

REGULAR SITE INSPECTION REPORT

FOR

**OCTOBER 23, 2013
(YEAR - 17)**

**LOCKPORT CITY LANDFILL
NYSDEC SITE NO. 9-32-010**

Prepared For:

**CITY OF LOCKPORT, NEW YORK
DEPARTMENT OF PUBLIC WORKS**

Prepared By:

**GHD CONSULTING SERVICES, INC.
200 JOHN JAMES AUDUBON PARKWAY
AMHERST, NEW YORK 14228**

DECEMBER 2013

PROJECT NO. 8612191



SECTION 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 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 regular 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 17th regular site inspection conducted at the Lockport City Landfill on October 23, 2013. This is the second monitoring event of the second contract between GHD Consulting Services, Inc. and the City of Lockport. The present contract includes 5 years of service.

SECTION 2 - REGULAR SITE INSPECTION

The following personnel attended a regular site inspection on October 23, 2013 of the Lockport City Landfill:

- Norm Allen, City of Lockport
- Brian Sadowski, New York State Department of Environmental Conservation
- Brian Doyle, GHD

The completed Inspection Log Sheets for the October 2013 site inspection is presented in Attachment 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 approximately one month prior to the October 2013 inspection. A road was being constructed for access to the Gulf to repair a sewer. Prior to road construction, rutting was created by sewer repair vehicles. Rutting will require repair.
- **Perimeter Ditch "A"** - Vegetation is well established and no erosion had occurred during the October 2013 site inspection.



- **Perimeter Ditch "B"** - Vegetation is well established and no erosion had occurred during the October 2013 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 of Lockport will continue monitor the area for any further slumping. Overgrowth requires cut back and clearing to tree line. Mowing was extended into this area. Evidence of heavy ATV use was found.
- **Drainage Swale "B"** - Vegetation is well established and no erosion noted during the October 2013 site inspection.
- **Perimeter Drainage Ditch "C"** - A "No Trespassing" sign is intact along the northeast corner of Drainage Ditch "C" to prevent wear from unauthorized vehicles entering the site.
- **Down chute** - 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. ATVs tracks present and extensive to include deep rutting into the cap. Police enforcement needs to be increased.
- **Vegetative Cover** - General cover is well established, some areas included heavy growth which has been cut back by removing the woody vegetation. Landfill mowing was completed 1 month prior to inspection.
- **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. One vent broken near Perimeter Ditch B requires repair.



- **Fence** - Fence and vehicle gates in good condition during the October 2013 site inspection. Fence gates to be chained.
- **Monitoring Wells** - Historically, monitoring well MW-6D has not been sampled due to lack of available groundwater present at the time of sampling. During the 2013 sampling, a sufficient amount of groundwater was available and recovered from monitoring well MW-6D to provide sample volume. If the well was purged, an insufficient sample volume would result. Since this monitoring well has not been sampled for a number of years, the recovered groundwater was adequate for sample volume.



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LOCKPORT CITY LANDFILL
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CITY OF LOCKPORT

FIGURE 1
SITE PLAN

DATE: 12/13 JOB No.: 8612191

ATTACHMENT A
LOCKPORT CITY LANDFILL - POST CLOSURE
NYSDEC SITE NO. 932010

ANNUAL INSPECTION LOG SHEET

Date: 10/23/2013

Weather: Rain

50° F

Inspector: Brian P. Doyle

Signature:

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.	BPD
Perimeter Ditch B	N	Vegetation is well established and no erosion noted.	BPD
Perimeter Ditch C	N	A "No Trespassing" sign intact at the northeast corner to prevent access from All Terrain Vehicles.	BPD
Swale A	Y	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 heavy ATV use near fence and downchute. Ruts are present.	BPD
Swale B	N	Vegetation is well established and no erosion noted.	BPD
Downchute & Apron	Y	Normal growth/woody vegetation present in the downchute. ATVs tracks present and extensive to include deep rutting into the cap. Police enforcement needs to be increased.	BPD
Vegetative Cover	N	Landfill mowing was done 1 month prior to the inspection.	BPD
Final Cover Layers (Settlement, etc.)	N	No standing water was observed on final cover layers.	BPD
Steep Slope Areas (West of final cover)	N	Trees and grasses present on slope areas.	BPD
Gas Vents	Y	Gas vents were intact and in good condition. 1 vent broken near Perimeter Ditch B.	BPD
Landfill Cap	Y	Cap in good condition with vegetation well established. A road was being constructed for access to the Gulf to repair a sewer. Prior to road construction, rutting was created by sewer repair vehicles. Rutting will require repair.	BPD
Fence	N	Fence and vehicle gates in good condition. Fence gates to be chained.	BPD
Other Items: Railroad Vehicle Crossing	N	Railroad vehicle crossing is accessible and in good condition.	BPD
Other Items: Monitoring Wells, Note 1	Y	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. DEC informed City to continue sampling at this well location. Monitoring Well 3S cap to be welded.	
Other Items: Monitoring Wells, Note 2	N	Monitoring well MW-6D has not been sampled due to lack of available groundwater present at the time of sampling. During the 2013 sampling, a sufficient amount of groundwater was available and recovered from monitoring well MW-6D to provide sample volume. If the well was purged, an insufficient sample volume would result. Since this monitoring well has not been sampled for a number of years, the recovered groundwater was adequate for sample volume.	BPD
General Notes:	Y	>Signs of moderate ATV activity through the Site >ATV tracks at north and south of fence along Drainage Swale A	BPD