA is unknown. Malroz accounted for this discrepancy in the 2016 AMR by adding 240 m³ to the BluMetric measurements to be consistent with the CofA and determined a remaining capacity of 4,371 m³.

In 2019 Malroz conducted a physical survey of the current waste contours and compared them to the proposed final contours within areas where final cover has not been placed and where filling is active. The survey was conducted using a Trimble RTK GNSS system. This measurement identified that approximately 2,453 m³ of capacity remain at the site within the active fill area which was slightly larger than previously reported. It should be noted that the previously reported capacities were based on calculations by previous consultants and former TLTI staff which relied upon inferences and assumptions of volumes of waste placed. Volume calculations made using this method are inherently inaccurate and may vary from the actual volume present. Therefore more confidence can be placed in a comparison of actual contours to proposed final contours. Given this, and based on the average fill rate previously identified, the Site's life expectancy would be approximately 2.6 years.

A landfill closure plan was prepared by Malroz and submitted to the MECP for review in February 2020. The closure plan outlines the design data, environmental monitoring programs, pre-closure operations, closure plan, and transfer station design and operation plan for the subject site.

4.0 **Drilling and Monitoring Well Installation and Abandonment**

Additional groundwater characterisation including the installation of monitoring wells at the Escott WDS was coordinated by Malroz and undertaken on February 18 – 19, 2020 in accordance with our action plan dated April 10, 2018 and in follow up to a meeting between Malroz, the MECP, and TLT staff on July 17, 2019. Drilling was originally scheduled to be conducted in 2018, however, work was unable to be completed until the necessary permission from the landowner had been provided.

The purpose of the drilling program was to investigate potential leachate impacts to the overburden and bedrock aquifers at the northeastern extent of the landfill and further reevaluation of the Site's compliance with the MECP B-7 Reasonable Use Guideline. Drilling included the installation of three shallow overburden wells (MW101, MW102, and MW104) and one deeper bedrock (MW103) well. The locations of the new wells are shown on Figure 2. Copies of the borehole logs and water well records are included in Appendix D.

The shallow overburden wells (MW101, MW102, and MW104) were installed to between approximately 4.4 and 6.7 mbg and the bedrock well (MW103) was installed to approximately at 7.5 mbg.

Soils stratigraphy was observed to be clayey silt or silt to between 3.3 and 3.8 mbg, followed by a silty clay layer ending at between 4.4 and 4.6 mbg. In two of the three overburden boreholes, sandy silt or silt, was observed beyond the silty clay to between 4.7 and 6.7 mbg. Boreholes BH101 and BH102 were terminated on inferred bedrock between 4.4 and 4.7 mbg. BH104 was terminated at a target depth of 6.7 mbg.

Borehole BH103 (nested with MW102) was cored into bedrock between 3.6 and 7.5 mbg. A granite bedrock was observed in BH103 at a depth of 3.6 mbg which differs slightly from its nested counterpart BH102 which encountered bedrock at 4.4 mbg. This difference is attributed to a steep slope in the bedrock at this location. A review of the core identified a number of horizontal fractures throughout the length of the core and one vertical fracture at approximately 4.9 mbg.

During drilling, Canadian Environmental abandoned monitoring wells OW8 and OW11 which were no longer part of the monitoring program. Abandonment included removal of the piezometer, over-drilling, and sealing the remaining hole with hydrated bentonite chips as per O. Reg. 903.

5.0 Description of Monitoring Program

Groundwater and surface water monitoring are conducted on a semi-annual basis in the spring and fall, in accordance with the CofA. The current monitoring plan for the Site uses the Ontario Drinking Water Standards (ODWS) to assess groundwater conditions and Provincial Water Quality Objectives (PWQO) to assess surface water conditions. Field work for the 2019 monitoring programs was conducted in the spring (April 30, 2019) and fall (November 25, 2019). The groundwater monitoring program is presented in Table 2 (Appendix B).

Groundwater and surface water programs are detailed below.

5.1 Groundwater Monitoring Program

The 2019 groundwater monitoring program consisted of nine overburden monitoring wells (OW3, OW4, OW5, OW7, OW8R1, OW11R1, OW12, OW13, and OW14) and four bedrock wells (BW1, BW2, BW3, and BW4). The groundwater monitoring program is detailed in Table 1, Appendix B. Groundwater monitoring results are presented in Table 3, Appendix B, and are discussed in Section 6.1. Newly installed monitoring wells (MW101, MW102, MW103, and MW104) should be added the groundwater monitoring program in 2020.

Groundwater monitoring was conducted at each of the monitoring wells included in the groundwater sampling program. Monitoring included collecting methane measurements, depth to water, depth to well bottom, and visual and olfactory evaluation of the groundwater.

Methane concentrations were calculated based the difference between full gas response and responses in methane elimination mode using an RKI Eagle 2.

5.2 Surface Water Monitoring Program

There are six active surface water sampling stations located around the Site: SW4, SW5, SW7, SW8, HBO, HBI. The surface water monitoring program is detailed in Table 1, Appendix B. Results from the surface water monitoring are presented in Table 4, Appendix B and are discussed in Section 6.8.

Where possible, surface water monitoring and sampling was undertaken following precipitation events. Total precipitation occurring in the 10 days prior to each sampling event was calculated based on results from Environment Canada's weather monitoring website for the Brockville monitoring station (Climate ID: 6100971). A total of 23.8 mm

of rain fell prior to the April 30, 2019 sampling event, and 5 mm fell before the November 25, 2019 sampling event.

5.3 Variations in Monitoring

Malroz followed the groundwater and surface water programs as specified in the CofA and in the Malroz letter dated July 12, 2019. Variations to the monitoring program were not required in 2019.

5.4 Data Quality Evaluation

Samples were collected using laboratory supplied sample bottles containing preservatives appropriate for each parameter. Samples were submitted to Caduceon Laboratories (Caduceon) for analysis. Caduceon is a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory that uses MECP-recognized methods to conduct laboratory analyses. Caduceon reports that they are accredited to conduct the analyses completed for this investigation. Laboratory Certificates of Analysis are provided in Appendix I.

6.0 Discussion of Results

Results of the 2019 groundwater and surface water programs are presented in this section. Observed results have been compared to relevant criteria and any observed exceedances are highlighted to allow for visual interpretation.

6.1 Well Inspection

Results of the well inspections are summarized in Table 1 (Appendix B).

Well inspections were undertaken by Malroz during the 2019 sampling events. The well inspection included a visual inspection of accessible portions of the well piezometer, casing, cap, lock, and well seal. Wells were assigned one of the following conditions:

- Good – the well is in good condition with no maintenance required.
- Fair – exhibits some minor deficiencies, however well integrity is not compromised.
- Poor – well integrity is compromised and the well requires maintenance or abandonment.

Monitoring wells included in the monitoring program were found to be in good condition.

6.2 Landfill Gas and Water Level Monitoring

Results from groundwater monitoring are presented in Table 3 (Appendix B).

Methane concentrations in the monitored wells were generally below the instrument detection limits with the following exceptions:

- OW11R1 was reported at <1% LEL in the fall

Groundwater elevation contours were interpolated based on depth to water measurements and well elevations, and are presented in Figure 3a and 3b (Appendix A). Groundwater elevation data indicates a north to north easterly flow in the overburden and a northerly flow in the bedrock, consistent with historical results.

Results of the groundwater monitoring in the nested overburden and bedrock wells indicated a downward vertical gradient in the vicinity of BW3 and OW8-R1, and upward vertical gradients in the vicinity of BW1 and OW3, and BW4 and OW11R1.

6.3 Overburden Groundwater Summary

Results of the overburden groundwater analyses are presented in Table 5 (Appendix B). The background groundwater quality in the overburden has historically been characterized by monitoring well OW8R1, installed in 2015 to replace background well OW8. Results indicate elevated hardness and DOC in the background, at times, in exceedance of the ODWS criterion. Intermittent exceedances of the ODWS for TDS, aluminum, iron, and manganese have also been reported.

The following parameters are used as leachate indicators (LIPs) at the Site, according to Schedule A of the CofA: alkalinity, ammonia, BOD, chloride, conductivity, DOC, hardness, TKN, pH, sodium, sulphate, TDS, aluminum, iron, and manganese. In the effort to make the analysis more concise, a reduced list of LIPs was generated by comparing historical results for leachate and background wells (Table 9, Appendix B). The following parameters are proposed as LIPs, since they historically show the greatest difference between background and leachate concentrations: ammonia, chloride, iron, and manganese.

Monitoring well OW14 has historically been used to be used to characterize the leachate at the Site. OW14 exceeded the ODWS criteria for the following parameters during the spring and fall sampling events: alkalinity, DOC, hardness, TDS, iron, manganese and uranium. Uranium concentrations were detected at each of the sampled wells in 2019 at varying concentrations. It is possible that the uranium is derived from the bedrock, as concentrations between 3.01 and 25.00 ug/L are reported in the Precambrian rock in the Gananoque area (Hamilton, 2015).

Concentrations of leachate indicators at OW3 suggest minor impacts (chloride, sulphate, TKN)

Downgradient well OW11R1 shows some evidence of leachate impacts with elevated concentrations of LIPs alkalinity, ammonia, BOD, DOC, conductivity, hardness, TDS, chloride, sulphate, iron, manganese, and sodium, compared to background during both spring and fall 2019. Concentrations of leachate indicators decreased at OW11R1 when compared to leachate monitoring well OW14, suggesting attenuation is occurring.

Concentrations of leachate indicators in monitoring well OW5 were near the 75th percentile of background levels at OW8-R1 during both the summer and fall sampling events. Concentrations of leachate indicators at OW12 were either at the 75th percentile of background levels at OW8-R1 or marginally above.

Exceedances of ODWS and ODWSOG criteria in the overburden wells were noted during 2019, for alkalinity, DOC, hardness, TDS, aluminum, iron, manganese and uranium. With the exception of TDS, iron and manganese at OW11-R1, most of these exceedances were either within the leachate well (OW14) or related to background conditions (DOC, hardness). Exceedances of uranium at OW14 are expected to be related to the regional bedrock (Hamilton, 2015). Aluminum slightly exceeded the ODWS.

6.4 Bedrock Groundwater Summary

Bedrock groundwater analyses are presented in Table 6 (Appendix B).

Bedrock groundwater quality at the Site is characterized by wells BW1, BW2, BW3 and BW4. Well BW3 has been historically used to characterize the background quality at the Site. Background groundwater quality at BW3 is characterized by elevated concentrations of hardness and DOC, at times above the ODWS. Elevated concentrations of chloride are also present at BW3 compared to background conditions in the overburden groundwater unit. ODWS exceedances at BW3 were limited to hardness in 2019.

BW1 was used to monitor leachate within the bedrock. BW1 exhibits elevated levels of LIPs (alkalinity, DOC, hardness, TDS, aluminum, iron, and manganese), several of which exceed the ODWS criteria.

Bedrock wells BW2 and BW4 are located downgradient from the waste mound. BW4 results show elevated concentrations of LIPs (DOC, hardness, TDS, iron, and manganese) during both sampling events, compared to background well BW3. When compared to leachate concentrations (BW1), a notable decrease in concentrations of

LIPs is observed at BW4, suggesting attenuation is occurring in the bedrock groundwater as it migrates northwards from the waste mound.

The following parameters showed exceedances of ODWS criteria at one or more bedrock monitoring wells during 2019: alkalinity, DOC, hardness, TDS, aluminum, iron, manganese and field pH. These parameters represent aesthetic or operational objectives.

6.5 VOC analyses

VOC analyses was not conducted in 2019 per the monitoring program. VOC analyses will be conducted in 2020 as per the bi-annual schedule.

6.6 Reasonable Use Policy

The Reasonable Use Policy was used to assess compliance of the groundwater quality at the Site with MECP Guideline B-7 “Incorporation of the Reasonable Use Concept into MECP Groundwater Management Activities”. Reasonable Use Limits (RULs) were calculated for the analyzed parameters using background groundwater concentrations and corresponding drinking water criteria (see Table 7, Appendix B).

Monitoring wells OW11R1, OW3 and OW12, as well as BW2 and BW4, were identified as compliance wells for overburden and bedrock groundwater (respectively). RULs were calculated using background wells OW8/OW8R1 and BW3. There are no known domestic wells downgradient, within 500 m of the Site.

The following exceedances of RULs were reported in 2019:

<u>Parameter</u>	<u>Spring</u>	<u>Fall</u>
Alkalinity	BW4	BW4
DOC	OW11-R1, BW4	OW3, OW11-R1, OW12, BW4
Hardness	OW3, OW11R1, OW12, BW4	OW3, OW11R1, OW12, BW4
TDS	OW11-R1, BW4	OW11-R1, BW4
Nitrite	OW11-R1	
Aluminum	BW4	BW4
Iron	OW11-R1, BW4	OW11R1, BW4
Manganese	OW11R1, BW4	OW11R1, BW2, BW4
Uranium	OW11R1, BW4	OW11R1, BW4

Exceedences of RULs are discussed below:

- Hardness, DOC, aluminum and manganese are operational or aesthetic objectives.
- Exceedances of RULs for hardness and aluminum may be influenced by non leachate factors such as background contributions from the bedrock and/or soils common to the area.

- The detection of nitrites was limited to OW11-R1 which exceeded the RULs. Given that OW11-R1 is located near an agricultural field and that nitrites were not detected in any other well locations, nitrite concentrations are not anticipated to be landfill related.
- The uranium exceedance may be influenced by bedrock composition, as mentioned above.
- Exceedances of RUL for iron and manganese may be leachate related, however other leachate indicators meet the RULs, suggesting elevated metals at BW4 and OW11R1 may not be, in whole or in part, leachate related.

Exceedances of RULs suggest that the Site is non-compliant with MECP Guideline B-7. However, the absence of domestic wells downgradient, within 500 m of the Site indicates that, at this time, the Site does not pose a threat to human health. Further investigation of the groundwater in both the bedrock and overburden was initiated in early 2020.

6.7 Trends in Groundwater Analyses

A summary of historical groundwater analyses at the Site for selected LIPs has been prepared and is included as Appendix J. The LIPs summarised include ammonia, chloride, iron, and manganese. The following observations were made:

- Chloride concentrations appear to be stable in the sampled wells and attenuation appears to be occurring between OW14 and OW11R1.
- Ammonia concentrations appear to be stable in OW14, OW3, and OW8. Concentrations of ammonia in the leachate impacted well OW11-R1 appear to be increasing slightly. Concentrations decrease between leachate well OW14 and downgradient well OW11R1. Ammonia concentrations at OW3 have been comparable to background since 2009.
- With the exceptions of two spikes in concentrations in 2004 and 2006, iron concentrations appear to be decreasing in OW3, OW8, and OW11-R1. Concentrations of iron in the leachate well (OW14) appear to be stable.
- With the exception of two spikes in concentration in 2004 and 2006, manganese appears stable in the leachate-impacted wells. Manganese concentrations appear to be decreasing in the background well (OW8R1) and in OW3.
-

In general, the plume shows evidence of stability, particularly among metal elements.

6.8 Surface Water Summary

The surface water monitoring program at the Site is characterized by six sampling stations: SW4, SW5, SW7, SW8, HBO and HBI. UTM coordinates for each of the surface water stations are presented in Table 4, Appendix B. Results of the surface water analyses are presented in Table 8 (Appendix B).

Surface water analysis was completed using the Provincial Water Quality Objectives (PWQO) and the Table A and B criteria as described in the MECP 2010 guidance document for Monitoring and Reporting for Waste Disposal Sites.

There are three main surface water features in the area of the Site. For the purposes of describing the chemical character of each surface water feature, the following section will interpret the north stream, south stream and Hickenbottom stream separately.

South Stream

The south stream is approximately 330 meters south of the waste pile. The flow direction of the stream is to the northeast. Sampling stations SW7 and SW8 are located along this stream. SW7 is used to characterize the background due to its up-stream location. It should be noted that SW7 is also located next to the main road (Escott Rockport Road) in a more open, less vegetated part of the stream. The background surface water has historically exhibited elevated levels of iron, copper, and total phosphorous. Periodic spikes of various metals including lead, tungsten, vanadium, and zinc have been reported at SW7.

Results of downstream surface water station SW8 were generally similar to the background concentrations during the spring event with the exception of slightly elevated iron, total phosphorous, lead, and manganese. During the fall event, results at SW8 displayed elevated concentrations of total phosphorous, TSS, cobalt, copper, iron, lead, manganese, magnesium, and zinc, when compared to background. Given the variability from the spring sampling event, the high level of TSS in the sample, and the current conceptual model that predominantly the leachate migrates in groundwater to the north east of the site, we infer that these impacts are not likely solely leachate related. Consideration should be given to improving the sampling location to assist with reducing sediment impacts on future samples.

North Stream

The north stream is located approximately 75 m from the edge of the waste pile. Sampling stations SW4 and SW5 are located along this stream, and SW4 is used to characterize the background due to its up-stream location. As with SW7, SW4 is located next to the main road. Background quality of the north stream showed elevated total

phosphorous, cadmium, copper, iron, and tungsten at concentrations above the PWQOs during one or more sampling events in 2019.

Results from downstream station SW5 were generally consistent with the background station (SW4) in 2019. Results do not indicate landfill related leachate impacts to the north stream.

Hickenbottom Stream

Hickenbottom Inlet (HBI) is located northeast of the waste fill area and is upstream of the tile that drains the agricultural field north of the Site. Hickenbottom Outlet (HBO) is located northeast of the Site in an agricultural field, where the drainage tile discharges into a manmade ditch that flows towards La Rue Mills Creek.

During the spring and fall, HBI exhibited elevated concentrations of LIPs including alkalinity, conductivity, hardness, and TDS compared the 75th percentiles of historic data at background stations SW4 and SW7. Chloride was also elevated compared to SW4, and sulphate was elevated compared to SW7. Concentrations of these parameters were generally less at downgradient station HBO indicating attenuation is occurring.

Concentrations of LIPs at HBO were generally consistent with the 75th percentiles of both background stations with the exception of hardness. Concentrations of alkalinity, chloride, dissolved sulphate magnesium, strontium and uranium were also elevated, albeit intermittently or only when compared one background station.

Exceedances of the PWQOs at HBO were reported for total phosphorous, copper, iron, and DO, however concentrations of these parameters were consistent with the two background stations and are not inferred to be leachate related.

7.0 Conclusions & Recommendations

The Escott WDS is an active site currently accepting non-hazardous solid waste. A Closure Plan is currently being completed for the Site, and the estimated life span is approximately 2.6 years.

Water level monitoring results indicate a general northeasterly groundwater flow direction in the overburden and a general northerly flow direction in the bedrock. Attenuation of the leachate in the subsurface appears to be occurring.

MECP Guideline B-7 has been applied to the Site. Results indicate that wells OW11R1 and BW4 have exceeded the RULs for a number of parameters, suggesting the site

does not conform to MECP Guideline B-7 along the northern property boundary. Some RUL exceedances were also observed at wells OW3, OW12 and BW2. With the exception of manganese at BW2, these additional exceedances of the RULs were related to parameters where the concentrations in the background well appear to exceed the ODWS and proper RULs could not be calculated. In these cases, concentrations appear generally inline with background concentrations and are not likely related to leachate impacts. Additional groundwater investigation was undertaken in February 2020 to further characterize groundwater conditions. Considering that there are no identified domestic wells downgradient and within 500 m of the Site, we believe there is currently no immediate threat to human health from the leachate at Escott WDS.

Surface water stations in our opinion do not show significant evidence of leachate impact.

The following recommendations are offered:

1. Monitoring should continue twice per year in conformance with the CofA.
2. Conduct VOC analyses in the spring every two (2) years, at monitoring wells OW14 and BW1, as recommended by the MECP (next sampling will occur in 2020).
3. Collect groundwater samples at the newly installed monitoring wells (MW101, MW102, MW103, MW104). B7 compliance should be re-evaluated following collected of data from these points in 2020.
4. Remove BOD and TKN as leachate indicator parameters.
5. Repair degraded signage at the Site and obtain necessary signs and labelling to ensure compliance with condition 28 of the CofA.
6. Evaluate the need for a trigger mechanism following evaluation of the additional site characterisation data.
7. Consider improving surface water Station SW8 to reduce sediment entrainment in future samples.

8.0 References

Malroz Engineering (2016) Annual Monitoring, Development and Operations Report, submitted to the Ministry of Environment and Climate Change (now MECP) on June 2017

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Appendix A

Figures



Legend

 approximate property boundary

Note: Figure based on Malroz field observations and Google Earth imagery

Rev	Date	Description	By	Chkd
0	20/03/26	issued in final	MW	JMP

Site Location Plan

2019 Annual Monitoring Report
 Escott Waste Disposal Site
 Township of Leeds and the Thousand Islands

File: 1038-116.00

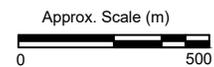
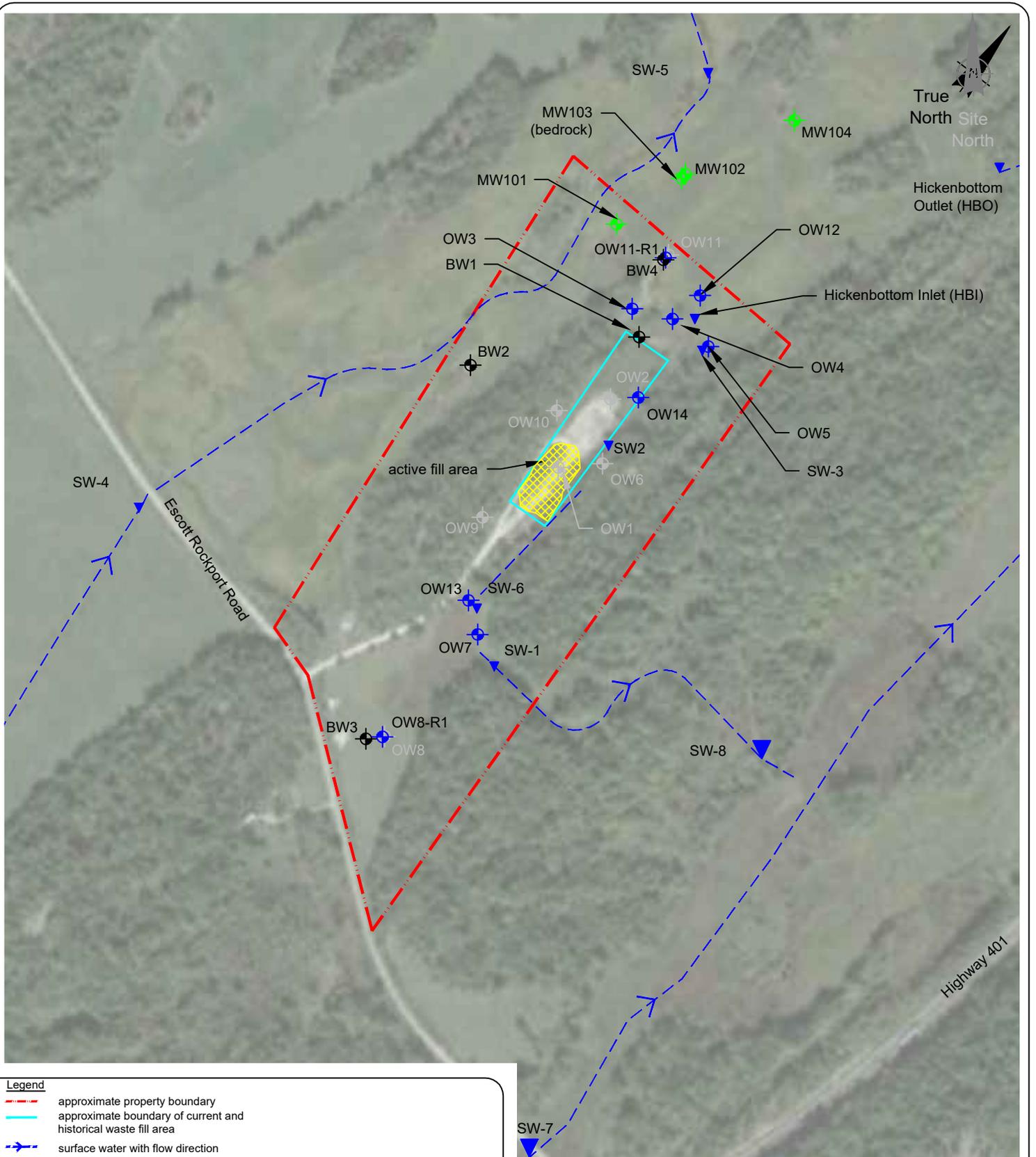


Figure 1





Legend

- approximate property boundary
- approximate boundary of current and historical waste fill area
- surface water with flow direction
- ▼ SW-6 surface water sample station
- BW1 bedrock monitoring well location
- OW11 overburden monitoring well location
- OW1 former monitoring well
- MW101 monitoring well installed by Malroz (2020)

Note: figure based on Malroz field observations and Google Earth imagery

Site Plan

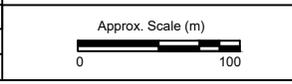
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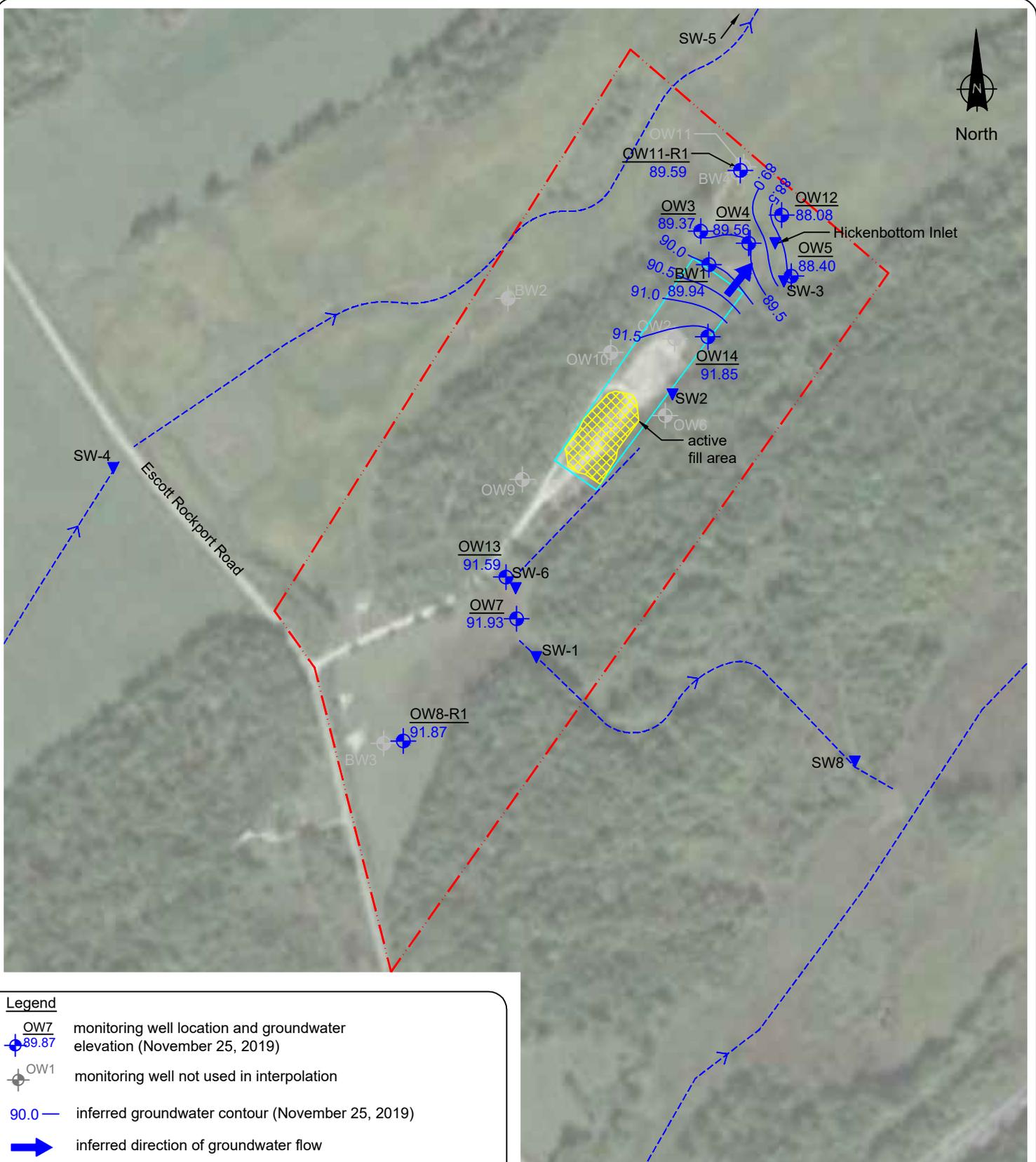
File: 1038-116.00

Figure
2



D0	20/03/26	issued in final	MW	RF
Rev	Date	Description	By	Chkd





Legend

-  monitoring well location and groundwater elevation (November 25, 2019)
-  monitoring well not used in interpolation
-  inferred groundwater contour (November 25, 2019)
-  inferred direction of groundwater flow
-  surface water with flow direction
-  approximate boundary of current and historical waste fill area
-  approximate property boundary

Note: figure based on Malroz field observations and Google Earth imagery

Inferred Shallow Groundwater Contours

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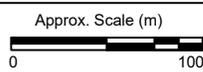
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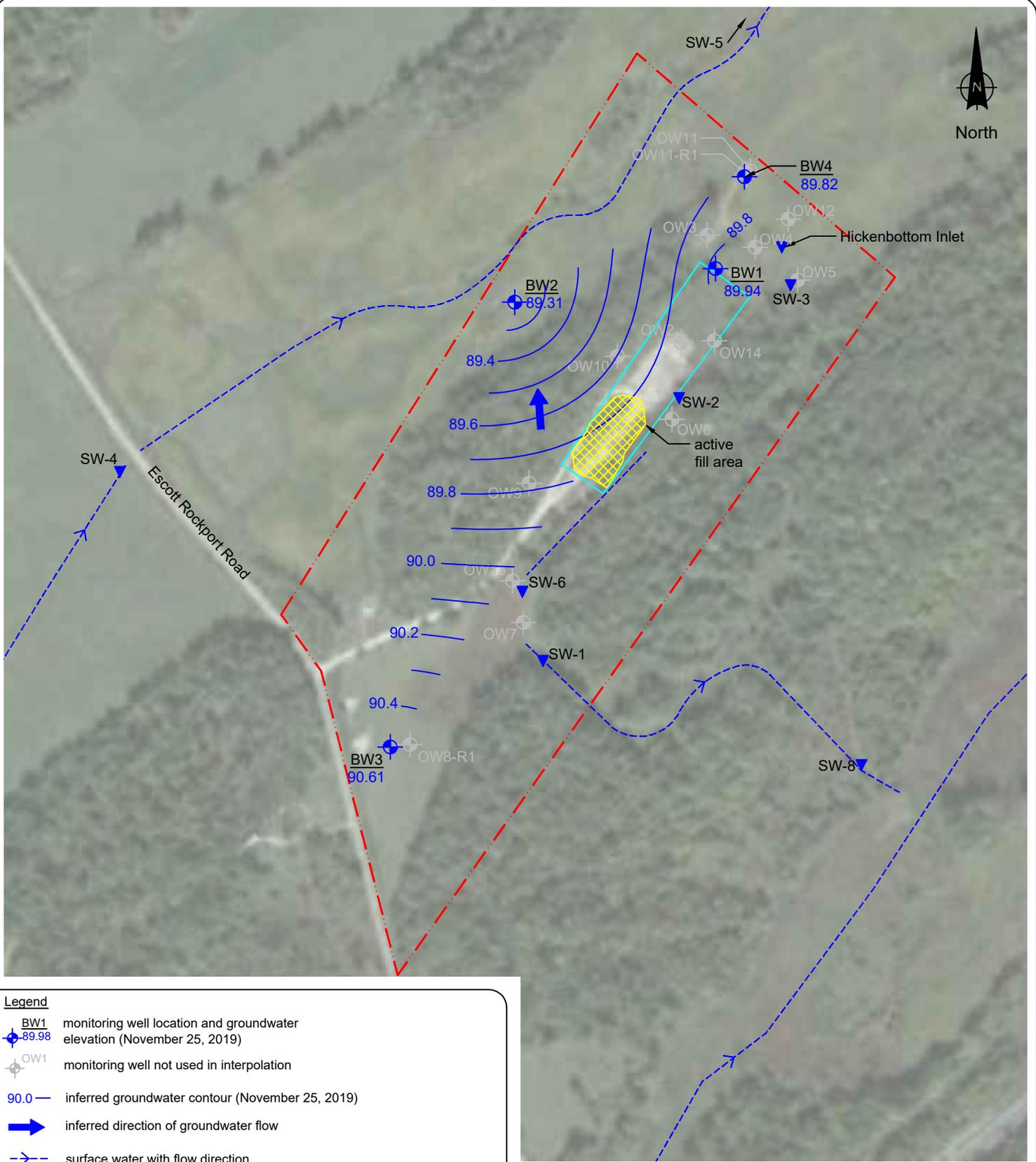
Figure

3a



Rev	Date	Description	By	Chkd
0	20/03/26	issued in final	MW	RF





- Legend**
- ◆ BW1 89.98 monitoring well location and groundwater elevation (November 25, 2019)
 - OW1 monitoring well not used in interpolation
 - 90.0 — inferred groundwater contour (November 25, 2019)
 - ➔ inferred direction of groundwater flow
 - - - surface water with flow direction
 - approximate boundary of current and historical waste fill area
 - - - approximate property boundary

Note: figure based on Malroz field observations and Google Earth imagery

Inferred Bedrock Groundwater Contours

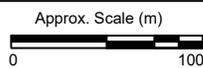
2019 Annual Monitoring Report
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File: 1038-116.00

Figure
3b



Rev	Date	Description	By	Chkd
0	20/03/26	issued in final	MW	RF



Appendix B
Tables

**Table 1
 Well Inspection**

Well ID	Well Type	Well Construction	Well Integrity			Well Observations
	Protective casing	Material	Locked	Capped	Condition ^A	Remarks
BW1	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
BW2	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
BW3	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
BW4	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW3	none	2" Schedule 40 PVC	Y	J-Plug	good	-
OW4	none	2" Schedule 40 PVC	Y	J-Plug	good	-
OW5	none	1" Schedule 40 PVC	Y	J-Plug	good	-
OW7	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW8R1	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW11R1	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW12	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW13	Steel Monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW14	Steel Monument	2" Schedule 40 PVC	Y	Slip Cap	good	-

Notes:

A

Well inspection completed on April 30 and November 25, 2019

Well conditions ranked as:
 good (no maintenance required),
 fair (minor maintenance required),
 poor (requires maintenance or abandonment)
 - not applicable

Data Input: JMP
 Data Checked: MW

Table 2
Groundwater and Surface Water Monitoring Program

Program	A - Groundwater		B - Surface Water	
Frequency	spring and fall VOCs at OW14 and BW1 - every 2 years (2020, 2022, etc.)		spring and fall	
Locations	OW3, OW5, OW8R1, OW11R1, OW12, OW13, OW14, BW1, BW2, BW3, BW4 OW4 and OW7 (monitoring only)		SW4, SW5, SW7, SW8, HBO, HBI	
Standards/ Reference Criteria	ODWS		PWQO	
Laboratory Parameters (mg/L)	Alkalinity N - Ammonia BOD COD DOC Conductivity Hardness pH Phenols Phosphorus (total) TDS TSS N - Total Kjeldahl Chloride N - Nitrate N - Nitrite Sulphate Mercury Aluminum Antimony Arsenic Barium Beryllium Boron	Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Tungsten Uranium Vanadium Zinc	Alkalinity N - Ammonia BOD COD DOC Conductivity Hardness pH Phenols Phosphorus (total) Phosphorus, dissolved TDS TSS N - Total Kjeldahl Chloride N - Nitrate N - Nitrite Sulphate Mercury, dissolved Aluminum, dissolved Arsenic Barium Boron Cadmium	Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Silicon Silver Sodium Uranium Zinc
VOCs	Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane Dichlorodifluoromethane Ethylene dibromide 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethylene cis-1,2-Dichloroethylene trans-1,2-Dichloroethylene 1,2-Dichloroethylene, total 1,2-Dichloropropane cis-1,3-Dichloropropylene	trans-1,3-Dichloropropylene 1,3-Dichloropropene, total Ethylbenzene Hexane Methyl Ethyl Ketone Methyl Butyl Ketone Methyl Isobutyl Ketone Methyl tert-butyl ether Methylene Chloride Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane 1,3,5-Trimethylbenzene Vinyl Chloride m/p-Xylene o-Xylene Xylenes, total		
Field	pH Temperature Dissolved Oxygen Conductivity	N-NH3 unionized (Calc)	pH Temperature Dissolved Oxygen Conductivity	N-NH3 unionized (Calc)

**Table 3
Groundwater Monitoring Results**

Location	DTW (mbTOP)	DTB (mbTOP)	TOP Elevation (masl)	Grade Elevation (masl)	Groundwater Elevation (masl)	Methane Concentration (%LEL)	Purge Water Observations		
							Colour	Sediment	Odour
April 30, 2019									
BW1	1.37	23.19	91.39	90.08	90.02	nr	clear	none	none
BW2	0.88	8.40	89.82	89.09	88.94	nr	clear	none	none
BW3	2.21	19.93	92.96	92.27	90.75	nr	clear	none	none
BW4	0.25	10.65	90.10	89.24	89.85	nr	clear	none	none
OW3	1.33	4.18	90.79	89.75	89.46	nr	brown	some	none
OW4	1.51	2.79	91.04	89.79	89.53	nr	-	-	-
OW5	2.55	5.53	91.00	90.06	88.45	nr	grey	some	none
OW7	1.44	3.91	92.99	92.41	91.55	nr	-	-	-
OW8R1	1.03	3.68	92.91	92.27	91.88	nr	grey	some	none
OW11R1	0.51	6.06	90.08	89.32	89.57	nr	grey/brown	abundant	none
OW12	1.63	5.42	89.74	88.64	88.11	nr	grey/brown	abundant	none
OW13	0.93	7.03	92.55	91.54	91.62	nr	grey	some	none
OW14	3.34	9.36	95.15	93.14	91.81	nr	brown	some	sulphur
November 25, 2019									
BW1	1.45	22.67	91.39	90.08	89.94	nr	clear	trace	sulphur
BW2	0.51	8.48	89.82	89.09	89.31	nr	clear	trace	none
BW3	2.35	20.18	92.96	92.27	90.61	nr	clear	none	none
BW4	0.28	10.81	90.10	89.24	89.82	nr	clear	none	none
OW3	1.42	4.10	90.79	89.75	89.37	nr	brown	abundant	none
OW4	1.48	3.52	91.04	89.79	89.56	nr	-	-	-
OW5	2.60	5.54	91.00	90.06	88.40	nr	brown	some	none
OW7	1.06	3.85	92.99	92.41	91.93	nr	-	-	-
OW8R1	1.04	3.77	92.91	92.27	91.87	nr	clear	trace	none
OW11R1	0.49	5.75	90.08	89.32	89.59	<1	brown	abundant	none
OW12	1.66	5.50	89.74	88.64	88.08	nr	brown	trace	none
OW13	0.96	7.05	92.55	91.54	91.59	nr	brown	some	none
OW14	3.30	9.31	95.15	93.14	91.85	nr	cloudy	some	sulphur

Notes: LEL denotes lower explosive limit
nr indicates no response
DTW depth to water
DTB depth to well bottom
- denotes not available/not measured
masl meters above mean sea level
mbTOP denotes meters below top of piezometer

Data Input: JMP
Data Check: MW

**Table 4
 Surface Water Monitoring Results**

Station	UTMs				Flow Conditions		Notes
	April UTMs		November UTMs		30-Apr-19	25-Nov-19	
	Northing (m)	Easting (m)	Northing (m)	Easting (m)			
HBI	4917690	425010	4917697	425012	lotic	lotic	Located along fenceline of adjacent agricultural field, north-east of the WDS. Upstream point of the agricultural drainage tile.
HBO	4917817	425311	4917809	425311	lotic	lotic	Located north-east of the WDS. Downstream point of the agricultural drainage tile.
SW-4	4917528	424494	4917528	424943 ^[a]	lotic	lentic	Located upstream, to the west of the WDS, next to Escott Rockport Road. SW-4 is intended to represent background surface water quality for the northern drainage channel.
SW-5	4917927	425045	4917928	425045	lotic	lotic	Located downstream, to the north of the WDS, along the northern creek.
SW-7	4916893	424862	4916889	424867	lentic	lentic	Located upstream, to the south of the WDS, next to Escott Rockport Road. SW-7 is intended to represent background surface water quality for the southern drainage channel.
SW-8	4917180	425001	4917336 ^[b]	424887 ^[b]	lentic	lentic	Located downstream, to the east of the WDS, near the intersection of the drainage creek and southern creek.

notes

- [a] coordinate believed to be anomalous due to GPS error
- [b] location adjusted due to frozen conditions
- [c] UTM reference NAD 83, Zone 18T datum

Data Input: JMP

Data Check: MW

Table 5
2019 Overburden Groundwater Chemistry

Location	PARAMETERS		Alkalinity	Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium
	UNITS		mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	RL (2019)		5	0.01	3	0.5	0.2	1	1		0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.0002	0.01	0.0001	0.001	0.002	0.005	0.000015
	ODWS		30-500 ^{OG}				5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}			500 ^{AO}			250 ^{AO}	10 ^{CS}	1 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}	0.01 ^{CS}	1 ^{CS}		5 ^{CS}	0.005 ^{CS}
	Reasonable Use Limits		450				3.5		248				460			126	2.6	0.30	260	0.00028	0.12	0.0020	0.31		1.3	0.0013
Date	Sample ID																									
OW 3 (compliance)	2019-Apr-30	19-W005	313	0.07	<	235	3.0	762	389	7.92	<	18.5	399	19600	1.1	25.2	0.10	<	40	<	0.05	0.0004	0.085	<	0.016	<
	2019-Nov-25	19-W026	299	0.14	<	320	5.0	703	363	7.88	<	198	365	26800	1.5	24.3	1.02	<	39	<	0.06	0.0006	0.111	<	0.022	<
OW 5	2019-Apr-30	19-W004	228	0.06	<	8	2.4	462	254	8.06	<	0.29	239	690	0.1	1.1	<	<	10	<	0.04	0.0004	0.070	<	0.010	<
	2019-Nov-25	19-W027	229	0.08	<	22	3.7	463	252	8.02	<	0.47	239	480	0.2	1.1	0.15	<	11	<	0.05	0.0004	0.080	<	0.011	<
OW 8R1 (background)	2019-Apr-30	19-W014	332	0.05	<	<	5.2	656	353	7.76	<	0.22	341	185	0.2	0.7	0.39	<	7	<	0.05	0.0001	0.053	<	0.010	<
	2019-Nov-25	19-W032	311	0.08	<	<	3.8	601	314	7.98	<	0.07	312	50	0.2	<	0.51	<	5	<	0.07	0.0001	0.054	<	0.007	<
OW 11R1 (compliance)	2019-Apr-30	19-W002	433	0.99	4	390	6.7	1030	527	7.49	<	1.94	551	36000	3.2	41.7	0.44	0.32	49	<	0.07	0.0012	0.241	<	0.358	<
	2019-Nov-25	19-W018	382	0.95	6	510	7.8	911	468	7.92	<	12.1	483	7000	2.2	39.2	0.56	0.3	46	<	0.11	0.0008	0.218	<	0.278	<
OW 12 (compliance)	2019-Apr-30	19-W003	322	0.09	<	51	3.2	646	345	8.17	<	3.32	335	2000	0.5	2.0	0.14	<	16	<	0.03	0.0007	0.117	<	0.058	<
	2019-Nov-25	19-W020	341	0.1	<	40	3.9	682	358	8.09	<	1.19	354	1280	0.3	2.7	0.51	<	25	<	0.1	0.0006	0.127	<	0.061	<
OW 13	2019-Apr-30	19-W013	359	0.13	<	91	3.0	703	373	7.94	<	5.79	365	7050	0.6	2.1	<	<	12	<	0.03	0.0015	0.226	<	0.029	<
	2019-Nov-25	19-W029	384	0.14	<	22	5.4	695	365	7.96	<	1.35	361	3400	0.3	3.2	0.18	<	12	<	0.05	0.0013	0.233	<	0.029	<
OW 14	2019-Apr-30	19-W008	985	2.24	<	57	10.5	2080	1240	7.37	<	1.17	1150	4620	2.9	74.9	<	<	103	<	0.09	0.0018	0.423	<	0.173	<
	2019-Nov-25	19-W028	964	1.84	<	2150	12.9	2020	1160	7.6	<	33	1110	7800	16	90.1	0.21	<	104	<	0.1	0.0017	0.517	<	0.213	< 0.000029

(table con't)

Table 5
2019 Overburden Groundwater Chemistry (cont'd)

Location	PARAMETERS	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field) ¹⁾		
		UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L	
		RL (2019)	0.02	0.001	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.01	0.1		0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.005	0.005						0.001
		ODWS		0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.01 ^{CS}		0.05 ^{AO}							200 AO ^[a]						0.02 ^{CS}		5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}				
Date	Sample ID		0.013		0.50	0.22	0.0034		0.058						108							0.006		2.5							
OW 3	2019-Apr-30	19-W005	91.8	0.002	<	0.0005	<	<	38.8	0.004	<	<	1.0	-	7.89	<	8.3	0.345	<	<	<	0.07	0.00160	<	<	7.82	6.59	11.88	0.781	0.001	
	2019-Nov-25	19-W026	87.2	<	<	0.0046	0.025	0.00010	35.4	0.003	<	<	1.3	-	9.30	<	8.6	0.342	<	<	<	<	0.00107	<	<	7.90	9.41	5.39	0.644	0.002	
OW 5 (compliance)	2019-Apr-30	19-W004	61.1	<	<	0.0003	0.005	<	24.7	0.005	<	<	1.3	-	9.10	<	5.5	0.139	<	<	<	0.07	0.00042	<	<	7.71	6.82	10.28	0.510	<	
	2019-Nov-25	19-W027	61.3	<	<	0.0011	0.005	0.00002	24.1	0.006	<	<	1.4	-	9.74	<	5.8	0.146	<	<	<	<	0.00041	<	<	8.33	9.40	4.94	0.504	0.003	
OW 8R1 (background)	2019-Apr-30	19-W014	82.6	0.002	<	0.0004	0.024	<	35.7	<	<	<	0.4	-	7.94	<	10.5	0.264	<	<	<	0.09	0.00119	<	<	7.19	8.12	5.06	0.704	<	
	2019-Nov-25	19-W032	75.0	0.002	<	0.0008	0.016	<	30.8	<	<	<	0.5	-	8.37	<	14.7	0.248	<	<	<	<	0.00101	<	<	7.73	8.84	8.78	0.630	0.001	
OW 11R1 (compliance)	2019-Apr-30	19-W002	136	0.001	0.0014	0.0002	0.569	0.00034	45.5	0.400	<	<	4.8	-	7.61	<	24.4	1.87	<	<	<	0.1	0.0112	<	<	6.94	7.35	8.88	1.07	0.001	
	2019-Nov-25	19-W018	121	<	0.0012	0.0008	0.613	0.00028	40.2	0.369	<	<	4.8	-	7.54	<	21.1	1.73	<	<	<	<	0.00948	<	<	7.90	12.30	7.47	0.879	0.016	
OW 12 (compliance)	2019-Apr-30	19-W003	44.4	0.001	<	0.0003	<	<	57.0	<	<	<	2.3	-	6.03	<	20.0	1.05	<	<	<	0.08	0.00362	<	<	7.57	6.52	12.50	0.706	<	
	2019-Nov-25	19-W020	49.5	0.002	<	0.0004	0.081	0.00006	57.0	0.005	<	<	2.8	-	7.15	<	23.1	1.02	<	<	0.005	0.00039	<	<	8.23	10.51	12.07	0.714	0.003		
OW 13	2019-Apr-30	19-W013	57.7	<	<	0.0004	<	<	55.7	0.012	<	<	2.5	-	12.3	<	18.1	0.688	<	<	<	0.08	0.00075	<	<	7.66	11.86	11.74	0.777	0.001	
	2019-Nov-25	19-W029	63.1	<	0.0001	0.0012	0.01	0.00003	50.5	0.009	<	<	2.7	-	11.8	<	18.3	0.651	<	<	<	<	0.00084	<	<	8.27	9.55	6.61	0.724	0.005	
OW 14	2019-Apr-30	19-W008	181	0.001	0.0027	<	2.46	<	191	0.627	<	<	5.5	-	13.2	<	46.9	1.13	<	<	<	0.17	0.0222	<	<	6.58	10.08	5.02	2.28	0.002	
	2019-Nov-25	19-W028	174	<	0.0028	0.0004	3.01	< 0.00009	177	0.57	<	<	6	-	13.8	<	51.1	1.13	0.00006	<	<	<	0.0201	<	<	7.23	10.72	2.67	2.10	0.006	

Data Input: MW
Data Check: JMP

Notes: "-" denotes not analyzed
 "RL" denotes reporting limit
 "<#" denotes elevated reporting limit
 "<" denotes results below reporting limit
 "MW###" and "# - #" denote groundwater monitoring well
 "DUP" denotes duplicate sample
 "LF" denotes low flow sampling method used
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
^[a] the local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
 concentration exceeds the Ontario Drinking Water Standards
 AO indicates aesthetic objective OG indicates operational guidelines CS Chemical standards
 Malroz was not able to independently validate historic chemistry and exceedances, provided by the Township of Leeds and the Thousand Islands
 denotes exceedance of RUL

Table 6
2019 Bedrock Groundwater Chemistry

Location	PARAMETERS	Alkalinity	N - Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium		
		mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		RL (2019)	5	0.01	3	0.5	0.2	1	1	0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.00002	0.01	0.0001	0.001	0.002	0.005	0.000015			
ODWS	30-500 ^{OG}				5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}		500 ^{AO}			250 ^{AO}	10 ^{CS}	1 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}		0.01 ^{CS}	1 ^{CS}	5 ^{CS}	0.005 ^{CS}					
Reasonable Use Limits	427				3.6		232			453			134	2.7	0.400	260	0.00280	0.06		0.0017	0.36		1.3	0.0013				
Date	Sample ID																											
BW 1	2019-Apr-30	19-W006	811	2.90	<	32	12.5	2020	1070	7.24	<	0.01	1110	6	3.5	107	<	<	175	<	0.11	-	0.0017	0.341	<	0.561	<	
	2019-Nov-25	19-W025	908	2.81	<	33	17.3	2060	1060	7.40	<	0.01	1140	13	3.2	113	0.1	<	163	<	0.11	-	0.0012	0.36	<	0.623	<0.000029	
BW 2	2019-Apr-30	19-W007	164	0.08	<	7	2.9	362	188	8.00	<	0.01	186	5	0.1	4.0	<	<	12	<	0.03	-	0.0004	0.052	<	0.049	<	
	2019-Nov-25	19-W021	161	0.07	<	5	3.5	357	181	7.96	<	0.03	184	6	0.1	5.1	0.12	<	12	<	0.05	-	0.0004	0.061	<	0.055	<	
BW 3 (background)	2019-Apr-30	19-W015	323	0.05	<	6	4.6	721	380	7.78	<	<	375	<	<	24.5	0.53	<	17	<	0.05	-	<	0.144	<	0.021	<	
	2019-Nov-25	19-W031	317	0.07	<	< 5	4.9	722	374	7.96	<	0.05	376	3	0.1	30.2	0.70	<	19	<	0.05	-	<	0.156	<	0.021	<	
BW 4 (compliance)	2019-Apr-30	19-W001	475	1.19	<	23	7.4	1120	567	7.43	<	0.08	602	14	1.5	49.9	<	<	52	<	0.07	-	0.0005	0.192	<	0.426	<	
	2019-Nov-25	19-W019	428	1.03	<	14	10.9	1010	531	7.78	<	0.02	539	7	1.2	48.7	0.10	<	49	<	0.07	-	0.0005	0.193	<	0.358	<	

(table con't)

Table 6
2019 Bedrock Groundwater Chemistry (cont'd)

Location	PARAMETERS	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field)[1]	
		UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L	
		RL (2019)	0.02	0.001	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.01	0.1		0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.005	0.005					0.001
		ODWS		0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.01 ^{CS}		0.05 ^{AO}							200 ^{AO [a]}						0.02 ^{CS}		5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}			
Reasonable Use Limits		0.015		0.50	0.17	0.0026		0.028							106							0.0083		2.5						
Date	Sample ID																													
BW 1	2019-Apr-30	19-W006	254	0.001	0.0106	0.0011	2.54	0.00004	107	3.27	<	0.01	5.7	-	11.5	<	68.3	1.30	<	<	<	0.08	0.0124	<	<	6.47	9.64	7.40	2.15	0.002
	2019-Nov-25	19-W025	255	<	0.0119	0.0016	2.78	< 0.00009	104	3.48	<	0.01	5.7	-	11.7	<	75.2	1.31	<	<	<	0.0121	<	<	6.95	9.28	1.98	2.12	0.004	
BW 2	2019-Apr-30	19-W007	56.7	0.001	<	<	0.047	<	11.3	0.033	<	<	2.2	-	4.72	<	4.8	1.16	<	<	<	0.09	0.00604	<	<	7.64	7.36	7.25	0.404	0.001
	2019-Nov-25	19-W021	55.9	<	<	0.0005	0.062	0.00003	10.0	0.033	<	<	2.5	-	4.90	<	4.9	1.10	<	<	<	<	0.00496	<	<	8.52	10.24	2.76	0.389	0.004
BW 3	2019-Apr-30	19-W015	86.9	0.001	<	0.001	<	<	39.5	<	<	<	2.1	-	8.33	<	13.3	0.372	<	<	<	0.11	0.00441	<	<	7.14	10.0	3.71	0.793	<
	2019-Nov-25	19-W031	86.6	0.001	<	0.0014	<	<	38.2	<	<	<	2.3	-	8.31	<	13.7	0.377	<	<	<	<	0.00401	<	<	7.64	9.19	3.01	0.747	0.001
BW 4	2019-Apr-30	19-W001	144	0.001	0.0011	0.0003	0.549	0.00042	50.3	0.483	<	<	5.0	-	8.10	<	28.5	2.00	0.00008	<	<	0.09	0.0120	<	<	6.52	9.51	6.05	1.27	0.001
	2019-Nov-25	19-W019	134	<	0.0010	0.0006	0.583	0.00037	47.6	0.494	<	<	5.0	-	8.01	<	26.0	1.87	0.00007	<	<	<	0.0100	<	<	7.46	10.38	3.46	1.05	0.006

Notes: "-" denotes not analyzed
 "RL" denotes reporting limit
 "<#" denotes elevated reporting limit
 "<" denotes results below reporting limit
 "BW#" denote bedrock monitoring well
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
 [a] the local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
 concentration exceeds the Ontario Drinking Water Standards
 AO indicates aesthetic objective OG indicates operational guideline CS Chemical standards
 Malroz was not able to independently validate historic chemistry and exceedances, provided by the Township of Leeds and the Thousand Islands
 denotes exceedance of RUL

Data Input: MW
Data Check: JMP

Table 7
Reasonable Use Limits

Parameter	Units	ODWS Concentration Limit (C _r)	Constant (x)	Bedrock Wells		Overburden Wells	
				BW3 mean Background Concentration 2006-2019 (C _b)	Reasonable Use Limit (C _m)	OW8 mean Background Concentration 2006-2019 (C _b)	Reasonable Use Limit (C _m)
Alkalinity	mg/L	500	0.5	353	426	392	446
DOC	mg/L	5	0.5	2	3.7	2	3.6
Hardness	mg/L	100	0.5	368	234	391	246
Total Dissolved Solids	mg/L	500	0.5	404	452	412	456
Chloride	mg/L	250	0.5	19.2	135	1.6	126
N - Nitrate	mg/L	10.0	0.25	0.30	2.7	0.21	2.7
N - Nitrite	mg/L	1.0	0.25	0.19	0.4	0.05	0.3
Sulphate	mg/L	500	0.5	20.2	260	18.3	259
Mercury	mg/L	0.001	0.25	0.000040	0.00028	0.000034	0.00028
Aluminum	mg/L	0.1	0.5	0.0142	0.06	0.135	0.12
Arsenic	mg/L	0.006	0.25	0.000309	0.0017	0.00181	0.0029
Barium	mg/L	1	0.25	0.148	0.361	0.083	0.312
Boron	mg/L	5	0.25	0.0206	1.27	0.0076	1.26
Cadmium	mg/L	0.005	0.25	0.00004	0.0013	0.00003	0.0013
Chromium	mg/L	0.05	0.25	0.0028	0.015	0.0000	0.013
Copper	mg/L	1	0.5	0.00133	0.5	0.00143	0.5
Iron	mg/L	0.3	0.5	0.0367	0.168	0.130	0.215
Lead	mg/L	0.010	0.25	0.00006	0.00255	0.0011	0.00330
Manganese	mg/L	0.05	0.5	0.0055	0.028	0.0594	0.055
Sodium	mg/L	200	0.5	12.9	106	15.2	108
Uranium	mg/L	0.02	0.25	0.00435	0.0083	0.00128	0.0060
Zinc	mg/L	5	0.5	0.0060	2.5	0.0076	2.5

Notes: reasonable use calculation based on MOE Guideline B-7

$$C_m = C_b + x(C_r - C_b)$$

C_b = background concentration

x = constant; 0.5 non-health parameter, 0.25 for health parameter

C_r = max conc. acceptable in water (Ontario Drinking Water Standard)

C_m = max degradation

Input: AP
 Check: RB

Table 8
2019 Surface Water Chemistry

Location	PARAMETERS	UNITS	Alkalinity	Ammonia	Ammonia, unionized	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Phosphorus, total dissolved	TDS	TSS	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	RL (2019)	5	0.01	0.01	3	5	0.2	1	1		6.5-8.5	0.001	0.01	0.002	3	3	0.1	0.5	0.05	0.05	1	0.0002	0.01	0.0001	0.0001	0.001	0.002	0.005	0.000015	0.02	0.001	
	PWQO (mg/L)	(note a)		0.020							6.0-9.0	0.04 ^(b)						180			100			0.0002	0.075 ^c	0.02	0.005		2.3	3.550	0.00021	(note f)
	Table A: Aquatic Protection Value (mg/L)			0.100																												
	Table B: Canadian Water Quality Guideline (mg/L)											0.004 ^(b)						128	2.9	0.06		0.000026						1.5	0.000017			
	Date	Sample ID																														
North Stream	SW4	2019-Apr-30	19-W017	99	0.07	<	<	39	13.6	236	113	7.92	<	0.10	0.038	121	12	1.0	6.2	<	<	5	<	<	0.0003	0.040	<	0.009	0.000041	29.3	0.002	
		2019-Nov-25	19-W033	93	0.04	<	<	18	10	236	110	7.64	<	0.06	0.054	121	<	0.6	8.2	0.19	<	12	<	<	0.0002	0.043	<	0.008	0.000035	27.6	0.001	
South Stream	SW5	2019-Apr-30	19-W011	113	0.07	<	<	28	10.8	270	130	7.95	<	0.05	0.028	138	<	0.7	7.1	<	<	7	<	0.0001	0.0003	0.041	<	0.011	0.000027	32.2	0.002	
		2019-Nov-25	19-W023	109	0.04	<	<	24	11.1	272	128	7.71	<	0.04	0.039	139	3	0.6	7.4	0.2	<	16	<	<	0.0002	0.045	<	0.01	0.000033	30.8	<	
Hickenbottom Stream	SW7	2019-Apr-30	19-W016	59	0.07	<	<	30	8.5	278	76	7.75	<	0.09	0.015	142	<	4.4	42.6	<	<	5	<	0.0001	0.0002	0.023	<	0.009	<	20.2	0.002	
		2019-Nov-25	19-W034	69	0.05	<	<	20	10.2	209	74	7.33	<	0.02	0.022	107	<	0.4	20.5	0.11	<	6	<	<	0.0001	0.021	<	0.008	<	19.7	<	
Hickenbottom Stream	SW8	2019-Apr-30	19-W012	50	0.08	<	<	32	10.1	186	60	7.57	<	0.11	0.039	95	75	0.7	20	<	<	4	<	0.0002	0.025	<	0.008	0.000019	16.4	0.002		
		2019-Nov-25	19-W030	71	0.04	<	11	70	13.1	194	90	7.68	<	0.78	0.119	99	325	3.2	12.4	0.19	<	4	<	0.0006	0.081	<	0.014	0.000175	22.7	0.004		
Hickenbottom Stream	Hickenbottom Inlet	2019-Apr-30	19-W009	377	0.08	<	<	24	8.5	918	431	8.17	<	0.07	0.036	487	92	0.6	54.3	0.09	<	20	<	0.0001	0.0003	0.111	<	0.445	0.000028	105	0.002	
		2019-Nov-25	19-W022	401	0.07	<	<	19	11.7	951	443	8.08	<	0.04	0.033	506	11	0.5	57.1	0.3	<	28	<	-	0.0002	0.107	<	0.419	0.000028	109	<	
Hickenbottom Stream	Hickenbottom Outlet	2019-Apr-30	19-W010	155	0.09	<	<	24	10.3	382	181	7.87	<	0.09	0.049	197	7	0.7	11.4	0.22	<	15	<	0.0001	0.0003	0.055	<	0.108	0.000034	43.4	0.002	
		2019-Nov-25	19-W024	173	0.06	<	<	22	9.7	443	215	7.71	<	0.08	0.049	229	13	0.7	16.3	1.38	<	24	<	-	0.0002	0.066	<	0.123	0.000043	50.9	0.001	

(table cont)

Table 8
2019 Surface Water Chemistry (cont'd)

Location	PARAMETERS	UNITS	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field) ¹	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L
		RL (2019)	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.0002	0.1	0.001	0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.005	0.005				0.001		
		PWQO (mg/L)	0.0009	0.0005 ^g	0.3	0.005 ^h			0.04	0.025		0.1		0.0001			0.0003			0.03	0.005	0.006	0.02			(note i)	0.02		
		Table A: Aquatic Protection Value (mg/L)		0.0069	1.000	0.002																					0.10		
		Table B: Canadian Water Quality Guideline (mg/L)																					0.03						
		Date																											
North Stream	SW4	2019-Apr-30	19-W017	0.0002	0.0035	0.326	0.00019	9.87	0.016	<	0.0011	2.5	<	2.37	<	6.6	0.143	<	<	0.007	0.05	0.00148	<	0.013	7.75	13.32	10.2	0.276	0.001
		2019-Nov-25	19-W033	0.0003	0.0027	0.498	0.00029	10.0	0.011	-	0.0011	3.0	-	4.29	<	5.5	0.131	-	-	-	0.00151	<	0.012	7.74	4.59	8.87	0.250	<	
South Stream	SW5	2019-Apr-30	19-W011	0.0002	0.0029	0.299	0.00014	11.0	0.017	<	0.0014	2.2	<	1.50	<	6.6	0.154	<	<	0.05	0.00147	<	0.012	7.45	11.47	12.51	0.311	<	
		2019-Nov-25	19-W023	0.0003	0.0031	0.474	0.00023	11.3	0.014	-	0.0012	2.1	-	3.92	<	6.0	0.149	-	-	-	0.00167	<	0.011	8.42	4.77	10.87	2.87	0.001	
Hickenbottom Stream	SW7	2019-Apr-30	19-W016	<	0.0011	0.154	0.00007	5.67	0.011	<	0.0005	1.1	<	0.63	<	27.0	0.114	<	<	0.08	0.00015	<	0.021	7.90	13.61	8.79	0.328	0.001	
		2019-Nov-25	19-W034	0.0001	0.0006	0.238	0.00009	6.49	0.011	-	0.0006	1.4	-	3.93	<	13.8	0.114	-	-	-	0.00012	<	0.009	7.82	1.40	5.05	0.225	<	
Hickenbottom Inlet	SW8	2019-Apr-30	19-W012	0.0003	0.0015	0.684	0.00047	5.01	0.040	0.01	0.0007	1.0	<	3.55	<	14.1	0.086	<	<	0.018	0.06	0.00016	<	0.012	7.54	12.00	8.12	0.225	0.001
		2019-Nov-25	19-W030	0.0016	0.0047	4.35	0.00275	7.97	0.230	0.0002	0.0027	4.7	<	7.85	<	7.3	0.091	<	<	0.22	<	0.00056	0.0053	0.033	8.43	4.70	10.54	0.203	0.001
Hickenbottom Outlet		2019-Apr-30	19-W009	0.0004	0.0015	0.432	0.00027	37.5	0.068	<	0.0020	4.8	<	4.37	<	41.2	0.479	<	<	0.014	0.01	0.00511	<	0.020	7.61	10.72	8.45	1.05	0.001
		2019-Nov-25	19-W022	0.0003	0.0015	0.376	0.0003	40.6	0.065	-	0.0024	3.7	-	4.13	<	39.5	0.486	-	-	-	0.00389	<	0.014	8.32	5.97	13.26	0.956	0.002	
		2019-Apr-30	19-W010	0.0002	0.0034	0.341	0.00022	15.4	0.020	<	0.0015	1.6	<	4.27	<	12.2	0.226	<	<	0.012	0.01	0.00235	<	0.013	7.63	11.30	8.41	0.450	0.001
		2019-Nov-25	19-W024	0.0003	0.0041	0.462	0.00027	19.8	0.022	-	0.0019	2.0	-	4.71	<	13.5	0.276	-	-	-	0.00304	<	0.010	7.82	5.18	5.42	0.458	<	

Notes:

- ** denotes not analyzed
- *RL* denotes reporting limit
- *<* denotes result below reporting limit
- *SW ##* denotes surface water station ID
- *#* denotes sample exceeds reportable limit

[1] Unionized Ammonia calculated using field parameters for pH and temperature
 [a] Alkalinity should not be decreased by more than 25% of the natural concentration
 [b] Table A and Table B standards apply only to Phenol
 [c] Aluminum criteria: >6.5 - 9.0 pH = 0.075 mg/L, >5.5 - 6.5 pH = <10% above natural background concentration
 [d] Beryllium criteria: <75 mg/L Hardness = 0.011 mg/L, >75 mg/L Hardness = 1.1 mg/L
 [e] Cadmium criteria: 0-100 mg/L Hardness = 0.0001 mg/L, >100 mg/L Hardness = 0.0005 mg/L
 [f] Chromium reported as total, published standards are for Chromium VI (0.001 mg/L) and Chromium III (0.0089 mg/L)
 [g] Copper criteria: 0-20 mg/L Hardness = 0.001 mg/L, >20 mg/L Hardness = 0.005 mg/L
 [h] Lead criteria: <30 mg/L Hardness = 0.001 mg/L, 30 to 80 mg/L Hardness = 0.003 mg/L, >80 mg/L Hardness = 0.005 mg/L
 [i] PWQO for minimum DO concentration set at conservative value based on highest temperature and warm water biota
 DO criteria: 0°C -5°C = ≥7mg/L 5°C-10°C = ≥ 6mg/L 10°C-20°C = ≥5mg/L 20°C-25°C = ≥ 4mg/L
 Malroz was not able to independently validate historic chemistry and exceedances, provided by the Township of Leeds and the Thousand Islands

Shading indicates parameters exceeding guideline criteria
 denotes concentration exceeds the PWQO
 denotes concentration exceeds the APV
 denotes concentration exceeds the CWQG
 denotes background surface water station

Data Input: MW
Data Check: JMP

Appendix C
Certificate of Approval No. A441703



Ontario

Ministry of the Environment
Ministère de l'Environnement

AMENDED PROVISIONAL CERTIFICATE OF APPROVAL
WASTE DISPOSAL SITE
NUMBER A441703

The Corporation of the Township of Leeds and the Thousand Islands
PO Box 129
Lansdowne, Ontario
K0E 1L0

Site Location: Ward 3 (Escott) Landfill Site
Lot 9, 10, Concession Broken Front Concession
Leeds and the Thousand Islands Township, United Counties of Leeds and Grenville

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

a 1 hectare landfilling area and a transfer station for recyclable materials, white goods, scrap metal and tires, within a 15.1 hectare site

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

- a. "Owner" means The Corporation of the Township of Leeds and the Thousand Islands;
- b. "Ministry" means the Ministry of the Environment;
- c. "Director" means the one or more persons who from time to time are so designated for the purpose of Section 37 of the Environmental Protection Act ;
- d. "Regional Director" means the Director, Eastern Region, Ministry of the Environment;
- e. "Certificate" means this Provisional Certificate of Approval No. A441073, as amended from time to time, including all schedules attached to and forming part of this Certificate;
- f. "Site" means Ward 3 (Escott) Waste Disposal Site with its associated buildings and storage facilities located on Lot 9, 10, Concession Broken Front Concession, Leeds and the Thousand Islands Township, United Counties of Leeds and Grenville;
- g. "EPA " mean the Environmental Protection Act , R.S.O. 1990, C. E-19 as amended;
- h. "O.Reg. 558" means Ontario Regulation 558/00 issued to amend O.Reg. 347;
- i. "O.Reg. 347" means Ontario Regulation 347 (General-Waste Management Regulation), R.R.O. 1990, as amended;

- j. “summer season” means the time period between May 1 to October 31;
- k. “winter season” means the time period between November 1 to April 31;
- l. “District Manager” means the District Manager, Kingston District Office, Eastern Region; and
- m. “white goods which contain refrigerants” means white goods which contain, or may contain refrigerants, and which include, but are not restricted to refrigerators, freezers and air-conditioning systems.

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

TERMS AND CONDITIONS

GENERAL

1. This Certificate revokes all previously issued Provisional Certificates of Approval issued under Part V of the EPA for this Site. The approval given herein including the terms and conditions set out replaces all previously issued approvals and related terms and conditions under Part V of the EPA for this Site.
2. The Site shall be developed, operated and maintained in accordance with all of the plans and specifications in the documents listed in Schedule "A". Should there be discrepancies between the documents listed in Schedule "A" and the conditions in this Certificate, the conditions shall take precedence. Should there be discrepancies between the documents listed in Schedule "A", the document bearing the most recent date shall take precedence.
3. Requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation. The Owner shall ensure compliance with all the terms and conditions of this Certificate. Any noncompliance constitutes a violation of the EPA and is grounds for enforcement.
4. The requirements of this Certificate are severable. If any requirements of this Certificate to any circumstances is held invalid, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected thereby.
5. The Owner shall ensure that all communications/correspondence made pursuant to this Certificate includes reference to this Certificate number.

NOTIFICATION OF CHANGES

6. The Owner shall notify the Director in writing of any of the following changes within thirty (30) days of the change occurring:
 - (a) change of Owner or Operator of the Site or both;
 - (b) change of address or address of the new Owner;
 - (c) change of 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 , 1991 shall be included in the notification to the Director;
 - (d) any change of name of the corporation where the Owner or Operator is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" (Form 1 or 2 of O. Reg. 182, Chapter C-39, R.R.O. 1990 as amended from time to time), filed under the Corporations Information Act shall be included in the notification to the Director; and
 - (e) change in directors or officers of the corporation where the Owner or Operator is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" as referred to in 6(d), supra.
7. In the event of any changes in ownership of the Site, the Owner shall notify, in writing, the succeeding owner of the existence of this Certificate, and a copy of such written notice shall be forwarded to the Director and the District Manager.

INSPECTIONS

8. The Owner shall allow Ministry personnel, or a Ministry authorized representative(s), upon presentation of credentials, to:
 - (a) carry out any and all inspections authorized by Sections 156, 157 or 158 of the EPA , Sections 15, 16 or 17 of the Ontario Water Resources Act , R.S.O. 1990, or Sections 19 or 20 of the Pesticides Act , R.S.O. 1990, as amended from time to time, of any place to which this Certificate relates, and

without restricting the generality of the foregoing to:
 - (b) (i) enter upon the premises or the location where the records required by the conditions of this Certificate are kept;
 - (ii) have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;

- (iii) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate, and
- (iv) sample and monitor, at reasonable times, for the purposes of assuring compliance with the conditions of this Certificate.

RELEASE OF INFORMATION

9. (a) The Owner shall, forthwith upon request of the Director, District Manager, or Provincial Officer (as defined in the *EPA*), furnish any information requested by such persons with respect to compliance with the Certificate, including but not limited to, any records required to be kept under this Certificate; and
- (b) In the event, the Owner provides the Ministry with information, records, documentation or notification in accordance with this Certificate (for the purposes of this Condition referred to as "Information"),
- (i) the receipt of Information by the Ministry;
 - (ii) the acceptance by the Ministry of the Information's completeness or accuracy; or
 - (iii) the failure of the Ministry to prosecute the Owner, or to require the Owner to take any action, under this Certificate or any statute or regulation in relation to the Information.

shall not be construed as an approval, excuse or justification by the Ministry of any act omission of the Owner relating to the Information, amounting to noncompliance with this Certificate or any statute or regulation.

10. Any information relating to this Certificate 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* , R.S.O. 1990, C.F-31.

CERTIFICATE OF PROHIBITION

11. Pursuant to Section 197 of the *EPA* , neither the Owner nor any person having an interest in the property that the Site is on, shall deal with the property in any way without first giving a copy of this Certificate to each person acquiring an interest in the property as a result of the dealing.

12. The Owner shall:
- (a) within sixty (60) days of the date of this Certificate, submit to the Director for the Director's signature two copies of a completed Certificate of Prohibition containing a registerable description of the property that the Site is on, in accordance with Form 1 of Ontario Regulation 14/92 and
 - (b) within ten (10) calendar days of receiving the Certificates of Prohibition signed by the Director, register the Certificate of Prohibition in the appropriate Land Registry Office on title to the property that the Site is on and shall submit to the Director immediately following registration the duplicate registered copy.

SERVICE AREA

13. The approved service area for the Site is only **Ward 3, Front of Escott**, of the Township of Leeds and the Thousand Islands.

WASTE TYPES

14. (a) Only solid non-hazardous waste shall be accepted at the Site for landfilling.
- (b) Only recyclable wastes, white goods, metals and tires shall be accepted at the Site for bulking and subsequent transfer off-site for further processing.
- (c) No liquid industrial wastes or hazardous wastes as defined under O.Reg. 347 and O.Reg. 558 shall be accepted at the Site.

SITE CAPACITY

15. The total waste disposal volume of the Site, including the waste, daily cover and intermediate cover, but excluding final cover, is 40,000 cubic metres. This capacity includes the existing and proposed waste to be landfilled.

WASTE PLACEMENT

16. In the areas not previously used for landfilling, no waste shall be placed lower than 0.5 metre below the existing ground.
17. Disposal of waste shall only occur within the areas as delineated on Drawing No. OP-1, entitled "Operations/Development Plan" dated December 16, 2003.
18. Drawing showing final contours shall be revised each year and submitted with the Annual Report required by Condition 52, to reflect the degree of excavation in the fill area not used for trenching and the amount of the final cover stripped from the existing trenches.

DAILY AND INTERIM COVER

19. (a) Daily and interim cover material shall consist of a permeable material and it shall be applied in accordance with Item 4 of Schedule "A". Crushed glass may be mixed with the soil to be used for daily and interim covers.
- (b) The Owner shall keep records of the cover application activities in accordance with Condition 50.
- (c) Daily cover and interim cover shall be applied as follows:
- (i) At least once bi-weekly during the summer season, at end of the working day, the entire working face shall be covered with a minimum thickness of 150 mm of daily cover.
 - (ii) At least once monthly during the winter season, at end of the working day, the entire working face shall be covered with a minimum thickness of 150 mm of daily cover.
 - (iii) In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 mm of interim cover shall be placed.
- (d) The frequency of application and the cover thickness in subsections (i), (ii) and (iii) are minimum requirements, and may have to be increased if environmental adverse effects have been found to occur.

OPERATIONAL ISSUES

20. (a) The normal operating hours of the Site shall be as follows:
- Tuesdays: 8:30 a.m. - 4:45 p.m.
Saturdays: 8:30 a.m. - 4:45 p.m.
- (b) The Owner may provide alternative hours of operation providing that they are correctly posted at the Site gate, that suitable public notice is given of any change and that there are no objections or complaints from the public regarding the hours of operation.
21. The Owner shall ensure that all loads of waste are properly inspected by trained Site personnel prior to acceptance at the Site and that the vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Owner shall notify the District Manager, in writing, of load rejections at the Site within three (3) days from their occurrence.
22. Waste shall be deposited in a manner that minimizes the exposure area at the landfill working face and shall be compacted before cover material is applied.

23. (a) The Owner shall ensure that no burning of waste is taking place at the Site.
- (b) The Owner shall ensure that burning of clean wood waste approved to take place at the Site, is done in accordance with the Ministry's Guideline C-7, entitled "Burning at Landfill Sites", dated April 1994, and updated from time to time.
24. The Owner shall ensure that no scavenging is taking place at the Site.
25. The Owner shall ensure that all buildings at the Site are free of any possible landfill gas accumulation. If necessary, the Owner shall provide adequate ventilation systems to relieve landfill gas accumulations in the buildings at the Site.
26. The access road and on-site roads shall be provided and maintained so that vehicles hauling waste to and from the Site may travel readily and safely on any operating day.

SIGNS

27. The Owner shall maintain a sign at the main entrance/exit to the Site on which the following information is legibly displayed:
 - (a) name of the Site and Owner;
 - (b) this Certificate number;
 - (c) normal hours of operation;
 - (d) allowable and prohibited waste types;
 - (e) telephone number to which complaints may be directed;
 - (f) twenty-four hour emergency telephone number (if different from above);
 - (g) a warning against unauthorized access; and
 - (h) a warning against dumping outside the Site.
28. The Owner shall install and maintain signs at the Site to direct vehicles to the working face, the recycling bins and the other disposal or storage areas designated for wastes requiring special handling procedures.

SITE SECURITY

29. The Owner shall maintain a fence around the Site and the entrance/exit gate to provide control of the Site access.
30. During nonoperating hours, the Owner shall ensure that the Site entrance/exit gate is locked and the Site is secured against access by unauthorized persons.
31. No waste shall be received at the Site except during the operating hours when the Site is under the supervision of trained Site personnel.

SURFACE WATER MANAGEMENT

32. Temporary berms and ditches shall be constructed around the active waste disposal area, as necessary, to prevent extraneous surface water from contacting the active working face.

BIRD, ANIMAL, VECTOR AND VERMIN CONTROL

33. Scavenging birds and animals shall be adequately controlled at the Site to prevent any adverse effects.
34. Vector and vermin shall be adequately controlled at the Site using a licensed exterminator to prevent any adverse effects.

LITTER CONTROL

35. The Owner shall take all practical steps to prevent the escape of litter from the Site. Regular pick-up of litter at the Site and along the access road in the vicinity of the Site shall be carried out. Litter fencing shall be erected around the working area of the landfill as required.

DUST CONTROL

36. The Owner shall control fugitive dust emissions from the on-site sources including, but not be limited to the on-site roads, stockpiled cover material and closed landfill areas. If necessary, the major sources of dust shall be treated with water and/or dust suppression materials to minimize the overall dust emissions from the Site.
37. The Owner shall ensure that reasonable efforts are made to keep the access road used by vehicles to leave the Site, free of waste or excess mud or dirt.

NOISE

38. Noise from or related to the operation of the landfill shall be kept to a minimum and in any event, the Owner shall comply with the criteria set out in the Ministry's guideline entitled "Noise Guidelines for Landfill Sites".

TRAFFIC CONTROL

39. The Owner shall post visible signs along the traffic route providing clear directions to the Site.

VISUAL SCREENING

40. The Owner shall maintain adequate screening of the waste disposal activities undertaken at the Site from the traffic on Escott Road and the surrounding properties.

ENVIRONMENTAL MONITORING

41. (a) Groundwater and surface water monitoring shall be undertaken in accordance with the monitoring programs included in Item 1 of Schedule "A".
- (b) Within twelve (12) months from the date of this Certificate, the Owner shall submit to the District Manager a proposal for additional bedrock monitoring wells.
- (c) No changes to the groundwater and surface water monitoring programs shall be implemented prior to receiving a written approval from the District Manager.

GROUNDWATER WELLS/MONITORS

42. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
43. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells, and the wells shall be properly re-secured.
44. Any groundwater monitoring wells included in the on-going monitoring program that are damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.
 - (a) The Owner shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling such that no more than one regular sampling event is missed.
 - (b) All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the Director for abandonment, shall be decommissioned by the Owner, as required, in accordance with **Ontario Regulation 903**, that will prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the annual monitoring report for the period during which the well was decommissioned.

INSPECTIONS

45. (a) The Owner shall ensure that monthly Site inspections, are undertaken by trained Site personnel.
- (b) The areas to be inspected shall include, but not be limited to the following:
 - (i) condition of the active disposal areas, the recyclable bins, the tire pile, the white goods pile and the scrap metal pile;
 - (ii) condition of the surface water drainage works;

- (iii) presence of any ponded water at the Site;
 - (iv) condition of the on-site roads for evidence of excessive erosion and fugitive dust emissions;
 - (v) presence of litter at the Site's perimeter and litter fences;
 - (vi) condition of the intermediate cover and of the final cover;
 - (vii) presence of birds, vector, vermin and animals;
 - (viii) condition of the on-site facilities, the fence, the gate and its lock and the signs required by this Certificate;
 - (ix) condition of the groundwater monitoring wells required for the groundwater monitoring program approved by this Certificate;
 - (x) amount of the cover material to ensure that sufficient daily cover is available at all times that the Site is in operation; and
 - (xi) presence of leachate springs.
- (c) Records of inspections shall be created in accordance with Condition 49.

TRAINING

46. All operators of the Site shall be trained in the following areas:
- (a) terms, conditions and operating requirements of this Certificate;
 - (b) operation and management of the landfill and the other waste storage areas as described in the documents in Schedule "A" attached to this Certificate unless otherwise required by the conditions of this Certificate;
 - (c) outline of the responsibilities of the operators of the Site;
 - (d) any environmental concerns pertaining to wastes being handled at the Site;
 - (e) proper inspection, receiving and recording procedures and the activities to be undertaken during and after a load rejection;
 - (f) occupational health and safety concerns pertaining to the wastes to be handled at the Site;
 - (g) relevant environmental legislation and regulations, including but not limited to the EPA and O. Reg. 347; and

- (h) operation of equipment and procedures to be followed in the event of an emergency situation.

RECORDS KEEPING

- 47. (a) The Owner shall retain all documentation listed in Schedule “A” for as long as this Certificate is valid.
- (b) The Owner shall retain at the Site or at the municipal office, all records required by this Certificate, for a minimum of two (2) years from the date of their creation.
- (c) The Owner shall retain the employee training records for as long as the employee is working at the Site.
- (d) The Owner shall make all of the documents and records required by this Certificate available for inspection upon request by the staff of the Ministry.

COMPLAINTS

- 48. The Owner shall record the name and address of complaint, and the date, time and nature of complaint and the actions taken to address the cause of the complaint, in a log book or a computer file.

INSPECTIONS

- 49. The Owner shall establish and maintain a written record of the Site inspections as required by Condition 45. This record shall be in the form of a log or a dedicated electronic file and it shall include, as a minimum, the following information:
 - (a) date and time of inspection;
 - (b) name, title and signature of trained personnel conducting the inspection;
 - (c) a listing of all the areas inspected and any deficiencies observed; and
 - (d) recommendations for remedial action and the completion date of such action.

COVER APPLICATION

- 50. The Owner shall establish and maintain a written record of the cover application activities as required by Condition 19. This record shall be in the form of a log or a dedicated electronic file and it shall include, as a minimum, the following information:
 - (a) date and time of cover application; and
 - (b) type of cover and thickness applied.

WHITE GOODS

51. The Owner shall establish and maintain a written record of the white goods handling activities as required by Condition 57. This record shall be in the form of a log or a dedicated electronic file and it shall include, as a minimum, the following information:

- (a) date of the record;
- (b) types, quantities and source of white goods which contain refrigerants received;
- (c) details on removal of refrigerants as required by Ontario Regulation 189; and
- (d) the quantities and destination of the white goods and/or refrigerants transferred.

ANNUAL REPORT

52. The Owner shall prepare and submit an Annual Report to the District Manager by March 30 of the year following the calendar year covered by the report which shall include at a minimum, the following:

- (a) calculations of the volume of waste landfilled, the daily and interim covers, the final cover and the overall volume of the Site capacity used during the reporting period;
- (b) a comparison of the actual capacity used to the estimates of the capacity estimated;
- (c) an estimate of the remaining Site life;
- (d) updated drawing to show the proposed final contours of the finished waste mound;
- (e) amount of the recyclable materials, metals, white goods and tires transferred off-site for further processing
- (f) any changes in operations, equipment, or procedures used at the Site, any operating problems encountered and corrective actions taken;
- (g) details on the monitoring program undertaken, outlining monitor locations, analytical parameters sampled, and frequency of sampling;
- (h) an analysis and interpretation of the surface water and groundwater monitoring data, a review of the adequacy of the monitoring program, conclusions of the monitoring data, and recommendations for any changes that may be necessary;
- (i) summary of inspections undertaken at the Site;
- (j) summary of any public complaints received and the responses made;

- (k) a discussion of cover stockpile activities including use, timing, locations and erosion protection;
 - (l) status update on the final cover placement, and seeding activities undertaken in the closed sections of the landfill;
 - (m) updated drawing to show the proposed final contours of the finished waste mound;
 - (n) a statement as to compliance with all conditions of this Certificate and the other relevant Ministry's groundwater and surface water requirements;
 - (o) recommendations respecting any proposed changes in the operation of the Site; and
 - (p) any other information that the Regional Director or the District Manager may require.
53. The frequency or timing of the submission of the Annual Report from Condition 52 may be changed with the written approval from the District Manager.

EMERGENCY SITUATIONS

54. Any spills, fires or other emergency situations shall be forthwith reported directly to the Ministry's Spills Action Centre (1-800-268-6060) and shall be cleaned up immediately.
- In addition, the Owner shall submit, to the District Manager a written report within three (3) days of any spill or incident, outlining the nature of the incident, remedial measures taken and the measures taken to prevent future occurrences at the Site.
55. The Owner shall ensure that adequate fire fighting and contingency spill clean-up equipment is available and that the emergency response personnel are familiar with the use of such equipment and its location(s).

LANDFILL CLOSURE

56. At least two (2) years prior to the anticipated date of closure of the landfill at this Site or the date when 90 per cent of the total waste disposal volume is reached, whichever occurs first, the Owner shall submit to the Director for approval, with a copy to the District Manager, a detailed Site Closure Plan pertaining to the termination of the landfilling operations at the Site, post-closure inspection, maintenance and monitoring and the end use. The plan shall include, but not be limited to the following:
- (a) plan showing Site appearance after closure;
 - (b) description of the proposed end use for the Site;

- (c) descriptions of the procedures for closure of the Site, including but not be limited to, the following:
 - (i) advance notification of the public of the Site closure;
 - (ii) posting a sign at the Site entrance indicating the landfill is closed and identifying any alternative waste disposal arrangements;
 - (iii) completion, inspection and maintenance of the final cover and landscaping;
 - (iv) Site security after landfill closure;
 - (v) removal of unnecessary landfill-related structures, buildings and facilities; and
 - (vi) final construction of any necessary control, treatment, disposal and monitoring facilities for ground and surface water and for landfill gas.
- (d) description of the procedures for post-closure care of the Site, including:
 - (i) operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas, if applicable;
 - (ii) record keeping and reporting; and
 - (iii) complaint contact and response procedures.
- (e) an assessment of the adequacy of and need to implement the contingency plans; and
- (f) an estimate of the contaminating life span of the Site, based on the results of the monitoring programs to-date.

WHITE GOODS HANDLING

57. With respect to accepting white goods containing refrigerants, the Owner shall ensure that:
- (a) all white goods which contain refrigerants which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, are stored in a separate area in an upright position; and
 - (b) white goods which contain refrigerants received on-site shall be shipped off-site in order to have the refrigerants removed by a licensed technician in accordance with Ontario Regulation 189; or
 - (c) the refrigerant is removed on-site from white goods by a licensed technician, in accordance with Ontario Regulation 189, prior to shipping white goods off-site; and
 - (d) records of white goods handling shall be created in accordance with Condition 51.

SCHEDULE "A"

1. Application for a Certificate of Approval for a Waste Disposal Site, signed by Paula A. Formanek, Trow Associates Inc., and dated February 19, 2004, and the supporting documentation prepared by Trow Associates Inc. consisting of the following documents:
 - (a) Report entitled "Ward 3 (Escott) Waste Disposal Site A441073 Proposed Expansion", dated February 18, 2004, prepared by Trow Associates Inc., excluding Section 5.16, entitled "Triggering Mechanisms and Contingency Measures - Leachate Migration" and excluding Section 5.6, entitled "Final Grading, Cover Systems and Source of Materials"
 - (b) Drawing No. SP-1, entitled "Site Plan" dated December 16, 2003
 - (c) Drawing No. EC-1, entitled "Existing Conditions" dated December 16, 2003
 - (d) Drawing No. OP-1, entitled "Operations/Development Plan" dated December 16, 2003
 - (e) Drawing No. PFC-1, entitled "Proposed Pre-Aerial Fill Contours" dated June 21, 2004
 - (f) Drawing No. SECT-1, entitled "Cross Sections" dated December 16, 2003

2. Letter dated January 29, 2004 from John Trudgen, Clerk-Administrator, The Township of Leeds and the Thousand Islands, to Director, Environmental Assessment and Approvals Branch, Ministry of Environment, providing the authorization for Trow Associates Inc. to act as the Township's agent.

3. Letter dated June 22, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - permeability of the daily and interim cover
 - permeability of the final cover over the existing trenches
 - frequency of the daily cover application
 - description of the alternative daily/interim cover
 - specifications relating to burning of clean wood waste
 - clarification of the existing capacity of the waste landfilled to-date
 - details of the public consultation

4. Letter dated July 14, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - timing of the final cover application
 - procedures for compaction of waste and placement of daily cover
 - days and hours of operation of the waste disposal site
 - agreement to 300 mm interim cover thickness
 - frequency of daily cover application during winter months

- proposal for ensuring hydraulic conductivity continuity between the existing and the new waste
- minimum slope for top of the waste mound
- further clarification related to the existing capacity of the waste landfilled to-date

5. Letter dated September 28, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:

- confirmation of the daily cover application frequency
- confirmation of the site area

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

1. Conditions 1, 3-7, inclusive and 10 are included to clarify the legal rights and responsibilities of the Owner.
2. Condition 2 is included 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.
3. Conditions 8 and 9 are included to ensure that the appropriate Ministry staff have ready access to information and the operations of the Site, which are approved under this Certificate. Condition 8 is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA , the Ontario Water Resources Act , and the Pesticides Act , as amended.
4. Conditions 11 and 12 are included, pursuant to subsection 197(1) of the EPA , to ensure 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.
5. Conditions 13 and 14 are included to specify the approved areas from which waste may be accepted at the Site and the types of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.
6. Conditions 15, 16, 17 and 18 are included to specify restrictions on the extent of landfilling at this Site based on the Owner's application and supporting documentation. These limits define the approved volumetric capacity of the Site. Condition 16 is also included to specify restrictions on the extent of landfilling within the fill area to maintain a vertical separation between the groundwater table and the waste.
7. Condition 19 is included to specify the requirement of daily or interim cover applications to control potential nuisance effects, to facilitate vehicle access on the Site and to ensure an acceptable Site appearance.

8. Condition 20 is included to specify the hours of operation for the landfill Site and a mechanism for amendment of the hours of operation.
9. Condition 21 is included to require inspections that would ensure that only approved waste types are accepted at the Site and that the Ministry is notified of any attempts to dispose off unacceptable wastes.
10. Condition 22 is included to require waste compaction to maximize the capacity of the Site and to provide environmental benefits associated with greater compaction of waste.
11. Condition 23(a) is included to prohibit burning of waste at the Site because of concerns with air emissions, smoke and other nuisance effects and the potential fire hazard. Condition 23(b) is included to control burning of wood products at the Site, to minimize potential environmental adverse effects.
12. Condition 24 is included to ensure protection of public health and safety, and minimization of potential damage to environmental controls, monitoring and other works at the Site due to uncontrolled removal of materials from waste at the Site.
13. Condition 25 is included to ensure that all buildings and structures at the Site are free of any landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the Site.
14. Condition 26 is included to require reasonable maintenance of the on-site roads to ensure safe delivery of waste to the working face or to and from the other waste types storage areas.
15. Conditions 27 and 28 are included to ensure that the users of the Site are fully aware of important information and restrictions related to the Site operations as specified by this Certificate.
16. Conditions 29, 30 and 31 are included to ensure that the Site access and integrity are controlled by preventing unauthorized access when the Site is closed and no Site attendant is on duty.
17. Condition 32 is included to ensure that drainage onto or leaving the Site does not adversely affect Site operations or create a nuisance or a hazard to the health and safety of the environment.
18. Conditions 33 - 40, inclusive, and 57 are included to ensure that the Site is designed and operated in a way that does not result in a hazard or nuisance to the natural environment or any persons.
19. Condition 41 is included to provide information that demonstrates that the Site is performing as designed and the impacts on the natural environment are within the Ministry's limits. Condition 41(b) is also included to require the Owner to install additional bedrock wells to delineate the leachate impacts in the bedrock unit.

20. Conditions 42, 43 and 44 are included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved and the natural environment is protected.
21. Condition 45 is included to ensure that regular inspections are conducted at the Site, to verify that the Site is operated in accordance to this Certificate and in a manner that would not result in a hazard or nuisance to the natural environment or any persons.
22. Condition 46 is included to ensure that the Site is operated and supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any persons.
23. Conditions 47 - 53, inclusive, are included to ensure that information pertaining to Site development, operations and monitoring data is documented and any possible improvements to Site design, operations or monitoring programs are identified. Condition 48 is also included to ensure that any complaints related to Site operations are addressed in a timely manner and actions are taken to prevent similar complaints from occurring again. Condition 52 is also included to provide the Ministry with a concise and organized tool to review the Site activities and the effectiveness of the design and to verify compliance with the conditions of this Certificate and other relevant Ministry's requirements.
24. Condition 54 is included to ensure that incidents of spills are reported to the Ministry to ensure public health and safety and environmental protection.
25. Condition 55 is included to ensure that the Owner is prepared to handle emergency situations that may arise at the Site and that staff and equipment are available to handle such situations.
26. Condition 56 is included to ensure that final closure of the Site is completed in an aesthetically pleasing manner and to ensure long-term protection of the natural environment.

This Provisional Certificate of Approval revokes and replaces Certificate(s) of Approval No. A441703 issued on May 11, 1982

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 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 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
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 39, *Environmental Protection Act*
Ministry of Environment and Energy
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**

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

DATED AT TORONTO this 4th day of October, 2004



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

MW/

c: District Manager, MOE Kingston - District
Paula Formanek, Trow Associates Inc.

Appendix D
Borehole Logs

Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-1

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Flush Mount Well Box
1		Cover Material			
2		Clay			
3		Tan color			Clay Seal (Bentonite HolePlug)
4		Very Dry	1.52		
5			-1.52		
6		Landfill			
7		Household refuse			
8		Black color			
9		Partly saturated			
10					
11					
12					
13					00 Silica Sand
14					
15					
16			4.88		
17			-4.88		
18		Clay			
19		Massive structure			
20		Light brown color			
21		Saturated	6.25		
22			-6.25		
23		Bedrock Refusal			
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 9 May 2001
 Drill Method: Solid Stem Auger
 Hole Size: 125 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqi Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 51 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

Well ID: OW-2

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Flush Mount Well Box
1		Soil Cover Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4					
5					
6					
7					
8			2.44		
8		Landfill Household refuse Black color Partly saturated	-2.44		00 Silica Sand
9					
10					
11					
12					
13					
14			6.1		
14		Native Clay Massive structure Light brown color Saturated	-6.1		
15					
16					
17			7.62		
18		Bedrock Refusal	-7.62		
19					
20					
21					

Drilled By: G.E.T. Drilling Drill Date: 9 May 2001 Drill Method: Solid Stem Auger Hole Size: 125 mm	TROW-OMM Consulting Engineers #210 - 4 Cataraqui Street Kingston, Ontario, K7K 1Z7 T (613)542-1253 F (613)547-3767	Well Diameter: 51 mm Well Material: S40 PVC Screen: #10
--	---	---

Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-3

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4				1.37	
5		Clay Massive structure Brown color Saturated	-1.37		00 Silica Sand
6					
7					
8					
9					
10				3.4	
11		Bedrock Refusal	-3.4		
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 9 May 2001
 Drill Method: Solid Stem Auger
 Hole Size: 125 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 51 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

Well ID: OW-4

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4				1.37	
5		Clay Massive structure Brown color Saturated			00 Silica Sand
6					
7					
8				-1.37	
9		Bedrock Refusal			
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
			2.74		
			-2.74		

Drilled By: G.E.T. Drilling Drill Date: 9 May 2001 Drill Method: Solid Stem Auger Hole Size: 125 mm	TROW-OMM Consulting Engineers #210 - 4 Cataraqui Street Kingston, Ontario, K7K 1Z7 T (613)542-1253 F (613)547-3767	Well Diameter: 51 mm Well Material: S40 PVC Screen: #10
--	---	---

Project: MK 14517 A
 Ward 3 Waste Disposal Site

Well ID: OW-5

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry	1.52		Clay Seal (Bentonite HolePlug)
2					
3					
4					
5		Clay Massive structure Brown color Saturated	-1.52		00 Silica Sand
6					
7					
8					
9					
10					
11					
12					
13					
14					
15		Bedrock Refusal	4.72		
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 9 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

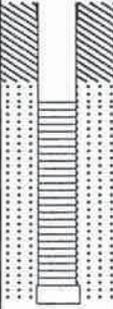
Well ID: OW-6

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS		
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks	
0		Ground Surface	0			
0			0		Piezometer Stick-Up Clay Seal (Bentonite HolePlug)	
1		Native Material Clay Tan color Very Dry				
2						
3						
4					1.37	
5		Silty Clay Massive structure Brown color Saturated Sand lenses 1.8-2.3m			00 Silica Sand	
6						
7						-1.37
8						2.29
8		Bedrock Refusal				
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

Drilled By: G.E.T. Drilling

Drill Date: 10 May 2001

Drill Method: Hollow Stem Hammer

Hole Size: 51 mm

TROW-OMM Consulting Engineers

#210 - 4 Cataraqui Street

Kingston, Ontario, K7K 1Z7

T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm

Well Material: S40 PVC

Screen: #10

Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-7

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up Clay Seal (Bentonite HolePlug)
1		Native Material Clay Tan color Very Dry	1.45		00 Silica Sand
2					
3		Silty Clay Massive structure Brown color Saturated	-1.45		
4					
5					
6					
7		Bedrock Refusal	-3.05		
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A
 Ward 3 Waste Disposal Site

Well ID: OW-8

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4					
5					
6			1.83		00 Silica Sand
7		Silty Clay Massive structure Brown color Saturated	-1.83		
8					
9					
10			3.05		
11		Bedrock Refusal	-3.05		
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A
 Ward 3 Waste Disposal Site

Well ID: OW-9

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material			
2		Clay			Clay Seal (Bentonite HolePlug)
3		Tan color			
3		Very Dry	1.22		
4			-1.22		
5		Silty Clay			
6		Massive structure			00 Silica Sand
7		Brown color			
8		Saturated	2.74		
9			-2.74		
10		Bedrock Refusal			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

Well ID: OW-10

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4					
5			1.52		
6		Silty Clay Massive structure Brown color Saturated	-1.52		00 Silica Sand
7					
8					
9					
10		Bedrock Refusal	2.82		
10			-2.82		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: OW-11

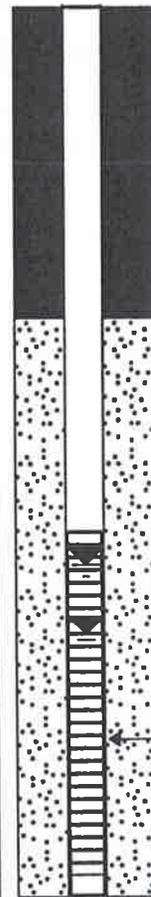
Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown, ONT

Logged by: L. Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
0		Ground Surface					
0		CLAYEY SILT Dark brown with rootlets	0.25	D	70%		Piezometer
1		SILTY CLAY Fine, dark brown	0.61	D	100%		1.37 m Benseal
2		SILTY CLAY Mottled dark brown and grey					
3							
4				D	100%		
5							
6							
7			2.26				
8		SILTY CLAY Mottled medium brown to grey					
9							
10				W	100%		Water level Between 2.44 & 2.74 m
11			3.48				Slot Size 10 Screen
12		CLAYEY SILT Fine-mottled medium brown to grey					
13				W	100%		Refusal @ 3.89 m
14			4.22				
15		SILTY CLAY Mottled medium brown and grey	4.45	W	100%		Possible cave in at bottom of hole
16		End of Borehole					



Drilled By: G.E.T. Drilling

Drill Method: Jack Hammer

Drill Date: July 29, 2003

Hole Size: 50 mm

Datum: 89.462

Sheet: 1 of 1



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqi Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: OW-12

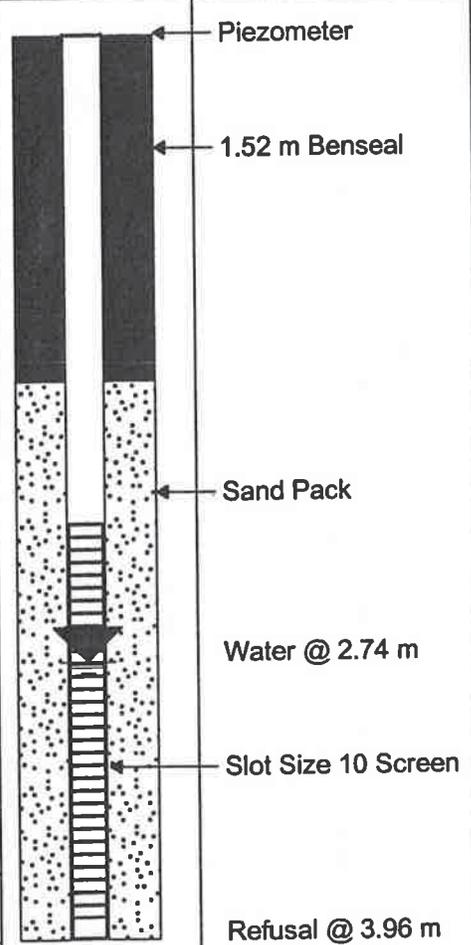
Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown. ONT

Logged by: L. Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
0		Ground Surface					
0		Clayey Silt Traces of sand. Dark brown	0.41	D	60 %		Piezometer
1		Silty Clay Mottled medium brown to grey					1.52 m Benseal
2							
3							
4							
5							
6				D			
7							
8							
9							
10			3.10				Sand Pack
11		Clayey Silt Medium brown to mottled grey	3.38	M			Water @ 2.74 m
12		Silty Clay Mottled medium brown and grey	3.66	M			Slot Size 10 Screen
13		Silty Clay Grey	3.96	M			Refusal @ 3.96 m
14		End of Borehole					
15							
16							



Drilled By: G.E.T. Drilling

Hole Size: 50 mm

Drill Method: Jack Hammer

Datum: 88.912

Drill Date: July 29, 2003

Sheet: 1 of 1



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: OW-13

Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown, ONT

Logged by: L. Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
0		Ground Surface	0.00				Piezometer 1.1 m Benseal Gravel/Sand Pack Slot Size 10 Screen Water @ 3.35 m Sand Pack Refusal @ 4.27 m Possible cave in at bottom of hole
0		Topsoil Black decomposed material	0.20	D	100 %		
1		Silty Clay Black	0.71	D	100 %		
2		Silty Clay Mottled grey to dark brown					
3		Silty Clay Mottled medium brown and grey	2.29	D	100 %		
4							
5							
6							
7		Silty Clay- Trace Silt Mottled medium brown to grey	4.57	M	100 %		
8							
9							
10							
11			End of Borehole				
12							
13							
14							
15							
16							

Drilled By: G.E.T Drilling

Hole Size: 50 mm

Drill Method: Jack Hammer

Datum: 90.557

Drill Date: July 29, 2003

Sheet: 1 of 1



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: BW-1

Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown, ONT

Logged by: L.Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
-3		Ground Surface	0.00			<p>Piezometer stick-up 1.07 m Steel Casing Bentonite Gravel and Bentonite Mix Bentonite Sand Pack Water @ 19.81 m Slot Size 10 Screen Bottom of hole @ 21.95 m</p>	
2	[Symbol]	Silty Clay Brown.	2.13				
7	[Symbol]	Sandstone Brown.	2.74				
12	[Symbol]	Sandstone Red.	3.66				
17	[Symbol]	Sandstone Grey/Red	4.57				
22	[Symbol]	Granite Red.					
27	[Symbol]						
32	[Symbol]						
37	[Symbol]						
42	[Symbol]						
47	[Symbol]						
52	[Symbol]		16.76				
57	[Symbol]	Granite Gray.	18.59				
62	[Symbol]	Granite Red.					
67	[Symbol]						
72	[Symbol]		21.95				
77		End of Borehole					

Drilled By: Knox Well Drilling

Hole Size: 50 mm

Drill Method: Rotary Percussion

Datum: 90.87 m

Drill Date: Aug. 29, 2003

Sheet: 1 of 1



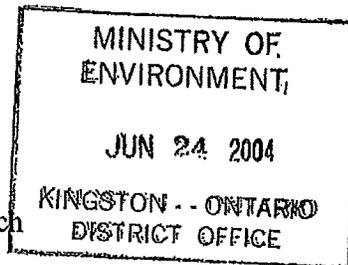
Trow Associates Inc.

315 The Woolen Mill, 4 Cataraqui Street
Kingston, Ontario K7K 1Z7
kingston@trow.com / www.trow.com

Telephone: (613) 542-1253 / Facsimile: (613) 547-3767

Reference: 14517-X

Ms. Margaret Wojcik, P. Eng.
Ministry of the Environment
Environmental Assessment and Approvals Branch
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5



June 22, 2004

Via Facsimile
416-314-8452
& Regular Mail

**Application for Approval of Waste Disposal Site
Amendment for Changes in Operations, and Expansion of Site
Ward 3 (Escott) Waste Disposal Site A441073
Leeds and the Thousand Island Township
United Counties of Leeds and Grenville
MOE Reference Number: 9969-5WVJDB**

Dear Ms. Wojcik:

Thank you for your correspondence dated May 4, 2004 concerning the above noted application. The purpose of this letter is to provide the additional information requested. The information is provided in the same order as requested in your May 4 correspondence.

1. We agree with your comment; interim cover should be comprised of permeable material. The plans in the report will be revised to specify this (see note No. 4 on Dwg. OP-1).
2. We agree with your comment. As much of the existing impermeable cover as possible will be removed and will be stockpiled. The stockpile area(s) have been identified on Dwg. OP-1.
3. We collected four (4) samples of the existing cover across the site to verify the permeability. A grain size analysis identified three (3) of the four (4) samples as a silty clay with some or a trace of sand, and gravel or trace of gravel. The fourth sample was found to be a gravelly sand with some silt and trace of clay. Therefore, this material is a till and is not suitable to be used as an interim cover. Accordingly, the existing cover will be removed, stockpiled and used as final cover (see # 2 above).
4. Specifications for stripping and stockpiling the existing cover and post-stripping contours are as follows:

Brampton (Greater Toronto-Head Office)+Barrie+Cambridge+Cornwall+Dorval (Greater Montreal)
+Hamilton+Iqaluit+Kamloops+London+Markham+North Bay+Orillia+Ottawa+Simcoe+
Sudbury+Tallahassee+Thunder Bay+Vancouver+Welland+Windsor



- a) Strip the existing cover as aerial filling progresses. For example, strip the existing cover at south limit and utilize to create perimeter berms. Perimeter berms will eventually cover and encapsulate the sides of the above-grade landfill.
- b) Continue as the existing landfill is exposed.
- c) Cover any exposed waste with a 150 mm minimum or more of permeable material to establish a working surface.

The final contours as shown in our report are based on minimum 4:1 slopes; they will not change. However, the volume estimates will change due to the final cover being removed from the calculation (see # 12 below).

5. A track front-end loader will be used for waste compaction.
6. During the months of May through to the end of September, waste will be covered with an interim cover material weekly, on Tuesdays, as a minimum, with additional applications as required. Furthermore, stockpiled interim cover material will be applied at any time that site conditions warrant. (Please note: the landfill is open only on Tuesdays and Saturdays.)
7. We agree with your comment. Interim cover needs to be applied in landfilled areas not in use for more than six (6) months. 150 mm of material will be put in place. This will be noted on the site plan.
8. Yes, we would like to have the option to use shredded glass mixed with soil as an interim cover.
9. The municipality would like to continue to burn brush and wood on-site. The brush and wood burning area is shown on the site plan. The following are proposed specifications relating to the burning of brush and clean wood:
 - The piles of clean wood and brush to be burned will be no larger than 4.0 metres by 3.0 metres in area, and 2.0 metres high;
 - The burning will be initiated with paper;
 - The burning location is shown on Dwg. OP-1;
 - Areas designated for burning shall be cleared of vegetation;
 - Burning shall be permitted in small piles only subject to weather conditions;
 - All fires will be completely extinguished before the end of the work day;
 - Fires will not be started using flammable liquids such as petroleum products and/or rubber;
 - After each burning event the fire pit shall be cleaned out and ashes properly disposed;
 - All necessary fire fighting equipment shall be placed within or in the close vicinity of the burning area including a soil stockpile for emergency extinguishing of the fire; and,
 - Each burning event shall be supervised and immediately extinguished if supervision is no longer available.

10. Settling ponds (i.e., siltation control traps) are proposed to settle out sediments by capturing surface run-off and temporarily detaining it. Surface run-off will be contaminated by sediment not leachate. Perimeter lift initiating berms will contain any precipitation falling on the refuse. The remaining potential avenue for the contamination of surface runoff is via seepage which is expected to occur at most small landfills where leachate is controlled by natural attenuation.
11. We believe that it is actually Section 53 of the OWRA. An application will be made when the works are needed.
12. a) We included final cover material in all calculations previously submitted.
 - b) The volume of in-place waste is 3.0 metres deep and includes final cover material, which ranges from 0.6 to 2.1 metres in thickness. If 0.6 metres are subtracted, this leaves 2.4 metres of waste. Accordingly, the statement that "overflowing has occurred" should be retracted.
 - c) The volume of material that can be added by aerial filling is limited by the following criteria:
 - i) 4:1 side slopes and footprint area/configuration (long and narrow); and
 - ii) the amount of cover material that can be salvaged and re-used.

Assuming there is 2.4 metres of landfill over 0.7 hectares, including in-situ native soils between trenches, then there is approximately 16,800 m³ of material in place. This leaves a maximum 23,200 m³ space available (40,000 m³ - 16,800 m³) for additional landfill including daily and interim cover. Some of this available space is already consumed by existing final cover material, and some is lost to accommodate 750 mm of final cover over the aerial fill within the final contours.

In effect, there is only 12,500 m³ of space available above existing grade, excluding final cover.

This space can be increased by the amount of existing cover material salvaged. (It is not possible to fit 40,000 m³ of waste, plus 750 mm final cover, within the existing footprint due to its elongated configuration and existing ground elevations. To accommodate 40,000 m³, the footprint area must increase or the amount of existing cover material salvaged must be increased.)

It is impractical to recover all of the final cover material that has been placed. For volume calculations, we previously assumed 50 percent could be salvaged (5,000 m³). This would produce an available volume of 17,500 m³ for waste and interim cover.

The final volume encapsulated within the landfill footprint at 4:1 final slopes will consist of 16,800 m³ of waste (including in-situ soils) placed by burial, plus approximately 5,000 m³ of unsalvageable final cover material, plus 5,000 m³ of waste and interim cover space made available by removing 5,000 m³ of existing final cover, plus 12,500 m³ of space obtained for

waste and interim cover by filling aerially, plus 7,500 m³ of final cover material to cap the landfill. The total amount of material encapsulated, including final cover and in-situ soil wedges, will be approximately 46,800 m³. There will be a net of 39,300 m³ of waste, interim cover and unsalvageable burial method cover, plus 7,500 m³ is final cover beneath the contours shown on Dwg OP-1. The final volume will reflect the amount of existing cover that can be salvaged up to a total volume of 40,000 m³ excluding final capping material.

If the 2.4 metres depth of approved landfill, or 7,200 m³ volume, within the un-excavated footprint area of 0.3 ha is considered, then the expansion would be equal to the above 12,500 m³ plus salvaged cover ($\pm 5,000$ m³) or 17,500 m³ minus 7,200 m³, or approximately 10,300 m³.

13. As per your recommendation, we contacted Mr. Peter Taylor, Senior Environmental Officer, Ministry of Environment in Kingston regarding details on a suitable public consultation program for this proposal. It was agreed that an Open House be held to communicate the proposal to the public. The Open House was scheduled for June 3, 2004 at 3:00 p.m. with a second session at 6:30 p.m. However, the notice was only partially printed by the newspaper. Nevertheless, the Open House was held anyway because a large sign with the notice was also posted at the landfill, informing the public of the proposal with an invitation to the Open House. Two (2) people attended the Open House on June 3, 2004. A second Open House was held on June 11, 2004 at 3:00 p.m. with an evening session at 7:00 p.m. This notice was successfully advertised in the Gananoque Reporter on June 9, 2004 (proof of notice attached). A large sign was again posted at the landfill to advise the public on the proposal with an invitation to the Open House. There were no public attendees at the June 11, 2004 Open House.

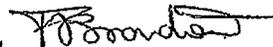
Trusting that the above is satisfactory. However, please do not hesitate to contact the undersigned if you have any questions.

Yours truly,

Trow Associates Inc.



Paula A. Formanek, M. Sc. (Eng.), P. Geo. Sr. Hydrogeologist
Branch Manager



Jamieson S. Gourley, P.Eng.
Senior Engineer

Attachments:

cc: Peter Taylor, Senior Environmental Officer, Ministry of the Environment, Kingston, Ontario

E:\Projects\14000\14500\14517 Escott Landfill\14517X - Extra Work (C of A)\Correspondence\040616-letter-Margaret Wojcik-CofA application.doc



Trow Associates Inc.
 315 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517

Monitoring Well: BW-3

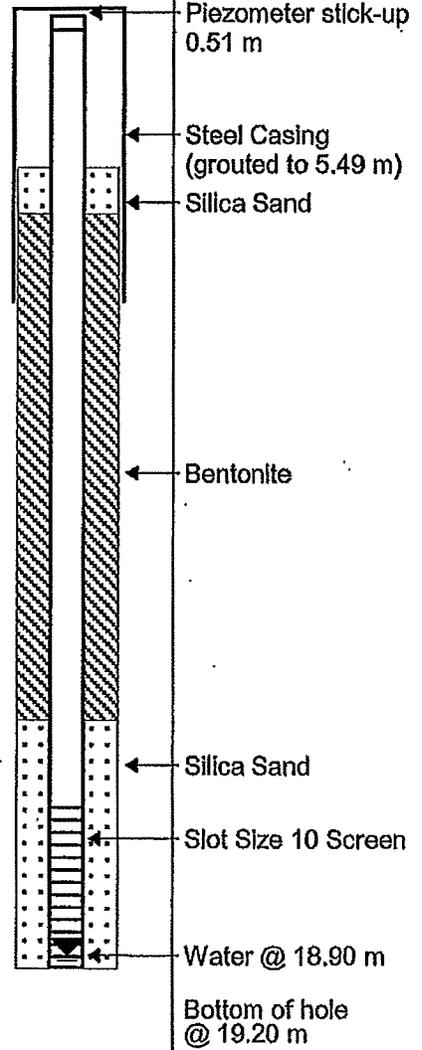
Project: Escott Waste Disposal Site

Client: Township of Leeds and the Thousand Islands

Location: 227 Escott-Rockport Road, Rockport, Ontario

Logged by: T. Virtue

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
-3		Ground Surface	0.00				
2		<i>Clay</i> Brown					
7							
12		<i>Sandstone</i> Grey	5.18				
17				6.40			
22		<i>Sandstone</i> Greyish Red					
27							
32							
37		<i>Granite</i> Red	12.80				
42				13.41			
47		<i>Granite</i> Reddish Grey					
52				15.55			
57		<i>Granite</i> Red					
62				18.90			
67		<i>Granite</i> Reddish Grey	18.90				
72				19.20			
		End of Borehole					



Drilled By: Knox Well Drilling

Hole Size: 50 mm

Drill Method: Rotary Percussion

Datum:

Drill Date: October 4, 2005

Sheet: 1 of 1

Project No.: MK14517

Monitoring Well: BW-2

Project: Escott Waste Disposal Site

Client: Township of Leeds and the Thousand Islands

Location: 227 Escott-Rockport Road, Rockport, Ontario

Logged by: T. Virtue

Trow Associates Inc.
 315 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
ft m -3 -1		Ground Surface	0.00				Piezometer stick-up 0.91 m Steel casing grouted to 3.05 m Bentonite Water level 2.42 m at time of drilling Silica Sand Slot Size 10 Screen Bottom of hole at 7.92 m
		Clay Brown. Dry.	0.46				
2		Granite Red/White					
7							
12			3.66				
17			4.88				
22			7.92				
27		End of Borehole					

Drilled By: Jack Knox Well Drilling

Hole Size: 50 mm

Drill Method: Air Percussion

Datum:

Drill Date: August 28, 2006

Sheet: 1 of 1



308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8
Canada
613-548-3446
www.malroz.com

PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH101

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Split Spoon**

WELL ID: **MW101**
WELL TAG#: **A259032**
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **424927**
NORTHING: **4917786**

LOGGED BY: **RF** INPUT BY: **RF** FIELD INSTRUMENT(S): **RKI Eagle II** DATE DRILLED: **February 18, 2020** VALIDATED BY: **MW** CHECK: **AP**

Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/6" (RQD)	CGI (% LEL)			PID (ppm)						
										0	50	100	0	25	50	75	100		
	0			Clayey Silt trace sand, trace rootlets, dark brown, soft becoming stiff	Wet	Damp	SS1	75	4	●				▲					
	1		1.2	becoming light brown			SS2	75	15	●				▲					
								SS3	71	13	●				▲				
	2		2.4	becoming dark brown/grey			SS4	100	12	●				▲					
			2.5				Silt trace sand, dark brown/grey, stiff, moist	SS5	100	12	●				▲				
	3							SS6	75	9	●				▲				
								SS7	100	13	●				▲				
	4		3.8	Silty Clay trace sand, brown/grey, soft			SS8	100	5	●				▲					
			4.6				Sandy Silt trace clay, brown/grey, hard	SS9	100	R	●				▲				
5	4.7		Possible Weathered Rock																
	4.9		End of borehole in inferred bedrock (4.9 m).																
	6																		
	7																		

Notes: Well Construction Details
aboveground casing
50 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT



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Kingston, ON K7K 7A8
Canada
613-548-3446
www.malroz.com

PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH102

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Split Spoon**

WELL ID: **MW102**
WELL TAG#: **A259032**
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **425018**
NORTHING: **4917823**

LOGGED BY: RF	INPUT BY: RF	FIELD INSTRUMENT(S): RKI Eagle II	DATE DRILLED: February 18, 2020	VALIDATED BY: MW	CHECK: AP
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Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/6" (RQD)	CGI (% LEL)			PID (ppm)					
										0	50	100	0	25	50	75	100	
	0		0.8	Clayey Silt trace sand, trace rootlets, light brown, soft	Moist	Dry-Damp	SS1	88	4	●				▲				
	1			Silt trace clay, light brown, firm			SS2	100	21	●				▲				
	2						SS3	100	19	●				▲				
	3						SS4	58	21	●				▲				
	3.5			becoming dark brown/grey			SS5	100	24	●				▲				
	3.7			Silty Clay trace sand, brown/grey, soft			SS6	100	14	●				▲				
	4						SS7 SS8	100	4	●				▲				
	4.4						SS9	100	R	●				▲				
	5																	
6																		
7																		
				End of borehole on inferred bedrock (4.4 m).														

Notes: Well Construction Details
aboveground casing
50 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

Well is nested with MW103

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT



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PROJECT: 1038 - Escott WDS		CLIENT: The Township of Leeds and the Thousand Islands		BOREHOLE LOG: BH103	
DRILLING CONTRACTOR: Canadian Environmental Drilling			WELL ID: MW103		
DRILLING EQUIPMENT: CME 55 Track Mount			WELL TAG#: A259032		
DRILLING METHOD: 4" Solid Stem Auger			GROUND SURFACE ELEV.: - TOP ELEVATION: -		
SAMPLING METHOD: Core			DATUM: 18T NAD83		
			EASTING: 425017		
			NORTHING: 4917821		

LOGGED BY: RF	INPUT BY: RF	FIELD INSTRUMENT(S): RKI Eagle II	DATE DRILLED: February 19, 2020	VALIDATED BY: MW	CHECK: AP
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Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/6" (RQD)	CGI (% LEL)			PID (ppm)						
										0	50	100	0	25	50	75	100		
	0			See BH102 for lithology															
	1																		
	2																		
	3																		
	3.6				Bedrock granite, medium-grained, felsic, fracture at 3.84 m														
	4			3.6															
	4.1			4.1	fractures at 4.14 m and 4.19 m														
	4.7			4.7	fractures at 4.65 m, 4.69 m, and 4.75 m														
	5			5.1	vertical fracture 4.87 m to 5.05 m														
	5.1			5.1	fractures at 5.05 m and 5.11 m														
5.4			5.4	fractures at 5.43 and 5.45 m															
5.6			5.6	fracture at 5.64 m															
6			6.0	fracture at 5.97 m															
6.1			6.1	fracture at 6.12 m															
6.6			6.6	fracture at 6.55 m															
6.7			6.7	fracture at 6.73 m															
7			7.5																
8				End of borehole at target depth (7.5 m).															

Notes: Well Construction Details
aboveground casing
38 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

Well is nested with MW102

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT



308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8
Canada
613-548-3446
www.malroz.com

PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH104

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Split Spoon**

WELL ID: **MW104**
WELL TAG#: **A259032**
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **425123**
NORTHING: **4917883**

LOGGED BY: RF	INPUT BY: RF	FIELD INSTRUMENT(S): RKI Eagle II	DATE DRILLED: February 19, 2020	VALIDATED BY: MW	CHECK: AP
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Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/6" (RQD)	CGI (% LEL)			PID (ppm)											
										0	50	100	0	25	50	75	100							
	0	Clayey Silt	0.6	some sand, trace rootlets, brown/grey, soft	Damp		SS1	75	4	●														
	1			trace rounded cobbles, becoming firm			SS2																	
								SS3	100	19	●													
	2			1.8			becoming stiff	SS4	75	24	●													
											SS5	100	11	●										
	3			3.3			Silty Clay	trace sand, grey, stiff	SS6	100	13	●												
										SS7	100	14	●											
	4	4.4	Silt	trace clay, trace sand, grey, stiff			SS8	100	8	●														
										SS9	100	17	●											
	5						SS10	100	4	●														
										SS11	100	10	●											
	6						SS12	100																
																							SS13	12
7			6.7	End of borehole at target depth (6.7 m).																				

Notes: Well Construction Details
aboveground casing
50 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT

Appendix E
MECP Correspondence

**Ministry of the
Environment,
Conservation and Parks**
Eastern Region
1259 Gardiners Road, Unit 3
Kingston ON K7P 3J6
Phone: 613.549.4000
or 1.800.267.0974

**Ministère de l'Environnement,
de la Protection de la nature
et des Parcs**
Région de l'Est
1259, rue Gardiners, unité 3
Kingston (Ontario) K7P 3J6
Tél: 613 549-4000
ou 1 800 267-0974



MEMORANDUM

February 7, 2020

TO: Nathalie Matthews
Senior Environmental Officer
Kingston District Office
Eastern Region

FROM: Sarah Baxter
Surface Water Specialist
Technical Support Section
Eastern Region

RE: Escott Waste Disposal Site
2018 Annual Monitoring Report
Township of Leeds and the Thousand Islands; United Counties of Leeds &
Grenville
Environmental Compliance Approval #A441703
IDS #5445-BATJUG

I have reviewed the “*Escott Waste Disposal Site 2018 Annual Monitoring, Development and Operations Report*” dated March 2019 and prepared by Malroz Engineering Inc. The following comments, relative to surface water impact concerns, are provided for your consideration.

Background

The Escott Waste Disposal Site (WDS) is a natural attenuation landfill that is owned and operated by the Township of Leeds and the Thousand Islands. The site has been operating since at least 1982 when Environmental Compliance Approval (ECA) #A411703 was first issued. The approved fill area is 1.0 hectares within a 15.1 hectare property.

The site is approved to receive solid non-hazardous waste. The site also collects recyclables, white goods, and scrap metal for transfer offsite. The ECA was most recently amended and updated in 2004.

According to a December 2018 topographical survey, the WDS has approximately 2.6 years of site life remaining. The annual report indicates that a closure plan is forthcoming and that full sections of the mound have already been sloped, contoured, and capped.

Site Description

The Escott WDS is located on Lots 8, 9, 10, Concession Broken Front, Geographic Township of Escott, in the Township of Leeds and the Thousand Islands. The site is approximately 0.5 kilometers north of Highway 401 and 2.3 kilometers northwest of the St. Lawrence River. The landfill is accessed via the east side of Escott/Rockport Road.

The landfill is situated in an agricultural portion of the Upper St. Lawrence-1000 Islands tertiary watershed. The site is bound by Escott/Rockport Road to the east, agricultural fields to the north and west, and forest and wetland to the south.

An agricultural drain (i.e. North Stream) is located on the north side of the site, while an unnamed tributary (i.e. South Stream) and the Larue Mills Creek Provincially Significant Wetland (PSW) Complex are situated on the south side of the site. The Hickenbottom Drain originates in a drainage ditch just east of the mound and collects runoff from the WDS and tile drainage from the neighbouring fields. All three water features flow northeastward, eventually reaching La Rue Mills Creek.

According to Malroz, the overburden is brown silty clay 0.46 to 7.62 meters deep. The bedrock is mostly sandstone overlying Precambrian red granite. Bedrock outcropping is common south of the site. Interpreted groundwater flow is to the northeast, towards the Hickenbottom Drain.

The annual report characterizes the landfill leachate as having elevated alkalinity, aluminum, ammonia, biochemical oxygen demand (BOD), chloride, conductivity, dissolved organic carbon (DOC), hardness, iron, manganese, pH, sodium, total dissolved solids (TDS), and total Kjeldahl nitrogen (TKN). As inferred from overburden groundwater monitoring wells OW8R1 (background) and OW14 (leachate), the leachate may also be characterized as having elevated barium, boron, calcium, chemical oxygen demand (COD), magnesium, phenols, phosphorus, potassium, and sulphate.

Surface Water Monitoring Program

Seven surface water monitoring stations currently exist at the Escott WDS:

- SW3 – drainage ditch southeast of mound, draining to HBI (downgradient);
- SW4 – North Stream, at Escott/Rockport Road (background);
- SW5 – North Stream, northeast of landfill site (downgradient);
- SW7 – South Stream, at Escott/Rockport Road (background);
- SW8 – drainage ditch south of mound, draining to South Stream (downgradient);
- HBI – Hickenbottom Drain, inlet (background); and,
- HBO – Hickenbottom Drain, outlet (downgradient).

Surface water monitoring was conducted on May 30 and November 12, 2018. Samples were not collected from SW3 (spring, fall), SW8 (spring, fall), HBI (spring, fall), and HBO (spring) due to dry conditions. Field sheets outlining flow conditions and qualitative observations (i.e. sheen, odour, colour) were not provided.

Results

The Provincial Water Quality Objectives (PWQOs) for cobalt, phenols, total phosphorus, and zinc were exceeded at downstream surface water stations. These exceedances were mirrored at the background station(s), suggesting they are landfill related.

The PWQO for iron was also exceeded at all sampled stations. However, the concentration measured at downstream SW5 was significantly greater than background and greater than concentrations known to cause impairment to aquatic organisms. At SW5, manganese concentrations were also greater than those characteristic of natural surface waters. These metal elevations may be the result of sediment entrainment in the sample (i.e. total suspended solids (TSS) = 38 mg/L).

Overall, concentrations of most leachate related parameters are similar at the background and downstream stations in the North Stream and Hickenbottom Drain.

Revised Surface Water Monitoring Program

Malroz has provided a revised surface water monitoring program in Appendix I. Surface water will continue to be sampled in the spring and the fall at monitoring stations HBI, HBO, SW3, SW4, SW5, SW7, and SW8.

The parameter list includes alkalinity, ammonia, BOD, COD, DOC, conductivity, hardness, pH, phenols, total phosphorus (total and dissolved), TDS, total suspended solids (TSS), TKN, chloride, nitrate, nitrite, sulphate, mercury, aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, selenium, silicon, silver, sodium, strontium, thallium, tin, titanium, tungsten, uranium, vanadium, and zinc.

pH, temperature, dissolved oxygen, and conductivity are to be measured in the field. Unionized ammonia will be calculated using the field measurements. GPS coordinates and station photographs will also be taken in the field.

Conclusions and Recommendations

1. The Escott WDS is a natural attenuation landfill that is owned and operated by the Township of Leeds and the Thousand Islands. The site has been operating since at least 1982 and has approximately 2.6 years of site life remaining.
2. Available surface water results suggest the landfill is not adversely impacting the North Stream and Hickenbottom Drain at this time. Impact-related conclusions cannot be drawn for the South Stream as downstream SW8 was not sampled in the spring or fall of 2018.
3. Considering the intermittent nature of some surface water stations, best efforts should be made to collect surface water samples shortly after a rain event.
4. Malroz has revised the surface water monitoring program. I have no objections to the changes, except:
 - a. Trace metals such as antimony, beryllium, molybdenum, selenium, strontium, thallium, tin, titanium, tungsten, and vanadium can be removed from the parameter list; and,
 - b. Surface water flow measurements should also be collected in the field.

5. Malroz recommends that some site grading occur to eliminate surface water ponding near the recycle bins and along the access road. I agree.
6. Malroz recommends the surface water monitoring program continue at the site. I agree, except as noted above.

If you have any questions regarding the above comments, I would be pleased to discuss them with you.

A handwritten signature in black ink that reads "Sarah Baxter". The signature is written in a cursive, flowing style.

Sarah Baxter, B.Sc.H.

SB/dv

ec: Victor Castro
Shawn Trimper

c: File SW LG LT 03 06 (Escott WDS)

Appendix F
Malroz Site Inspections

**WARD 3 (ESCOTT) WASTE DISPOSAL SITE A441073
MONTHLY SITE INSPECTION REPORT**



Date of Inspection April 30, 2019 (d/m/y)

Please check "✓" the boxes and fill in the blanks. Use the "Notes" area for additional information or clarification.

1. Condition of the active disposal area, the recyclable bins, the tire bins, the white good bins, the scrap metal bins, and the brush and stump pile:

- a) In which area of the site is disposal taking place? south face of waste mound
- b) Did attendant routinely supervise waste disposal? Yes No
- c) Was any hazardous or liquid industrial waste disposed? Yes No
- d) Are recyclable materials and other goods being placed into correct bins? Yes No
- e) How full are the recycling bins? 1/4 - 1/2 full
- f) Are brush and stumps being segregated and stockpiled? Yes No
- g) Has there been any burning of brush and stumps this month? Yes No
- h) If yes, was the burning supervised? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

2. Condition of the surface water drainage works:

- a) Are all ditches, swales, sediment control ponds, and rock check dams in working order? Yes No
If no, please explain.
- b) Is there any ponded water at the site? Yes No
If yes, please explain.
Ponded water observed just west of brushpile (small amount), lots of water in north + south ditches
- c) Are any of the siltation control traps (ponds) full? Yes No NIA
If yes, please explain.
- d) Was any cleaning of sediment accumulated in the ponds conducted this month? Yes No NIA

Notes:

Overall Rating:

Satisfactory Unsatisfactory

3. Condition of the on-site roads:

- a) Is there any evidence of excessive erosion on the on-site road? Yes No
If yes, please explain.
- b) Is there excessive dust? Yes No (raining)
- c) Has dust suppressant been used this month? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

4. Presence of litter at the site's perimeter and litter fences:

- a) Is there any evidence of wind-blown litter or accidentally dropped litter from waste hauling vehicles? Yes No
- b) If yes, this litter needs to be picked up. Has this or will this be done in the near future? Yes No
- c) Has a litter fence been installed? Yes No

Notes: Lots of windblown litter, especially along western ditch. Staff picks up, but problem persists. Considered additional fencing along western edge of landfilling area. (see pictures)

Overall Rating:

Satisfactory Unsatisfactory

5. Condition of the intermediate cover and final cover:

- a) Is there evidence of any erosion in the existing landfill cover? some evidence of erosion around active area, but otherwise good. Yes No
- b) Are any repairs needed to the existing landfill cover? Yes No

Notes: Waste appears to have been pushed up, away from active area (onto waste mounds, towards litter fence). However, it has not been covered...

Overall Rating:

Satisfactory Unsatisfactory

6. Presence of birds, vector, vermin and animals:

Which of the following was observed on site: birds rats flies other animals cats

Notes:

Overall Rating:

Satisfactory Unsatisfactory

7. Condition of the on-site facilities, the fence, the gate and its lock and the signage:

- a) Is the attendants' shelter in good condition? (CGI = nr) Yes No
- b) Is the outhouse being cleaned and pumped out on a regular basis? Yes No
- c) Is the perimeter fence in good condition? Yes No
- d) Is the entry gate in good condition? Yes No
- e) Is the lock on the gate operational and in good condition? Yes No
- f) Is proper signage for the landfill posted? Yes No

Notes:

↳ Starting to peel

Overall Rating:

Satisfactory Unsatisfactory

Condition of the groundwater monitoring wells required for the groundwater monitoring program:

- a) Can all monitoring wells be located? Yes No If no, please specify.
- b) Do all wells have proper well caps? Yes No If no, please specify.
- c) Do any monitoring wells need repair? Yes No If yes, please specify.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Available amount of cover material to ensure sufficient daily cover activities at all times when the site is in operation:

- a) Is there a stockpile of daily cover material on site? Yes No
- If no, please explain where and how material is obtained.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Presence of leachate springs:

- a) Are leachate springs evident anywhere on site? If yes, please indicate where. Yes No

Notes:

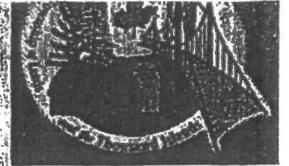
evidence of staining (see photos) in 2 spots along western face of active landfilling area (ie. towards north ditch)

Overall Rating:

Satisfactory Unsatisfactory

Name of Inspector: CAMILLE MACCOLTA Signature: Date: April 30, 2019

**WARD 3 (ESCOTT) WASTE DISPOSAL SITE A441073
MONTHLY SITE INSPECTION REPORT**



Date of Inspection 25/11/2019 (d/m/y)

Please check "✓" the boxes and fill in the blanks. Use the "Notes" area for additional information or clarification.

1. Condition of the active disposal area, the recyclable bins, the tire bins, the white good bins, the scrap metal bins, and the brush and stump pile:

- a) In which area of the site is disposal taking place? *SW of fill area (see site figure).*
- b) Did attendant routinely supervise waste disposal? *→ 1st fill closed during inspection, assumed yes*
Yes No
- c) Was any hazardous or liquid industrial waste disposed?
Yes No
- d) Are recyclable materials and other goods being placed into correct bins?
Yes No
- e) How full are the recycling bins? *50%*
- f) Are brush and stumps being segregated and stockpiled?
Yes No
- g) Has there been any burning of brush and stumps this month?
Yes No
- h) If yes, was the burning supervised?
Yes No

Notes: *↳ was on site when 1st fill closed, brush was remaining, w/ fire present, no personnel on site to supervise*

Overall Rating:

Satisfactory Unsatisfactory

2. Condition of the surface water drainage works:

- a) Are all ditches, swales, sediment control ponds, and rock check dams in working order? Yes No
If no, please explain.
- b) Is there any ponded water at the site?
If yes, please explain. *some puddles around active filling area.* Yes No
- c) Are any of the siltation control traps (ponds) full?
If yes, please explain. Yes No
- d) Was any cleaning of sediment accumulated in the ponds conducted this month? Yes No *N/A*

Notes:

Overall Rating:

Satisfactory Unsatisfactory

3. Condition of the on-site roads:

- a) Is there any evidence of excessive erosion on the on-site road?
If yes, please explain. Yes No
- b) Is there excessive dust? Yes No
- c) Has dust suppressant been used this month? Yes No

Notes: *regarding b) & c), inspection conducted in November - treated met*

Overall Rating:

Satisfactory Unsatisfactory

4. Presence of litter at the site's perimeter and litter fences:

a) Is there any evidence of wind-blown litter or accidentally dropped litter from waste hauling vehicles?

Yes No

b) If yes, this litter needs to be picked up. Has this or will this be done in the near future?

Yes No

c) Has a litter fence been installed?

Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

5. Condition of the intermediate cover and final cover:

a) Is there evidence of any erosion in the existing landfill cover?

Yes No

b) Are any repairs needed to the existing landfill cover?

Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

6. Presence of birds, vector, vermin and animals:

Which of the following was observed on site: birds rats flies other animals

Notes:

Overall Rating:

Satisfactory Unsatisfactory

7. Condition of the on-site facilities, the fence, the gate and its lock and the signage:

a) Is the attendants' shelter in good condition?

Yes No

b) Is the outhouse being cleaned and pumped out on a regular basis?

Yes No

c) Is the perimeter fence in good condition?

Yes No

d) Is the entry gate in good condition?

Yes No

e) Is the lock on the gate operational and in good condition?

Yes No

f) Is proper signage for the landfill posted?

Yes No

Notes:

signage has started to degrade

Overall Rating:

Satisfactory Unsatisfactory

8. Condition of the groundwater monitoring wells required for the groundwater monitoring program:

a) Can all monitoring wells be located?

Yes No If no, please specify.

b) Do all wells have proper well caps?

Yes No If no, please specify.

c) Do any monitoring wells need repair?

Yes No If yes, please specify.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

9. Available amount of cover material to ensure sufficient daily cover activities at all times when the site is in operation:

a) Is there a stockpile of daily cover material on site?

Yes No

If no, please explain where and how material is obtained.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

10. Presence of leachate springs:

a) Are leachate springs evident anywhere on site?

Yes No

If yes, please indicate where.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Name of Inspector: Robert Banner
(Please print)

Signature:

RB

Date: 2019-11-25

Appendix G
Laboratory Certificates of Analyses

C.O.C.: G77522

REPORT No. B19-11520

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Camille Malcolm

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 24-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.		19-W014	19-W002	19-W003	19-W013
			Reference Method	Date/Site Analyzed	B19-11520-1	B19-11520-2	B19-11520-3	B19-11520-4
			Date Collected		30-Apr-19	30-Apr-19	30-Apr-19	30-Apr-19
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	06-May-19/O	332	433	322	359
pH @25°C	pH Units		SM 4500H	06-May-19/O	7.76	7.49	8.17	7.94
Conductivity @25°C	µmho/cm	1	SM 2510B	06-May-19/O	656	1030	646	703
Chloride	mg/L	0.5	SM4110C	14-May-19/O	0.7	41.7	2.0	2.1
Nitrite (N)	mg/L	0.05	SM4110C	14-May-19/O	< 0.05	0.32	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	14-May-19/O	0.39	0.44	0.14	< 0.05
Sulphate	mg/L	1	SM4110C	14-May-19/O	7	49	16	12
BOD(5 day)	mg/L	3	SM 5210B	02-May-19/K	< 3	4	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	03-May-19/K	185	36000	2000	7050
Phosphorus-Total	mg/L	0.01	E3199A.1	09-May-19/K	0.22	1.94	3.32	5.79
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	09-May-19/K	0.2	3.2	0.5	0.6
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-May-19/K	0.05	0.99	0.09	0.13
Total Dissolved Solids	mg/L	3	SM 2540D	08-May-19/O	341	551	335	365
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	09-May-19/O	5.2	6.7	3.2	3.0
Phenolics	mg/L	0.002	MOEE 3179	06-May-19/K	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	09-May-19/O	< 5	390	51	91
Hardness (as CaCO3)	mg/L	1	SM 3120	03-May-19/O	353	527	345	373
Aluminum	mg/L	0.01	SM 3120	03-May-19/O	0.05	0.07	0.03	0.03
Arsenic	mg/L	0.0001	EPA 200.8	06-May-19/O	0.0001	0.0012	0.0007	0.0015
Barium	mg/L	0.001	SM 3120	03-May-19/O	0.053	0.241	0.117	0.226
Beryllium	mg/L	0.002	SM 3120	03-May-19/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	03-May-19/O	0.010	0.358	0.058	0.029
Cadmium	mg/L	0.000015	EPA 200.8	06-May-19/O	< 0.000015	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	03-May-19/O	82.6	136	44.4	57.7
Chromium	mg/L	0.001	EPA 200.8	06-May-19/O	0.002	0.001	0.001	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	06-May-19/O	< 0.0001	0.0014	< 0.0001	< 0.0001
Copper	mg/L	0.0001	EPA 200.8	06-May-19/O	0.0004	0.0002	0.0003	0.0004



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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C.O.C.: G77522

REPORT No. B19-11520

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308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Camille Malcolm

Caduceon Environmental Laboratories

285 Dalton Ave
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Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 24-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	19-W014	19-W002	19-W003	19-W013
					Sample I.D.	30-Apr-19	30-Apr-19	30-Apr-19	30-Apr-19
Iron	mg/L	0.005	SM 3120	03-May-19/O	B19-11520-1	0.024	0.569	< 0.005	< 0.005
Lead	mg/L	0.00002	EPA 200.8	06-May-19/O	B19-11520-2	< 0.00002	0.00034	< 0.00002	< 0.00002
Magnesium	mg/L	0.02	SM 3120	03-May-19/O	B19-11520-3	35.7	45.5	57.0	55.7
Manganese	mg/L	0.001	SM 3120	03-May-19/O	B19-11520-4	< 0.001	0.400	< 0.001	0.012
Mercury	mg/L	0.00002	SM 3112 B	06-May-19/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	03-May-19/O		< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	03-May-19/O		< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	03-May-19/O		0.4	4.8	2.3	2.5
Silicon	mg/L	0.01	SM 3120	03-May-19/O		7.94	7.61	6.03	12.3
Silver	mg/L	0.0001	EPA 200.8	06-May-19/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	03-May-19/O		10.5	24.4	20.0	18.1
Strontium	mg/L	0.001	SM 3120	03-May-19/O		0.264	1.87	1.05	0.688
Thallium	mg/L	0.00005	EPA 200.8	06-May-19/O		< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	03-May-19/O		< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	03-May-19/O		< 0.005	< 0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	03-May-19/O		0.09	0.10	0.08	0.08
Uranium	mg/L	0.00005	EPA 200.8	06-May-19/O		0.00119	0.0112	0.00362	0.00075
Vanadium	mg/L	0.005	SM 3120	03-May-19/O		< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	03-May-19/O		< 0.005	< 0.005	< 0.005	< 0.005



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Michelle Dubien
Lab Manager

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JOB/PROJECT NO.: Escott

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P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.		19-W008	19-W006	19-W007	19-W015
			Reference Method	Date/Site Analyzed	B19-11520-5	B19-11520-6	B19-11520-7	B19-11520-8
			Date Collected		30-Apr-19	30-Apr-19	30-Apr-19	30-Apr-19
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	06-May-19/O	985	811	164	323
pH @25°C	pH Units		SM 4500H	06-May-19/O	7.37	7.24	8.00	7.78
Conductivity @25°C	µmho/cm	1	SM 2510B	06-May-19/O	2080	2020	362	721
Chloride	mg/L	0.5	SM4110C	14-May-19/O	74.9	107	4.0	24.5
Nitrite (N)	mg/L	0.05	SM4110C	14-May-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	14-May-19/O	< 0.05	< 0.05	< 0.05	0.53
Sulphate	mg/L	1	SM4110C	14-May-19/O	103	175	12	17
BOD(5 day)	mg/L	3	SM 5210B	02-May-19/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	03-May-19/K	4620	6	5	< 3
Phosphorus-Total	mg/L	0.01	E3199A.1	09-May-19/K	1.17	0.01	0.01	< 0.01
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	09-May-19/K	2.9	3.5	0.1	< 0.1
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-May-19/K	2.24	2.90	0.08	0.05
Total Dissolved Solids	mg/L	3	SM 2540D	08-May-19/O	1150	1110	186	375
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	09-May-19/O	10.5	12.5	2.9	4.6
Phenolics	mg/L	0.002	MOEE 3179	06-May-19/K	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	09-May-19/O	57	32	7	6
Hardness (as CaCO3)	mg/L	1	SM 3120	03-May-19/O	1240	1070	188	380
Aluminum	mg/L	0.01	SM 3120	03-May-19/O	0.09	0.11	0.03	0.05
Arsenic	mg/L	0.0001	EPA 200.8	06-May-19/O	0.0018	0.0017	0.0004	< 0.0001
Barium	mg/L	0.001	SM 3120	03-May-19/O	0.423	0.341	0.052	0.144
Beryllium	mg/L	0.002	SM 3120	03-May-19/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	03-May-19/O	0.173	0.561	0.049	0.021
Cadmium	mg/L	0.000015	EPA 200.8	06-May-19/O	< 0.000015	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	03-May-19/O	181	254	56.7	86.9
Chromium	mg/L	0.001	EPA 200.8	06-May-19/O	0.001	0.001	0.001	0.001
Cobalt	mg/L	0.0001	EPA 200.8	06-May-19/O	0.0027	0.0106	< 0.0001	< 0.0001
Copper	mg/L	0.0001	EPA 200.8	06-May-19/O	< 0.0001	0.0011	< 0.0001	0.0010



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 24-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	19-W008	19-W006	19-W007	19-W015
Sample I.D.	B19-11520-5	B19-11520-6	B19-11520-7	B19-11520-8
Date Collected	30-Apr-19	30-Apr-19	30-Apr-19	30-Apr-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Iron	mg/L	0.005	SM 3120	03-May-19/O	2.46	2.54	0.047	< 0.005
Lead	mg/L	0.00002	EPA 200.8	06-May-19/O	< 0.00002	0.00004	< 0.00002	< 0.00002
Magnesium	mg/L	0.02	SM 3120	03-May-19/O	191	107	11.3	39.5
Manganese	mg/L	0.001	SM 3120	03-May-19/O	0.627	3.27	0.033	< 0.001
Mercury	mg/L	0.00002	SM 3112 B	06-May-19/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	03-May-19/O	< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	03-May-19/O	< 0.01	0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	03-May-19/O	5.5	5.7	2.2	2.1
Silicon	mg/L	0.01	SM 3120	03-May-19/O	13.2	11.5	4.72	8.33
Silver	mg/L	0.0001	EPA 200.8	06-May-19/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	03-May-19/O	46.9	68.3	4.8	13.3
Strontium	mg/L	0.001	SM 3120	03-May-19/O	1.13	1.30	1.16	0.372
Thallium	mg/L	0.00005	EPA 200.8	06-May-19/O	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	03-May-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	< 0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	03-May-19/O	0.17	0.08	0.09	0.11
Uranium	mg/L	0.00005	EPA 200.8	06-May-19/O	0.0222	0.0124	0.00604	0.00441
Vanadium	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	< 0.005	< 0.005	< 0.005



Michelle Dubien
 Lab Manager

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SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	19-W005	19-W001	19-W004
Sample I.D.	B19-11520-9	B19-11520-10	B19-11520-11
Date Collected	30-Apr-19	30-Apr-19	30-Apr-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	06-May-19/O	313	475	228
pH @25°C	pH Units		SM 4500H	06-May-19/O	7.92	7.43	8.06
Conductivity @25°C	µmho/cm	1	SM 2510B	06-May-19/O	762	1120	462
Chloride	mg/L	0.5	SM4110C	14-May-19/O	25.2	49.9	1.1
Nitrite (N)	mg/L	0.05	SM4110C	14-May-19/O	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	14-May-19/O	0.10	< 0.05	< 0.05
Sulphate	mg/L	1	SM4110C	14-May-19/O	40	52	10
BOD(5 day)	mg/L	3	SM 5210B	02-May-19/K	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	03-May-19/K	19600	14	690
Phosphorus-Total	mg/L	0.01	E3199A.1	09-May-19/K	18.5	0.08	0.29
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	09-May-19/K	1.1	1.5	0.1
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-May-19/K	0.07	1.19	0.06
Total Dissolved Solids	mg/L	3	SM 2540D	08-May-19/O	399	602	239
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	09-May-19/O	3.0	7.4	2.4
Phenolics	mg/L	0.002	MOEE 3179	06-May-19/K	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	09-May-19/O	235	23	8
Hardness (as CaCO3)	mg/L	1	SM 3120	03-May-19/O	389	567	254
Aluminum	mg/L	0.01	SM 3120	03-May-19/O	0.05	0.07	0.04
Arsenic	mg/L	0.0001	EPA 200.8	06-May-19/O	0.0004	0.0005	0.0004
Barium	mg/L	0.001	SM 3120	03-May-19/O	0.085	0.192	0.070
Beryllium	mg/L	0.002	SM 3120	03-May-19/O	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	03-May-19/O	0.016	0.426	0.010
Cadmium	mg/L	0.000015	EPA 200.8	06-May-19/O	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	03-May-19/O	91.8	144	61.1
Chromium	mg/L	0.001	EPA 200.8	06-May-19/O	0.002	0.001	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	06-May-19/O	< 0.0001	0.0011	< 0.0001



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Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Camille Malcolm

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 24-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	19-W005	19-W001	19-W004
Sample I.D.	B19-11520-9	B19-11520-10	B19-11520-11
Date Collected	30-Apr-19	30-Apr-19	30-Apr-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Copper	mg/L	0.0001	EPA 200.8	06-May-19/O	0.0005	0.0003	0.0003
Iron	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	0.549	0.005
Lead	mg/L	0.00002	EPA 200.8	06-May-19/O	< 0.00002	0.00042	< 0.00002
Magnesium	mg/L	0.02	SM 3120	03-May-19/O	38.8	50.3	24.7
Manganese	mg/L	0.001	SM 3120	03-May-19/O	0.004	0.483	0.005
Mercury	mg/L	0.00002	SM 3112 B	06-May-19/O	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	03-May-19/O	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	03-May-19/O	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	03-May-19/O	1.0	5.0	1.3
Silicon	mg/L	0.01	SM 3120	03-May-19/O	7.89	8.10	9.10
Silver	mg/L	0.0001	EPA 200.8	06-May-19/O	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	03-May-19/O	8.3	28.5	5.5
Strontium	mg/L	0.001	SM 3120	03-May-19/O	0.345	2.00	0.139
Thallium	mg/L	0.00005	EPA 200.8	06-May-19/O	< 0.00005	0.00008	< 0.00005
Tin	mg/L	0.05	SM 3120	03-May-19/O	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	03-May-19/O	0.07	0.09	0.07
Uranium	mg/L	0.00005	EPA 200.8	06-May-19/O	0.00160	0.0120	0.00042
Vanadium	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	03-May-19/O	< 0.005	< 0.005	< 0.005



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G77523

REPORT No. B19-11522

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Camille Malcolm

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 14-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W009	19-W010	19-W011	19-W012
Sample I.D.	B19-11522-1	B19-11522-2	B19-11522-3	B19-11522-4
Date Collected	30-Apr-19	30-Apr-19	30-Apr-19	30-Apr-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	06-May-19/O	377	155	113	50
pH @25°C	pH Units		SM 4500H	06-May-19/O	8.17	7.87	7.95	7.57
Conductivity @25°C	µmho/cm	1	SM 2510B	06-May-19/O	918	382	270	186
Chloride	mg/L	0.5	SM4110C	07-May-19/O	54.3	11.4	7.1	20.0
Nitrite (N)	mg/L	0.05	SM4110C	07-May-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	07-May-19/O	0.09	0.22	< 0.05	< 0.05
Sulphate	mg/L	1	SM4110C	07-May-19/O	20	15	7	4
BOD(5 day)	mg/L	3	SM 5210B	02-May-19/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	03-May-19/K	92	7	< 3	75
o-Phosphate (P)	mg/L	0.002	PE4500-S	08-May-19/K	0.036	0.049	0.028	0.039
Phosphorus-Total	mg/L	0.01	E3199A.1	09-May-19/K	0.07	0.09	0.05	0.11
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	09-May-19/K	0.6	0.7	0.7	0.7
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-May-19/K	0.08	0.09	0.07	0.08
Ammonia (N)-unionized	mg/L	0.01	CALC	06-May-19/K	< 0.01	< 0.01	< 0.01	< 0.01
Total Dissolved Solids	mg/L	3	SM 2540D	07-May-19/O	487	197	138	95
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	09-May-19/O	8.5	10.3	10.8	10.1
Phenolics	mg/L	0.001	MOEE 3179	08-May-19/K	< 0.001	< 0.001	< 0.001	< 0.001
COD	mg/L	5	SM 5220D	07-May-19/O	24	24	28	32
Hardness (as CaCO3)	mg/L	1	SM 3120	06-May-19/O	431	181	130	60
Aluminum	mg/L	0.01	SM 3120	03-May-19/O	0.06	0.03	0.03	0.02
Antimony	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0001	0.0001	0.0001	< 0.0001
Arsenic	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0003	0.0003	0.0003	0.0002
Barium	mg/L	0.001	SM 3120	06-May-19/O	0.111	0.055	0.041	0.025
Beryllium	mg/L	0.002	SM 3120	06-May-19/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	06-May-19/O	0.445	0.108	0.011	0.008
Cadmium	mg/L	0.00015	EPA 200.8	03-May-19/O	0.000028	0.000034	0.000027	0.000019
Calcium	mg/L	0.02	SM 3120	06-May-19/O	105	43.4	32.2	16.4



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G77523

REPORT No. B19-11522

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Camille Malcolm

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 14-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.		19-W009	19-W010	19-W011	19-W012
			Reference Method	Date/Site Analyzed	B19-11522-1	B19-11522-2	B19-11522-3	B19-11522-4
Chromium	mg/L	0.001	EPA 200.8	03-May-19/O	0.002	0.002	0.002	0.002
Cobalt	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0004	0.0002	0.0002	0.0003
Copper	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0015	0.0034	0.0029	0.0015
Iron	mg/L	0.005	SM 3120	06-May-19/O	0.432	0.341	0.299	0.664
Lead	mg/L	0.00002	EPA 200.8	03-May-19/O	0.00027	0.00022	0.00014	0.00047
Magnesium	mg/L	0.02	SM 3120	06-May-19/O	37.5	15.4	11.0	5.01
Manganese	mg/L	0.001	SM 3120	06-May-19/O	0.068	0.020	0.017	0.040
Mercury	mg/L	0.00002	SM 3112 B	07-May-19/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	06-May-19/O	< 0.01	< 0.01	< 0.01	0.01
Nickel	mg/L	0.0002	EPA 200.8	03-May-19/O	0.0020	0.0015	0.0014	0.0007
Potassium	mg/L	0.1	SM 3120	06-May-19/O	4.8	1.6	2.2	1.0
Selenium	mg/L	0.001	EPA 200.8	03-May-19/O	< 0.001	< 0.001	< 0.001	< 0.001
Silicon	mg/L	0.01	SM 3120	06-May-19/O	4.37	4.27	1.50	3.55
Silver	mg/L	0.0001	EPA 200.8	03-May-19/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	06-May-19/O	41.2	12.2	6.6	14.1
Strontium	mg/L	0.001	SM 3120	06-May-19/O	0.479	0.226	0.154	0.086
Thallium	mg/L	0.00005	EPA 200.8	03-May-19/O	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	06-May-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	06-May-19/O	0.014	0.012	< 0.005	0.018
Tungsten	mg/L	0.01	SM 3120	06-May-19/O	0.01	0.01	0.05	0.06
Uranium	mg/L	0.00005	EPA 200.8	03-May-19/O	0.00511	0.00235	0.00147	0.00016
Vanadium	mg/L	0.005	SM 3120	06-May-19/O	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	06-May-19/O	0.020	0.013	0.012	0.012



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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C.O.C.: G77523

REPORT No. B19-11522

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Camille Malcolm

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 14-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W016	19-W017		
Sample I.D.	B19-11522-5	B19-11522-6		
Date Collected	30-Apr-19	30-Apr-19		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	06-May-19/O	59	99		
pH @25°C	pH Units		SM 4500H	06-May-19/O	7.75	7.92		
Conductivity @25°C	µmho/cm	1	SM 2510B	06-May-19/O	278	236		
Chloride	mg/L	0.5	SM4110C	07-May-19/O	42.6	6.2		
Nitrite (N)	mg/L	0.05	SM4110C	07-May-19/O	< 0.05	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	07-May-19/O	< 0.05	< 0.05		
Sulphate	mg/L	1	SM4110C	07-May-19/O	5	5		
BOD(5 day)	mg/L	3	SM 5210B	02-May-19/K	< 3	< 3		
Total Suspended Solids	mg/L	3	SM2540D	03-May-19/K	< 3	12		
o-Phosphate (P)	mg/L	0.002	PE4500-S	08-May-19/K	0.015	0.038		
Phosphorus-Total	mg/L	0.01	E3199A.1	09-May-19/K	0.03	0.10		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	09-May-19/K	4.4	1.0		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-May-19/K	0.07	0.07		
Ammonia (N)-unionized	mg/L	0.01	CALC	06-May-19/K	< 0.01	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	07-May-19/O	142	121		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	09-May-19/O	8.5	13.6		
Phenolics	mg/L	0.001	MOEE 3179	08-May-19/K	< 0.001	< 0.001		
COD	mg/L	5	SM 5220D	07-May-19/O	30	39		
Hardness (as CaCO3)	mg/L	1	SM 3120	06-May-19/O	76	113		
Aluminum	mg/L	0.01	SM 3120	03-May-19/O	0.02	0.03		
Antimony	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0001	< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0002	0.0003		
Barium	mg/L	0.001	SM 3120	06-May-19/O	0.023	0.040		
Beryllium	mg/L	0.002	SM 3120	06-May-19/O	< 0.002	< 0.002		
Boron	mg/L	0.005	SM 3120	06-May-19/O	0.009	0.009		
Cadmium	mg/L	0.000015	EPA 200.8	03-May-19/O	< 0.000015	0.000041		
Calcium	mg/L	0.02	SM 3120	06-May-19/O	20.2	29.3		



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Michelle Dubien
Lab Manager

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 Fax: 613-544-2770

DATE RECEIVED: 30-Apr-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 14-May-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W016	19-W017		
Sample I.D.	B19-11522-5	B19-11522-6		
Date Collected	30-Apr-19	30-Apr-19		

Parameter	Units	R.L.	Reference Method		Date/Site Analyzed			
Chromium	mg/L	0.001	EPA 200.8	03-May-19/O	0.002	0.002		
Cobalt	mg/L	0.0001	EPA 200.8	03-May-19/O	< 0.0001	0.0002		
Copper	mg/L	0.0001	EPA 200.8	03-May-19/O	0.0011	0.0035		
Iron	mg/L	0.005	SM 3120	06-May-19/O	0.154	0.326		
Lead	mg/L	0.00002	EPA 200.8	03-May-19/O	0.00007	0.00019		
Magnesium	mg/L	0.02	SM 3120	06-May-19/O	5.67	9.87		
Manganese	mg/L	0.001	SM 3120	06-May-19/O	0.011	0.016		
Mercury	mg/L	0.00002	SM 3112 B	07-May-19/O	< 0.00002	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	06-May-19/O	< 0.01	< 0.01		
Nickel	mg/L	0.0002	EPA 200.8	03-May-19/O	0.0005	0.0011		
Potassium	mg/L	0.1	SM 3120	06-May-19/O	1.1	2.5		
Selenium	mg/L	0.001	EPA 200.8	03-May-19/O	< 0.001	< 0.001		
Silicon	mg/L	0.01	SM 3120	06-May-19/O	0.63	2.37		
Silver	mg/L	0.0001	EPA 200.8	03-May-19/O	< 0.0001	< 0.0001		
Sodium	mg/L	0.2	SM 3120	06-May-19/O	27.0	6.6		
Strontium	mg/L	0.001	SM 3120	06-May-19/O	0.114	0.143		
Thallium	mg/L	0.00005	EPA 200.8	03-May-19/O	< 0.00005	< 0.00005		
Tin	mg/L	0.05	SM 3120	06-May-19/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	06-May-19/O	< 0.005	0.007		
Tungsten	mg/L	0.01	SM 3120	06-May-19/O	0.08	0.05		
Uranium	mg/L	0.00005	EPA 200.8	03-May-19/O	0.00015	0.00148		
Vanadium	mg/L	0.005	SM 3120	06-May-19/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	06-May-19/O	0.021	0.013		



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Michelle Dubien
 Lab Manager

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C.O.C.: G91327

REPORT No. B19-38117

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 12-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.		19-W022	19-W023	19-W024	19-W033
			Reference Method	Date/Site Analyzed	B19-38117-1	B19-38117-2	B19-38117-3	B19-38117-4
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	26-Nov-19/O	401	109	173	93
pH @25°C	pH Units		SM 4500H	26-Nov-19/O	8.08	7.71	7.71	7.64
Conductivity @25°C	µmho/cm	1	SM 2510B	26-Nov-19/O	951	272	443	236
Chloride	mg/L	0.5	SM4110C	10-Dec-19/O	57.1	7.4	16.3	8.2
Nitrite (N)	mg/L	0.05	SM4110C	10-Dec-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	10-Dec-19/O	0.30	0.20	1.38	0.19
Sulphate	mg/L	1	SM4110C	10-Dec-19/O	28	16	24	12
BOD(5 day)	mg/L	3	SM 5210B	27-Nov-19/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	26-Nov-19/K	11	3	13	< 3
o-Phosphate (P)	mg/L	0.002	PE4500-S	26-Nov-19/K	0.033	0.039	0.049	0.054
Phosphorus-Total	mg/L	0.01	E3199A.1	27-Nov-19/K	0.04	0.04	0.08	0.06
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	27-Nov-19/K	0.5	0.6	0.7	0.6
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	26-Nov-19/K	0.07	0.04	0.06	0.04
Ammonia (N)-unionized	mg/L	0.01	CALC	26-Nov-19/K	< 0.01	< 0.01	< 0.01	< 0.01
Total Dissolved Solids	mg/L	3	SM 2540D	27-Nov-19/O	506	139	229	121
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	06-Dec-19/O	11.7	11.1	9.7	10.0
Phenolics	mg/L	0.001	MOEE 3179	28-Nov-19/K	< 0.001	< 0.001	< 0.001	< 0.001
COD	mg/L	5	SM 5220D	27-Nov-19/O	19	24	22	18
Hardness (as CaCO3)	mg/L	1	SM 3120	28-Nov-19/O	443	128	215	110
Aluminum	mg/L	0.01	SM 3120	26-Nov-19/O	0.07	0.07	0.05	0.06
Arsenic	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0002	0.0002	0.0002	0.0002
Barium	mg/L	0.001	SM 3120	28-Nov-19/O	0.107	0.045	0.066	0.043
Boron	mg/L	0.005	SM 3120	28-Nov-19/O	0.419	0.010	0.123	0.008
Cadmium	mg/L	0.000015	EPA 200.8	27-Nov-19/O	0.000028	0.000033	0.000043	0.000035
Calcium	mg/L	0.02	SM 3120	28-Nov-19/O	109	30.8	50.9	27.6
Chromium	mg/L	0.001	EPA 200.8	27-Nov-19/O	< 0.001	< 0.001	0.001	0.001
Cobalt	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0003	0.0003	0.0003	0.0003



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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C.O.C.: G91327

REPORT No. B19-38117

Report To:

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 308 Wellington Street, 2nd Floor
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Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 12-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	19-W022	19-W023	19-W024	19-W033
					Sample I.D.	25-Nov-19	25-Nov-19	25-Nov-19	25-Nov-19
Copper	mg/L	0.0001	EPA 200.8	27-Nov-19/O	B19-38117-1	0.0015	0.0031	0.0041	0.0027
Iron	mg/L	0.005	SM 3120	28-Nov-19/O	B19-38117-2	0.376	0.474	0.462	0.498
Lead	mg/L	0.00002	EPA 200.8	27-Nov-19/O	B19-38117-3	0.00030	0.00023	0.00027	0.00029
Magnesium	mg/L	0.02	SM 3120	28-Nov-19/O	B19-38117-4	40.6	11.3	19.8	10.0
Manganese	mg/L	0.001	SM 3120	28-Nov-19/O		0.065	0.014	0.022	0.011
Mercury	mg/L	0.00002	SM 3112 B	29-Nov-19/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Nickel	mg/L	0.0002	EPA 200.8	27-Nov-19/O		0.0024	0.0012	0.0019	0.0011
Potassium	mg/L	0.1	SM 3120	28-Nov-19/O		3.7	2.1	2.0	3.0
Silicon	mg/L	0.01	SM 3120	28-Nov-19/O		4.13	3.92	4.71	4.29
Silver	mg/L	0.0001	EPA 200.8	27-Nov-19/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	28-Nov-19/O		39.5	6.0	13.5	5.5
Strontium	mg/L	0.001	SM 3120	28-Nov-19/O		0.486	0.149	0.276	0.131
Uranium	mg/L	0.00005	EPA 200.8	27-Nov-19/O		0.00389	0.00167	0.00304	0.00151
Vanadium	mg/L	0.005	SM 3120	28-Nov-19/O		< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	28-Nov-19/O		0.014	0.011	0.010	0.012
pH	pH Units		Client Supplied Data	25-Nov-19		8.32	8.42	7.82	7.74
Temperature	°C		Client Supplied Data	25-Nov-19		5.97	4.77	5.18	4.59



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G91327

REPORT No. B19-38117

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 12-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W034		
Sample I.D.	B19-38117-5		
Date Collected	25-Nov-19		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	26-Nov-19/O	68		
pH @25°C	pH Units		SM 4500H	26-Nov-19/O	7.33		
Conductivity @25°C	µmho/cm	1	SM 2510B	26-Nov-19/O	209		
Chloride	mg/L	0.5	SM4110C	10-Dec-19/O	20.5		
Nitrite (N)	mg/L	0.05	SM4110C	10-Dec-19/O	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	10-Dec-19/O	0.11		
Sulphate	mg/L	1	SM4110C	10-Dec-19/O	6		
BOD(5 day)	mg/L	3	SM 5210B	27-Nov-19/K	< 3		
Total Suspended Solids	mg/L	3	SM2540D	26-Nov-19/K	< 3		
o-Phosphate (P)	mg/L	0.002	PE4500-S	26-Nov-19/K	0.022		
Phosphorus-Total	mg/L	0.01	E3199A.1	27-Nov-19/K	0.02		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	27-Nov-19/K	0.4		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	26-Nov-19/K	0.05		
Ammonia (N)-unionized	mg/L	0.01	CALC	26-Nov-19/K	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	27-Nov-19/O	107		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	06-Dec-19/O	10.2		
Phenolics	mg/L	0.001	MOEE 3179	28-Nov-19/K	< 0.001		
COD	mg/L	5	SM 5220D	27-Nov-19/O	20		
Hardness (as CaCO3)	mg/L	1	SM 3120	28-Nov-19/O	74		
Aluminum	mg/L	0.01	SM 3120	26-Nov-19/O	0.05		
Arsenic	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0001		
Barium	mg/L	0.001	SM 3120	28-Nov-19/O	0.021		
Boron	mg/L	0.005	SM 3120	28-Nov-19/O	0.008		
Cadmium	mg/L	0.000015	EPA 200.8	27-Nov-19/O	< 0.000015		
Calcium	mg/L	0.02	SM 3120	28-Nov-19/O	19.7		
Chromium	mg/L	0.001	EPA 200.8	27-Nov-19/O	< 0.001		
Cobalt	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0001		



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Michelle Dubien
 Lab Manager

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REPORT No. B19-38117

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 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 12-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W034		
Sample I.D.	B19-38117-5		
Date Collected	25-Nov-19		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Copper	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0006		
Iron	mg/L	0.005	SM 3120	28-Nov-19/O	0.238		
Lead	mg/L	0.00002	EPA 200.8	27-Nov-19/O	0.00009		
Magnesium	mg/L	0.02	SM 3120	28-Nov-19/O	6.49		
Manganese	mg/L	0.001	SM 3120	28-Nov-19/O	0.011		
Mercury	mg/L	0.00002	SM 3112 B	29-Nov-19/O	< 0.00002		
Nickel	mg/L	0.0002	EPA 200.8	27-Nov-19/O	0.0006		
Potassium	mg/L	0.1	SM 3120	28-Nov-19/O	1.4		
Silicon	mg/L	0.01	SM 3120	28-Nov-19/O	3.93		
Silver	mg/L	0.0001	EPA 200.8	27-Nov-19/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	28-Nov-19/O	13.8		
Strontium	mg/L	0.001	SM 3120	28-Nov-19/O	0.114		
Uranium	mg/L	0.00005	EPA 200.8	27-Nov-19/O	0.00012		
Vanadium	mg/L	0.005	SM 3120	28-Nov-19/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	28-Nov-19/O	0.008		
pH	pH Units		Client Supplied Data	25-Nov-19	7.82		
Temperature	°C		Client Supplied Data	25-Nov-19	1.40		



Michelle Dubien
 Lab Manager

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C.O.C.: G91328

REPORT No. B19-38145

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
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 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 16-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	19-W018	19-W019	19-W020	19-W021
Sample I.D.	B19-38145-1	B19-38145-2	B19-38145-3	B19-38145-4
Date Collected	25-Nov-19	25-Nov-19	25-Nov-19	25-Nov-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	26-Nov-19/O	382	428	341	161
pH @25°C	pH Units		SM 4500H	26-Nov-19/O	7.92	7.78	8.09	7.96
Conductivity @25°C	µmho/cm	1	SM 2510B	26-Nov-19/O	911	1010	682	357
Chloride	mg/L	0.5	SM4110C	12-Dec-19/O	39.2	48.7	2.7	5.1
Nitrite (N)	mg/L	0.05	SM4110C	12-Dec-19/O	0.30	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	12-Dec-19/O	0.56	0.10	0.51	0.12
Sulphate	mg/L	1	SM4110C	12-Dec-19/O	46	49	25	12
BOD(5 day)	mg/L	3	SM 5210B	27-Nov-19/K	6	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	26-Nov-19/K	7000	7	1280	6
Phosphorus-Total	mg/L	0.01	E3199A.1	27-Nov-19/K	12.1	0.02	1.19	0.03
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	27-Nov-19/K	2.2	1.2	0.3	0.1
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	26-Nov-19/K	0.95	1.03	0.10	0.07
Total Dissolved Solids	mg/L	3	SM 2540D	28-Nov-19/O	483	539	354	184
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	07-Dec-19/O	7.8	10.9	3.9	3.5
Phenolics	mg/L	0.002	MOEE 3179	28-Nov-19/K	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	27-Nov-19/O	510	14	40	5
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Nov-19/O	468	531	358	181
Aluminum	mg/L	0.01	SM 3120	26-Nov-19/O	0.11	0.07	0.10	0.05
Arsenic	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0008	0.0005	0.0006	0.0004
Barium	mg/L	0.001	SM 3120	26-Nov-19/O	0.218	0.193	0.127	0.061
Beryllium	mg/L	0.002	SM 3120	26-Nov-19/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	26-Nov-19/O	0.278	0.358	0.061	0.055
Cadmium	mg/L	0.00015	EPA 200.8	27-Nov-19/O	< 0.000015	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	26-Nov-19/O	121	134	49.5	55.9
Chromium	mg/L	0.001	EPA 200.8	27-Nov-19/O	< 0.001	< 0.001	0.002	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0012	0.0010	< 0.0001	< 0.0001
Copper	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0008	0.0006	0.0004	0.0005



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Michelle Dubien
 Lab Manager

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C.O.C.: G91328

REPORT No. B19-38145

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19
 DATE REPORTED: 16-Dec-19
 SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: Escott
 P.O. NUMBER: 1038
 WATERWORKS NO.

Client I.D.	19-W018	19-W019	19-W020	19-W021
Sample I.D.	B19-38145-1	B19-38145-2	B19-38145-3	B19-38145-4
Date Collected	25-Nov-19	25-Nov-19	25-Nov-19	25-Nov-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Iron	mg/L	0.005	SM 3120	26-Nov-19/O	0.613	0.583	0.081	0.062
Lead	mg/L	0.00002	EPA 200.8	27-Nov-19/O	0.00028	0.00037	0.00006	0.00003
Magnesium	mg/L	0.02	SM 3120	26-Nov-19/O	40.2	47.6	57.0	10.0
Manganese	mg/L	0.001	SM 3120	26-Nov-19/O	0.369	0.494	0.005	0.033
Mercury	mg/L	0.00002	SM 3112 B	29-Nov-19/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	26-Nov-19/O	< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	26-Nov-19/O	< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	26-Nov-19/O	4.8	5.0	2.8	2.5
Silicon	mg/L	0.01	SM 3120	26-Nov-19/O	7.54	8.01	7.15	4.90
Silver	mg/L	0.0001	EPA 200.8	27-Nov-19/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	26-Nov-19/O	21.1	26.0	23.1	4.9
Strontium	mg/L	0.001	SM 3120	26-Nov-19/O	1.73	1.87	1.02	1.10
Thallium	mg/L	0.00005	EPA 200.8	27-Nov-19/O	< 0.00005	0.00007	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	26-Nov-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	26-Nov-19/O	< 0.005	< 0.005	0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	26-Nov-19/O	< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	27-Nov-19/O	0.00948	0.0100	0.00390	0.00496
Vanadium	mg/L	0.005	SM 3120	26-Nov-19/O	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	26-Nov-19/O	< 0.005	< 0.005	< 0.005	< 0.005



Michelle Dubien
 Lab Manager

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308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 16-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	19-W025	19-W026	19-W027	19-W028
Sample I.D.	B19-38145-5	B19-38145-6	B19-38145-7	B19-38145-8
Date Collected	25-Nov-19	25-Nov-19	25-Nov-19	25-Nov-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	26-Nov-19/O	908	299	229	964
pH @25°C	pH Units		SM 4500H	26-Nov-19/O	7.40	7.88	8.02	7.60
Conductivity @25°C	µmho/cm	1	SM 2510B	26-Nov-19/O	2060	703	463	2020
Chloride	mg/L	0.5	SM4110C	12-Dec-19/O	113	24.3	1.1	90.1
Nitrite (N)	mg/L	0.05	SM4110C	12-Dec-19/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	12-Dec-19/O	0.10	1.02	0.15	0.21
Sulphate	mg/L	1	SM4110C	12-Dec-19/O	163	39	11	104
BOD(5 day)	mg/L	3	SM 5210B	27-Nov-19/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	26-Nov-19/K	13	26800	480	7800
Phosphorus-Total	mg/L	0.01	E3199A.1	27-Nov-19/K	0.01	198	0.47	33.0
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	27-Nov-19/K	3.2	1.5	0.2	16.0
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	26-Nov-19/K	2.81	0.14	0.08	1.84
Total Dissolved Solids	mg/L	3	SM 2540D	28-Nov-19/O	1140	365	239	1110
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	07-Dec-19/O	17.3	5.0	3.7	12.9
Phenolics	mg/L	0.002	MOEE 3179	28-Nov-19/K	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	27-Nov-19/O	33	320	22	2150
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Nov-19/O	1060	363	252	1160
Aluminum	mg/L	0.01	SM 3120	26-Nov-19/O	0.11	0.06	0.05	0.10
Arsenic	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0012	0.0006	0.0004	0.0017
Barium	mg/L	0.001	SM 3120	26-Nov-19/O	0.360	0.111	0.080	0.517
Beryllium	mg/L	0.002	SM 3120	26-Nov-19/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	26-Nov-19/O	0.623	0.022	0.011	0.213
Cadmium	mg/L	0.00015	EPA 200.8	27-Nov-19/O	< 0.000029	< 0.000015	< 0.000015	< 0.000029
Calcium	mg/L	0.02	SM 3120	26-Nov-19/O	255	87.2	61.3	174
Chromium	mg/L	0.001	EPA 200.8	27-Nov-19/O	< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0119	< 0.0001	< 0.0001	0.0028
Copper	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0016	0.0046	0.0011	0.0004



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Michelle Dubien
Lab Manager

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C.O.C.: G91328

REPORT No. B19-38145

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 16-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	19-W025	19-W026	19-W027	19-W028
					Sample I.D.	25-Nov-19	25-Nov-19	25-Nov-19	25-Nov-19
Iron	mg/L	0.005	SM 3120	26-Nov-19/O	B19-38145-5	2.78	0.025	0.005	3.01
Lead	mg/L	0.00002	EPA 200.8	27-Nov-19/O	B19-38145-6	< 0.00009	0.00010	0.00002	< 0.00009
Magnesium	mg/L	0.02	SM 3120	26-Nov-19/O	B19-38145-7	104	35.4	24.1	177
Manganese	mg/L	0.001	SM 3120	26-Nov-19/O	B19-38145-8	3.48	0.003	0.006	0.570
Mercury	mg/L	0.00002	SM 3112 B	29-Nov-19/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	26-Nov-19/O		< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	26-Nov-19/O		0.01	< 0.01	< 0.01	0.01
Potassium	mg/L	0.1	SM 3120	26-Nov-19/O		5.7	1.3	1.4	6.0
Silicon	mg/L	0.01	SM 3120	26-Nov-19/O		11.7	9.30	9.74	13.8
Silver	mg/L	0.0001	EPA 200.8	27-Nov-19/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	26-Nov-19/O		75.2	8.6	5.8	51.1
Strontium	mg/L	0.001	SM 3120	26-Nov-19/O		1.31	0.342	0.146	1.13
Thallium	mg/L	0.00005	EPA 200.8	27-Nov-19/O		< 0.00005	< 0.00005	< 0.00005	0.00006
Tin	mg/L	0.05	SM 3120	26-Nov-19/O		< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	26-Nov-19/O		< 0.005	< 0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	26-Nov-19/O		< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	27-Nov-19/O		0.0121	0.00107	0.00041	0.0201
Vanadium	mg/L	0.005	SM 3120	26-Nov-19/O		< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	26-Nov-19/O		< 0.005	< 0.005	< 0.005	< 0.005



R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G91328

REPORT No. B19-38145

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 16-Dec-19

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	19-W029	19-W031	19-W032
Sample I.D.	B19-38145-9	B19-38145-10	B19-38145-11
Date Collected	25-Nov-19	25-Nov-19	25-Nov-19

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	26-Nov-19/O	384	317	311
pH @25°C	pH Units		SM 4500H	26-Nov-19/O	7.96	7.96	7.98
Conductivity @25°C	µmho/cm	1	SM 2510B	26-Nov-19/O	695	722	601
Chloride	mg/L	0.5	SM4110C	12-Dec-19/O	3.2	30.2	< 0.5
Nitrite (N)	mg/L	0.05	SM4110C	12-Dec-19/O	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	12-Dec-19/O	0.18	0.70	0.51
Sulphate	mg/L	1	SM4110C	12-Dec-19/O	12	19	5
BOD(5 day)	mg/L	3	SM 5210B	27-Nov-19/K	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	26-Nov-19/K	3400	3	50
Phosphorus-Total	mg/L	0.01	E3199A.1	27-Nov-19/K	1.35	0.05	0.07
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	27-Nov-19/K	0.3	0.1	0.2
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	26-Nov-19/K	0.14	0.07	0.08
Total Dissolved Solids	mg/L	3	SM 2540D	28-Nov-19/O	361	376	312
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	07-Dec-19/O	5.4	4.9	3.8
Phenolics	mg/L	0.002	MOEE 3179	28-Nov-19/K	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	27-Nov-19/O	22	< 5	< 5
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Nov-19/O	365	374	314
Aluminum	mg/L	0.01	SM 3120	26-Nov-19/O	0.05	0.05	0.07
Arsenic	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0013	< 0.0001	0.0001
Barium	mg/L	0.001	SM 3120	26-Nov-19/O	0.233	0.156	0.054
Beryllium	mg/L	0.002	SM 3120	26-Nov-19/O	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	26-Nov-19/O	0.029	0.021	0.007
Cadmium	mg/L	0.000015	EPA 200.8	27-Nov-19/O	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	26-Nov-19/O	63.1	86.6	75.0
Chromium	mg/L	0.001	EPA 200.8	27-Nov-19/O	< 0.001	0.001	0.002
Cobalt	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0001	< 0.0001	< 0.0001



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G91328

REPORT No. B19-38145

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 25-Nov-19
 DATE REPORTED: 16-Dec-19
 SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: Escott
 P.O. NUMBER: 1038
 WATERWORKS NO.

Client I.D.	19-W029	19-W031	19-W032	
Sample I.D.	B19-38145-9	B19-38145-10	B19-38145-11	
Date Collected	25-Nov-19	25-Nov-19	25-Nov-19	

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Copper	mg/L	0.0001	EPA 200.8	27-Nov-19/O	0.0012	0.0014	0.0008	
Iron	mg/L	0.005	SM 3120	26-Nov-19/O	0.010	< 0.005	0.016	
Lead	mg/L	0.00002	EPA 200.8	27-Nov-19/O	0.00003	< 0.00002	< 0.00002	
Magnesium	mg/L	0.02	SM 3120	26-Nov-19/O	50.5	38.2	30.8	
Manganese	mg/L	0.001	SM 3120	26-Nov-19/O	0.009	< 0.001	< 0.001	
Mercury	mg/L	0.00002	SM 3112 B	29-Nov-19/O	< 0.00002	< 0.00002	< 0.00002	
Molybdenum	mg/L	0.01	SM 3120	26-Nov-19/O	< 0.01	< 0.01	< 0.01	
Nickel	mg/L	0.01	SM 3120	26-Nov-19/O	< 0.01	< 0.01	< 0.01	
Potassium	mg/L	0.1	SM 3120	26-Nov-19/O	2.7	2.3	0.5	
Silicon	mg/L	0.01	SM 3120	26-Nov-19/O	11.8	8.31	8.37	
Silver	mg/L	0.0001	EPA 200.8	27-Nov-19/O	< 0.0001	< 0.0001	< 0.0001	
Sodium	mg/L	0.2	SM 3120	26-Nov-19/O	18.3	13.7	14.7	
Strontium	mg/L	0.001	SM 3120	26-Nov-19/O	0.651	0.377	0.248	
Thallium	mg/L	0.00005	EPA 200.8	27-Nov-19/O	< 0.00005	< 0.00005	< 0.00005	
Tin	mg/L	0.05	SM 3120	26-Nov-19/O	< 0.05	< 0.05	< 0.05	
Titanium	mg/L	0.005	SM 3120	26-Nov-19/O	< 0.005	< 0.005	< 0.005	
Tungsten	mg/L	0.01	SM 3120	26-Nov-19/O	< 0.01	< 0.01	< 0.01	
Uranium	mg/L	0.00005	EPA 200.8	27-Nov-19/O	0.00084	0.00401	0.00101	
Vanadium	mg/L	0.005	SM 3120	26-Nov-19/O	< 0.005	< 0.005	< 0.005	
Zinc	mg/L	0.005	SM 3120	26-Nov-19/O	< 0.005	< 0.005	< 0.005	



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit
 Test methods may be modified from specified reference method unless indicated by an *
 Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G24153

REPORT No. B19-38366

Rev. 1

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 26-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 21-Jan-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W030		
Sample I.D.	B19-38366-1		
Date Collected	25-Nov-19		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	27-Nov-19/O	71		
pH @25°C	pH Units		SM 4500H	27-Nov-19/O	7.68		
Conductivity @25°C	µmho/cm	1	SM 2510B	27-Nov-19/O	194		
Chloride	mg/L	0.5	SM4110C	12-Dec-19/O	12.4		
Nitrite (N)	mg/L	0.05	SM4110C	12-Dec-19/O	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	12-Dec-19/O	0.19		
Sulphate	mg/L	1	SM4110C	12-Dec-19/O	4		
BOD(5 day)	mg/L	3	SM 5210B	27-Nov-19/K	11		
Total Suspended Solids	mg/L	3	SM2540D	27-Nov-19/K	325		
o-Phosphate (P)	mg/L	0.002	PE4500-S	28-Nov-19/K	0.119		
Phosphorus-Total	mg/L	0.01	E3199A.1	27-Nov-19/K	0.78		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	27-Nov-19/K	3.2		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	28-Nov-19/K	0.04		
Ammonia (N)-unionized	mg/L	0.01	CALC	28-Nov-19/K	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	29-Nov-19/O	99		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	09-Dec-19/O	13.1		
Phenolics	mg/L	0.001	MOEE 3179	29-Nov-19/K	< 0.001		
COD	mg/L	5	SM 5220D	27-Nov-19/O	70		
Hardness (as CaCO3)	mg/L	1	SM 3120	28-Nov-19/O	90		
Aluminum	mg/L	0.01	SM 3120	28-Nov-19/O	0.04		
Antimony	mg/L	0.0001	EPA 200.8	28-Nov-19/O	< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	28-Nov-19/O	0.0006		
Barium	mg/L	0.001	SM 3120	28-Nov-19/O	0.081		
Beryllium	mg/L	0.002	SM 3120	28-Nov-19/O	< 0.002		
Boron	mg/L	0.005	SM 3120	28-Nov-19/O	0.014		
Cadmium	mg/L	0.00015	EPA 200.8	28-Nov-19/O	0.000175		
Calcium	mg/L	0.02	SM 3120	28-Nov-19/O	22.7		



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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C.O.C.: G24153

REPORT No. B19-38366

Rev. 1

Report To:

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 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 26-Nov-19

JOB/PROJECT NO.: Escott

DATE REPORTED: 21-Jan-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	19-W030		
Sample I.D.	B19-38366-1		
Date Collected	25-Nov-19		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Chromium	mg/L	0.001	EPA 200.8	28-Nov-19/O	0.004		
Cobalt	mg/L	0.0001	EPA 200.8	28-Nov-19/O	0.0016		
Copper	mg/L	0.0001	EPA 200.8	28-Nov-19/O	0.0047		
Iron	mg/L	0.005	SM 3120	28-Nov-19/O	4.35		
Lead	mg/L	0.00002	EPA 200.8	28-Nov-19/O	0.00275		
Magnesium	mg/L	0.02	SM 3120	28-Nov-19/O	7.97		
Manganese	mg/L	0.001	SM 3120	28-Nov-19/O	0.230		
Mercury	mg/L	0.00002	SM 3112 B	02-Dec-19/O	< 0.00002		
Molybdenum	mg/L	0.0001	EPA 200.8	28-Nov-19/O	0.0002		
Nickel	mg/L	0.0002	EPA 200.8	28-Nov-19/O	0.0027		
Potassium	mg/L	0.1	SM 3120	28-Nov-19/O	4.7		
Selenium	mg/L	0.001	EPA 200.8	28-Nov-19/O	< 0.001		
Silicon	mg/L	0.01	SM 3120	28-Nov-19/O	7.85		
Silver	mg/L	0.0001	EPA 200.8	28-Nov-19/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	28-Nov-19/O	7.3		
Strontium	mg/L	0.001	SM 3120	28-Nov-19/O	0.091		
Thallium	mg/L	0.00005	EPA 200.8	28-Nov-19/O	< 0.00005		
Tin	mg/L	0.05	SM 3120	28-Nov-19/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	28-Nov-19/O	0.220		
Tungsten	mg/L	0.01	SM 3120	28-Nov-19/O	< 0.01		
Uranium	mg/L	0.00005	EPA 200.8	28-Nov-19/O	0.00056		
Vanadium	mg/L	0.0001	EPA 200.8	28-Nov-19/O	0.0053		
Zinc	mg/L	0.005	SM 3120	28-Nov-19/O	0.033		

1. Revised to change sample date and to include TDS



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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Appendix H
Log Book and Waybills

WARD 3

ESCOTT

2019

ESCOTT WASTE DISPOSAL SITE

YEAR 2019 OPERATIONAL CONFORMANCE QUESTIONNAIRE

Preparation of an annual site development and operations report is a requirement of Certificate of Approval No. A441703 for the Escott Waste Disposal Site. In order to prepare a report for the year 2019, answers are required to the following questions.

1. Was there signage at the main entrance to the site posted in accordance with the requirements of condition 27 of the C of A, including but not limited to the following information?

- (a) name of the Site and Owner;
- (b) this Certificate number;
- (c) normal hours of operation;
- (d) allowable and prohibited waste types;
- (e) telephone number to which complaints may be directed;
- (f) twenty-four hour emergency telephone number (if different from above);
- (g) a warning against unauthorized access; and
- (h) a warning against dumping outside the Site.

Yes No

2. Were there signs in place to direct vehicles to the working face of the landfill and to recycling areas?
Yes No

3. Where there signs in place at the recycling area informing users of what materials are acceptable and directing users to the appropriate storage area?

Yes No

4. Was the entrance gate to the site locked during non-operating hours?

Yes No

5. Did a vermin or vector outbreak occur at the site during 2019?

Yes No

6. Was the site supervised by a site attendant during the posted open hours for the site?

Yes No

Escott WDS - 2019 Operations Questionnaire

7. Are the corners of the landfilling area marked with corner posts that are visible throughout the year? Yes No

8. Was burning of wastes at the site? Yes No

9. Were site litter inspection and pick up programs carried out at the site? Yes No

10. Were there any operational problems encountered at the WDS during 2019? Yes No

If yes describe the problem and action taken.

11. Were there any complaints received pertaining to the WDS? Yes No
If yes describe complaints and action taken.

12. Have all personnel involved in activities at the WDS undergone specific training as precondition 3 of the C of A? Yes No

Please provide training details below.

13. Were brush and clean wood segregated from other material for burning at the site? Yes No

14. Were scrap and white metal, tires and construction wastes segregated and stored separately at the site for off-site disposal or recycling? Yes No

Escott WDS - 2019 Operations Questionnaire

15. Did the site receive wastes from outside the Township of Leeds and the Thousand Islands? Yes No

16. Please provide an estimate of waste types and quantities received at the Site in 2019.

Types: _____

Quantity: _____

17. Please provide a brief description of the fill method and equipment used at the Site .

CAT COMPACTOR AND SAND FILL EVERY TWO WEEKS.
BACKHOE USED TO COMPACT BIN'S AND SITE CLEAN UP.

18. The operational plan for the site calls for an area fill method of disposal with the wastes to be compacted and covered with fill weekly. Were these procedures followed?

COVER AND COMPACTION EVERY 2 WEEKS Yes No

19. In addition to the requirements described in question 18, was intermediate or final cover and applied as described in condition 19 and 50 of the C of A? Yes No

20. Did the operator maintain daily records and daily inspections as described in Condition 47 of the C of A? Yes No

21. Is there a program in place to inspect waste for compliance and to ensure all loads are inspected by trained personnel as described in condition 45 of the C of A? Yes No

22. Were any loads of wastes refused access to the site for disposal purposes? Yes No

If yes, were records pertaining to the refused wastes maintained as required by the Certificate of Approval? Yes No

23. What was the population serviced by the landfill in 2019? 1800

Escott WDS - 2019 Operations Questionnaire

24. Does the Township accept waste from any industrial facilities located within the Township?
If so which facilitates and what type of waste is accepted. *NO*

25. Did any spills or emergencies, as described by condition 5 of the C of A, occur at the Site in 2019?
Yes ___ No

26. Was routine monitoring for explosive methane gas conducted in all buildings and structures at the Site?
Yes ___ No

27. Is there a storm water management program in place at the Site?
Yes No ___

If yes, please describe briefly.

POSITIVE GRADING TO LIMIT PONDING.



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jan 5/19 TIME: 8:30 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	_____
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:55	Amy Popplewell	Household/Recycling	20 bags	yes
11:36	Art marrow	Household/Recycling	20+ bags	yes
1:20	Art marrow	" "	20+	yes

TOTAL COUNT OF HOUSEHOLD USERS: 147

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: dns

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: JAN 8/18 TIME: 8:40 AM STAFF: Amy Pappalwell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 34

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Pappalwell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

157-81



DATE: Jan 17/19 TIME: 8:30 AM STAFF: Amy Popplawell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:30 AM	Art marrow	Household + Kic		Yes
11:10 AM	Art marrow	" "		Yes
12:32	" "	" "		Yes

TOTAL COUNT OF HOUSEHOLD USERS: 82

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): Popplawell

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 15th / 19 TIME: 8:30 am STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

By fences and bins

Leachate Springs: Yes / No

Animals: Yes / No

Birds cats

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 39

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 11 / 19 TIME: 8:30 am STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Birds, cats

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:37</u>	<u>ART MORROW</u>	<u>household</u>	<u>Truck load</u>	<u>Yes</u>
<u>12:09</u>	<u>ART MORROW</u>	<u>household</u>	<u>Truck load</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 52

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 22 / 19 TIME: 8:30 am STAFF: Amy Appland

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 76

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Appland

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 26/19 TIME: 8:30 AM STAFF: Appelwell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

perimeter
curbs & concrete

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:42 AM	Morrow	Garbage + plastics	25 bags	✓
11:48 AM	Morrow	" "	29 bags	✓

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins at face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Tue Jun 26/19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 17

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Dustin Jackson

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sat Feb 22/14 TIME: 8:30 AM STAFF: Dustin Tealder

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:46	ART Morrow	Household	T/L	Yes
11:30	ART Morrow	household	T/L	Yes
1:02	ART Morrow	household	T/L	Yes
/	/	/	/	/

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
**Leeds and the
Thousand Islands**

1233 P
Lansdown

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Feb 5/19 TIME: 8:40 AM STAFF: [Signature]

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 32

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins on Active Face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 9/19 TIME: 8:30 Am STAFF: Amy Pappkwell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Birds & Coops

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 86

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes

DETAILS: _____

COMPLAINTS RECEIVED:

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0



DATE: Feb 12th / 14 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>By fences,</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:04</u>	<u>ART Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>10:00</u>	<u>ART Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:50</u>	<u>ART Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 25

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 16/11 TIME: 4:00 am STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Saw that the road conditions were not safe
went to get truck #39 and sorted, cleaned up
waste site at 9:00am

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:30 am</u>	<u>Art Morrow</u>	<u>House hold</u>	<u>T/L</u>	<u>Yes</u>
<u>11:30 am</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 19 / 19 TIME: 8:15 AM STAFF: amy Poppewell

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	_____
Other:	Yes / <u>No</u>	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
4:02 pm	? Construction ^{Company}	Tallow not from township

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 42

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: Bins @ Active Face

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 23/19 TIME: 8:20 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Birds, Coons, Cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:32</u>	<u>Marrow</u>	

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:32</u>	<u>Marrow Cartage</u>	<u>Household/Recycle</u>	<u>20 bags</u>	<u>Yes</u>
<u>11:57</u>	<u>Marrow Cartage</u>	<u>Household/Recycle</u>	<u>20 bags</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 89

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: ~~Landfill~~

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Disc a Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Tues Feb 21/14 TIME: 8:20am STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Birds cats

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 34

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sat March 24/19 TIME: 8:00 AM STAFF: RUSTIN JACKSON

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No _____
 Windblown Litter: Yes / No _____
 Leachate Springs: Yes / No _____
 Animals: Yes / No Cat, Birds _____
 Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45 AM	Art Morrison	various household	1 T/K	Yes
11:59 AM	Art Morrison	household	T/K	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 86

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 5/19 TIME: 8:20 AM STAFF: Amy Popplawell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

frozen
spent over an hour picking up and separating
Cats and coon's visible

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Continue to pickup litter and keep site safe and clean. Truck was cleaned of clutter. Fire extinguisher was hung. Garbages were all emptied. Picked up around

REJECTED LOADS:

bins that were delivered today

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:01 AM</u>	<u>marrow</u>	<u>household & Recycling</u>	<u>10 bins</u>	<u>Yes</u>
<u>10:10 AM</u>	<u>marrow</u>	<u>household & Recy</u>	<u>2 large waste</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: 30

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bins & litter pickup on regular basis

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: No Application needed, Snowed to help with ice.

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: site is relatively clean and safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____





DATE: March 10/19 TIME: 8:10 AM STAFF: Applewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

Some from Active face + around bins
birds, cans & cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

picked up litter while watching & talking with customers for most of the morning. 2 full garbage bags worth, emptied garbage cans.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:37	Norow	Waste + Recycling	20 bags +	Yes
11:32	Norow	" "	20 bags +	YES
12:38	" "	" "	5 bags	YES

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: [Signature]

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Active face, bins and litter pickup.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Clean and safe, no shrapnel

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 17/19 TIME: 8:30 Am STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No
- Leachate Springs: Yes / No
- Animals: Yes / No Birds
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 32

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0

Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: March 23/19 TIME: 8:22 AM STAFF: Amey

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

around Bins and Active face.

Birds, COOKS & Cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter around bins, some still frozen in.
roughly an hour while tending to customers

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:22 AM	Morrow	garbage & Ryc	10 + 8	Y
10:54 AM	" "	" "	8 + 6	Y
11:56	" "	" "	17 + 8	Y

TOTAL COUNT OF HOUSEHOLD USERS: 72

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: pick up and sent to Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Tuesday 19/11 TIME: 6:20 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

127 Bns and fence

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 59

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sat March 30 / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>Running all day</u>
Windblown Litter:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>By fences</u>
Leachate Springs:	Yes / <input checked="" type="checkbox"/> No	
Animals:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="checkbox"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:20 AM</u>	<u>Art Moller</u>	<u>household waste</u>	<u>T/K</u>	<u>Yes</u>
<u>10:40 AM</u>	<u>Art Moller</u>	<u>household waste</u>	<u>T/K</u>	<u>Yes</u>
<u>12:00 PM</u>	<u>Art Moller</u>	<u>household waste</u>	<u>T/K</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 66

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 2/19 TIME: 8:30 AM STAFF: Amy Papplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

Starting to build in ditched areas from well
around disposal bins & area

Birds, cats n coon

RECOMMENDED ACTIONS / ACTIONS TAKEN:

picked litter for over 2 hours today between chatting
with customers and making room in bins

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
1046 AM	?? Construction	not from township.

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 69

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: recycling to bins

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins & active face.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 10/19 TIME: 8:10 AM STAFF: Amy Poppeauell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="checkbox"/> / <input checked="" type="checkbox"/>	<u>ditches</u>
Windblown Litter:	<input checked="" type="checkbox"/> / <input type="checkbox"/>	<u>surround bins & ditches</u>
Leachate Springs:	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
Animals:	<input checked="" type="checkbox"/> / <input type="checkbox"/>	<u>Birds & coons</u>
Other:	<input checked="" type="checkbox"/> / <input type="checkbox"/>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Ditches are full of water and garbage to wet
to clean up. Keeping bins empty is the key to cleanliness

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:42 AM</u>	<u>ART morrow</u>	<u>Garbage & Recycling</u>	<u>10 bags each</u>	<u>Yes</u>
<u>11:41 AM</u>	<u>ART "</u>	<u>" "</u>	<u>8 G - 4 Ryc.</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 118

AREA OF WASTE DISPOSAL: All waste sent to active face: /
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: /
DETAILS: Bins & active face

APPLICATION OF DUST SUPPRESSANT: Yes /
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: /
DETAILS: _____

COMPLAINTS RECEIVED: Yes /
If YES, Complaint File Number (s): _____

SIGNATURE: *Amy Poppeauell*

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 17/19 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

By fences

Leachate Springs: Yes / No

Animals: Yes / No

Birds

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleared up Ponded water in the wood pile area
last week.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 36

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 13 / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No BY fences

Leachate Springs: Yes / No

Animals: Yes / No CATS, BILLS

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned around buildings

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
7:30 AM	Air Mellow	household waste	T/L	Yes
11:00 AM	Air Mellow	household waste	T/L	Yes
12:11 A	Air Mellow	household waste	T/L	Yes
1:25 PM	Air Mellow	household waste	T/L	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 112

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 17/20 TIME: 8:50 AM STAFF: Hopple

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Ditches

Ditches n bins

Birds n coons n cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

picked up metal all around bin area and wind
blown litter around driving area

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10:30 am	Art Morrow	garbage + Recycling	10 bags ea.	Yes
2:54 pm	Andrews 2 axle	brush + leaves	full	Yes
3:40 pm	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 37

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Active face + bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Hopple

OFFICE USE:

Date Reviewed: _____

Reviewer: _____

File Number: _____



DATE: April 20/19 TIME: 8:15 Am STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>ditches flooded.</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>around bins & ditches</u>
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>COONS, birds & cats</u>
Other:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:20 Am</u>	<u>? N/A</u>	<u>Not from township</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:02 Am</u>	<u>Morrow</u>	<u>Garbage & Recycle</u>	<u>10 + 10</u>	<u>Y</u>
<u>11:16 Am</u>	<u>" "</u>	<u>" "</u>	<u>12 + 7</u>	<u>Y</u>
<u>12:21 pm</u>	<u>" "</u>	<u>" "</u>	<u>8 + 16</u>	<u>Y</u>

TOTAL COUNT OF HOUSEHOLD USERS: 81

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins & Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 23rd / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

By fences and bins

Birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up garbage by bins and built up

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 81

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 27th / 19 TIME: 8:30am STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Rain for 2 days</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>By bins and border of dump</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up plastic by plastic bin for 1 hour

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

James came in, talked about clean up around the waste site and improving the road.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45am</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:30am</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>1:00pm</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 77

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 30/19 TIME: 8:30 AM STAFF: Applewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

ditch a low area

Leachate Springs: Yes / No

Animals: Yes / No

Birds + coons + cats

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Spent 2-3 hours picking up trash around bins and ditch line. 6 garbage bags returned to active face.
* Paving a Driveway area Graded and Gravel added *

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 58

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Setup 4 bins Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Place got lots of compliments for cleanliness today! 😊

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Applewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 4/19 TIME: 8:10 AM STAFF: Amy Papplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Just from rain pile up / ditches + low areas

along bush lines & ditches

birds, cans & cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45 AM	Morran	garbage + recycling	15 + 10	Yes.
11:27 AM	" "	" "	11 + 9	Yes.
12:43 PM	" "	" "	10 + 12	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 99

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bins & active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: waste site is becoming cleaner & dry (acknowledged)

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Papplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Mar 7/19 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Raining</u>
Windblown Litter:	Yes / <input checked="" type="radio"/> No	
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 48

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 11th / 19 TIME: 8:30am STAFF: Destin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

By fences

Leachate Springs: Yes / No

Animals: Yes / No

Birds, cats

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
8:30am	Art Mallow	household	T/L	Yes
9:40am	"	"	"	"
11:25am	"	"	"	"
12:45pm	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 112

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 19/19 TIME: 8:10 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>much rain recently - Ditches</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Along fences</u>
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Cats, crows, birds</u>
Other:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up around office as it rained most of the day

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 72

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins on Active Face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: waste site is clean and mostly stable - not too muddy

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 18/19 TIME: 8:25 Am STAFF: [Signature]

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>heavy rainfall lately</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>around active face + ditches</u>
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>COOPs, cats, birds</u>
Other:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned & raked up around trailer and old shed. Approx 12 bags & recy. mopped & cleaned inside replaced desk with one brought in.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>11 10 Am</u>	<u>? older Cella</u>	<u>No proper tarp/throwaway fit and left.</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:46 Am</u>	<u>Morrow</u>	<u>waste + Ryc.</u>	<u>10 + 10</u>	<u>Yes</u>
<u>11 24</u>	<u>" "</u>	<u>" "</u>	<u>15 + 12</u>	<u>Yes</u>
<u>12 37</u>	<u>" "</u>	<u>" "</u>	<u>12 + 10</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 92

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: face + Bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: cleanish and safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 21 / 19 TIME: 8:30 AM STAFF: Destin Fickson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No _____
 Windblown Litter: Yes / No _____
 Leachate Springs: Yes / No _____
 Animals: Yes / No P.105 _____
 Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up by bus

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 54

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 25th / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45 AM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:30 AM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>12:45 PM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 93

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: May 28/19 TIME: 8:20 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>ditches + low areas (north of recent rain)</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>ditches mostly</u>
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds, cats n coon</u>
Other:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

when bins are emptied on time the wind blown litter is minimized.
spent close to ^{an hour} picking up around parking area. Rained
most of the day.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 41

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Active face + Bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: June 1/19 TIME: 8:30 AM STAFF: Amy Popplavell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Animal torn / parking area

Coons, cats & birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked driving + turning area free from Animal torn trash + windblown litter.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:50 am	Morrow	garbage + recycle	10 + 15	Yes
11:51 am	morrow	" "	10 + 10	Yes
12:32 pm	morrow	" "	5 + 2	Yes.

TOTAL COUNT OF HOUSEHOLD USERS: 89

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins on active face.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: site is clean and safe for

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE:

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: June 4th / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, Raccoons

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 53

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: June 8th / 19 TIME: 8:30am STAFF: Rustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No None

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Birds, racoon

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45am	Art Morrow	household	T/L	Yes
11:20am	Art Morrow	household	T/L	Yes
1:00pm	Art Morrow	household	T/L	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 89

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: June 11/19 TIME: 8:05 AM STAFF: [Signature]

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>windblown or animal spread.</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, coon, & cats.</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

note 3 load of 10 or more garbage bags left outside the gate. noticed upon arrival. Raked gravel level ground dump shock. Now there's no tripping hazard!

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 62

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: N/A

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is a mess. will spend morning picking up trash that's been spread about.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: June 15/19 TIME: 8:30 Am STAFF: Amy Pappewell

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds, coons, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

2 wrong recycle bins (cardboard + plastic). Dave from Manco informed me mid week this was going to happen.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:36am</u>	<u>Art morrow</u>	<u>Garbage + Recycle</u>	<u>15 + 12</u>	<input checked="" type="checkbox"/>
<u>11:32am</u>	<u>" "</u>	<u>" "</u>	<u>10 + 10</u>	<input checked="" type="checkbox"/>
<u>12:47</u>	<u>" "</u>	<u>" "</u>	<u>14 + 10</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 97

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: Active face + Bins

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: Amy Pappewell



DATE: June 16/19 TIME: 5:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up 3 bags around bins and stack

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: 47

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: JUN 22/14 TIME: 8:30 AM STAFF: AUSTIN JACKSON

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No
- Leachate Springs: Yes / No
- Animals: Yes / No Cats, Birds, Rabbits
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:51	41 + MOWEN	household	T/K	<input checked="" type="radio"/>
11:57	"	"	"	"
2:50	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 89

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): Big mud pit that everyone had to drive through, etc

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 25/19 TIME: 8:10 AM STAFF: Angy Popplewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

garbage ripped open and dragged about

Leachate Springs: Yes / No

Animals: Yes / No

coons, cats + Birds

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Spent an hour in am cleaning up + raking garbage.

fresh gravel spread through out parking/bin area.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10:10 AM	Art	Garbage + Key	10 2	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 68

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site cleaned + safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Angy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: June 29/19 TIME: 8:15 Am STAFF: Amy Poplewell

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No
- Leachate Springs: Yes / No
- Animals: Yes / No Birds + Cats + Coons
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

picked up some litter and area around face + bins
New gravel laid down + Bins moved lots of compliance
all day!!

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10:11	Art morrow	garbage + Recy.	15 - 12	<input checked="" type="checkbox"/>
11:35	" "	garbage + "	20 - 20	<input checked="" type="checkbox"/>
12:16	" "	" "	18 - 10	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 122

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: Bins + Active Face

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: Site is in great shape and clean.

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]



DATE: July 2nd 19 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	Yes / <u>No</u>	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds</u>
Other:	Yes / <u>No</u>	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:24am</u>	<u>Theodore Batsou</u>	<u>household cleanup</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 57

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If YES, Complaint File Number (s): _____

SIGNATURE: _____



DATE: Sat Jul 6/19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Birds

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Found it hard to breathe in the shack when it's hot
and Mutek out of the shack outside was also bad

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:35 AM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:30 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:40 PM</u>	<u>120 \$ ticket</u>	<u>household</u>	<u>Ticket load</u>	<u>Yes</u>
<u>1:08 PM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 106

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 9/19 TIME: 8:20 AM STAFF: Amy Popplawell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Scattered throughout

Coons + Birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

1 unit extremely sick today and didn't do cleanup.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 44

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: Active face

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Yes and Active face

APPLICATION OF DUST SUPPRESSANT: Yes No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): about bins being full but after explaining ppl seem ok.

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 13/19 TIME: 8am STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	_____
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45am	Art marrow	garbage + Recyc.	5 4 10	Yes
11:30	" "	" "	7 + 7	Yes
12:43	" "	" "	* 20+	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 147

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bars, active face & Pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Place is safe but could use some cleanup

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 16th / 19 TIME: 8:30 am STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>By Bins</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter by bins

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 54

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____ 

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: JULY 20th/19 TIME: 8:30 am STAFF: Destin Truica

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Cats, Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Stack is too HOT to stay in and can barely
breathe. Think heater is still on but went
turn off

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:40</u>	<u>Art</u>	<u>household</u>	<u>T/L</u>	<u>GS</u>
<u>11:30</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:40</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 108

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 23/19 TIME: 8:20 am STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

around active face a Plastic Lin.
Birds + cats + coons

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up work trailer from being moved (disaster).
flattened boxes in cardboard bin to make more room &
possibly manageable.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45</u>	<u>AM</u>	<u>household</u>	<u>TL</u>	<u> </u>
<u>11:30</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:30</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 246

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Active face & Pines

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean and safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 27/19 TIME: 8:15 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes No

Windblown Litter: Yes No

Leachate Springs: Yes No

Animals: Yes No

Other: Yes No

Description / Location

Around face & bins

Cats, coons & Birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up around cardboard / Plastic + Paper bin
(17) garbage cans full. most recyclable. took roughly
30 mins while directing & meeting customers.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Small fire started. I reported it. kept watch
and the Public works boys showed up & put it out. ☺

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10:12	Morrow	Garbage + Recycle	10 + 14	✓
11:29	" "	" "	13 + 11	✓
12:15	" "	" "	4 + 7	✓

TOTAL COUNT OF HOUSEHOLD USERS: 11

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Active face & bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: JULY 30th / 19 TIME: 8:30 AM STAFF: Justin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds, cats, rodents</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:11</u>	<u>?</u>	<u>109 size was over 4"</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>12:15</u>				

TOTAL COUNT OF HOUSEHOLD USERS: 62

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 3/10 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No _____
- Windblown Litter: Yes / No _____
- Leachate Springs: Yes / No _____
- Animals: Yes / No Rovers, cats, BIRDS
- Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up by the bins!

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:11</u>		<u>1</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00 AM</u>	<u>Art Morrow</u>	<u>household waste</u>	<u>T/L</u>	<u>Yes</u>
<u>11:44 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>1:03 PM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 99

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 6 / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Raccoons, Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned around tracks and bins

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00</u>	<u>ABC</u>	<u>Construction</u>	<u>10</u>	<u>Yes</u>
<u>11:00</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:00</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 671

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 10/1999 TIME: 8:30am STAFF: Ally Poppe

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes/ No
- Windblown Litter: Yes / No along take roads + ditches
- Leachate Springs: Yes / No Emp ripped + spread through out
- Animals: Yes / No Cats, domestic Birds
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Monitor site after rains.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Porter Potty has been discussing for weeks, asked the Campbells boys, said yes take care of it. 3x ASKED still a mess No toilet paper

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10 AM	Morrow	garbage + Recycle	12 + 10	✓
11:55	Morrow	" "	10 + 10	✓
1:30	" "	" "	7 + 5	✓

TOTAL COUNT OF HOUSEHOLD USERS: 1247

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + Active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Ally Poppe

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 15/19 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Birds, cats, rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00</u>	<u> </u>	<u> </u>	<u> </u>	<input checked="" type="checkbox"/>
<u>11:30</u>	<u> </u>	<u> </u>	<u> </u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 42

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 17/19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Cats, Birds, Rabbits

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleared up by bins and metal bins

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:30 AM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:30 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:58</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 172

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 20/19 TIME: 8:30 AM STAFF: Popplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

along tall grass, ditches & bins
birds, cats & cans

RECOMMENDED ACTIONS / ACTIONS TAKEN:

* All Litter Cleaned *
Spent first 2 hours cleaning up around bins and face
4 XL garbage bags picked up. Plus tried manually packing
Steel bin unsuccessfully. (to close doors.) Backhoe got it done

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

If others were ordering bins, the cleanup would
be easier on everyone!

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
7:30				
11:30				
12:50				

TOTAL COUNT OF HOUSEHOLD USERS: 150

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins & Active face. Pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 24/19 TIME: 8:30am STAFF: Amy Popplemill

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Along ditches & long grass</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds, coons, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>940</u>	<u>Morrow</u>	<u>garbage & Rec</u>	<u>10 + 7</u>	<u>✓</u>
<u>1150</u>	<u>" "</u>	<u>" "</u>	<u>12 + 9</u>	<u>✓</u>

TOTAL COUNT OF HOUSEHOLD USERS: 109

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site Clean & Safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplemill



DATE: Aug 27/19 TIME: 8:30 AM STAFF: Amy Poppewell

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No along ditches, long grass
- Leachate Springs: Yes / No
- Animals: Yes / No Birds, Coons, cats
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cut grass

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 63

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bins, cans & pick up/manual

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Aug 31 / 19 TIME: 8 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>around bins + tall grass</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, coons + cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned around bins again, garbage pail taken?
picked up nails + screws scattered around metal bin.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
8:39 am	Morrow	garbage + Recycle	7 + 6	✓
10:55 am	" "	" "	10 + 12	✓
12 pm	" "	" "	10 + 10	✓
1:54	" "	" "	13 + 4	✓

TOTAL COUNT OF HOUSEHOLD USERS: 85

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Manual pick up, bins + Active face

APPLICATION OF DUST SUPPRESSANT: Yes No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: overall clean + safe site

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 3/19 TIME: 8:20 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

around ditches + long grass

Birds, coons + cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

tidied up around bins + active face. re-packed metal bin to make more room. Cardboard as well.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>3:20 pm</u>	<u>?</u>	<u>Not from this township</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>11:10</u>	<u>morrow</u>	<u>garbage + bags</u>	<u>10 + 5</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 91

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: pick up + bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: site is clean + safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 7/19 TIME: 805Am STAFF: Jmy Poppleneil

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
 Windblown Litter: Yes / -No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

everywhere this morning
combs, cats, birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

gonna rake main dump area to gather scattered litter

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
905	morrow	garbage + Recyc.	16 + 9	✓
1135	" "	" "	12 + 10	✓
1255	" "	" "	12 + 12	✓

TOTAL COUNT OF HOUSEHOLD USERS: 121

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins Active face, manual pickup.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 16th / 19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>By bins and boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds rodents, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

6-3-12-5-2-12-5-5-5

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>6:55 AM</u>	<u>Lawrence Bishop</u>	<u>Household clean up</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 55

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]



DATE: Sept 14th 19 TIME: 8:30 AM STAFF: DUSTIN JACARSON

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>BY Boundries and bins</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, cats, rodents</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

14-20-11-16-14-5-10-10-4

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:50 AM</u>	<u>Art Nelson</u>	<u>household</u>	<u>712</u>	<u>Yes</u>
<u>11:40 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:50</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 104

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]



DATE: Sept. 17/19 TIME: 8:30 AM STAFF: Amy Poppeurle

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

along ditches + long grass

Birds, cats, + Rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked up and picked up entire driving + parking area + along bins + as well as bin organizing.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 42

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site safe + clean

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Poppeurle

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 21/19 TIME: 8:20 AM STAFF: Amy Poppen

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

along long grass & ditches

Cats, Coons & Rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked around active face & wood/brush areas.
picked up scrap metal & screws & Nails on ground
around bin.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
8:50 AM	ART Morrow	garbage & Recycle	16 + 6	✓
9:40 AM	"	"	12 + 7	✓
12:05 PM	"	"	10 + 10	✓
1:50 PM	"	"	5 + 13	✓

TOTAL COUNT OF HOUSEHOLD USERS: 117

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 24 / 19 TIME: 8:30 AM STAFF: RUSTIN JACHEM

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No Birds, cats
 Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
11:00	Vanderberg	household rubbish	T/L	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 56

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sept 20 / 19 TIME: 8.30 AM STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No Rain
- Windblown Litter: Yes / No by boundaries
- Leachate Springs: Yes / No
- Animals: Yes / No Birds, cats, rodents
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 86

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 1/19 TIME: 8:20am STAFF: Jmy Pappalardo

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No around bins & active face.
- Leachate Springs: Yes / No
- Animals: Yes / No Birds + cats + rodents
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

clean up around bins & active face.
Spent 3 hours cleaning gully, Right of bins &
office. metal bin was falling out back of bin 10 feet or

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

more cardboard was too! had to re-stack to get
doors to close on bins.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 37

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: Site is remotely clean + safe.

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: Jmy Pappalardo



DATE: Oct 5/19 TIME: 8:20 AM STAFF: Amy Peppercorn

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

along ditches + long grass

Cats, coons + rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9 AM	Morrow	trash + Recy.	10 x 10	✓
11:10	" "	" "	10 x 10	✓
1:15	" "	" "	7 x 4	✓

TOTAL COUNT OF HOUSEHOLD USERS: 91

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Peppercorn

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 8th / 18 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

By Boundries

Leachate Springs: Yes / No

Animals: Yes / No

Birds, cats, rodents

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 56

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE:

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 12th/19 TIME: 8:30AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	Description / Location
Windblown Litter:	<u>Yes</u> / No	<u>BY Bandrials</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Cats, rodents, Birds</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:49</u>	<u>Art Morrow</u>	<u>Household</u>	<u>1 T/L</u>	<u>Yes</u>
<u>11:35</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 101

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 15/19 TIME: 8:20 Am STAFF: Applewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No along long grass + Ditches

Leachate Springs: Yes / No

Animals: Yes / No Coons / cats of rodents

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

metal bin was all over ground cleaned that and repacked so doors would close. (1.5 hrs.) picked up loose wind blown trash throughout driving area.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Cameras (maybe hidden) may catch the people that are coming into site during closed hours. Leave mess by going thru garbage

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 53

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is safe & efficient.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Applewell



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 19/19 TIME: 8:20 AM STAFF: Amy Popplewell & Dustin Jackson ^{← morning} ^{← Afternoon}

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

Along long grass & ditches

Cats / coons / rodents / Birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up and set up a "good table" for customers as things were scattered. Picked up around Active face cleaning up windblown litter.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10 AM	Art Morrow	garbage & Recycling	10 + 10	✓
11:45	"	"	10 + 10	✓

TOTAL COUNT OF HOUSEHOLD USERS: 94

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: manual pick up at bins & active face

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is cleanish + safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 22nd/19 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Rain</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>By Bandries</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>BIRDS, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:30am</u>	<u>Art Morrow</u>	<u>household</u>	<u>half T/L</u>	<u>YES</u>

TOTAL COUNT OF HOUSEHOLD USERS: 37

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: _____ TIME: _____ STAFF: _____

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No _____
 Windblown Litter: Yes / No _____
 Leachate Springs: Yes / No _____
 Animals: Yes / No _____
 Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

* Wed 23/19 (Dump closed) Amy spent 8 hours ^{Picking} ~~working~~ up windblown litter and ~~doing~~ cleaning. Several XXL garbage bags.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 26/19 TIME: 8:30am STAFF: Dustin Juchter

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, Rodents, Cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:55	Ag+ Morrow	household	TL	yes
11:25	"	"	"	"
1:05	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 117

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Oct 29/19 TIME: 8:25 am STAFF: Applewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

around bins at active face

coops + cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
940	Art marrow	GARBAGE + Recycling	10 + 10	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 40

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins pick up at active face.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean, safe & efficient.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Applewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Nov 2/19 TIME: 8:35 AM STAFF: Appelwell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

Sorting around office + full ditches.
ditches + bins active face
cons/loads of rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked + cleared around bins + ~~plastic~~ ~~plastic~~ ~~plastic~~
plastic was never packed.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:43am	marrow	Garbage + Recycling	10 + 10	✓
11:52pm	"	"	"	✓
12:3pm	"	"	"	✓

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bins + active face / removal pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: site is clean + safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Appelwell

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Nov 5th / 14 TIME: 8:30 AM STAFF: AUSTIN TUCKER

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>Rain</u>
Windblown Litter:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>BY Bins and bunnies</u>
Leachate Springs:	Yes / <input checked="" type="checkbox"/> No	
Animals:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>Birds cats</u>
Other:	Yes / <input checked="" type="checkbox"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 38

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Nov 9 / 14 TIME: 8:30 STAFF: Dustin Jackson & Amy Popkewitz

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:36</u>	<u>7</u>	<u>Had Stumps</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/C</u>	<u>Yes</u>
<u>11:48</u>	<u>Pcmis green</u>	<u>Arresty Card</u>	<u>T/C</u>	<u>Yes</u>
<u>11:53</u>	<u>Art Morrow</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>1:09</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 93.

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: NOV 23/19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Birds, cats

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>12:30</u>	<u>Black Truck</u>	<u>WOOD WAS OVER 4m</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:47</u>	<u>Art</u>	<u>household</u>	<u>7/6</u>	<u>yes</u>
<u>11:13</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:43</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 109

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Nov 12 TIME: 8:10 Am STAFF: Applewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
 Windblown Litter: Yes / No barrier under New snowfall
 Leachate Springs: Yes / No
 Animals: Yes / No Cats & Coon
 Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Shaded snow roughly 4 hours

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 55

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bar, Active face & manual pickup?

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & well covered 850mm? How to be here?

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Applewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

DATE: Nov 16/19 TIME: 8:05am STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No Along snow banks & ~~parking~~ driving area
- Leachate Springs: Yes / No
- Animals: Yes / No Cats & Coons & Rodents
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Fellow cones in on Saturdays lic# AL11227 want (Black Analanche)
stop or talk. never gives tickets and dumps whatever
he wants.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:40 AM	Narrow	Garbage + Recy.	10 + 10	✓
11:50 AM	" "	" "	10 + 10	✓
11:10 PM	" "	" "	" "	✓

TOTAL COUNT OF HOUSEHOLD USERS: 91

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bins on Active face & annual pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site overall is clean & safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Nov 19/14 TIME: 8:30 AM STAFF: RUSTIN TUCASON

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No
- Leachate Springs: Yes / No
- Animals: Yes / No BIRDS cats
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 37

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Nov 26/2019 TIME: 8:10 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / ~~No~~

Windblown Litter: ~~Yes~~ / No

Leachate Springs: Yes / ~~No~~

Animals: Yes / ~~No~~

Other: Yes / ~~No~~

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up around bins

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Five full loads leaves & loads brush

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 62

AREA OF WASTE DISPOSAL: All waste sent to active face: ~~Yes~~ / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / ~~No~~

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / ~~No~~

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: ~~Yes~~ / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / ~~No~~

If YES, Complaint File Number (s): _____

SIGNATURE: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

DATE: Nov 30/19 TIME: 8:10 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Not had. little along ditches

Leachate Springs: Yes / No

Animals: Yes / No

Birds + rodents

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:32	Art Morrow	trash + Rec	10 + 10	✓
11:12	" "	" "	10 + 10	✓
12:22	" "	" "	10 + 10	✓

TOTAL COUNT OF HOUSEHOLD USERS: 81

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins, Active face, manual pick up.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is cleanish and safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 3/19 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 29

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 7/19 TIME: 8.30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No
- Windblown Litter: Yes / No
- Leachate Springs: Yes / No
- Animals: Yes / No Birds caws
- Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:41	Art Mallow	household	1 T/L	Yes
11:33	"	"	"	"
12:49	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 89

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 10/19 TIME: 8:30 Am STAFF: Applemill

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Description / Location

trash is spread throughout site and
where
Birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Spent hours picking up the mess to maintain
a clean and safe work place.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 43

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins & Active face + manual pick up.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site was a mess upon arrival - trash & bins spread
throughout:

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 14/19 TIME: 8:30am STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>ditches</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>by Active face and back ditches</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Coons & Cats Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

clean up along back ditches, raked out some gravel that was piled up from being back dragged, adjusted metal in bin to make for safe moving of bin.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

trenching water away from driving areas has been beneficial in keeping the mud down & customers happy - lots kept it!

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:12	morrow	garbage & Recycle	10 + 13	✓
10:33	"	"	12 + 9	✓

TOTAL COUNT OF HOUSEHOLD USERS: 760

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins & active face & manual pickup & crush.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is safe & organized.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 17/19 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	Yes / <u>No</u>	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

everything was frozen in to the ground
-11°

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 26

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 21/19 TIME: 8:30 AM STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No FROZEN

Windblown Litter: Yes / No FROZEN

Leachate Springs: Yes / No _____

Animals: Yes / No Birds, cats

Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up walk ways from snow and ice so
people can walk safely

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:50	ART Morrow	household	T/K	Yes
12:02	"	"	"	"
1:31	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 89

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: Picked up litter by shack

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: too cold

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 24/19 TIME: 8:40 AM STAFF: Amy Pappewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

frost
snow covered if frozen
No
None visible / Birds only

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned garbage cans and around bins

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>855</u>	<u>monow</u>	<u>garbage & Recycle</u>	<u>7 + 9</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 40

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + active face + manual pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: ground is frozen

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 28/19 TIME: 8:30 am STAFF: Hopplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Not much litter around ditches

Birds + Rabbits

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked up around face + steel bin

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:22	Marrow	garbage + Recycling	10 x 10	✓
11:28	" "	" "	" "	✓
11:30	Tim Nolan	Household	carpet/tiles/curbs	✓
1:02 pm	Marrow	" Recy.	10 x 10	✓

TOTAL COUNT OF HOUSEHOLD USERS: 114

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins, Active face + manual pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean + safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Hopplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Dec 31 / 19 TIME: 8:00 am STAFF: Rustin Tackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Temp was a half day

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 9

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: CCD

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 4th / 20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
 Windblown Litter: Yes / No B.t covered by snow and ice
 Leachate Springs: Yes / No
 Animals: Yes / No Birds, cats, rodents
 Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleared around truck on some time

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Snow all day

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:33 AM</u>	<u>Act Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:42 AM</u>	<u>Act Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>1:14 PM</u>	<u>Act Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 106

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Picked litter up by Shereh

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: none

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

DATE: Jan 7/20 TIME: 830 AM STAFF: Amy Poppleura

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Along Active face / ditches
Birds
[scribble]

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Spent 2 hours picking visible blown litter up
and sent to Active face and paper Recycling bins.
also spent several hours packing bins to make more
room.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 51

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins @ Active face, manual pick up.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: N/A

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 4 TIME: 8:30 Am STAFF: Appenand

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	Description / Location
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>around bins & ditches</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Packed and organized bins to make more room.
1 hr.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45 Am	Art + Karen	Garbage + Regalip	10 + 10	<input checked="" type="checkbox"/>
11:48	" "	" "	10 + 10	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: 78

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: Bins Active face + manual pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: Site is clean + safe. - raining, very muddy.

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: _____

**Appendix I
Site Photos**

2019-04-30

2019-04-30



Photo 1: View of signage and main gate of the landfill.



Photo 2: view of SW4.

2019-04-30

2019-04-30



Photo 3: view of SW7.



Photo 4: view of surface water location SW8.

2019-04-30

2019-04-30



Photo 5: view of surface water station HBI.



Photo 6: view of surface water station HBO.

2019-04-30

2019-04-30



Photo 7: view of SW3.



Photo 8: view of OW8 (background), and BW3 (foreground).

2019-04-30

2019-04-30



Photo 9: view of OW3.

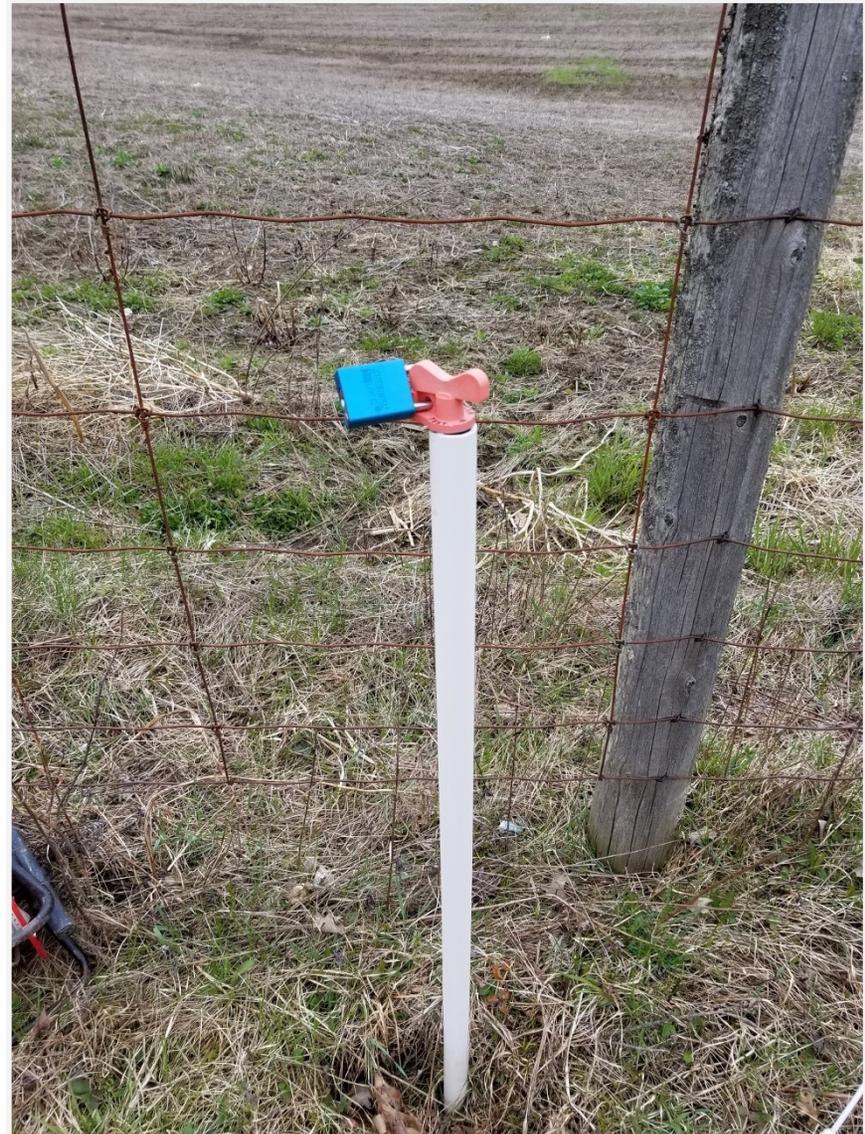


Photo 10: view of OW5.

2019-04-30



Photo 11: view of OW4.

2019-04-30



Photo 12: view of BW4.

2019-04-30



Photo 13: view of OW12.

2019-04-30



Photo 14: view of BW2.

2019-04-30



Photo 15: view of OW7.

2019-04-30



Photo 16: view of OW11R1.

2019-04-30

2019-04-30



Photo 17: view of recycling bins facing southwest.



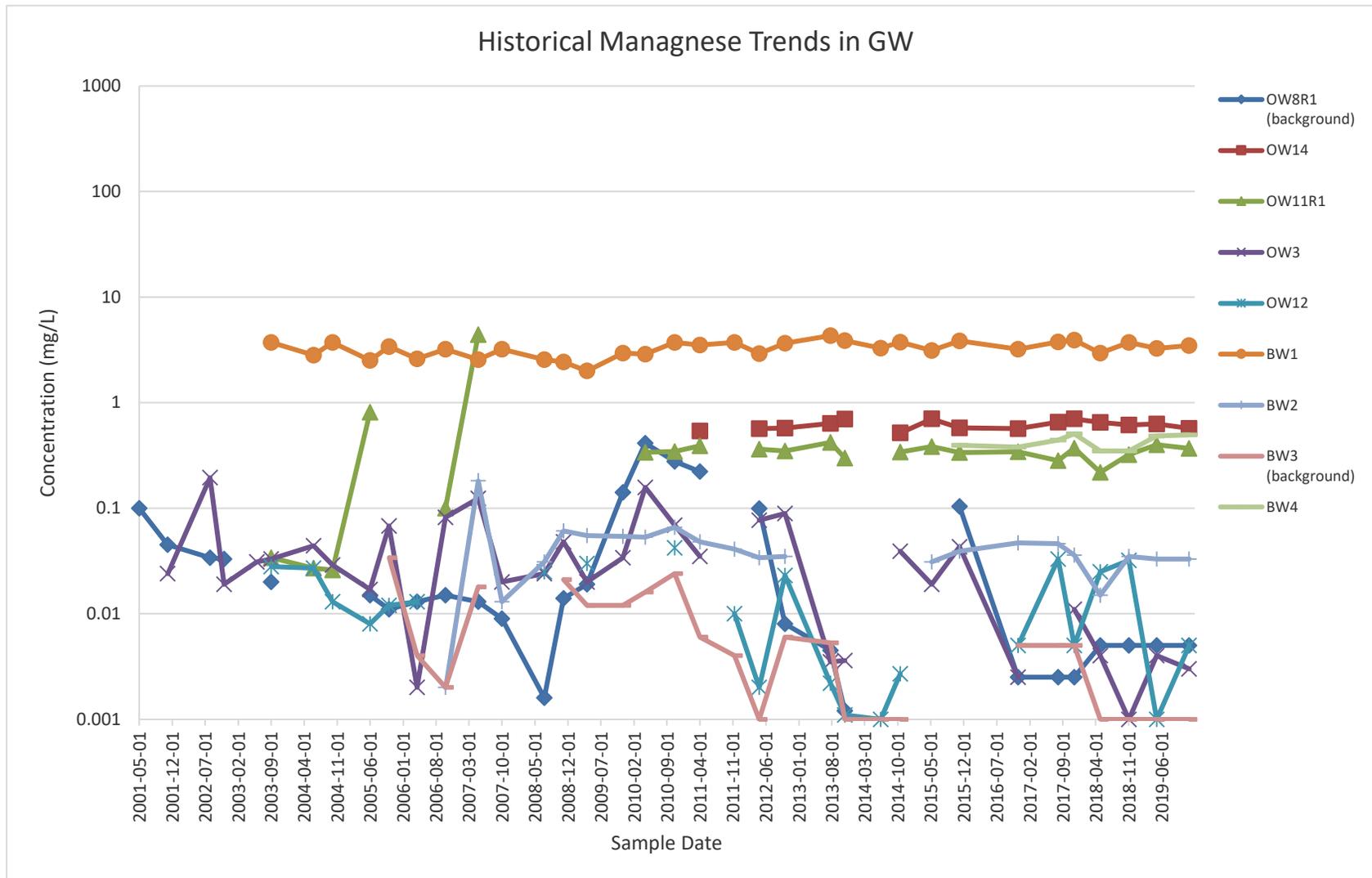
Photo 19: view of waste face looking north.

2019-04-30



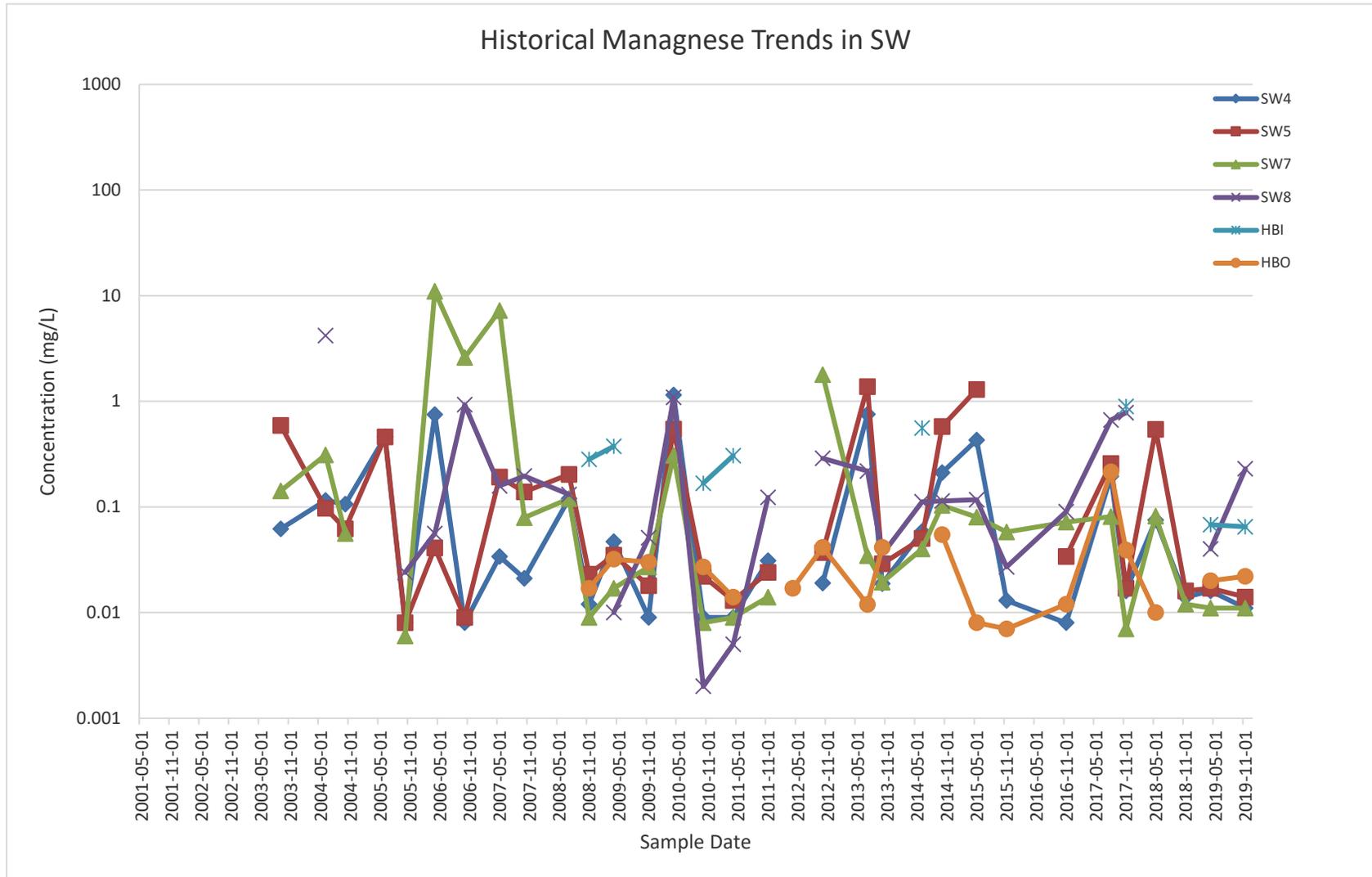
Photo 18: view of attendant shed.

Appendix J
Historical Analyses and Trends



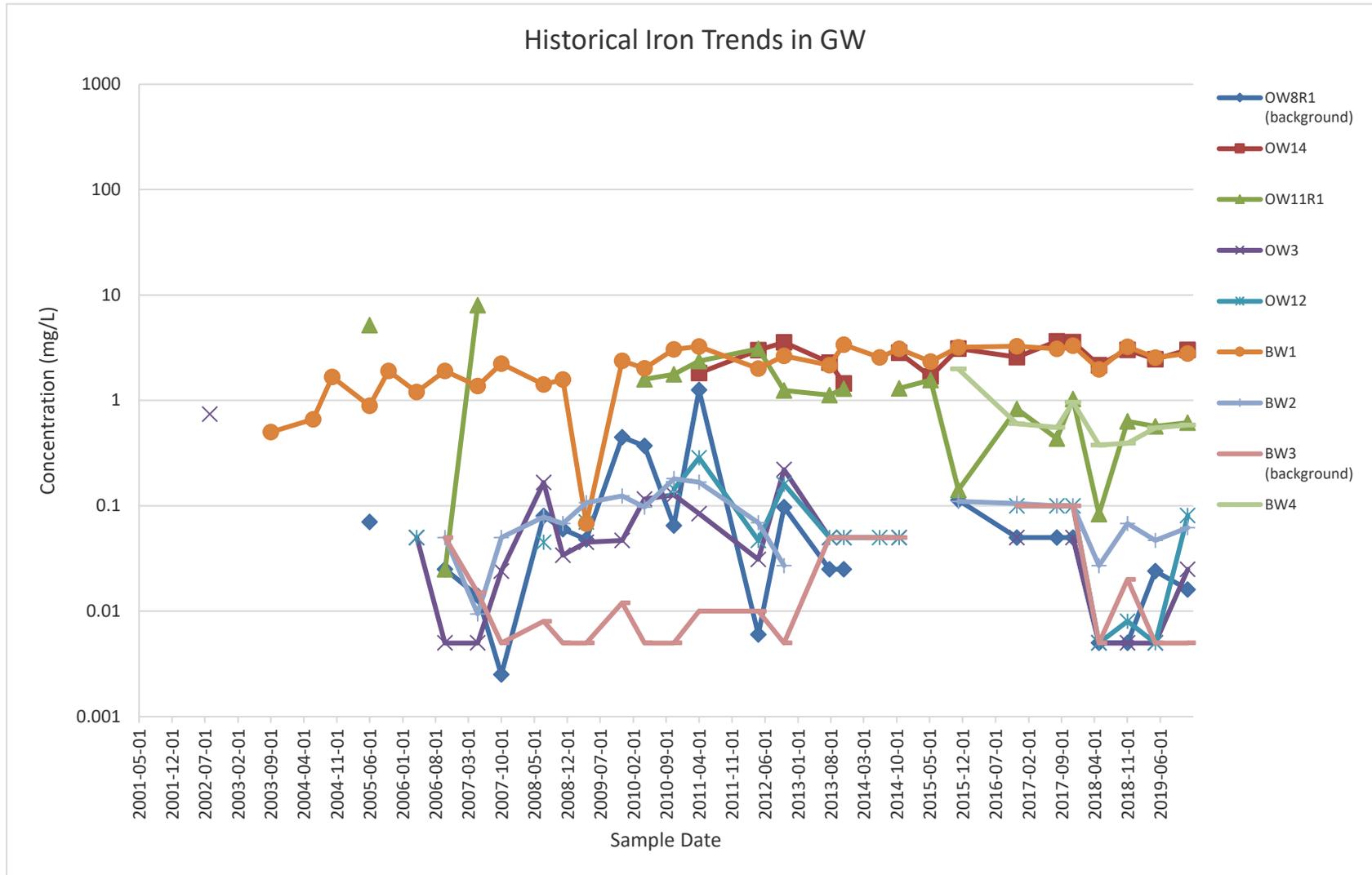
Notes:

- all data prior to and including 2016 was provided by the Township of Leeds and Thousand Islands.
- gaps between points denotes missing data
- when result was less than MDL, MDL value was plotted
- trend graphs provided as an interpretive tool only. Refer to the summary tables for results.



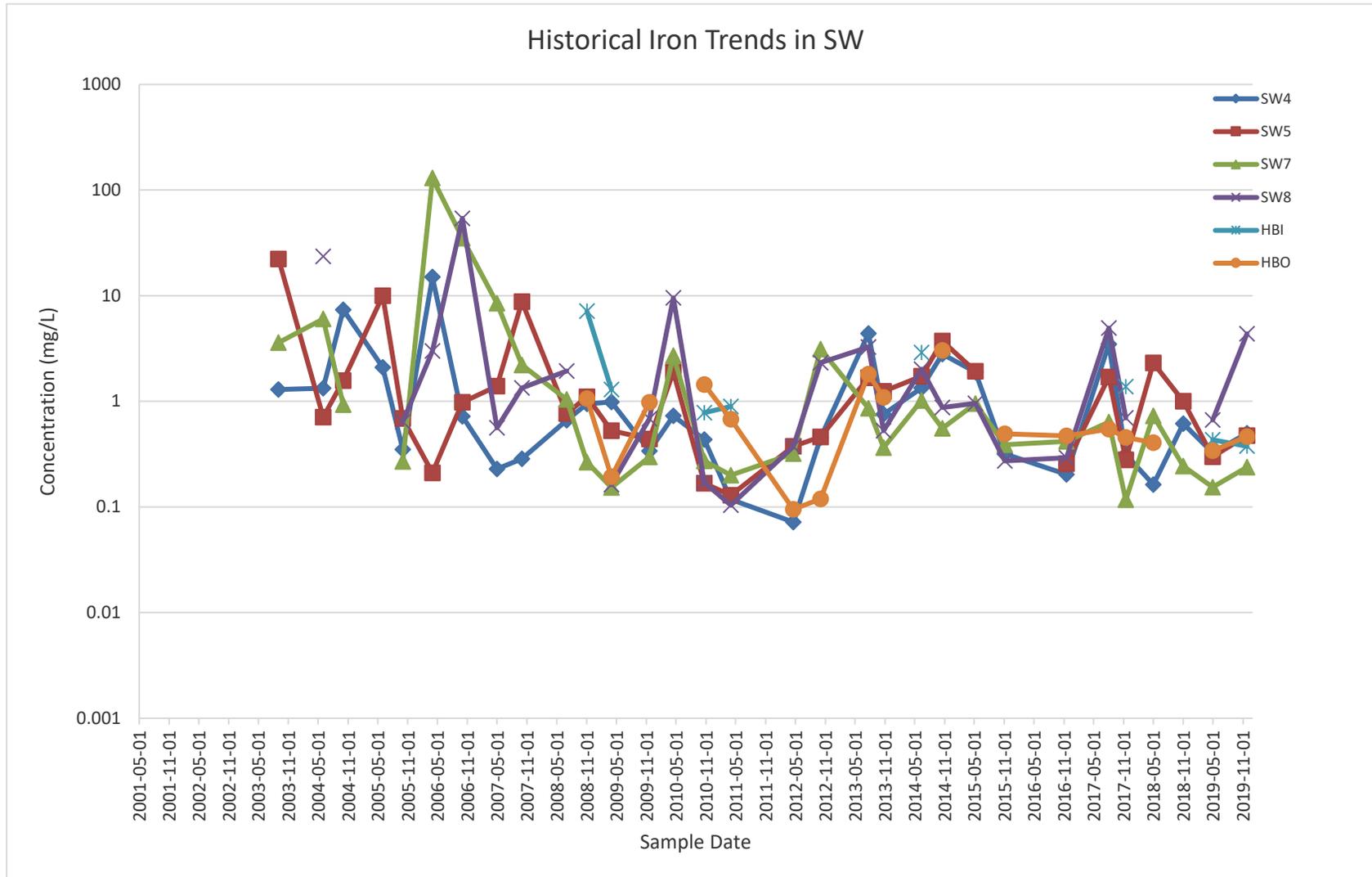
Notes:

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- trend graphs provided as an interpretive tool only. Refer to the summary tables for results.



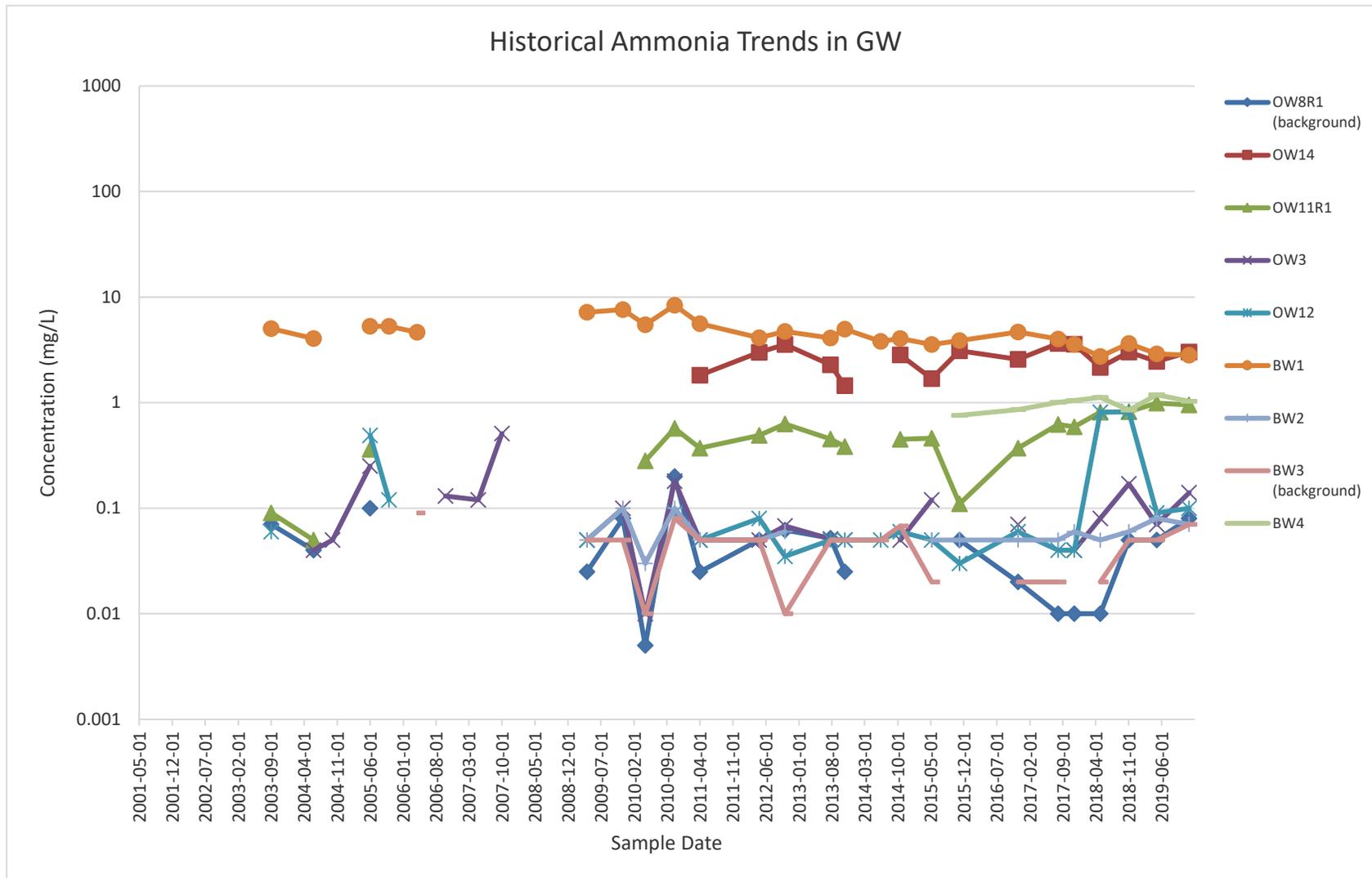
Notes:

- all data prior to and including 2016 was provided by the Township of Leeds and Thousand Islands.
- gaps between points denotes missing data
- when result was less than MDL, MDL value was plotted
- trend graphs provided as an interpretive tool only. Refer to the summary tables for results.



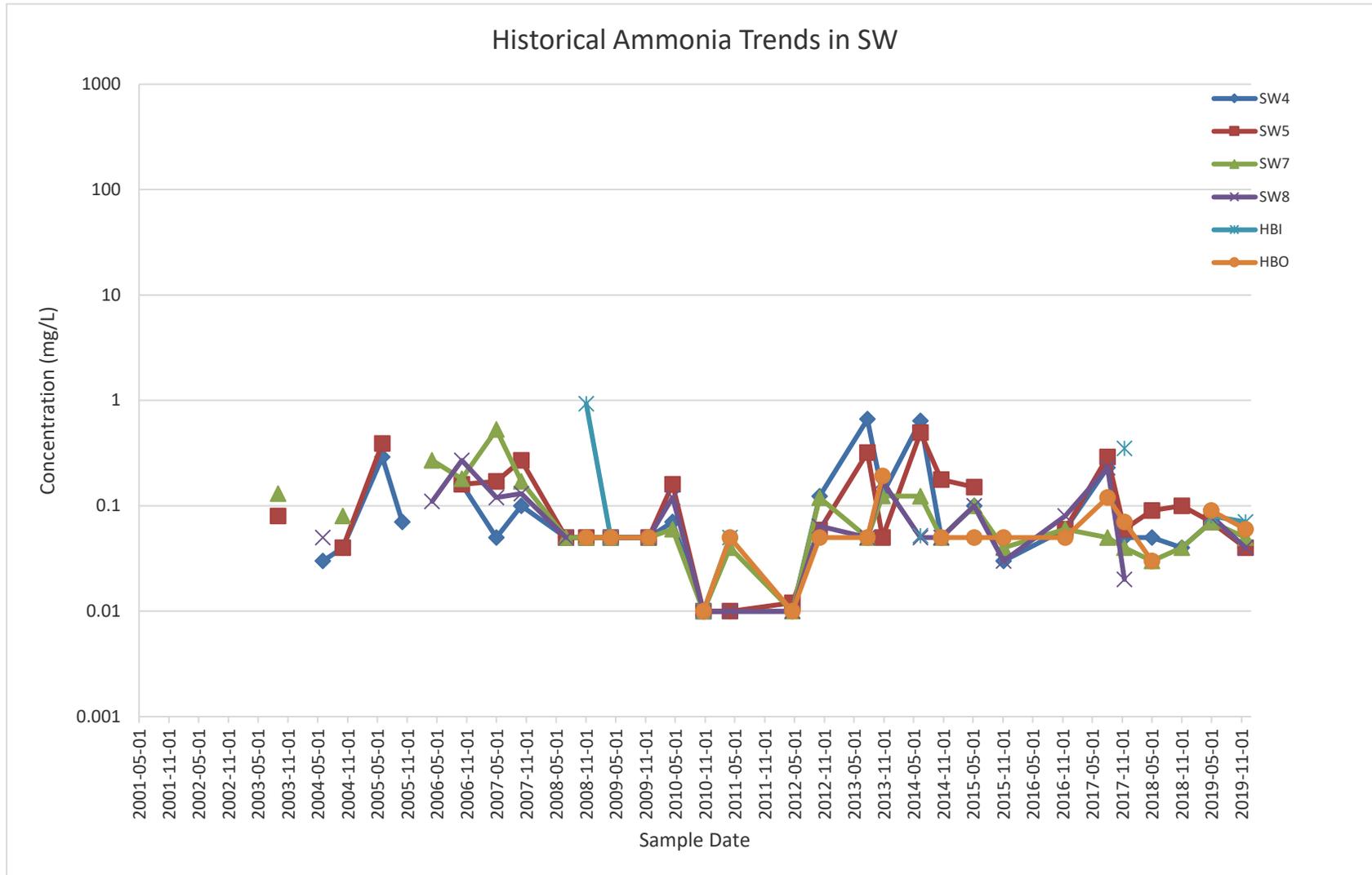
Notes:

- all data prior to and including 2016 was provided by the Township of Leeds and Thousand Islands.
- gaps between points denotes missing data
- when result was less than MDL, MDL value was plotted
- trend graphs provided as an interpretive tool only. Refer to the summary tables for results.



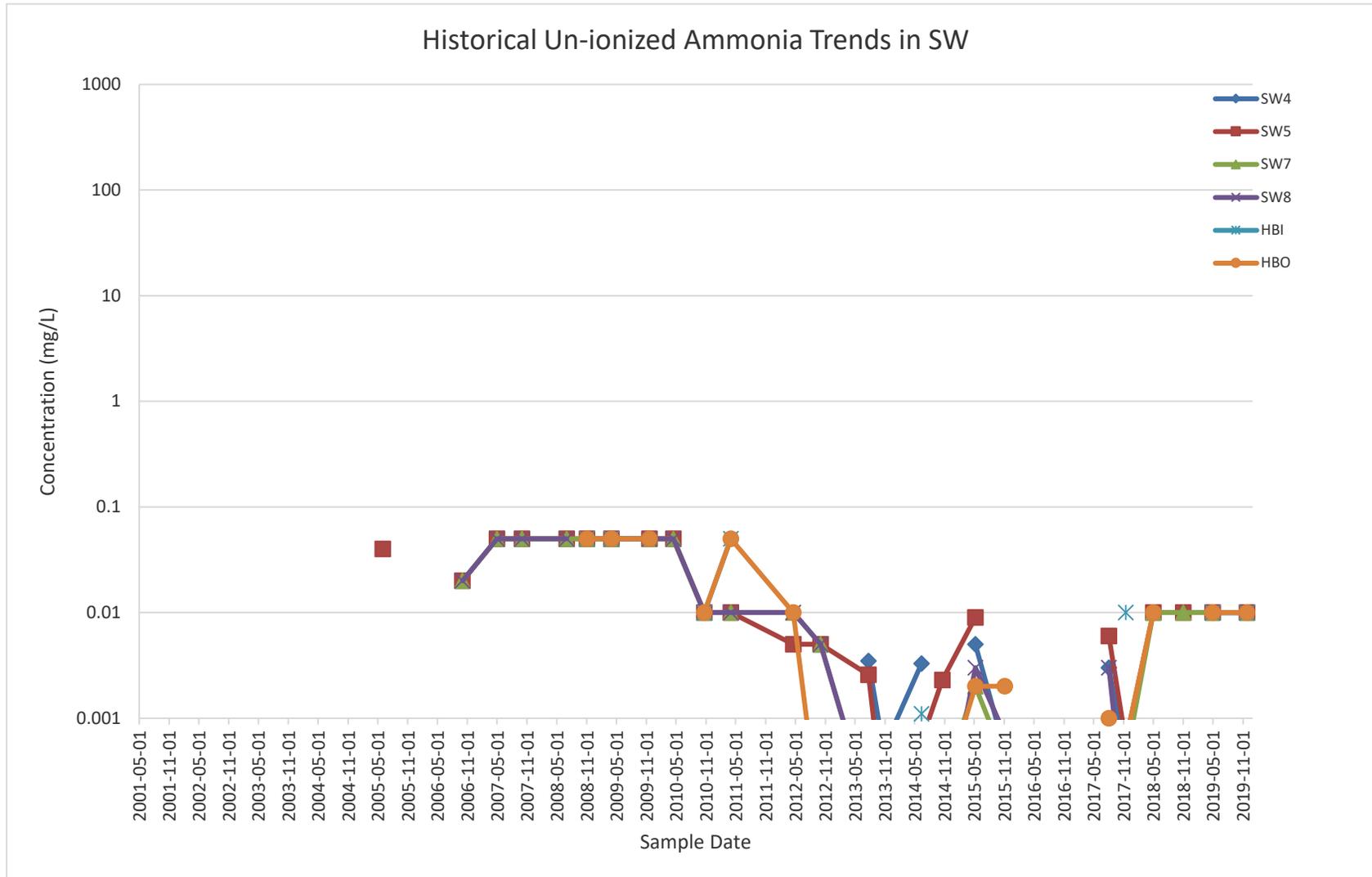
Notes:

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- gaps between points denotes missing data
- when result was less than MDL, MDL value was plotted
- trend graphs provided as an interpretive tool only. Refer to the summary tables for results.



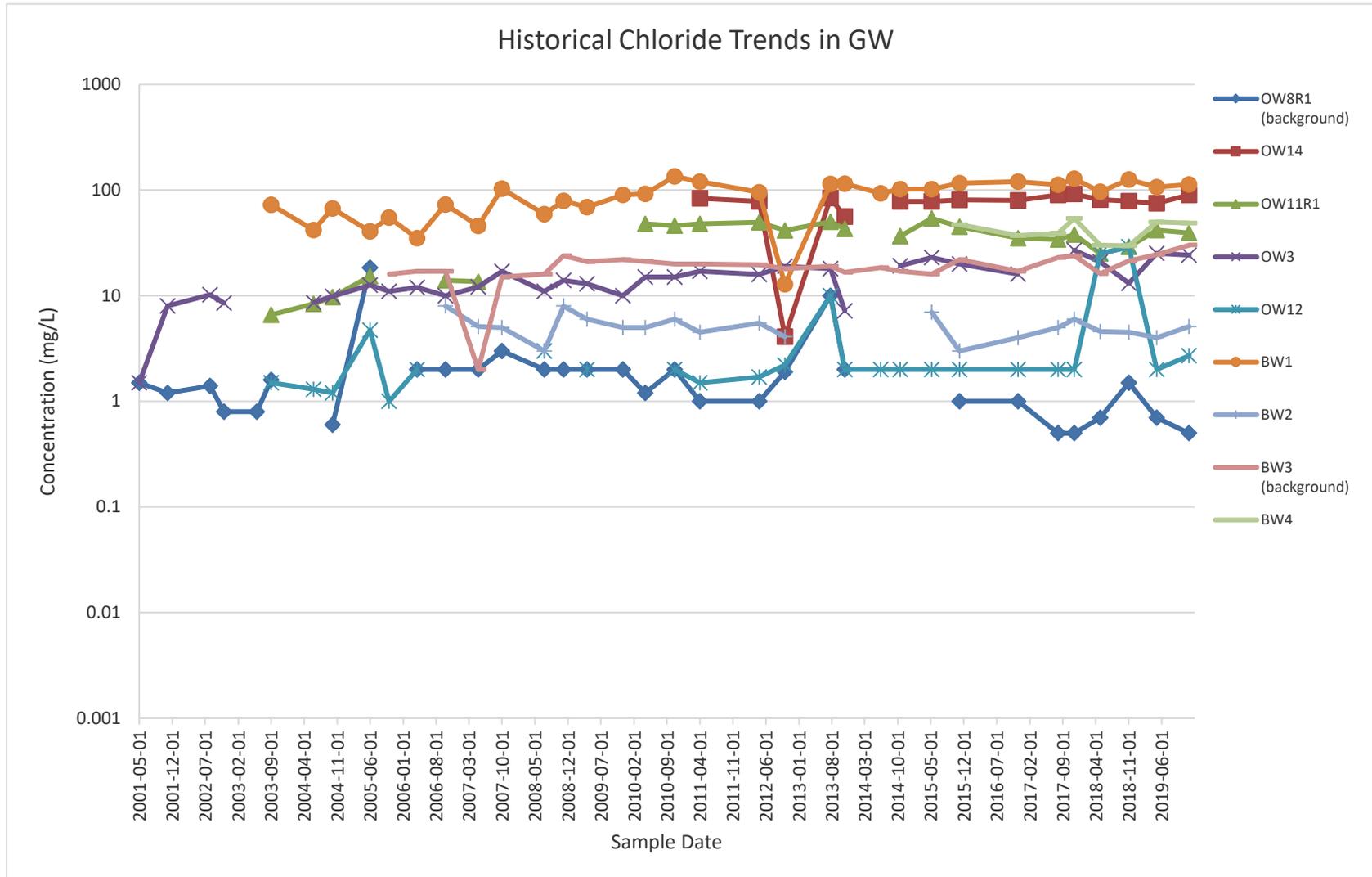
Notes:

- all data prior to and including 2016 was provided by the Township of Leeds and Thousand Islands.
- gaps between points denotes missing data
- when result was less than MDL, MDL value was plotted
- trend graphs provided as an interpretive tool only. Refer to the summary tables for results.



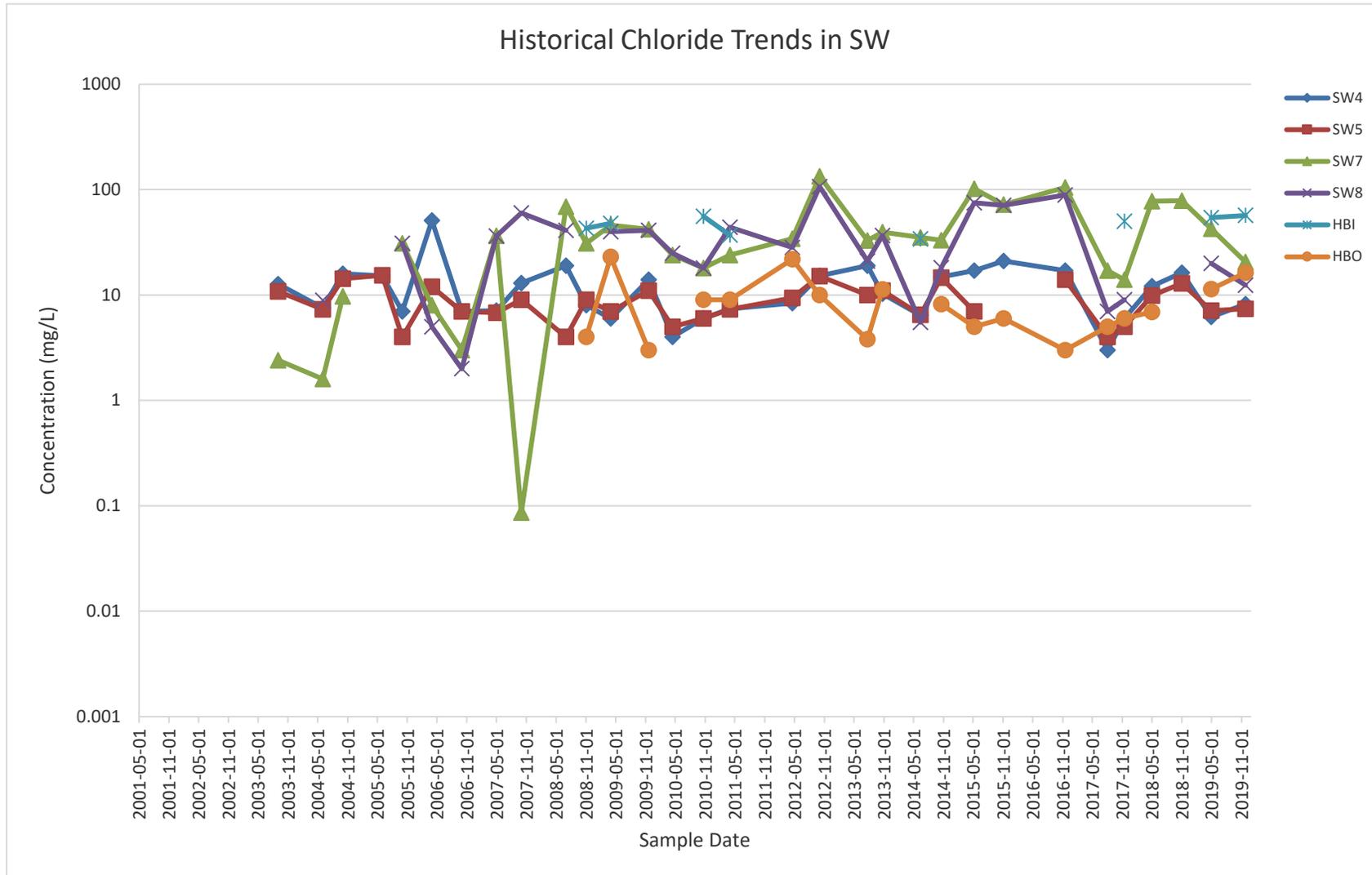
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