

REGULAR SITE INSPECTION REPORT

FOR

**OCTOBER 20, 2010
(YEAR - 14)**

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

Prepared For:

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

Prepared By:

**STEARNS & WHEELER GHD INC
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
UNIVERSITY CENTRE, SUITE 100
415 NORTH FRENCH ROAD
AMHERST, NEW YORK 14228**

DECEMBER 2010

PROJECT NO. 71136

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 14th regular site inspection conducted at the Lockport City Landfill on October 20, 2010. This is the fourth monitoring event of the first contract between Stearns & Wheler/GHD and the City of Lockport.

SECTION 2 - REGULAR SITE INSPECTION

The following personnel attended a regular site inspection of the Lockport City Landfill:

- Norm Allen, City of Lockport
- Rolando Moreno, City of Lockport
- Brian Sadowski, New York State Department of Environmental Conservation
- Brian Doyle, Stearns & Wheler GHD

The completed Inspection Log Sheets for the October 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 two weeks prior to landfill inspection.

- **Perimeter Ditch “A”** - Vegetation is well established and no erosion had occurred during the October 2009 site inspection.
- **Perimeter Ditch “B”** - Vegetation is well established and no erosion had occurred during the October 2010 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 has 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 from occurring. The City of Lockport will continue monitor the area for any further slumping.
- **Drainage Swale “B”** - Vegetation is well established and no erosion noted during the October 2010 site inspection.
- **Perimeter Drainage Ditch “C”** - Wear from vehicle tire tracks at the northeast corner of Drainage Ditch C decreased from the 2008 inspection. A “No Trespassing” sign was installed in the area to prevent wear from unauthorized vehicles entering the site. The drainage swale needs to be mowed or excavated to remove woody growth.
- **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. ATV tracks present.
- **Vegetative Cover** - General cover is well established, some areas are heavy growth which have been cut back by removing the woody vegetation. A "No Trespassing" Sign was that was installed at the northernmost section of the west landfill has been removed. Landfill was mowed approximately 2 weeks 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 vent along Perimeter Drainage Ditch "C" was damaged during mowing this year and remains unrepaired. All other landfill gas vents were intact during the October 2010 site inspection.
- **Fence** – Fence and vehicle gates in good condition during the October 2010 site inspection. Fence gates to be chained
- **Monitoring Wells** – An obstruction believed to be a bent riser was the primary cause of Monitoring Well 3S to be purged dry prior to the removal of the recommended volume of water. A groundwater sample was able to be collected and analyzed at Monitoring Well 3S. Heavy debris around Monitoring Well 3S should be removed.

It is proposed for future groundwater sampling of Monitoring Well 3S to utilize the monitoring well adjacent to Monitoring Well 3S. During the 2010 sampling event, this well was gauged with a water level of approximately 11-feet. The well bottom was gauged at 13.2-feet. The original well logs are recommended to be reviewed to determine if both wells have similar screened interval depths. If so, then we would recommend to sample the monitoring well nearby and abandon Monitoring Well 3S.


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

ANNUAL INSPECTION LOG SHEET

Date: 10/20/2010

Inspector: Brian P. Doyle

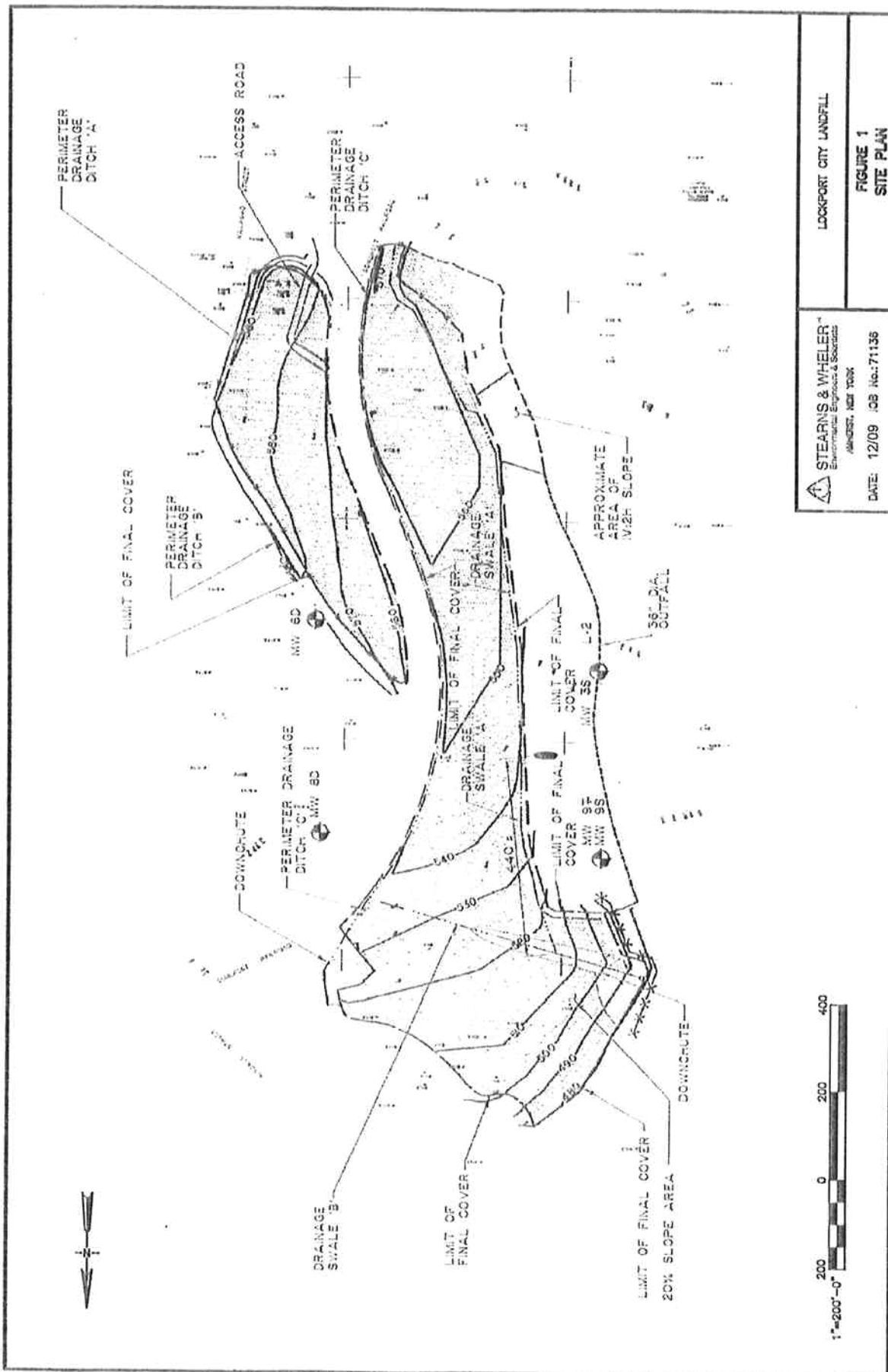
Weather: Clear

Signature: 

50° F

Company: Stearns & Wheeler/GHD

| 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 | Y | A "No Trespassing" sign was installed at the northeast corner to prevent access from All Terrain Vehicles. Overgrown with woody growth, Needs to be mowed or excavated to allow water to flow free. | BPD |
| Swale A | Y | The stone has remained in place, thus stabilizing the bank and preventing further slumping from taking place. Sapling trees at south end were found to be growing along the stone side. | BPD |
| Swale B | N | Vegetation is well established and no erosion noted. | BPD |
| Downchute & Apron | N | Normal growth/woody vegetation present in the downchute. ATV tracks present. | BPD |
| Vegetative Cover | Y | A "No Trespassing" Sign was that was installed at the northernmost section of the west landfill has been removed. Landfill was mowed approximately 2 weeks prior to 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 | A gas vent along Perimeter Ditch B was damaged during mowing and remains unrepaired. All other gas vents were intact and in good condition. | BPD |
| Fence | Y | Fence and vehicle gates in good condition during the October 2010 site inspection. 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 | Y | Heavy debris found around Monitoring Well 3S. An obstruction believed to be a bent riser was found in Monitoring Well 3S between the riser and screen. | BPD |
| General Notes: | Y | >Signs of ATVs through the Site >Wildflowers planned to be planted near Perimeter Ditch C - South end >ATV tracks at north and south of fence along Drainage Swale A | BPD |



STEARN'S & WHEELER
Environmental Engineers & Scientists
ALBANY, NEW YORK

DATE: 12/09 JOB No.: 71135

LOOKPORT CITY LANDFILL

FIGURE 1
SITE PLAN