

# *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:** 3/22/2021  
**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 March 14, 2021. The audit was performed at 1:35 PM on **March 19, 2021** by Jo Spear, Jr.; in the presence of Chad Seigel, the Site Manager.

The last audit was performed on March 11, 2021

The weather conditions were clear, very sunny, and dry

The site is completely thawed

### 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

No contractor active on site during audit

#### A) Working Face and Location

- Working face on top of slope along East edge of Phase 6 & 7 tipping to the North
- No other working faces in operation
- Cover being placed is auto-fluff and soils

#### B) Leachate Management

- Leachate being pumped to MMSD treatment

#### C) Gas Monitoring and Management

- Total destruction volume 2,400 cfm; 1,500 being delivered to MMSD
- No shutdowns since the previous audit
- MMSD controlling flows, but did not take any delivery on Tuesday or Wednesday

#### D) Surface Water Management

- Site is very dry and basins are developing additional freeboard.
- Temp sed basin pumped nearly dry.
- No storm events since last audit

#### Attachments:

Action Items List / Landfill Operations Audit Form  
Audit Photos



- E) Odor Control
  - Minor gas odor on access road
  - 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 predominantly in Southwest corner of site and footprint
- H) Vehicle Impacts
  - US 45 and 8 Mile clean, with the exception of litter
  - Site entrance very potholed, site roads dusty
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators
  - Receiving MSW and small volume C&D ~1,000 TPD
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site open for residents, boxes mostly emptied, site clean
  - Low use during audit
- L) Other Comments
  - Large volume soils project expected in near future
  - Berm with rip-rap armoring constructed on South slope of Phase 7 to protect slope soils from erosion.
    - Construction performed by site operators

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 March 19, 2021  
 Auditor on site at:  Open  Close

TIME 1:35

PREVIOUS DATE: March 11, 2021 Completed

WEATHER Clear, very sunny & dry WIND 10-20 MPH  
 N S  W  
 TEMP Maximum 46 °F Minimum 29 °F B.P. 30.50

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Grader						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at top of slope  
 along east edge of Phase 6 & 7  
 tipping northward



Cover Material:

Waste left and soils

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:	#		0	
Total Number of Wells	# All	Under vacuum	# All	
Flow to MMSD:	# 2,400		cfm	

Comments:

No delivery on Tuesday & Wednesday  
Steady deconstruct volume MMSD controlling flows

D. Surface Water Management:

Storm Events Since Last # 0 Est. Volume 0

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

Site very dry and basins  
developing more free board  
Temp Sed Pond completely drained

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

Minor gas odor on Access Road but  
no other odors

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 checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 2

Comments:

Litter on US45 removed from ditches, median still has litter, Site litter to Southwest corner

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

US45 3/8 mile clear.  
~~Site~~ Roads dusty

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1/2
Equipment Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1/2 → 3
Spotter:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	#	0
Random Load Inspection Dates:	3/18/2021				Form	<input type="checkbox"/>
Tonnage:	12,000 TPD					

Comments:

USW, small volume C&D

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		

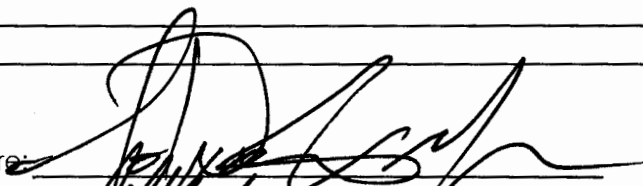
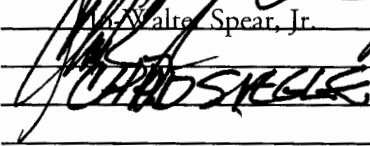
K. Residential Drop Off: Open During Audit  E-Waste Container Present

Boxes mostly emptied & site clean, low use

L. Other Comments:

\* Site will be receiving soils from  
Zoo exchange in future.

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Auditor's Signature:  Date: 03/19/2021  
Auditor's Printed Name: Walter Spear, Jr.  
Management Signature:  Date: 3/19/21  
Management Printed Name: CHRIS STEELE  
Management Title: \_\_\_\_\_  
JSA Principal Signature: \_\_\_\_\_ 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



Phase 7 South slope restored with back dragging and new berm to prevent future erosion







Armoring at base of berm developed to prevent erosion



Armoring at base of berm developed to prevent erosion



New berm on South slope of Phase 7 to protect slope from erosion



Armoring at base of berm developed to prevent erosion



Truck cleaning out, North of working face



Truck cleaning out, North of working face



Upper plateau of Phase 7, well covered with autofluff



Upper plateau of Phase 7, well covered with autofluff



Litter trapped behind fences when gusts end



Temp wind/litter screens placed inline with wind



Temp sed basin pumped nearly dry

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

Opened: 05/28/2020

Updated: 01/09/2014 - Cleared

Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (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 & RD&D Permit	ASAP	11/06/2020	153	Site management addressing issue, DNR serviing an NOV