

# *JSA* Environmental

## GFL Emerald Park Landfill Audit Summary

**TO:** GFL Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., P.E.  
**COPIES:** File  
**DATE:** 4/08/2021  
**PROJECT NUMBER:** 1012.10030

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Due to the COVID-19 pandemic, JSA Environmental (JSA) and Green For Life Environmental (GFL) are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of April 4, 2021. The audit was performed at 10:30 AM on **April 7, 2021** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager. The audit form has a typo of April 6, 2021

The last audit was performed on March 30, 2021

The weather conditions were clear and sunny

### Landfill Operations Audit:

The following conditions were noted during this Audit of the GFL EPLI Facility:

The operation required the use of:

- 1 compactor
- 1 bulldozer
- 1 excavator

No contractor active on site during audit

#### A) Working Face and Location

- Working face on East slope of Phase 6 at top of slope
- No other working faces in operation
- Outboard slope cover is soil, auto-fluff being used on inbound and top

#### B) Leachate Management

- Leachate being pumped to MMSD treatment

#### C) Gas Monitoring and Management

- Total destruction volume 2,500 cfm; 1,600 being delivered to MMSD
- Shutdown over weekend for approximately a total of four hours due to mechanical issues
  - Gas plant working properly after corrections made
- MMSD controlling flows

#### D) Surface Water Management

- Site is dry, but dust at a minimum
- Temp sed basin nearly dry.

Attachments:

Action Items List / Landfill Operations Audit Form  
Audit Photos



- Basins have plenty of freeboard
- E) Odor Control
  - No on site odors
  - No offsite odors
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - GFL is limiting pickers on the site to minimize risk
  - Litter on US 45 removed from ditches, litter still present in medians
  - Litter greatly reduced from previous audit
- H) Vehicle Impacts
  - US 45 and 8 Mile clean, with the exception of litter in median
  - Site entrance very potholed
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators
  - Receiving MSW and soils ~1,100 TPD
    - additional tonnage due to soil project
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present and overflowing
  - Site clean and boxes mostly emptied
- L) Other Comments
  - Bio pile being trenched so that it can undergo treatment with forced air. Construction expected to be completed today
  - Cell construction still expected for mid-May

Attachments:

Action Items List / Landfill Operations Audit Form  
Audit Photos

GREEN FOR LIFE ENVIRONMENTAL (GFL) EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE April 6, 2021 TIME 10:30  
 Auditor on site at:  Open  Close

PREVIOUS DATE: March 30, 2021 Completed  *Demolishing*

WEATHER Clear, Sunny WIND N 10-15 MPH  
 WIND N  S  E  W

TEMP Maximum 71 °F Minimum 48 °F B.P. 29.80

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

| No.      | DESCRIPTION        | Rented | Contracted | No. | DESCRIPTION | Rented | Contracted |
|----------|--------------------|--------|------------|-----|-------------|--------|------------|
| <u>1</u> | <u>Compactor</u>   |        |            |     |             |        |            |
| <u>1</u> | <u>Dozer</u>       |        |            |     |             |        |            |
| <u>1</u> | <u>Excavator</u>   |        |            |     |             |        |            |
|          | <u>Haul Truck</u>  |        |            |     |             |        |            |
|          | <u>Water Truck</u> |        |            |     |             |        |            |
|          | <u>Grader</u>      |        |            |     |             |        |            |

MAJOR EQUIPMENT BONEYARD

| No.      | DESCRIPTION  | Broken | Maintenance                         | No. | DESCRIPTION | Broken | Maintenance |
|----------|--------------|--------|-------------------------------------|-----|-------------|--------|-------------|
| <u>1</u> | <u>Dozer</u> |        | <input checked="" type="checkbox"/> |     |             |        |             |
|          |              |        |                                     |     |             |        |             |

A. Working Face Size and Location:

At top of Phase 6 and on the East slope.  
Working face on outboard slope  
and top of Phase 6



Cover Material:

outboard slope soil  
shredder fluff for inboard cover

B. Leachate Management:

Discharge to MMSD  Recirculation

Phases:

C. Gas Monitoring and Management: Check appropriate box.

|                             |   |                             |       |   |
|-----------------------------|---|-----------------------------|-------|---|
| Flares in Operation:        | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | #     | 1 |
| Blowers in Operation:       | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | #     | 1 |
| Flare use since last audit  | #                                       |                             |       |   |
| Shutdowns Since Last Audit: | # Mechanical over weekend               |                             |       |   |
| Total Number of Wells       | # All                                   | Under vacuum                | # All |   |
| Flow to MMSD:               | # 2,500 total cfm                       |                             |       |   |

Comments:

Shutdowns within plant in 4 hours  
System working well after correction

D. Surface Water Management:

Storm Events Since Last # 0 Est. Volume

EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

Site very dry but dust controlled  
Basins still draining

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No odors on or offsite

F. Liquid Loads Received:

None

G. Litter Control:

|                         |     |                                     |    |                          |   |
|-------------------------|-----|-------------------------------------|----|--------------------------|---|
| Litter Present Onsite:  | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> |   |
| Litter Present Offsite: | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> |   |
| Pickers Active:         | YES | <input type="checkbox"/>            | NO | <input type="checkbox"/> | # |

Comments:

Litter greatly diminished onsite since last audit  
 offsite litter is a median of US-43

H. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.

US43 dusty, but clean. Mile clean  
 Entrance very rough, site roads clean.

I. Inspection of incoming Waste:

|                               |             |                                     |    |                                     |      |                          |
|-------------------------------|-------------|-------------------------------------|----|-------------------------------------|------|--------------------------|
| Scale Camera Operator:        | YES         | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/>            | #    |                          |
| Equipment Operator:           | YES         | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/>            | #    |                          |
| Spotter:                      | YES         | <input type="checkbox"/>            | NO | <input checked="" type="checkbox"/> | #    |                          |
| Random Load Inspection Dates: | 4/1/2021    |                                     |    |                                     | Form | <input type="checkbox"/> |
| Tonnage:                      | ~ 1,100 Tpd |                                     |    |                                     |      |                          |

Comments:

MSW, and soil project

J. Rejected Loads:

|    | Date/Time | Reason for Rejection |
|----|-----------|----------------------|
| 1. |           | Now                  |
| 2. |           |                      |

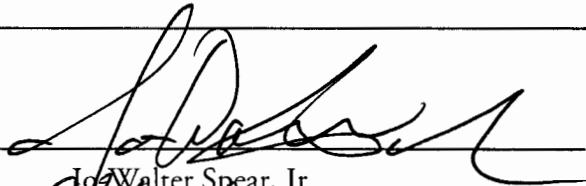
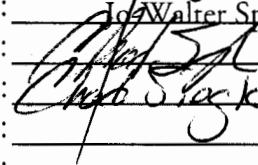
K. Residential Drop Off: Open During Audit  E-Waste Container Present

E-Waste container overflowing. Site clean

L. Other Comments:

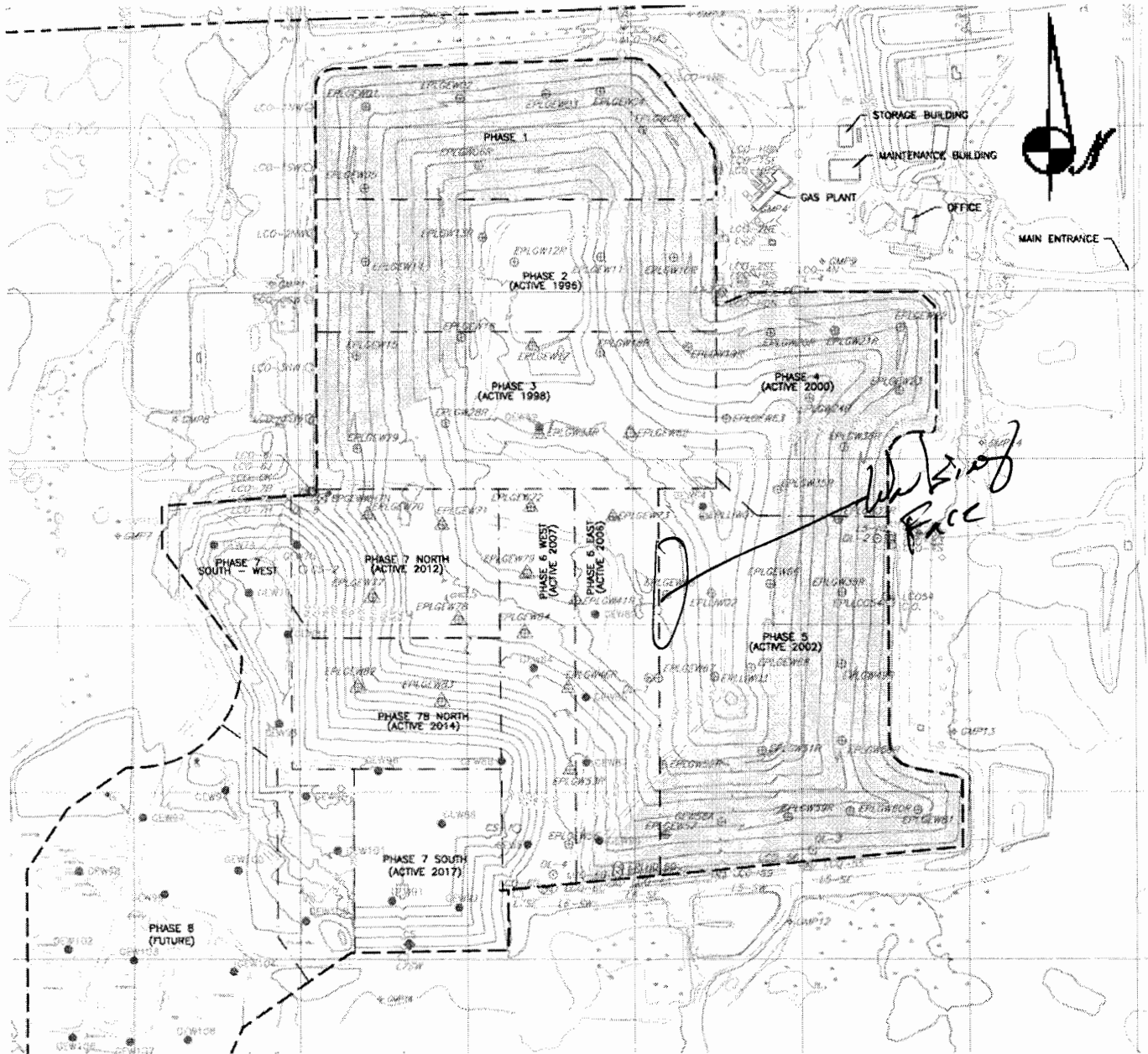
\* Installation of Biopile treatment started on 4/5/21, Installation to be completed today

\* Future construction expected in May.

Auditor's Signature:   
Auditor's Printed Name: Joe Walter Spear, Jr.  
Management Signature:   
Management Printed Name: Chris Stark  
Management Title: \_\_\_\_\_  
JSA Principal Signature: \_\_\_\_\_

Date: 04/06/2021  
Date: 4-6-21  
Date: \_\_\_\_\_

# Green For Life Environmental (GFL) Emerald Park Landfill Audit Map



**GFL ENVIRONMENTAL EMERALD PARK LANDFILL**

**/ CITY OF MUSKEGO  
AUDIT PHOTOS**

PROJECT NO. 1012.10030



Working face in Phase 6, East slope







Soil being pulled back for future waste placement



Working face on East slope of Phase 6 bringing up grades before additional placement in Phase 7



Bio pile treatment being prepared in bio soil pile in Phase 3



Well tweaking ongoing



Temp sed basin, well drained



West side of bio pile being excavated for treatment

**ADS Emerald Park Landfill  
Action Items Checklist  
City of Muskego Audit**

Opened: 05/28/2020

Updated: 01/09/2014 - Cleared

| Item Number | DATE<br>month/date/year | Condition Description                        | Permit or<br>Contract<br>Reference | Initial<br>Schedule<br>for<br>Completion | Observed<br>Completion<br>Date | Elapsed<br>Time<br>(Days) | Notes  |
|-------------|-------------------------|--|------------------------------------|--|--------------------------------|---------------------------|--|
| 1           | 05/28/2020              | Leachate Seep, discharge into Temp Sed Basin | POO                                | ASAP                                     | 11/06/2020                     | 153                       | Site management addressing issue                         |
| 2           | 05/28/2020              | Leachate elevations above maintenance levels | POO &<br>RD&D<br>Permit            | ASAP                                     | 11/06/2020                     | 153                       | Site management addressing issue,<br>DNR serviing an NOV |
|             |                         |  |                                    |  |                                |                           |  |
|             |                         |  |                                    |  |                                |                           |  |
|             |                         |  |                                    |  |                                |                           |  |
|             |                         |  |                                    |  |                                |                           |  |
|             |                         |  |                                    |  |                                |                           |  |
|             |                         |  |                                    |  |                                |                           |  |
|             |                         |  |                                    |  |                                |                           |  |