



2018 Site Inspection Report

Lockport City Landfill

NYSDEC Site No. 9-32-010

City of Lockport, New York
Department of Public Works

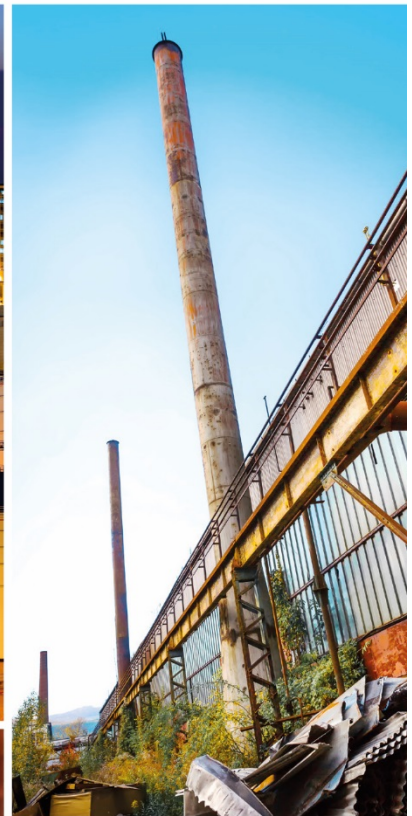
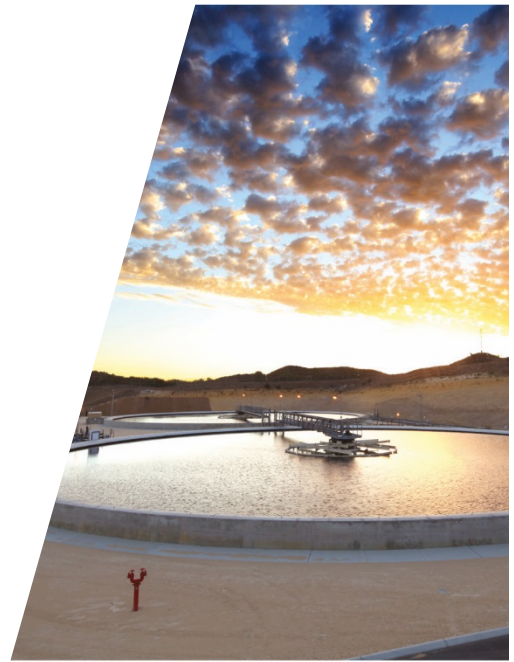




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1. Introduction

The Lockport City Landfill site is located on Oakhurst Street in the City of Lockport, Niagara County, New York. The landfill, assigned the site registry number 9-32-010, is the subject of this report.

The Remedial Action Design for the site included a Long-Term Monitoring Plan and Operation and Maintenance Plan that were approved by the New York State Department of Environmental Conservation (NYSDEC) in March 1994. The purpose of the Long-Term Monitoring Plan is to provide information to evaluate and monitor the long-term effectiveness of the remedial work. The Operation and Maintenance Plan includes site inspections and analytical testing to identify any potential problems at the landfill that are not being adequately addressed by routine maintenance, and to document the current condition of the landfill. A site plan of the Lockport City Landfill is presented on Figure 1. The purpose of this report is to present the findings of the 22nd site inspection conducted at the Lockport City Landfill on October 1, 2018. This is the 2nd landfill monitoring event of the 3rd contract dated February 14, 2017 between GHD Consulting Services Inc. and the City of Lockport. The present contract includes 5 years of service with the last year of service scheduled for 2021.

2. Site Inspection

The following personnel attended a site inspection on October 1, 2018 of the Lockport City Landfill:

- Rolando Moreno, Engineering, City of Lockport (City)
- Chad Johnson, GHD Consulting Services Inc.
- Greg McMahon, GHD Consulting Services Inc.

The completed Inspection Log Sheets for the October 2018 site inspection is presented in Appendix A. The following is a summary of items that were observed during the site inspection:

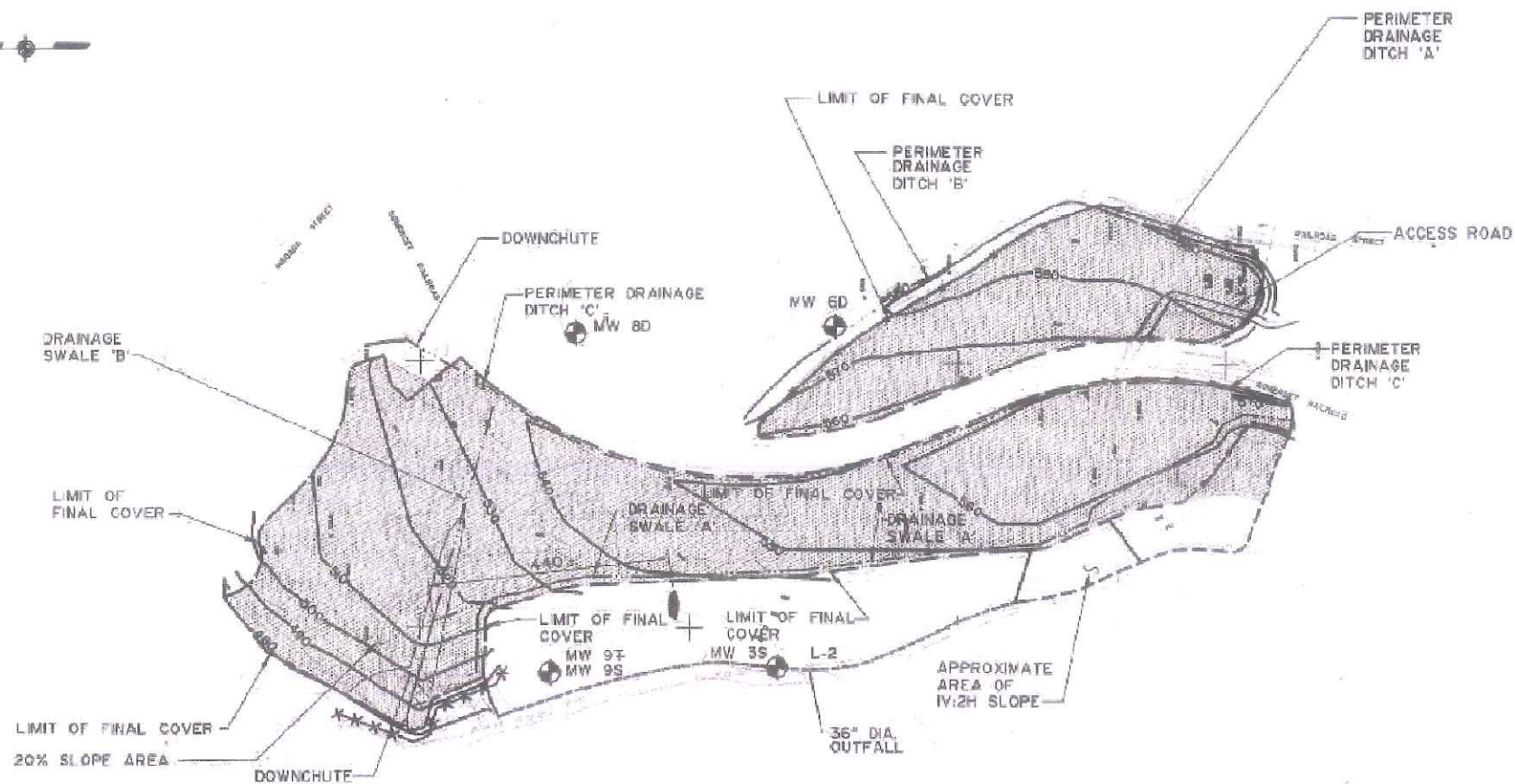
- **Landfill Cap** - Overall, the cap was in good condition with vegetation well established. The landfill was mowed on September 25 as requested and prior to the October 2018 inspection.
- **Perimeter Ditch "A"** - Vegetation is well established and no erosion had occurred during the October 2018 site inspection
- **Perimeter Ditch "B"** - Vegetation is well established and no erosion had occurred during the October 2018 site inspection.
- **Drainage Swale "A"** - As discussed in previous inspection reports, there is a portion of Drainage Swale "A" berm running along the western edge of the landfill cap that had slumped down the west face of the landfill. As reported in 2008, the City of Lockport placed an additional 1 to 2 tons of stone to stabilize the berm in the area of the slump. The stone has remained in place, thus stabilizing the bank and preventing further slumping. The City will continue monitor the area for any further slumping. The City has cut and cleared overgrowth vegetation leaving larger trees intact. The City will maintain trimming of trees



and vegetation to the top of the slope or berm. Evidence of ATV use was found near the fence and downchute. Stone was placed in 2014 by downchute to fill ATV ruts.

- **Drainage Swale "B"** - Vegetation is well established and no erosion noted during the October 2018 site inspection.
- **Perimeter Drainage Ditch "C"** - Ditch C mowed recently, some mower tracks present. Water flowing, no water ponding. A "No Trespassing" sign is intact at the northeast corner to prevent access from All Terrain Vehicles (ATV); however, ATV tracks were still present near downchute. The City plans to clear and regrade a small section of the northeast corner to reduce potential of erosion.
- **Downchute** - Normal growth was present in the downchute and apron areas. The City will monitor the vegetation growth and, if required, will cut back growth further. Install stone in rutted area where runoff is causing erosion. ATVs tracks present and extensive to include deep rutting into the cap. Stone placed to fill rutting. Police enforcement needs to continue.
- **Vegetative Cover** - General cover is well established. Landfill was mowed on September 25, after August 15, and prior to the 2018 inspection. Future mowing needs to be completed after mid-August.
- **Final Cover Layers (Settlement, etc.)** - No standing water or settlement was observed on final cover layers.
- **Steep Slope Areas (West of final cover)** - Trees and grasses present on slope areas.
- **Landfill Gas Vents** - Gas vents were intact and in good condition.
- **Fence** - Fence and vehicle gates in good condition during the October 2018 site inspection.
- **Monitoring Wells** - Historically with the exception of the 2013, 2014, 2015, and 2017 monitoring, well MW-6D has not been sampled in past reporting years due to lack of available groundwater present at the time of sampling. Sampling did not occur in 2016. During the 2018 sampling of monitoring well MW-6D, groundwater was not available to obtain groundwater parameters and sampling.
- **Railroad Crossing** - Railroad crossing is accessible and in good condition.
- **Access Roadway** - Good condition.

Figures



CLIENTS PEOPLE PERFORMANCE

AMHERST, NEW YORK

JOB No.:8612191

LOCKPORT CITY LANDFILL
LOCKPORT, NEW YORK
CITY OF LOCKPORT

FIGURE 1
SITE PLAN

Appendices

Appendix A

Site Inspection Log

APPENDIX A

LOCKPORT CITY LANDFILL - POST CLOSURE NYSDEC SITE NO. 932010

ANNUAL INSPECTION LOG SHEET

Date: 10/1/18

Inspector: Chad Johnson (CFJ)

Weather: Rain/Overcast

Signature: 

51° F

Company: GHD Consulting Services, Inc.

Item Inspected	Maintenance Needed (Y/N)	Comments	Inspector's Initials
Perimeter Ditch A	N	Vegetation is well established and no erosion noted.	CFJ
Perimeter Ditch B	N	Vegetation is well established and no erosion noted.	CFJ
Perimeter Ditch C	N	Ditch C mowed recently, some mower tracks present. Water flowing, no water ponding. A "No Trespassing" sign is intact at the northeast corner to prevent access from All Terrain Vehicles (ATV), however ATV tracks were still present near downchute. The City plans to clear and regrade a small section of the northeast corner to reduce potential of erosion.	CFJ
Drainage Swale A	N	The stone has remained in place, thus stabilizing the bank and preventing further slumping from taking place. Mowing was extended to provide cut back. Evidence of ATV use near downchute. Vegetation well established.	CFJ
Drainage Swale B	N	Vegetation is well established and no erosion noted. ATV tracks present across the swale, creating riviots in the cover.	CFJ
Downchute & Apron	N	Normal growth/woody vegetation present in the downchute. ATVs tracks present, extensive to include deep rutting into cap. Stone placed to fill rutting in previous years; the City plans to place more in the near future. Police enforcement to continue.	CFJ
Vegetative Cover	N	Landfill was last mowed on September 25, 2018. Vegetation is well established and no erosion noted.	CFJ
Final Cover Layers (Settlement, etc.)	N	No standing water was observed on final cover layers.	CFJ
Steep Slope Areas (West of final cover)	N	Trees and grasses present on slope areas.	CFJ
Gas Vents	N	All gas vents were intact and in good condition.	CFJ
Landfill Cap	N	Cap in good condition with vegetation well established.	CFJ
Fence	N	Fence and vehicle gates in good condition. Gates were not locked upon arrival.	CFJ
Other Items: Access Roadway	N	Good condition Could use additional stone and roll to better establish the roadway and improve road stability.	CFJ
Other Items: Railroad Vehicle Crossing	N	Railroad vehicle crossing is accessible and in good condition. If railroad is active, additional signs and measures should be implemented to improve safety for crossing vehicles.	CFJ
Other Items: Monitoring Wells	N	A camera was placed down Monitoring Well 3S in 2012 and found the well to be broken between the riser and screen at approximately 8 feet below the top of casing. No obstruction was encountered during the 2018 inspection.	CFJ

Other Items: Monitoring Wells: Note 2	N	In the past, monitoring well MW-6D has been sampled intermittently due to lack of available groundwater present at the time of sampling. According to the sampling record, sufficient groundwater was present in 2013, 2014, 2015, and 2017, which allowed samples to be taken. During the 2018 sampling, no water was found in the well so no samples were collected.	CFJ
General Notes:	Y	Signs of ATVs throughout the Site. ATV tracks across Drainage Swale B, near center of the landfill cap. ATV tracks also at downchutes along Drainage Swale A and Drainage Swale B, which have created deep ruts in the landfill cap.	CFJ



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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