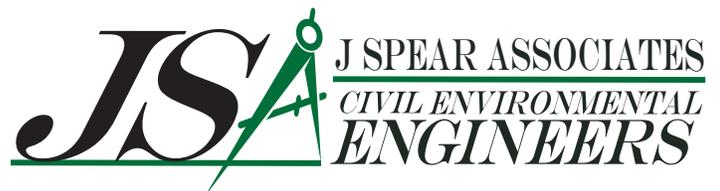


YEAR END  
**2010**



VEOLIA EMERALD PARK LANDFILL  
CITY OF MUSKEGO







## 2010 Veolia Emerald Park Landfill Year End Compliance Officer Report and Audit Summary

**TO:** Veolia Emerald Park Standing Committee  
**FROM:** Jo-Walter Spear, Jr., P.E.  
**COPIES:** File  
**DATE:** 01/20/11  
**PROJECT NUMBER:** 1012

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JSA Civil Environmental Engineers (JSA) has been acting as the Veolia Emerald Park Landfill Standing Committee's (Committee) Compliance Officer since 1999. JSA conducts weekly audits of the Veolia Emerald Park Landfill's (VEPL) operations and construction activities. The results of these audits are recorded and presented to the Committee, in addition to being posted on the World Wide Web (WWW) for the public at [www.jsacivil.com/muskego/index.html](http://www.jsacivil.com/muskego/index.html). JSA maintains the online record of the audits for the current year including the Year End Summaries for the previous year.

Throughout 2010, as in previous years, JSA has reported to the Committee; providing the following services

- Attendance to all Committee Meetings
- Auditing of the Operations and Construction of the VEPL Site
- Review and recording of all documents publicly released by VEPL, DNR, Host Communities, or public entities relating to the VEPL Site.
- Archiving of VEPL, DNR, and Host Communities' documents.

JSA performed 48 audits of VEPL during 2010. Audits are conducted on a weekly basis; in 2010 it became necessary due to staffing issues at VEPL to schedule audits. This practice is ongoing into 2011.

No audits were performed without the presence of VEPL staff. The site operated with Jay Warzinski as the manager through the Majority of 2010. Jordan Jacobi accompanied auditors

until July of 2010 when he left VEPL. In December of 2010 Mathew Kingsley became the General Manager of VEPL and accompanied auditors on three audits in December of 2010.

Audits were performed during operational hours of the facility including four “opening” audits and two “closing” audits, conducted at the opening and closing hours of the landfill respectively. The time of day that audits were performed was more evenly spread across the operating hours than in past years, no audits were conducted on the weekends.

Audits are recorded on “Audit Forms”, approved by the Committee and VEPL. The form is reviewed by both auditor and a VEPL representative at the end of each audit prior to signing by both parties. Audit observations are supported by photographs taken in conjunction with the audit. When a compliance issue is observed, it is recorded as an “Action Item” and included on a tallying list of action items for the year. In addition to the audit form, audit photographs, and action item list; a summary of the audit observations is created and included in the final deliverable document. The deliverable audit document is placed upon the JSA Web page; [HTTP://www.JSAcivil.com/Muskego/index.htm](http://www.JSAcivil.com/Muskego/index.htm). In 2010 three (3) audits were conducted without photographs being taken.

#### *Weather Conditions*

The weather conditions during the audit were recorded visually and from the weather stations near the area of the landfill. All of the weather readings were done with stations monitored by the National Oceanic and Atmospheric Administration (NOAA). VEPL has installed and is operating a weather station at the site, data from that may be used in 2011 auditing.

Poor weather conditions have an impact on VEPL; daily cover is a mix of foundry sands, tarps, and site soils. In poor weather conditions site soils can not be excavated and daily cover is limited only to sands received and tarps. Extended poor weather conditions can have an affect on daily and intermediate cover. Dry weather conversely, can have an impact on gas collection and destruction.

#### *Equipment used in Landfill Operation*

VEPL had two compactors and one bulldozer in operation on the working face of the landfill for the majority of audits, during times of low waste volumes only one compactor was employed on the working face. The site operated throughout 2010 with appropriate equipment, a compactor

was used for compaction and a bulldozer to place daily cover. VEPL also made use of excavators and haul trucks (articulated dump truck) to excavate future expansion space and stock piles to provide intermediate cover to the active area<sup>1</sup>. In 2010, VEPL added a grader to its fleet; to maintain the soil based roads and active area access roads. Two water trucks were available and used during dry dusty conditions.

The VEPL facility does not possess a street sweeper, however they have maintained a contract with a sweeping company to sweep US 45, and site roads as VEPL requires. The sweeping events do not occur every week, however there were no Action Items pertaining to road conditions.

### *Working Face*

VEPL maintains a working face that is approximately one half (½) acre in size or smaller, waste volumes through out Wisconsin are at an all time low, lower volume equates to smaller working faces. Weather conditions impact the working face size as well; during inclement weather the working face would be smaller.

The site operates two working faces, one specifically for soils<sup>2</sup> and the other for all other wastes<sup>3</sup>. The soils working face has been located on top of Phases 2 & 3 for more than a year. The bio soil pile is in active remediation for future use on the site. The Municipal Solid Waste (MSW) working face has been on top of Phase 6, with overlay onto Phases 3, 4, & 5. Asbestos and liquid loads are tipped in designated pits until filled and a new pit is established. Previous bio soils on Phase 5 were deemed complete and used for cover and other site soil constructions.

In the late summer and fall of 2010 VEPL recaptured air space on the West and South Slope of the active area, placing the working face out on the slopes and restoring the intermediate cover on a daily basis. The slope reclamation was completed with the installation of diversion berms.

The only Action Item of 2010 was in regards to poorly covered waste on June 11<sup>th</sup>.

### *Cover Material*

The daily cover used by VEPL consists of auto-fluff, foundry sands, and on-site soils. During the first half of 2010, from January to July, the quality of daily cover was poorer than previously

---

1 The active area throughout 2010 refers to Phase 5 and Phase 6

2 Separated into bio and landfill direct

3 Municipal Solid Waste, Construction and Demolitions Wastes, and Liquid Wastes

recorded, leading up to an Action Item in June. The quality of daily cover improved to its original standard if not better from July through December. VEPL did not appear to have any shortages in daily cover material in 2010.

### *Leachate Management*

VEPL has the ability to recirculate leachate through a pipe system, buried in the waste, along with disposing of excess volumes through a MMSD force main. Relative leachate volumes and repairs to the leachate system were recorded through out 2010 along with the placement of new recirculation lines. The recirculation of leachate during 2010 was minimal never more than 20,000 gallons a month.

Very minor seeps occurred in 2010 and were addressed with no threat to the environment.

VEPL did receive liquid wastes throughout 2010, discharged into the site via the asbestos pit.

There were no action items or concerns raised by VEPL's leachate management in 2010.

### *Gas Monitoring & Management System*

VEPL operates a flare to destruct landfill gas (LFG) collected at the site. A pipeline is under construction to direct the gas to MMSD in the near future. The site performed improvements and repairs on the system throughout the year and maintained the blower and flare as well. In April repairs were done to the gas header at the flare resulting in excavation into Phases 3 & 4; the repairs were completed and the slopes restored without incident.

There were no action items for Gas Monitoring & Management

### *Surface Water Management*

VEPL maintains three drainage basins and one temporary basin<sup>4</sup> along with several thousand feet of conveyances. The conveyances were maintained in 2010; though one stretch of roadside ditch at the base of the South juncture of Phase 4 & 5 was occluded the majority of the year. Maintenance for the drainage basins is scheduled for early 2011.

JSA records erosion conditions under stormwater management, the slopes of the active area were addressed in the latter portion of 2010 after the side slope reclamation had been completed. The

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4 Excavation alongside Phase 6

slopes were re-graded and a diversion swale was installed along the South slope of Phase 5 & 6. This swale should have a noticeable impact in 2011, reducing erosion on that South slope.

There were no action items for Surface Water Management

### *Odor Control*

Auditors record the presence of off site and on site odors; in 2010 there were nine (9) occurrences of off site odors and twenty eight (28) on site odors. Improvements to the gas system after the slope reclamation in November of 2010 appeared to reduce the on site odors for the remainder of 2010.

VEPL did not implement any odor control activities or substances in 2010 other than placement of cover. VEPL does possess products for odor neutralizing

There were no action items for Odor Control.

### *Special Waste Handling*

Waste profiles, sampling, and protocols are done off site from the VEPL Facility. This item remains on the audit should a new waste be accepted. VEPL receives liquid wastes; date and volume of loads were recorded on the Audit Forms.

There were no action items for Special Waste Handling

### *Litter Control*

VEPL implements two types of litter fences about the active area. Stationary fences are installed at the top of slopes and at the base of slopes and where possible prior to the boundary or perimeter fences. Mobil fences are moved by bulldozer to intercept litter blown by the wind. VEPL also hires litter pickers to gather litter both on and off site.

2010 had several months of severe winds which blew litter beyond the perimeter fences of the site. Off site litter is recorded, if present, during an audit. If the litter is present in the subsequent audit an Action Item is issued.

No Action Items were recorded in regard to litter

### *Vehicle Impacts*

VEPL has an “as requested” contract with SweepAll to clean US 45 and site access roads. VEPL increased its frequency of street sweeping in late July of 2010 during the MMSD pipeline installation and continues to have a sweeper active at least once per week.

There were no action items relating to Vehicle Impacts

### *Inspection of incoming waste*

VEPL uses a camera, viewable by the scale operator in addition to recording, to monitor both truck activities and contents. Each equipment operator on the working face is able to observe the waste components when tipped from the haul vehicles. VEPL does not make use of spotters nor does it have working faces that are not monitored by VEPL staff.

All Wisconsin permitted landfills are required to perform a random load inspection for every 5,000 tons of waste received; the Host Agreement requires a minimum of two Random Load Inspections per week. The random loads inspections were routinely (two per week minimum) throughout 2010.

No Action Items were recorded regarding Inspection of incoming waste.

### *Rejected Loads*

No rejected loads were recorded in 2010

### *Contractors Audit*

In 2010 VEPL engaged the services of Dakota, Oaks, Miller Excavating, and SweepAll to aid in the construction and maintenance at the site. The activities of all contractors were recorded during audits.

### *Action Items*

There was only one Action Item recorded in 2010 relating to poorly covered waste by daily cover on an outboard slope. Though the site did not have a manager regularly on site for the first half of the year, the presence of Jay Warzinski for the last half of the year seemed to have a profound impact on operation and appearance of the site.

JSA will continue to perform weekly audits in 2011.







January



MEMORANDUM

## VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 01/06/10

**PROJECT NUMBER:** 1012.10030

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Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of January 3, 2010. The audit was performed at 7:30 am on **January 6, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- No trucks were present prior to 6:45 AM
- Two working faces at facility
  - MSW being tipped in South end of Phase 6W. In Southwest corner
  - Frozen loads being dug out
  - Soils being tipped in Phases 2&3
  - Liquid load being tipped in Phase 6W in trench away from working face.
- Leachate being discharged to MMSD, on weekends, all phases at maintenance levels
  - Recirculation of leachate ongoing, all sumps at maintenance levels
- Flare in operation during audit
  - No shutdowns since previous audit
  - Vegetation now snow covered
- Minor gas odor detected on US 45 and about active area
- Litter pickers scheduled for today
  - Litter evident on outboard slopes
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspected on 12/30/09
- US 45 and 8 Mile Road clean
  - Site roads in reasonable condition
- Header work still on hold until, pipe delivery expected this week and work to begin next week.

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE January 6, 2010  
 Auditor on site at: Open  Close

TIME 7:30 AM

WEATHER Overcast

BLOWING TO  
 WIND NE Light.

TEMP Maximum 22 °F Minimum 15 °F

B.P. 39, 17

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
<u>1</u>	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Soils tipped in Phase 2 & 3.

~~Working face~~

Active area at South end of Working face about 50' x 50'.



Cover Material:

Auto Bluff ~~XXXXXX~~ for daily cover.

B. Leachate Management: recirculating at maintenance levels.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#		0	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

I expected today for Blower Maintenance

D. Surface Water Management:

Storm Events Since Last	# 0	Est. Volume	
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EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

Site Frozen

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

Minor odor on site and very minor offsite gas odor

F. Special Waste Handling: storage of fingerprint samples and testing procedures

1 liquid load during audit



G. Litter Control:

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

Comments: Some litter on the Out Slopes, Pickers Scheduled today.

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

US 45 & 8 Mile Road Clean  
Site Roads rough

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Equipment Operator:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Spotter:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Random Load Inspection Dates:	<u>2/30/09</u>			

Comments:

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		<u>None</u>

Comments:



L. Other Comments:

\* Hauler and clamper work held for better weather.

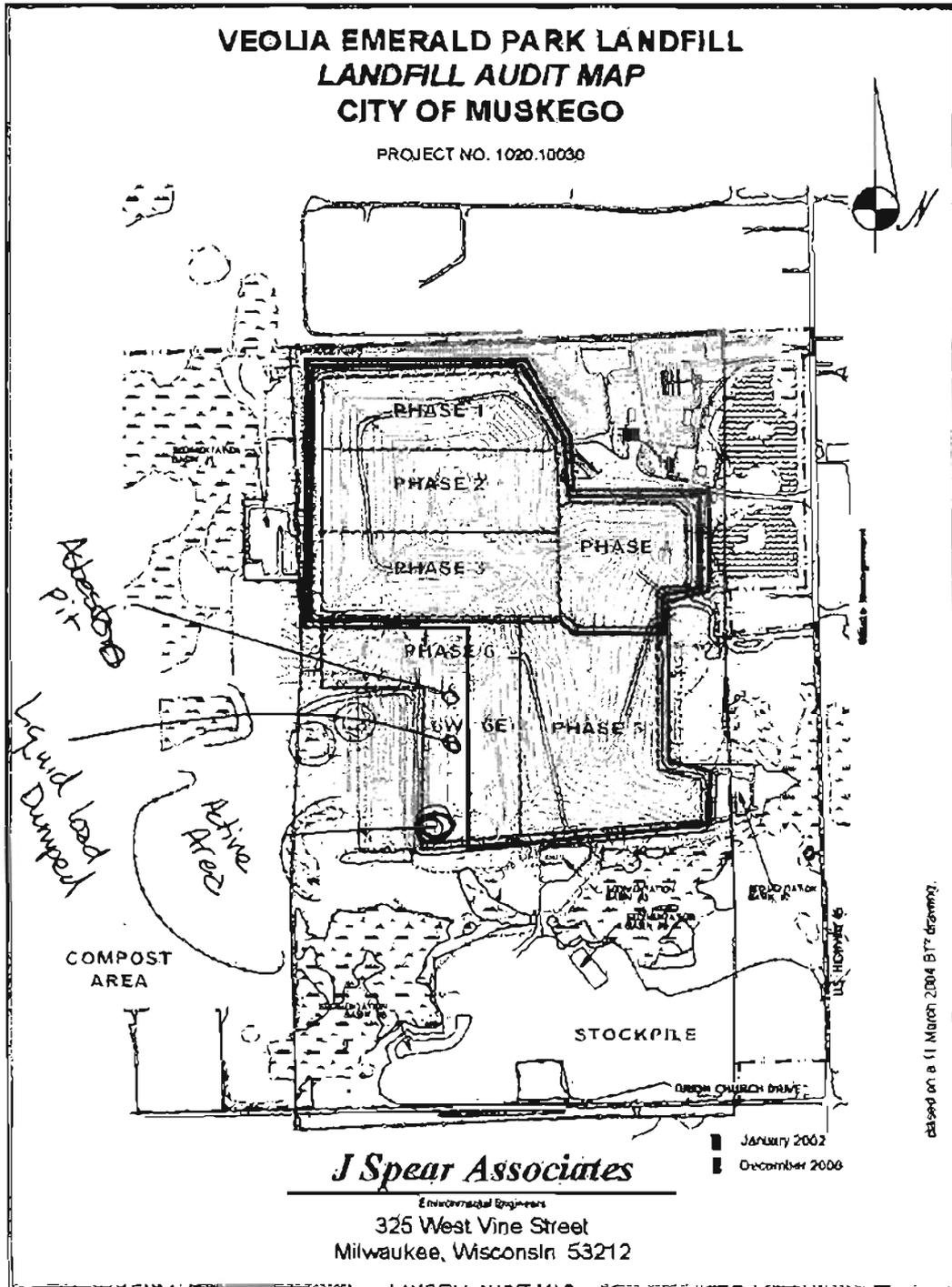
Auditor's Signature: *A Kraucik*  
Auditor's Printed Name: ANNA KRAUCIK  
Management Signature: *JJ*  
Management Printed Name: Jordan Jacobi  
Management Title: GAS Manager  
JSA Principal Signature: \_\_\_\_\_

Date: 1/6/10  
Date: 1/6/10  
Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



dated on a 11 March 2004 BT7 drawing.

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Working Face



Active Area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Soils tipped in Phase 2



Compost



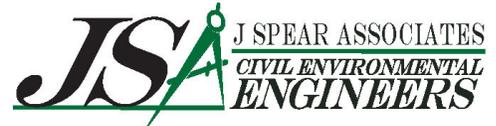
Fences relatively cleared of litter.



Compost Yard Gate secured



MEMORANDUM



## VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 01/06/10

**PROJECT NUMBER:** 1012.10030

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Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of January 3, 2010. The audit was performed at 2:00 pm on **January 14, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- One working faces at facility
  - MSW being tipped in South end of Phase 6W. In Southwest corner
- Leachate being discharged to MMSD, on weekends, all phases at maintenance levels
- Flare in operation during audit
  - No shutdowns since previous audit
  - Vegetation now snow covered
- Site thawing, roads wet and muddy
- Minor odor in active area
  - Open trench dug for leachate recirculation line, to be filled on Friday, January 15, 2010.
- Litter picker active during audit
  - Litter increased by snow melt and high winds
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspected on 1/08/2010
  - next Random Load inspection planned for end of week
- US 45 and 8 Mile Road clean
  - Site roads muddy
- Special Services on site performing header line tie-in.
- Compost area active, windrow turning
- Leachate recirculation line added in Phase 6E

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE January 14th 200  
 Auditor on site  Open  Close

TIME 2:00pm

WEATHER overcast

WIND blowing to N.

TEMP Maximum 38 °F Minimum 24 °F B.P. 29.93"

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	<u>Compactor</u>						
<u>2</u>	<u>Dozer</u>						
<u>1</u>	<u>Excavator</u>						
	<u>Haul Truck</u>						
	<u>Water Truck</u>						
	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
	<u>DL just came out</u>		<u>Heat</u>				
	<u>DB going in for</u>		<u>Scheduled</u>		<u>maintenance</u>		

A. Working Face Size and Location:

active area about 50' x 50' at South end  
of working face.



Cover Material: Cover in good condition

subfill stockpiled for daily cover

Clay available if needed

B. Leachate Management:

MMSD Pumping on weekends

all at maintenance levels

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	<u>N/A</u>
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	<u>N/A</u>
Shutdowns Since Last Audit:	# <u>0</u>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Site still snow covered

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 thawing, currently no standing water but site wet & muddy.

E. Odor Control:

Odors Present:

Onsite

Offsite

Comments:

Minor odor on site at Active area. Trench dug for leachate line to be buried on Fri.

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments: Lots of litter on site, pickers active all week high winds last week contributing, along w/ snow melt

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

Site Roads Muddy  
 US 43 1/8 mile 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 type="checkbox"/>	#
Random Load Inspection Dates:	1/8/10		

Comments: Next inspection due late this week of early next.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		NONE
4.		

Comments:



L. Other Comments:

\* Special Services make working on Header line Tie in.

\* Activity in Compost Area again. Turning over Lined Refus.

\* Leachate line being buried in 6E, add to Litter Issues and Editor. Scheduled for Cover on Friday.

Auditor's Signature: \_\_\_\_\_

*[Handwritten Signature]*

Date: 1/14/10

Auditor's Printed Name: \_\_\_\_\_

ANNA KRACIK

Management Signature: \_\_\_\_\_

*[Handwritten Signature]*

Date: 1/14/10

Management Printed Name: \_\_\_\_\_

Jordan Jacobi

Management Title: \_\_\_\_\_

Gas Manager

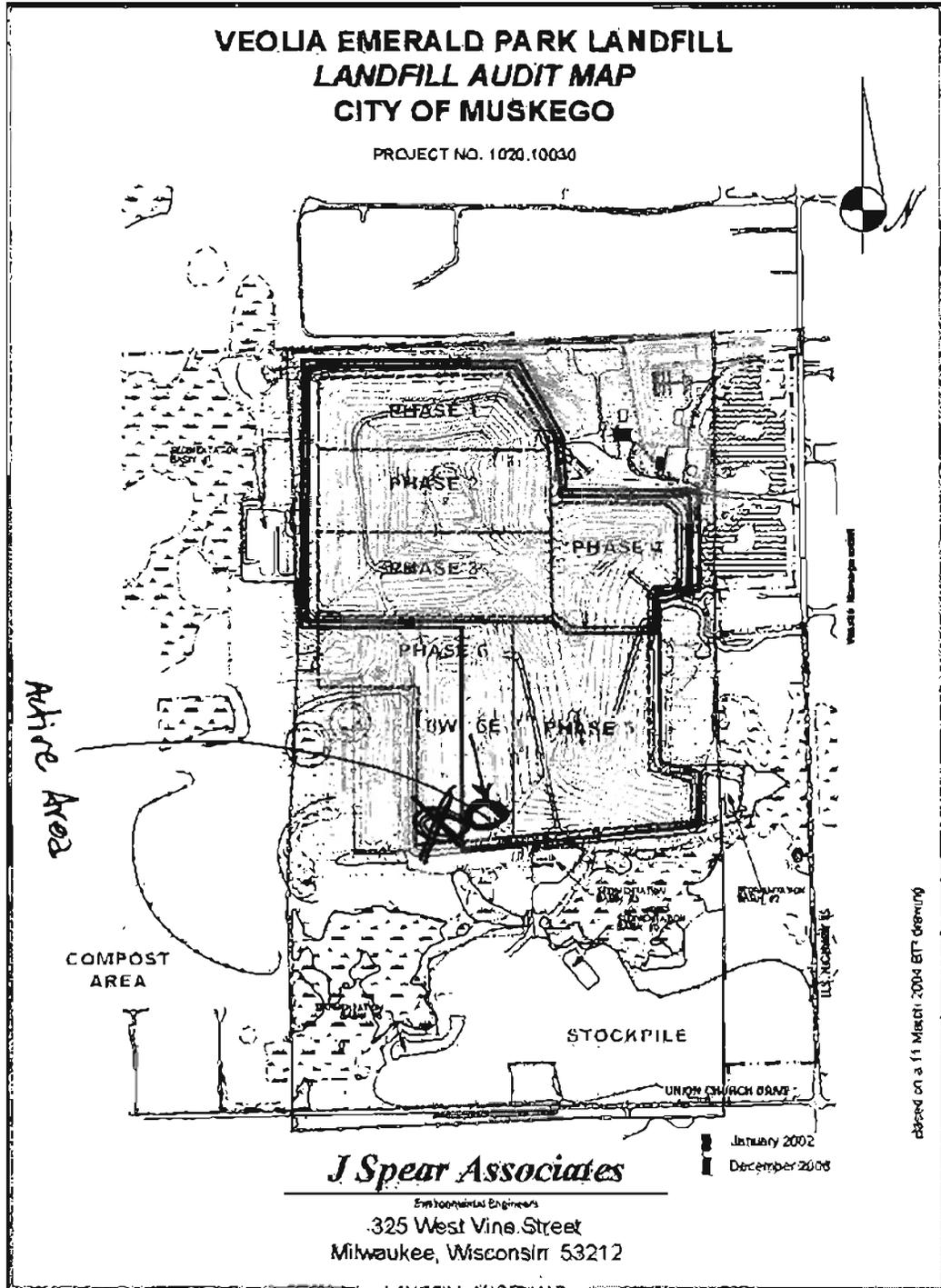
JSA Principal Signature: \_\_\_\_\_

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



based on a 11 March 2004 EIT drawing

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Header work progressing



Dig out area on working face



Autofluff and clay available for daily cover



Special Services Active on site



Dig out



Site snow covered





MEMORANDUM

## VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 01/22/10

**PROJECT NUMBER:** 1012.10030

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Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of January 17, 2010. The audit was performed at 10:15 am on **January 22, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- One working faces at facility
  - MSW being tipped in South end of Phase 6W. In Southwest corner
  - Tipping area smaller than during most audits
  - Cover being hauled from clay excavation for outboard slopes
- Leachate being discharged to MMSD
  - Leachate sampled this week
- Flare in operation during audit
  - No shutdowns since previous audit
  - Vegetation still snow covered
- Site thawing, some surface water
- Minor odor in active area
- Litter picker active during audit
  - Litter trapped in fences and much of it bagged
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspected on 1/14/2010
- US 45 and 8 Mile Road clean
  - Site roads dry
- Special Services on site performing header line tie-in.
  - Work expected to finish next week
- Leachate recirculation line added in Phase 6E, now back filled and covered
- Soil stock piles on Union Church Road show evidence of snow machines entering landfill.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE January 22, 2010  
Auditor on site at  Open  Close

TIME 10:15 AM  
To Light  
WIND South East

WEATHER OVERCAST

TEMP Maximum 33 °F Minimum 31 °F B.P. 29.96

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
<u>1</u>	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

~~the~~ Active area at South end of Working face  
in Phase 6W & E.

Smaller Active Area



Cover Material:

Cover in good condition, Clay being hauled to cover on out-board slope  
auto fluff + Site Soils for daily cover

B. Leachate Management: Recirculating

Pumped out this week for sampling

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	N/A
Shutdowns Since Last Audit:	#		<u>0</u>	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~ 1800 CFM

D. Surface Water Management:

Storm Events Since Last	# <u>0</u>	Est. Volume	
-------------------------	------------	-------------	--

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

Site thawing, minimal water, still mostly dry roads.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

None offsite, minor odors on site.

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Litter in fence caused by wind shift earlier. Most bagged or bag picked.

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

US 45 & SMILE ROAD 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 type="checkbox"/>	#	
Random Load Inspection Dates:	1/14/10			

Comments: ~ 1100 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		

Comments: None



L. Other Comments:

Request Curvest Topo Map of Site

\* Snow Machine tracking over top of Soil Stockpile on Union Church Road.

\* Leachate line crossed in Phase 10E

\* Header work progressing, expected to finish next week.

Auditor's Signature:

*[Handwritten Signature]*

Date: 1-22-10

Auditor's Printed Name:

LUNA KRAJCIK

Management Signature:

*[Handwritten Signature]*

Date: 1/22/10

Management Printed Name:

Jordan Jacobi

Management Title:

GIS Manager

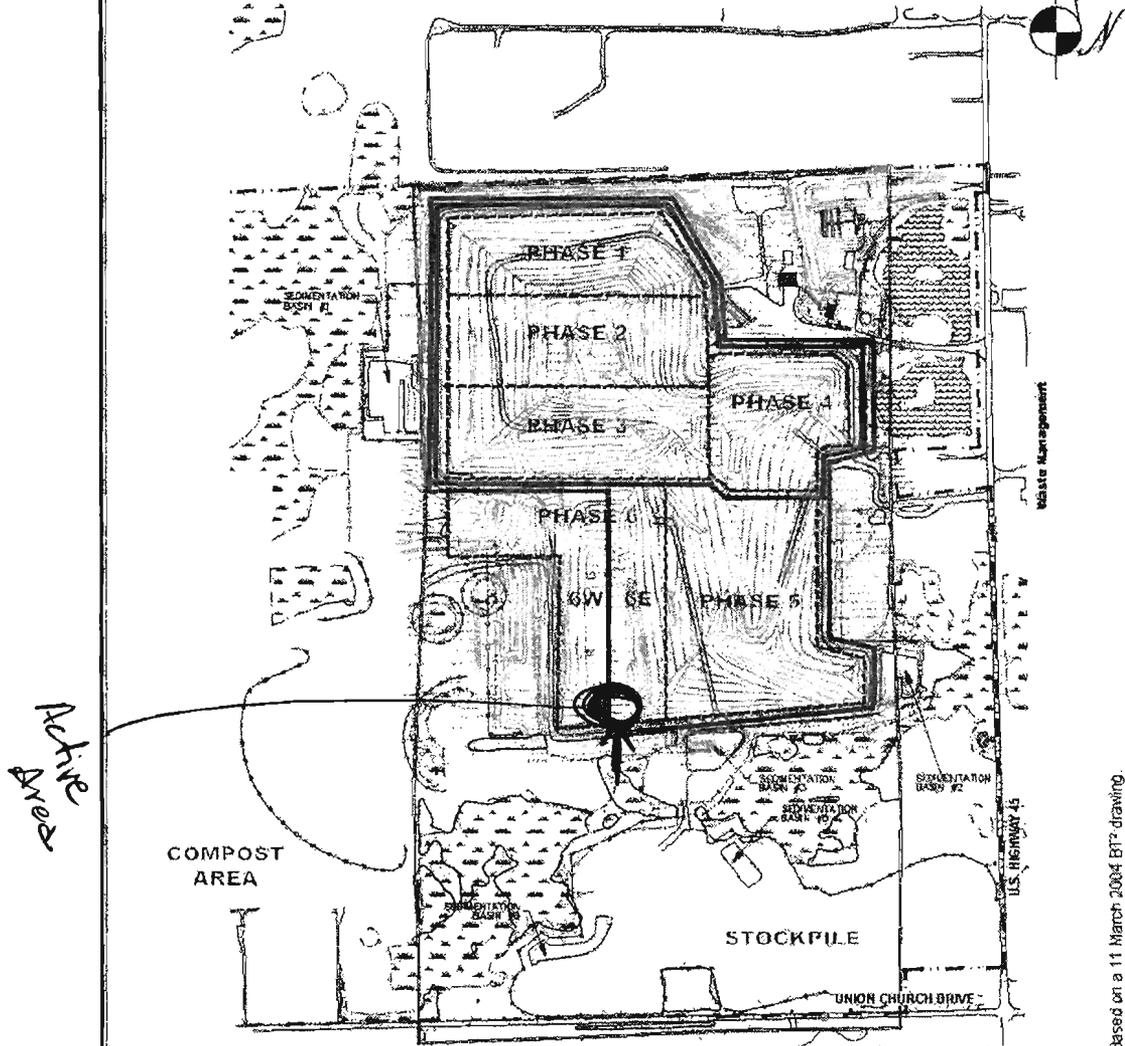
JSA Principal Signature:

Date:



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



based on a 11 March 2004 BTZ drawing.

■ January 2002  
■ December 2006

**J Spear Associates**  
Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





B. Excavations / Soil Management:

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C. Off Site Hauling

	Weight Ticket Number	Weight of Load in Pounds
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

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Auditor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Auditor's Printed Name: \_\_\_\_\_  
 Management Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Management Printed Name: \_\_\_\_\_  
 Management Title: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Header work progressing



Lines buried



Snow machine tracks heading onto property



Snow machine tracks heading onto property



Soils tipped in Phase 2 & 3



Soils tipped in Phase 2 & 3

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

Opened:		Updated: 01/04/10					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes







MEMORANDUM



## VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 01/22/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of January 24, 2010. The audit was performed at 8:45 am on **January 29, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- One working faces at facility
  - MSW being tipped in South end of Phase 6W. In Southwest corner
  - Concrete block loads being stockpiled in Phase 5 for on site construction.
  - Auto-fluff and foundry sands used for cover
- Leachate being discharged to MMSD on weekends
  - Leachate volumes up due to thaw conditions
- Flare in operation during audit
  - Shutdowns performed as needed for header repairs
  - vegetation snow covered
- Site conditions frozen
- Minor odor on site during audit
- On site litter conditions heavy
  - Pickers scheduled for early next week
  - Mobile litter screens in poor repair
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection planned for 1/29 or early next week
  - Receiving approximately 1,200 tpd
- US 45 and 8 Mile Road clean
  - Site roads dry
- Special Services on site performing header line tie-in.
  - Repairs require the crossing of the site access road, will be performed on Saturday 1/30.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE January 29, 2010

TIME 8:45 AM

Auditor on site at:  Open  Close

WEATHER Clear, Sunny, Extremely Cold.

WIND Light  
~~light~~

TEMP Maximum 21 °F Minimum -5 °F B.P. 30.42

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dazer						
<u>1</u>	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at far South end of Active Area  
about 50' x 50'

Receiving more loads of concrete, no new soils.



Cover Material:

contaminant and Sands for cover.

B. Leachate Management: Pumping on Weekends, levels higher due to past thaws but below maintenance levels.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

No major shutdowns, minor aa needed for header work.

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 Frozen

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

Minor odors onsite, nothing noticeable off site

Special Waste Handling: storage of fingerprint samples and testing procedures

None Expecting some new profiles next week.



G. Litter Control:

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

Comments: Heavy litter onsite. Winds impacting face directly. Wind screens in poor repair but were being moved to adjust for wind and blowing litter. Additional pickers scheduled for men & trees. Extreme cold & winds making picking hard.

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

US 45 & 8 MILE CLEAN & DRY.

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 type="checkbox"/>	#	

Random Load Inspection Dates:

Comments: Expecting one today or early next week  
~ 1200 tons tpd

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		<u>None</u>
4.		

Comments:



L. Other Comments:

\* Special Services preparing to tie line across road to connect down the hill. Jumper works scheduled for Saturday to complete work.

\* No activity in compact area.

Auditor's Signature: *A. Krausick*

Auditor's Printed Name: ANNA KRAUSICK

Management Signature: *J. Jacobi*

Management Printed Name: Jordan Jacobi

Management Title: GAS MANAGER

JSA Principal Signature: \_\_\_\_\_

Date: 1/29/10

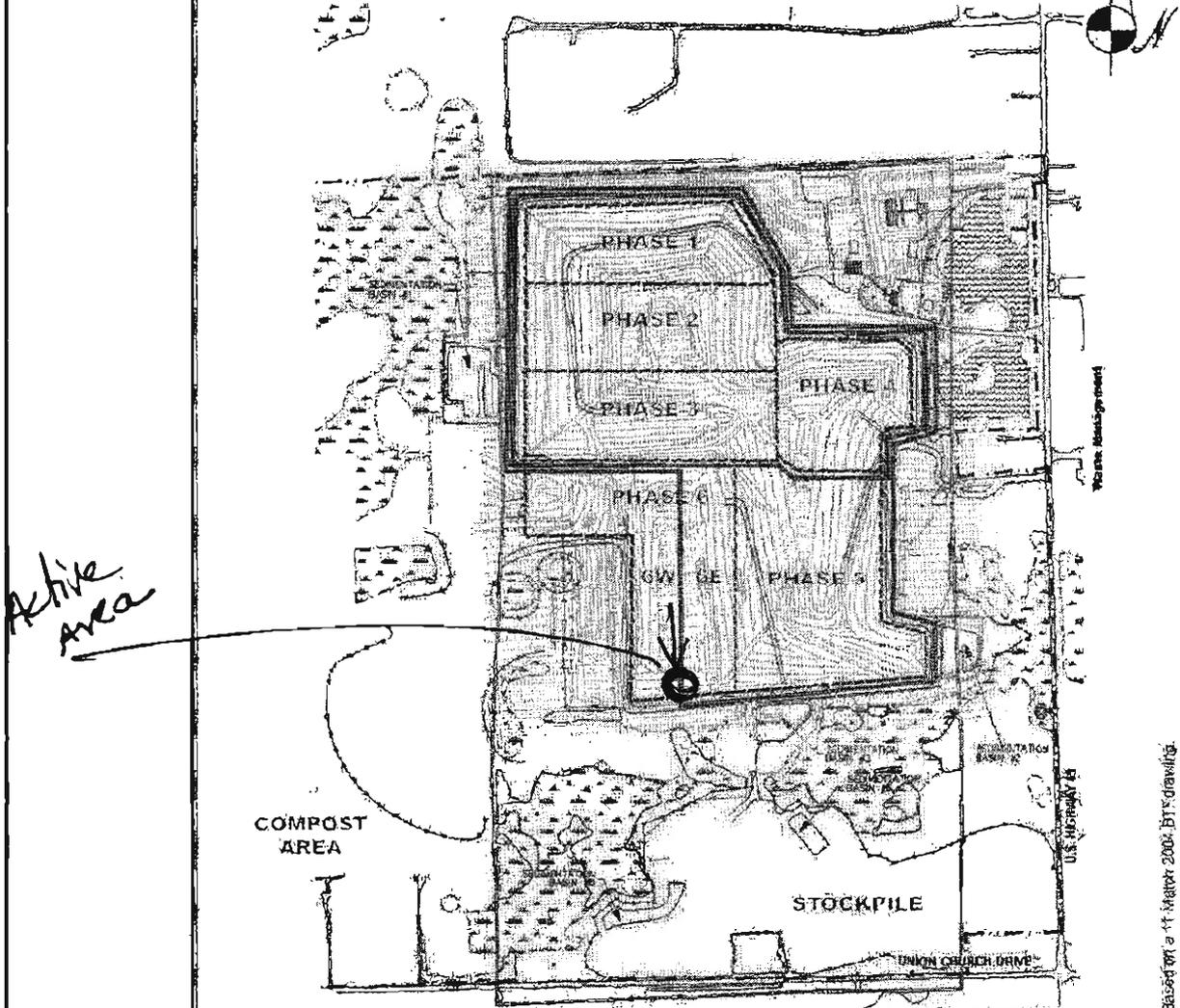
Date: 1/29/10

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



dated on a 11 March 2000; JTS drawing

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

January 2002  
December 2003

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Header work progressing



Lines buried



High winds causing lots of litter onsite, and minor litter off site



Concrete received in Phase 6





February





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 01/22/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of February 1, 2010. The audit was performed at 10:30 am on **February 5, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- One working faces at facility
  - Working face for MSW only at South End of Phase 6E
  - Auto-fluff and foundry sands used for cover
  - Cover in good condition.
- Leachate being discharged to MMSD all week
  - Leachate volumes in Phase 6 high, discharge to MMSD to cure
- Flare in operation during audit
  - No Shutdowns
  - vegetation snow covered
- Site conditions frozen
- No odors on or off site during audit
- On site litter greatly reduced since previous audit
  - Four pickers on site for several days, three days to control litter
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection performed February 4, 2010
  - Receiving approximately 1,100 tpd
- US 45 and 8 Mile Road clean
- Special Services on site performing header line tie-in.
  - Jumper line completed
  - Header work ongoing, expect flare shutdown next week.

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE February 5, 2014  
Auditor on site at  Open  Close

TIME 10:30 AM

WEATHER Overcast, Damp.

From NE  
WIND Windy

TEMP Maximum 31 °F Minimum 20 °F

B.P. 30.13

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	<u>Compactor</u>						
<u>2</u>	<u>Dozer</u>						
<u>1</u>	<u>Excavator</u>						
<u>1</u>	<u>Haul Truck</u>						
	<u>Water Truck</u>						
	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at South end of Phase 6E  
Staying off outside slope until clay is hauled  
for cover. Working to the inside.



Cover Material: dustproof with some Site Soils for  
daily cover. Cover in good condition

B. Leachate Management: leachate high in Phase 6, Pumping  
offsite from 6 all week to reduce levels.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# <u>0</u>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

No Shut down, Vegetation Covered.  
Expected multi day Shut down next week to  
complete Header work.  
~ 2000 scfm

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:

Light Snow but no appreciable volume

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

NO ODORS

Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	# 4 (temps for several days)

Comments:

~~BE~~ Litter onsite greatly reduced. Recovery took ~ 3 days with temp workers

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

US 45 1/2 MILE 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 type="checkbox"/>	#	

Random Load Inspection Dates: 2/4/2010

Comments: ~ 1100 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		NONE
4.		

Comments:



L. Other Comments:

- \* Clumper line Completed.
- \* Special Services moved to Header. ~~Being~~ Increasing capacity. Flare Shutdown expected next week.
- \* Jordan reviewing Litter Screens for improvement as budget allows.
- \* Residential Drop off has been running smoothly as complaints or issues in past few months.

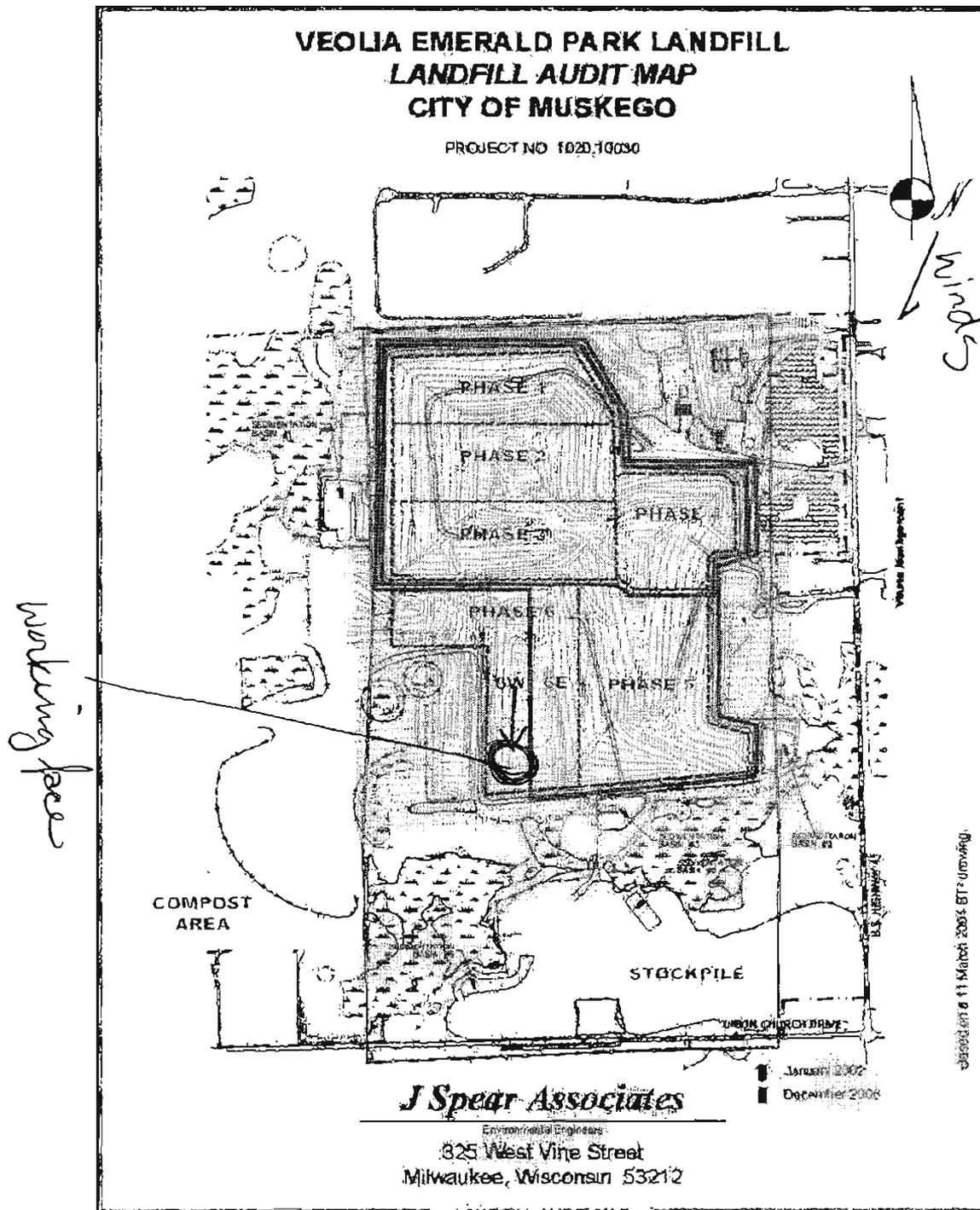
Auditor's Signature: *A. Kravitz*  
Auditor's Printed Name: ANNA KRAVITZ  
Management Signature: *J. Jaubi*  
Management Printed Name: Jordan Jaubi  
Management Title: GAS MANAGER  
JSA Principal Signature: \_\_\_\_\_

Date: 2/5/10  
Date: 2/5/10  
Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020.10030



**J Spear Associates**

Environmental Engineers  
825 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Header work progressing



Soils in Phase 2 & 3



Litter fences cleared of blowing litter



Snow covered site

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

Opened:		Updated: 01/04/10					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes







MEMORANDUM

## VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 01/22/10  
**PROJECT NUMBER:** 1012.10030

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Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of February 8, 2010. The audit was performed at 2:40 pm on **February 11, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- One working faces at facility
  - Working face for MSW only at South End of Phase 6, away from outboard slopes
  - Large stock pile of autofluff available for cover
  - Cover in good condition.
- Leachate being discharged to MMSD all week
  - Leachate volumes in Phase 6 high, discharge to MMSD to cure
  - Recirculating leachate
- Flare in operation during audit
  - No Shutdowns
  - vegetation snow covered
- Site conditions frozen
- No odors off site during audit
  - Minor odors detected on site
- Litter recorded on site
  - No off site litter
  - One picker active during audit
  - Extra pickers scheduled for 2/12
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection to be perform 2/11 or 2/12
  - Receiving approximately 1,200 tpd
- US 45 and 8 Mile Road clean
- Special Services on site performing header line tie-in.
  - Project waiting on materials



## MEMORANDUM

- Seep identified and repaired on West Slope of Phase 6W
  - See photos
- Compost lot gate unsecured with no attendant.

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE February 11 2010  
Auditor on site at:  Open  Close

TIME 2:40 pm

WEATHER Clear Cold

WIND Light W

TEMP Maximum 21 °F Minimum 6 °F

B.P. 30.08"

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	<u>Compactor</u>						
<u>2</u>	<u>Dozer</u>						
<u>—</u>	<u>Excavator</u>						
<u>1</u>	<u>Haul Truck</u>						
	<u>Water Truck</u>						
	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Excavator</u>		<u>X</u>				

A. Working Face Size and Location:

Active Area at South end of Working face in  
Phase 6. Staying away from cut back slope  
until conditions improve and clay can be used  
for cover.



Cover Material:

Cover in Good condition. Large Stock Pile of Autotuff for daily cover

B. Leachate Management:

Leachate Sill high in le. Pumped out to MISO through Weel. Recirculating now. Levels Reducing Slowly.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	N/A
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	N/A
Shutdowns Since Last Audit:	#		0	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Site Snow Covered.  
~ 1950 scfm

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume	0 1/2"
-------------------------	---	-------------	--------

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

Site water frozen

snow

E. Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input type="checkbox"/>
---------------------------------	----------------------------------

Comments:

Minor odors. Nothing offsite

F. Special Waste Handling: storage of fingerprint samples and testing procedures

NONE



G. Litter Control:

Litter Present Onsite:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	# 1

Comments:

No Litter off site.

Litter on site. <sup>extra</sup> Pickers scheduled for Friday.

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

US 45 & 8 mile 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 type="checkbox"/>	#

Random Load Inspection Dates:

Comments: Inspection Expected today or Friday.  
~ 1200 TDP

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		None
3.		
4.		

Comments:



L. Other Comments:

\* Special Services working on header upgrade extended time shut down expected soon for installation. Sp. Sew. waiting on a part.

\* Small seep identified and fixed since last walk.

\* Compact yard gate ~~was~~ unsecured.

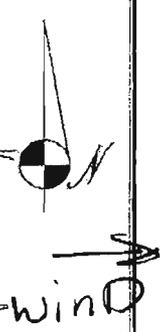
Auditor's Signature: *A. Kravick*  
Auditor's Printed Name: AYNA KRAVICK  
Management Signature: *JJ*  
Management Printed Name: Jordan Jacob  
Management Title: GAS MANAGER  
JSA Principal Signature: \_\_\_\_\_

Date: 2/11/10  
Date: 2/11/10  
Date: \_\_\_\_\_



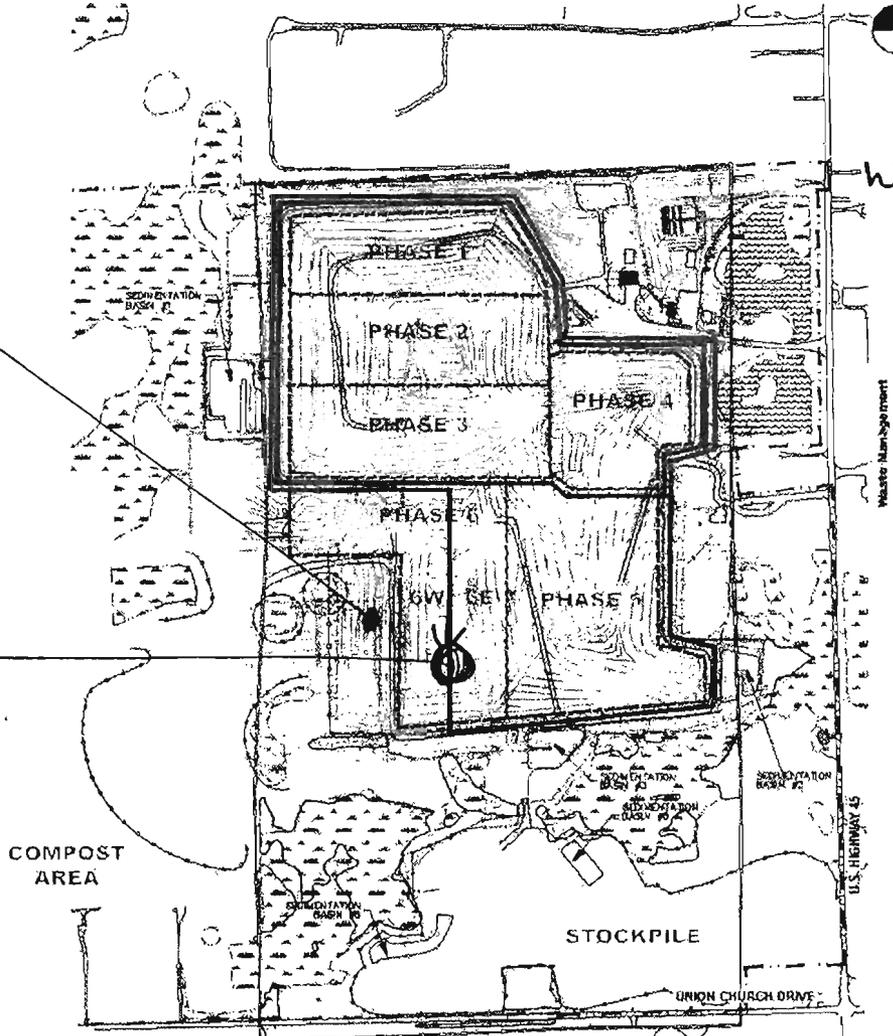
**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



*Small  
Seep.*

*Working  
face*



COMPOST  
AREA

STOCKPILE

- January 2002
- December 2008

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

based on a 11 March 2004 BT<sup>2</sup> drawing





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Header work progressing



Soils in Phase 2 & 3



Litter fences cleared of blowing litter



Compost yard gate unlocked with vehicle traffic evident





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 02/23/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of February 15, 2010. The audit was performed at 2:40 pm on **February 19, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- Two working faces at facility
  - Working face for MSW only in middle of Phase 6W
  - Soils being received in Phases 2&3, extremely wet loads
  - Cover in good condition, site soils and auto-fluff in use for cover
- Leachate being discharged to MMSD all week
- Flare in operation during audit
  - No Shutdowns
  - vegetation snow covered
- Site conditions frozen, some thawing occurring, but no surface water impacts
- No odors on or off site during audit
- Litter recorded on site
  - No off site litter
  - One picker active during audit
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection to be perform 2/11 or 2/12
  - New Waste Profile, Milorganite from MMSD to compost area
  - Receiving approximately 1,200 tpd
- US 45 and 8 Mile Road clean
  - Site roads being improved by regrading
- Special Services on site performing header line tie-in.
  - Project waiting on materials

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE February 19 2010  
Auditor on site  Open  Close

TIME 9:45 Am

WEATHER Clear, Calm

WIND Light west winds

TEMP Maximum 36 °F Minimum 22 °F

B.P. N/A

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
1	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						
1	Wheel loader						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	DOZER D6		<del>X</del>				

A. Working Face Size and Location:

Working face about half way across Phase 6W  
about 50' x 50'

Soils Recovered in Phase 2 & 3. Extremely  
Wet load.



Cover Material:

Cover in good condition, auto fluff & Site Sals for daily cover.

B. Leachate Management: Pumping off site to MMSD.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	N/A
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments;

Site Snow covered

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:

No accumulation. Some thawing on site.

E. Odor Control:

Odors Present:

Onsite

Offsite

Comments:

Auditor not able to detect any odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures

Milorganite expected this week



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Minor litter on site w/ 1 picker active.  
None of site.

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

Site Roads being improved.  
US45 & 8 Mile Clean and Dry

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Equipment Operator:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Spotter:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Random Load Inspection Dates:	2/18/10			

Comments: ~ 1200 - 1300 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		None.
3.		
4.		

Comments:

future soils will be rejected if wet. loads expected later this week.



L. Other Comments:

- \* Header work halted waiting on materials from factory.
- \* Operator on vacation, one sub onsite from Glacier Ridge.
- \* DNR Site Visit scheduled for Tuesday
- \* Compact Area Receiving large amount of Magnetite. Expecting ~ 2000 tons

Auditor's Signature: \_\_\_\_\_

Auditor's Printed Name: \_\_\_\_\_

Management Signature: \_\_\_\_\_

Management Printed Name: \_\_\_\_\_

Management Title: \_\_\_\_\_

JSA Principal Signature: \_\_\_\_\_

Date: 2/19/10

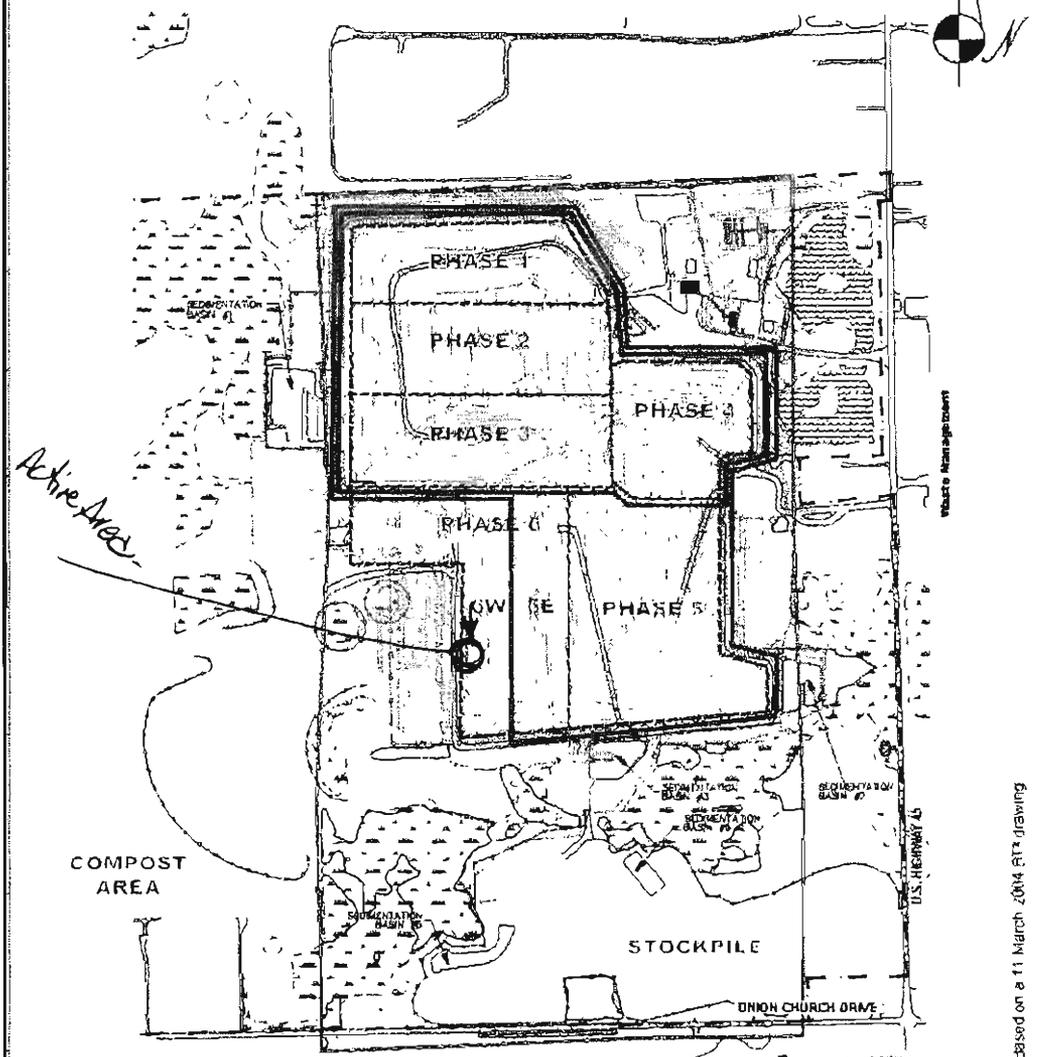
Date: 2/19/10

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020.10030



based on a 11 March 2014 RTA Drawing

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

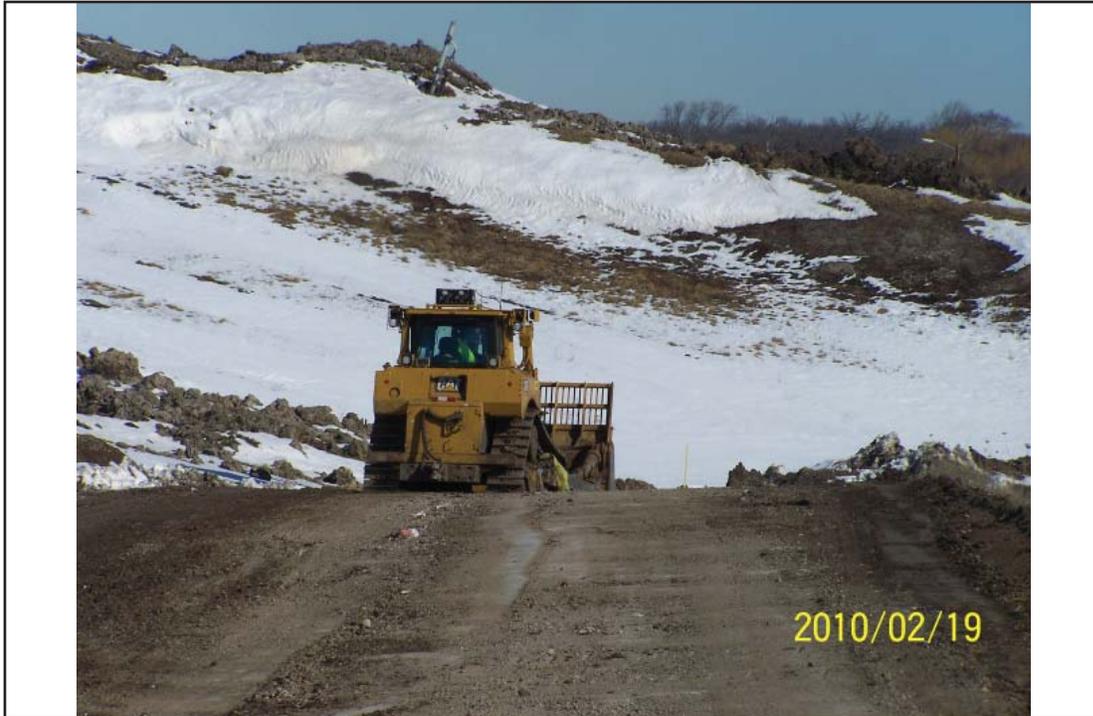
325 West Vine Street  
Milwaukee, Wisconsin 53212



Sloppy load of soils recieved



Soils in Phase 2 & 3



Roads being graded to compensate for winter waer



Compost yard secured and gate impassable



Loads of Milorganite being received in Compost Yard for use on site in spring.







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 02/26/10

**PROJECT NUMBER:** 1012.10030

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Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of February 22, 2010. The audit was performed at 3:00 pm on **February 25, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

The following conditions were noted during this opening audit of the VEPL Facility:

- One working faces at facility
  - Working face for MSW only in middle of Phase 6E/W
  - Cover in good condition
  - Site soils and Auto-fluff in use as cover
- Leachate being discharged to MMSD all week
  - No Recirc
  - Leachate elevations above 1'
- Flare in operation during audit
  - No Shutdowns
  - vegetation snow covered
- Site conditions frozen, some thawing occurring, but no surface water impacts
- No odors off site during audit
  - Minor odors above and about working face
- Litter recorded on site
  - No off site litter
  - One picker active during audit
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection to be perform 2/25
- US 45 and 8 Mile Road clean
  - Compost area access road sloppy and soft
- Special Services on site performing header line tie-in.
  - Preparing bio-soil pile for treatment
  - Extending injection well in Phase 5 for new lift elevation.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE February 25 2010  
 Auditor on site at  Open  Close

TIME 2:10pm  
15 MPH

WEATHER Cold, Clear

WIND North West

TEMP Maximum 26 °F Minimum 13 °F

B.P. 30.10

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	<u>Compactor</u>						
<u>2</u>	<u>Dozer</u>						
<u>1</u>	<u>Excavator</u>						
	<u>Haul Truck</u>						
	<u>Water Truck</u>						
	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at Middle of Phase 6E/W  
~ 50' x 100'

Cover in good condition



Cover Material: Site Soils and Antifluff for cover.

B. Leachate Management: Still above 1", pumping continuing.  
no recirc.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	N/A
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	N/A
Shutdowns Since Last Audit:	# <u>0</u>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Site Snow Covered

D. Surface Water Management:

Storm Events Since Last	# <u>1</u>	Est. Volume	<u>—</u>
-------------------------	------------	-------------	----------

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

about 1/2" inches of snow on Wednesday, little left on site.

E. Odor Control:

Odors Present: 

Onsite <input checked="" type="checkbox"/>	Offsite <input type="checkbox"/>
--	----------------------------------

Comments:

minor gas and visible odors above working face.

F. Special Waste Handling: storage of fingerprint samples and testing procedures

No



G. Litter Control:

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

Comments: *No Litter offsite, 1 Litter present onsite*

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

*US 45 & 8 Mile Clean*

*Compost Road Slippy and Soft.*

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"/>	#	
Spolter:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	

Random Load Inspection Dates:

Comments: *Expected Soon on Random loads. Likely today.*

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		<i>None</i>
4.		

Comments:



L. Other Comments:

\* Special Services digging trenches in old bio pile.

\* Injection Well being extended for lift.

\* Still reviewing Milorganite in compost area deliveries expected through Monday.

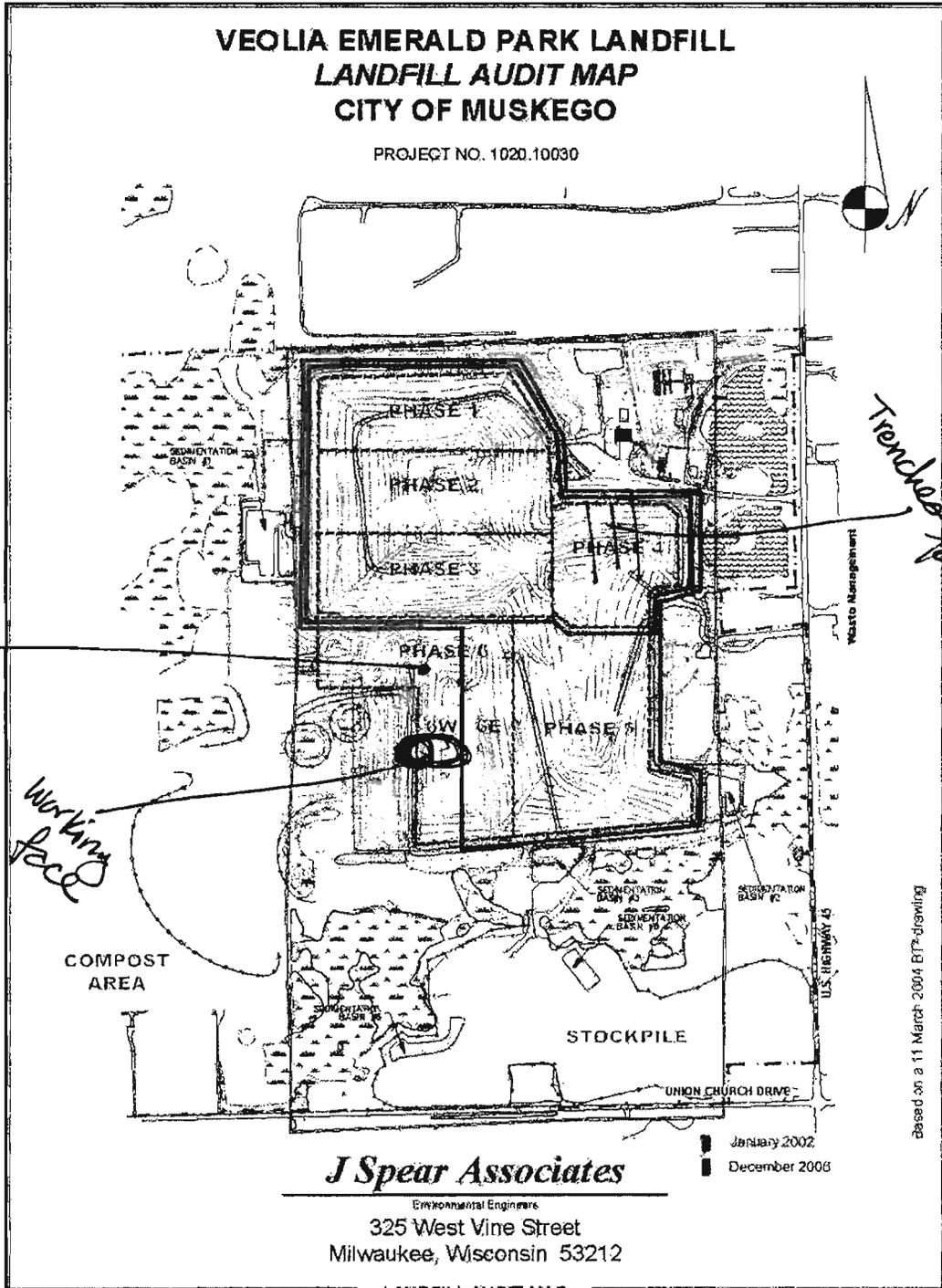
Auditor's Signature: *[Signature]*  
Auditor's Printed Name: ANNA KRACK  
Management Signature: *[Signature]*  
Management Printed Name: Jordan Jacobi  
Management Title: GAS MANAGER  
JSA Principal Signature: \_\_\_\_\_

Date: 2/25/10  
Date: 2/25/10  
Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



*improvement well.*

*Working face*

*Trenches for labo soils*

**J Spear Associates**

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

January 2002  
December 2006

based on a 11 March 2004 EIT's drawing





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Digging trench in old Bio soils pile on Phase 5



Trench in old bio soils pile



Site snow covered again.



Milorganite loads delivered to compost yard





March





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 03/04/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of March 1, 2010. The audit was performed at 2:30 pm on **March 3, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- One working faces at facility
  - Working face for MSW only in middle of Phase 6E/W
  - Cover in good condition
  - Site soils and Auto-fluff in use as cover
- Leachate being discharged to MMSD all week
  - Leachate elevations above 1'
  - Expected to recover maintenance levels this week
- Flare in operation during audit
  - Flare shutdown expected from 3/3 to 3/5 for header work
  - vegetation snow covered
- Site thawing, standing water on access roads
  - No standing water in active area
- No odors off site during audit
  - Gas odor at South end of Phase 6
- Litter well managed on site
  - No off site litter
  - Three pickers active during audit
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection to be perform 2/25
- US 45 and 8 Mile Road clean
  - Sweeper on site 3/3 and during the previous week
- Special Services on site performing header line tie-in.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



## MEMORANDUM

- Extending injection well in Phase 5 for new lift elevation.

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE March 3, 2010  
Auditor on site at:  Open  Close

TIME 2:30 pm

WEATHER Clear, Sunny

WIND Brisk NW

TEMP Maximum 38 °F Minimum 19 °F

B.P. 30.04

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

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

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	D6	X			back in final on track		

A. Working Face Size and Location:

~~active sites~~ Working face ~ 50' x 75' at center of 6th/E.



Cover Material:

Cover in good condition, dustfluff & scuffs and sands for cover.

B. Leachate Management: Expecting to be below 1' in S by Thurs, back down to Maintenance in 6. No Recirc. offsite Pumping all the time.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# /			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Flare Shut down @ 9am on 3/3, expecting to relight on Friday or Saturday at the latest.

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume
	2	

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

Site showing some standing water on roads, none on active areas.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

~~At Phase 6~~ Gas odor strong on South side of Phase 6 E/W.

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# <u>31</u>

Comments: No Litter Seen off Site

3 pickers out on Monday. Litter well controlled on site

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

US 45 & 8 Mile Road Clean and Dry.

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 type="checkbox"/>	#	
Random Load Inspection Dates: <u>2/25/10</u>				

Comments: ~ 1300 tpd.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		<u>None</u>
4.		

Comments:



L. Other Comments:

- \* Site approved for late work through 3/10/10 by header.
- \* Leachate levels still elevated, ~~is~~ reported as action item from previous week.
- \* Milorganite almost all received. Shipments slowed.
- \* Sweeper onsite on 3/3 and last week as well.

Auditor's Signature: *[Signature]* Date: 3/3/10  
Auditor's Printed Name: ANNA KRAJCIK  
Management Signature: *[Signature]* Date: 3/3/10  
Management Printed Name: Jordan Jacobi  
Management Title: GAS MANAGER  
JSA Principal Signature: \_\_\_\_\_ Date: \_\_\_\_\_

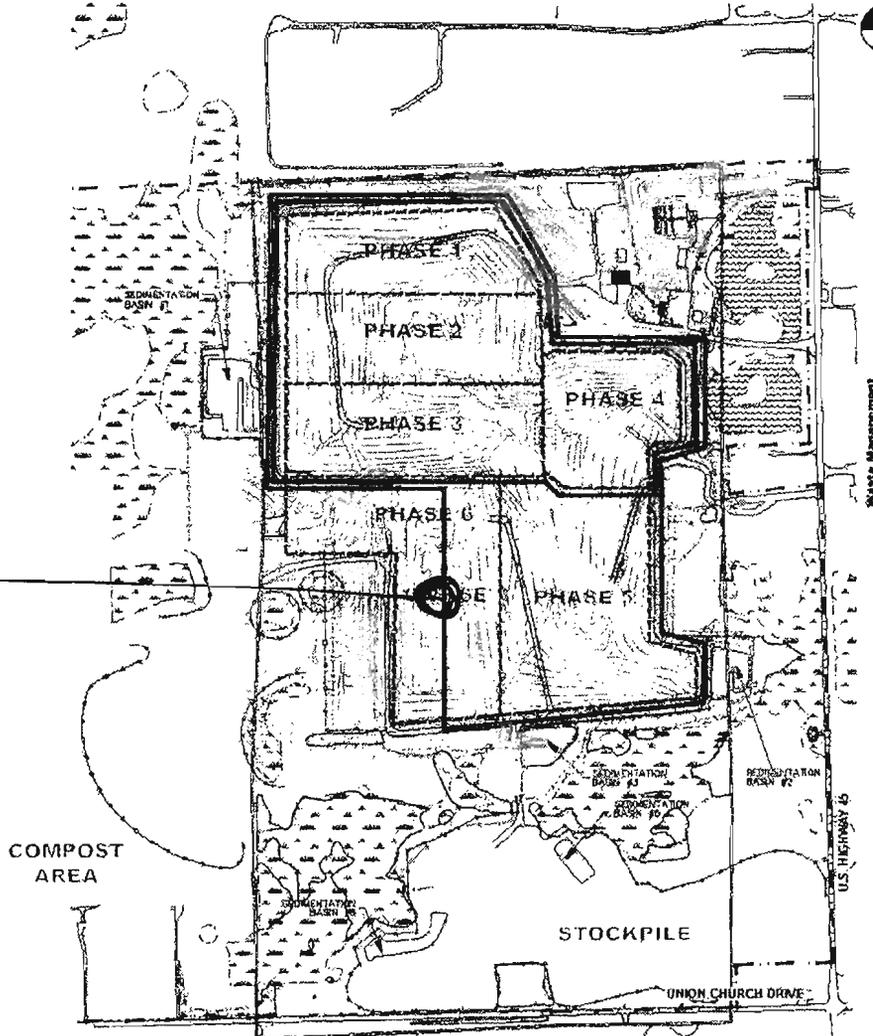


**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



*Working Area*



COMPOST AREA

STOCKPILE

UNION CHURCH DRIVE

- January 2002
- December 2006

***J Spear Associates***

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

Issued on 31 March 2004 B77 drawing





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Soils delivered in Phase 2 and 3



Soils delivered in Phase 2 and 3



Header work



Milorganite loads delivered to compost yard





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 03/11/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of March 8, 2010. The audit was performed at 2:30 pm on **March 11, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- One working faces at facility
  - Working face for MSW only at North end of Phase 6E/W
  - New asbestos pit at South end of Phase 6E/W
  - Cover in good condition
  - Site soils and Auto-fluff in use as cover
- Leachate being discharged to MMSD all week
  - Leachate volumes all at maintenance levels
- Flare in operation during audit
  - Flare restarted on March 7, 2010
- Site thawing, standing water on access roads
  - Standing water on Phase 2 & 3
  - Phases 4, 5, & 6 have had sump trenches dug to drain water
- No odors off site during audit
  - Odors around active area
- Litter well managed on site
  - Litter in ditches of area roads
  - Two pickers active during audit
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection to be perform 2/25
- US 45 and 8 Mile Road clean
  - Site entrance way gritty

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



## MEMORANDUM

- Extending injection well in Phase 5 for new lift elevation.

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE March 11, 2010  
Auditor on site at: Open  Close

TIME 2:30pm

WEATHER Rainy and Foggy

WIND East Mild

TEMP Maximum 53 °F Minimum 41 °F

B.P. 29.60

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face on North end of 10 E/W  
~ 75' x 75'

Cover on top of face in good condition

New asbestos pit located at South end of 10 E/W



Cover Material: auto fluff for daily cover

B. Leachate Management: levels all below maintenance Pumping to MMSD.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	<u>N/A</u>
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Dead <input type="checkbox"/>

Comments: Flare restarted on Saturday ~ 1400 SEFM

D. Surface Water Management: Storm Events Since Last # 2 Est. Volume

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

Some Standing water on Phase 2 & 3, Sump trench dug on edge of Phases 6, 5 & 4 to mitigate surface water.

Site Melting and taking rainfall.

E. Odor Control: Odors Present: Onsite  Offsite

Comments: minor odors up wind of Active Area no odors of site.

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input 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:

Moderate litter in ditches along US 45 & 8 mile Rds.

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

US 45 & 8 Mile Clean, apron gritty.

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 type="checkbox"/>	#	
Random Load Inspection Dates:	3/11/10			

Comments: ~ 1300 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

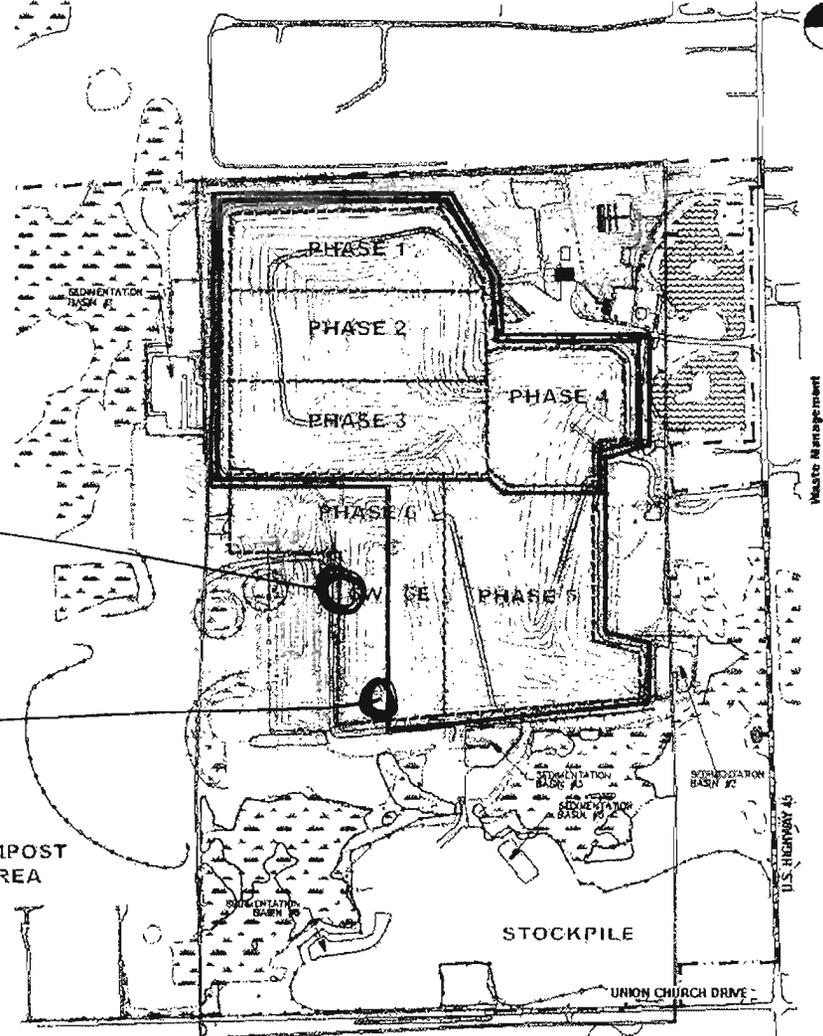
Comments:





**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



*Active area*

*Asbestos pit.*

based on a 11 March 2004 BT\* drawing

January 2002  
December 2006

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/10					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Soils delivered in Phase 2 and 3



Soils delivered in Phase 2 and 3



Header work



Milorganite loads delivered to compost yard





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Anna Krajcik

**COPIES:** File

**DATE:** 03/24/2010

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of March 15, 2010. The audit was performed at 11:10 am on **March 17, 2010** by Jo Spear Jr. in the presence of Jay Warzinski.

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

- MSW being tipped in northwest corner of Phase 5/6E
  - Outboard slope (west) cover has some flagging, being cut and regraded
  - Bio soils in Phase 2 & 3 being treated
  - Site soils and Auto-fluff in use as cover
- Leachate being discharged to MMSD all week
  - 2 wells above maintenance levels
- Flare in operation during audit
  - Area around flare under repair, back fill expected at end of week
  - Top soils and seeding to follow
- Site completely thawed, minor rills previously noted
- No odors off site during audit, minor gas odor at well being adjusted by tech
- Litter conditions relatively good for after the thaw
  - No off site litter
  - Six pickers active during audit
- Tipping scale camera and equipment operators inspecting waste; ~1400tpd
  - Random Load inspection to be perform 2/25
- US 45 and 8 Mile Road clean
  - Site roads somewhat dusty
- Phase 4 & 5 to be regarded on outboard slope after header repair. Slopes will require seeding.
- Slope reclamation on South Slope of Phase 5 by outside contractor expected early this summer.
- Seeding will follow repairs
- Jay approved as interim Manager under DNR NR500



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE MARCH 17, 2010  
 Auditor on site at: Open  Close

TIME 1110

WEATHER CLEAR SUNNY SPRING DAY

WIND BLUZZER N 0-5

TEMP Maximum 58 °F Minimum 39 °F

B.P. 30.18

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>1</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper		<u>3/16 &amp; 3/18</u>				

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

PTD SOIL ON PHASE 3, TWO BED SOIL UNDER TREATMENT

MSW BEING TIPPED TO NORTHWEST CORNER OF PHASE 5/6

OUT BOARD SLOPE (WEST) COVER HAS SOME FLAGGING BUT SHOULD BE CUT & REGRADED



Cover Material:

AUTOFLUFF & SAVE SOILS.

B. Leachate Management:

DISCHARGE TO MMSD, TWO WELLS ABOVE MAINTENANCE LEVELS.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1		
Turbines in Operation:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	#	NA		
Engines in Operation:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	#	NA		
Shutdowns Since Last Audit:	#							
Vegetation Condition:	Good	<input type="checkbox"/>	Fair	<input type="checkbox"/>	Poor	<input type="checkbox"/>	Dead	<input type="checkbox"/>

Comments:

AREA AROUND FLARE UNDER REPAIR. BACK FILL EXPECTED END OF WEEK, TOP SOIL & SEEDING TO FOLLOW

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:

SETE COMPLETELY THAWED. MOUND RELS PREVIOUSLY NOTED

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

NO OFFSITE ODOES. MOUND GAS ODOE AT WELL BEING ADJUSTED BY TECH

F. Special Waste Handling: storage of fingerprint samples and testing procedures

NONE



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 26

Comments:

Site conditions relatively good for after the thaw.

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

US 45 & 8 Mile ROAD CLEAN.

SITE ROADS ~~ARE~~ SOME WHAT DUSTY.

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"/>	#	3
Spotter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates:				

Comments:

~ 1,400 TPD.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* PHASE 415 TO BE REGRADED ON OUTBOARD SLOPES AFTER HEADER REPAIR. SLOPES WILL REQUIRE SEEDING

\* SLOPE RECLAMATION FOR DN SOUTH SLOPE OF PHASE 5 BY OUTSIDE CONTRACTOR, EXPECTED THIS SUMMER, EARLY.

\* SEEDING WILL FOLLOW REPAIRS

\* JAY APPROVED AS AN INTERIM MANAGER, UNDER DNR NR500

Auditor's Signature: \_\_\_\_\_

Auditor's Printed Name: \_\_\_\_\_

Management Signature: \_\_\_\_\_

Management Printed Name: \_\_\_\_\_

Management Title: \_\_\_\_\_

JSA Principal Signature: \_\_\_\_\_

Date: 3/17/10

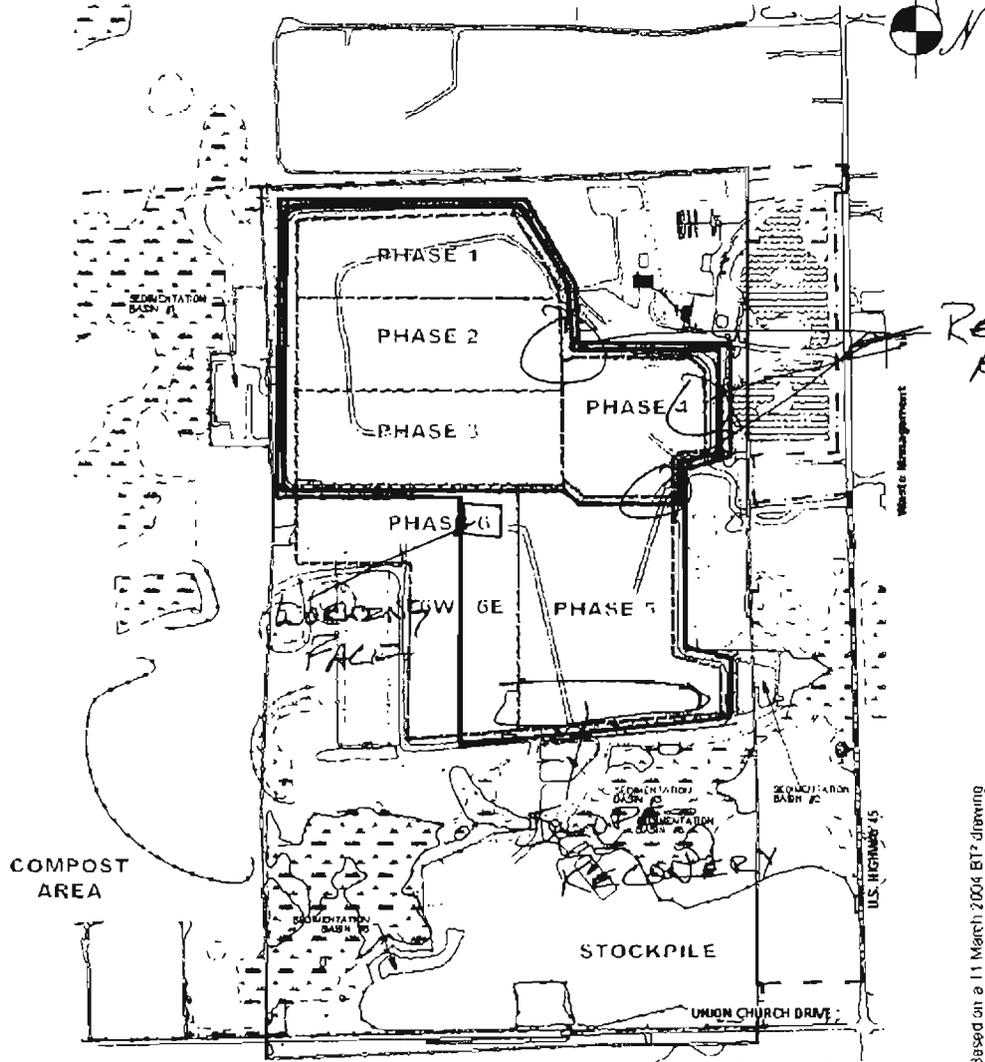
Date: 3/17/10

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



COMPOST  
AREA

STOCKPILE

UNION CHURCH DRIVE

- January 2002
- December 2006

**J Spear Associates**

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

RESTORATION  
AREAS

based on a 11 March 2004 BT7 drawing





# VEOLIA EMERALD PARK LANDFILL AUDIT PHOTOS CITY OF MUSKEGO

PROJECT NO. 1012.10030



Connection to flare awaiting back fill



Header area backfilled

**JSA** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Backfilled area at Phase 3&4, grading, topsoil placement, and seeding to be done



Phase 4 slope



Active Area



Slope alignment on West slope of Phase 6E to be regraded in dryer conditions



Asbestos pit at South end of Phase 5/6E



South end of Phase 6E/6W to be recovered this summer



South end of Phase 5/6E to be recovered this summer



West slope of Phase 6W, temp sed pond being picked during audit.





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 03/26/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of March 22, 2010. The audit was performed at 1:30 pm on **March 25, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- One working faces at facility
  - Working face for MSW at South end of Active Area
  - Cover in good condition
  - Site soils and Auto-fluff in use as cover
  - Side slopes being dressed
- Leachate being discharged to MMSD all week
  - Leachate elevations above 1' in Phase 5
- Flare in operation during audit
  - Flare shutdown on March 18, 2010 for four hours while pipes were repaired
  - vegetation exposed and is in fair condition
- Snow cover completely melted
  - No standing water in active area
- No odors off site during audit
- Litter heavy on site
  - No off site litter
  - Three pickers active during audit and scheduled for the remainder of the week
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection performed on March 18, 2010
- US 45 and 8 Mile Road clean
  - Sweeper on site on March 24, 2010
- Grading work on East side of Phase 4&5 ongoing.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE March 25, 2010

TIME 1:30pm

Auditor on site at: Open  Close

WEATHER Overcast to Sunny

WIND Stiff / strong NE

TEMP Maximum 41 °F Minimum 21 °F

B.P. 30.02

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
<u>1</u>	Water Truck						
<u>1</u>	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at South end of Active Area.  
Filling in West edge of Phase now that  
Slope is dried out (No Snow)



Cover Material:

Leachate luff and some soils for cover.  
Cover in good shape on top of Phase 1. Sides being  
winked with.

B. Leachate Management: Pumping to MMSD  
high in 5. other areas are ~~low~~ below Maintenance

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

1 new shut down on Thursday last week  
to address pipes that settled  
~ 1800 scfm

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:

Conditions dry.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No offsite or onsite odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	heavy
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# <del>2</del> 3

Comments:

3 pickers Active and Scheduled for Remaining Week  
 Winds causing high litter volumes on site most,  
 caught in fencing and trees on South side of site

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

US 45 & 8 Mile in Good condition

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 type="checkbox"/>	#	
Random Load Inspection Dates:	3/18/200			

Comments: ~ 1400 - 1300 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		

Comments: None



L. Other Comments:

\* East side of Phase 4/5 to be graded  
in next few days.

\* Sweeper on 3/29/10

Auditor's Signature: \_\_\_\_\_



Date: 3/23/10

Auditor's Printed Name: \_\_\_\_\_

AnyA KRAVCIK

Management Signature: \_\_\_\_\_



Date: 3/25/10

Management Printed Name: \_\_\_\_\_

Jordan Jacobi

Management Title: \_\_\_\_\_

GAS MANAGER

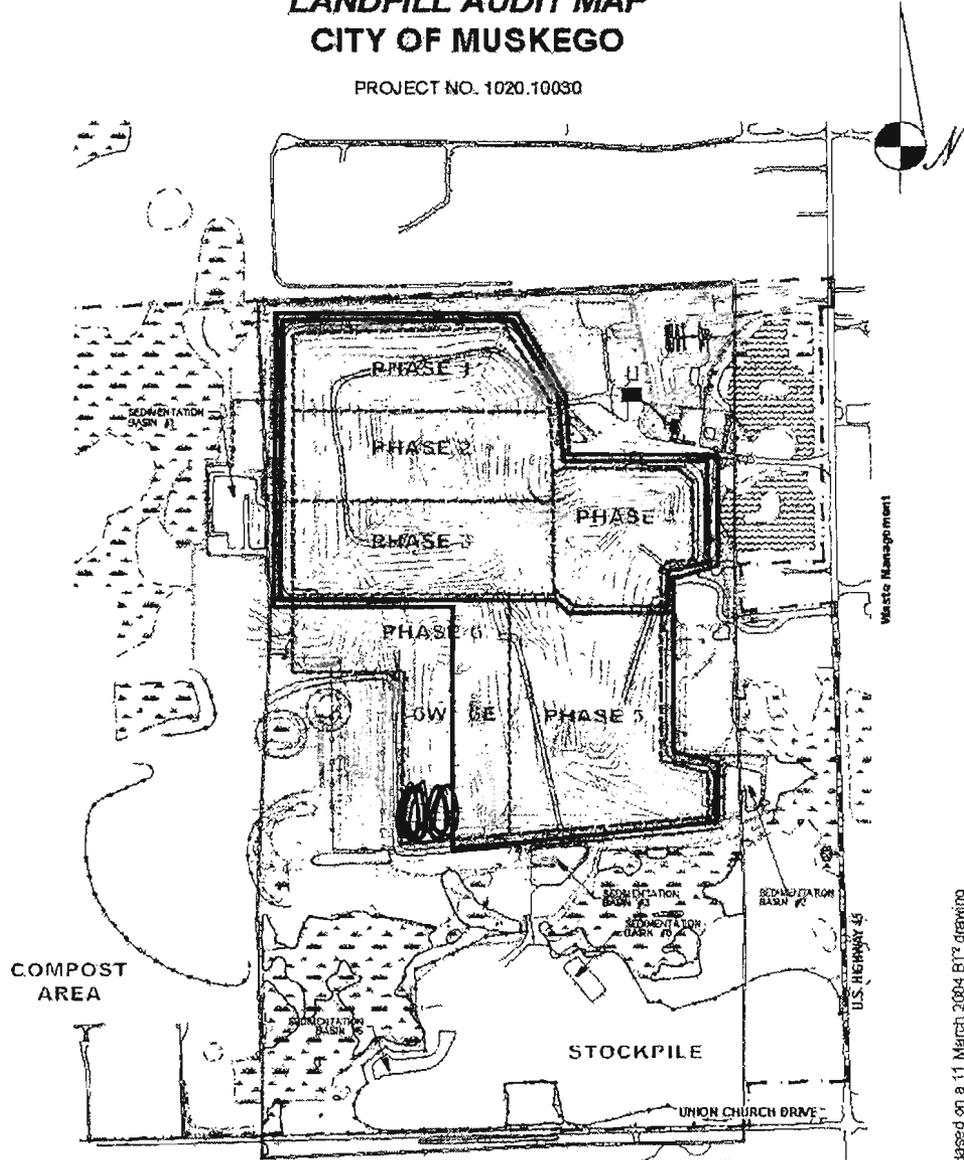
JSA Principal Signature: \_\_\_\_\_

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



closed on a 11 March 2004 B17 drawing

***J Spear Associates***

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area



Working Face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



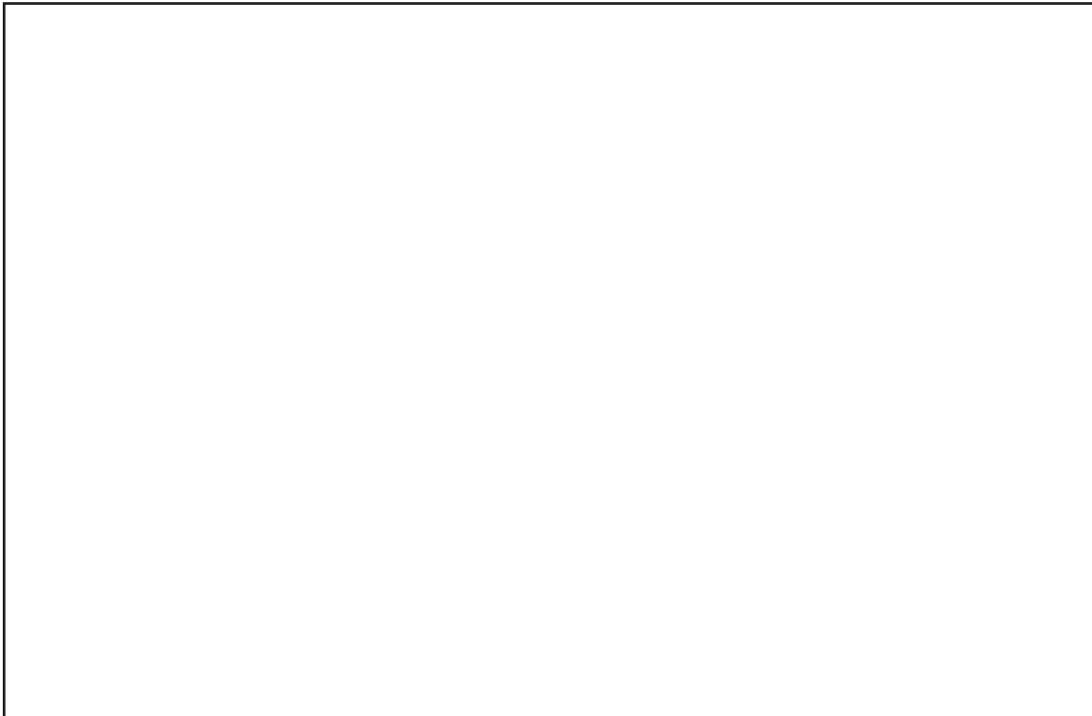
Soils in Phase 2 and 3 being moved for testing



Litter extremely high due to strong winds



Header work







April





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 4/10/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of April 5, 2010. The audit was performed at 12:00 pm on **April 7, 2010** by Jo Spear Jr. in the presence of Jordan Jacobi.

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

- Working face on west slope of active area, no soils received.
  - Foundry sands stockpiled for use as daily cover, north of active area
  - No clay placements until stockpiles are decided
  - Autofluff stockpiled on Phase 5
- Leachate being discharged to MMSD all week
  - Leachate elevations above 1' in Phase 5, believed to be caused by a clogged well
- Flare in operation during audit
  - No shutdowns, ~1900 cfm
  - vegetation is in fair condition
- Two storm events since last audit
  - Ponding on site in Phase 4, 5, and 3; new rils in repaired areas
- No odors on or off site
- Litter on site, 2 pickers active
  - Litter in fences on site, wet conditions keeping litter from blowing
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection performed on March 31, 2010 ~ 1400tpd
- Site roads and US 45 have heavy tracking
- Active area employing autofluff for outboard slope cover
- Site utilizing two water trucks owned by Veolia
- Action Item: Inadequate cover at southern corner of active area, poor cover over two audits
- Phase 6 W seeps repaired

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE APRIL 7, 2010  
Auditor on site at:  Open  Close

TIME 12:06

WEATHER RAINY OVERCAST

WIND N-NE 10-20

TEMP Maximum 46 °F Minimum 34 °F

B.P. 29.68

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						
<u>1</u>	<u>LEACHATE TREAT GREENS</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

WORKING FACE ON WEST SLOPE OF ACTIVE AREA  
NO SPILL RECEIVED, FOUNDRY SANDS BEING STOCKPILED  
FOR COVER, NORTH OF ACTIVE AREA



Cover Material:

AUTODELUER STOCK PELED ON PHASE 5  
NO CLAY PLACEMENT UNTIL ELEVATIONS ARE DECIDED

B. Leachate Management:

ABOVE LEACHATE MAINTENANCE IN ONE PHASE 5 WELL  
ONE WELL BELIEVED TO BE LOGGED

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# NONE			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

NO SHUTDOWN VEG. RECOVERING ~ 1900 CFM

D. Surface Water Management:

Storm Events Since Last	# 2	Est. Volume	1.5
-------------------------	-----	-------------	-----

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

PONDING ON SIDE OF SW PHASE 4, 5, & 3.  
NEW BELLS IN REPAIRED AREAS

E. Odor Control:

Odors Present: Onsite  Offsite

Comments: NO ODORS ON OR OFF SITE

F. Special Waste Handling: storage of fingerprint samples and testing procedures

NONE



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 2

Comments:

LOOSE JS FENCES ON SITE WET CONDITIONS  
KEEPING LITTER FROM BLOWING

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

SITE ROADS AND US 45 HAVE HEAVY  
TRACKING

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"/>	#	2
Spotter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates:	3/21/10			

Comments:

~ 1,400 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		<u>NONE</u>
2.		
3.		
4.		

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



L. Other Comments:

- \* ACTIVE AREA EMPLOYING AUTOFLUFF FOR  
OUTBOARD SLIPPER COVER
- \* SEEP EMPLOYS OLD WATER TRUCK (RED)  
ADD ONE WATER TRUCK (GREENS)
- \* ACTION ITEM: IN ADEQUATE COVER AT ~~THE~~ SOUTHWEST  
CORNER OF ACTIVE AREA. POOR COVER OVER TWO  
AUDITS
- \* PHASE 6W SEEPS REPAIRED

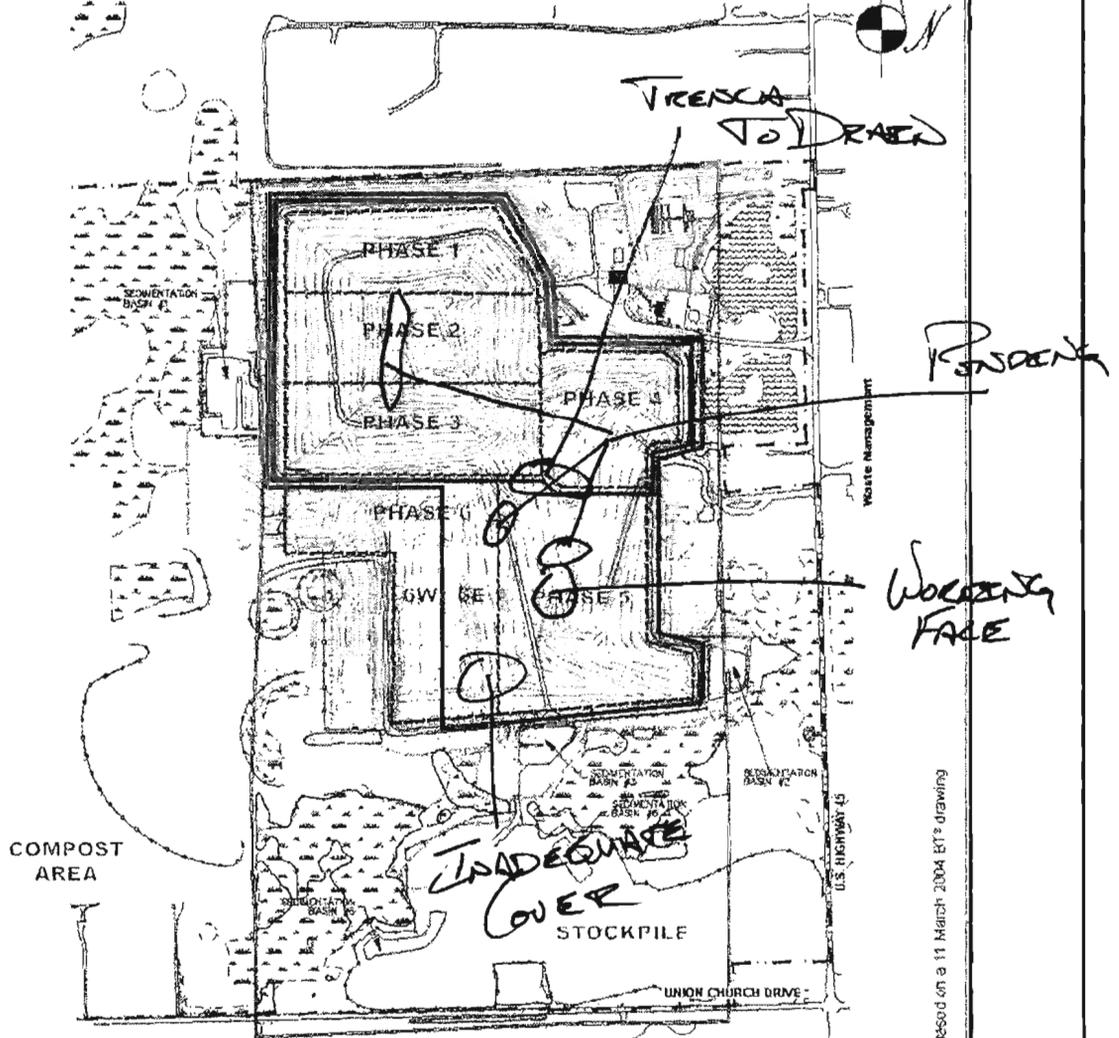
Auditor's Signature: *[Signature]*  
 Auditor's Printed Name: Foye Walter Spear Jr  
 Management Signature: *[Signature]*  
 Management Printed Name: Jordan Jarobi  
 Management Title: GAS Manager  
 JSA Principal Signature: \_\_\_\_\_

Date: 4/7/10  
 Date: 4/7/10  
 Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



dated on a 11 March 2004 RT's drawing

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Working Face



Active area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Working Face



Soils



Header work



West Slope







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 04/23/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of April 18, 2010. The audit was performed at 1:30 pm on **April 23, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- One working faces at facility
  - Working face for MSW at North end of Phase 5&6; 75' x 75'
  - Cover in good condition
  - Site soils and Auto-fluff in use as cover
- Leachate being discharged to MMSD all week
  - Leachate elevations above 1' in Phase 5
- Flare in operation during audit
  - Flare shutdown over weekend
  - ~1,900 cfm destructed
- Drainage way cut between phases 3 & 5 to drain water away from contact with Active Area
- No odors on or off site during audit
- Minor Litter on US 45
  - No off site litter
  - One pickers active during audit and scheduled for the remainder of the week
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection performed on April 21, 2010
- US 45 and 8 Mile Road dusty, but clear of Debris
- Bio-pile on Phase 2 & 3 tested and passed, being used for various intermediate cover about active area
- Oaks on site crushing concrete in Compost Area
- Slope reclamation preparations started

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE April 23, 2010

TIME 3:00pm

Auditor on site at:  Open  Close

WEATHER Partly Cloudy

WIND East, Breezes

TEMP Maximum 58 °F Minimum 49 °F

B.P. 29.91"

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

NO.	DESCRIPTION	Rented	Contracted	NO.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>1</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
<u>1</u>	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

NO.	DESCRIPTION	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at North end of S<sub>1</sub> to ~ 75' x 75'



Cover Material:

Autofill & Site Soils for cover.  
Cover in good condition on top, sides messy.

B. Leachate Management:

Phase 5 still elevated, everything else at or below maintenance.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	#		1	
Vegetation Condition:	Good <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

1 shutdown over weekend, unscheduled  
~ 1900 scfm.

D. Surface Water Management:

Storm Events Since Last	# 5	Est. Volume	
-------------------------	-----	-------------	--

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

Site dry. Channels cut from Phase 2 & 3 to the Main Catch Basin and away from 5 & 6 to handle expected rain this morning.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

None

F. Special Waste Handling: storage of fingerprint samples and testing procedures

Vegetation loads mixed w/ <sup>site</sup> compost.



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Minor
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Minor litter on US 45

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

US 95 & 8 mile Clean but dusty.

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 type="checkbox"/>	#	
Random Load Inspection Dates:	4-21-10			

Comments: loads done over ~ 3500 TPD about 2 per week  
 ~ 1500 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		None
4.		

Comments:



L. Other Comments:

- \* Soils tested and cleared in Phase 2 & 3 can be used for cover.
- \* Oaks onsite crushing concrete.
- \* Site Preparing to Push west on face slope reclamation.
- \* Examining Head well in 5 to discover reason for elevated Reading of leachate.
- \* High Volumes of Residential drop off.

Auditor's Signature: \_\_\_\_\_

Auditor's Printed Name: \_\_\_\_\_

Management Signature: \_\_\_\_\_

Management Printed Name: \_\_\_\_\_

Management Title: \_\_\_\_\_

JSA Principal Signature: \_\_\_\_\_

Date: 4/23/10

Date: 4/23/10

Date: \_\_\_\_\_



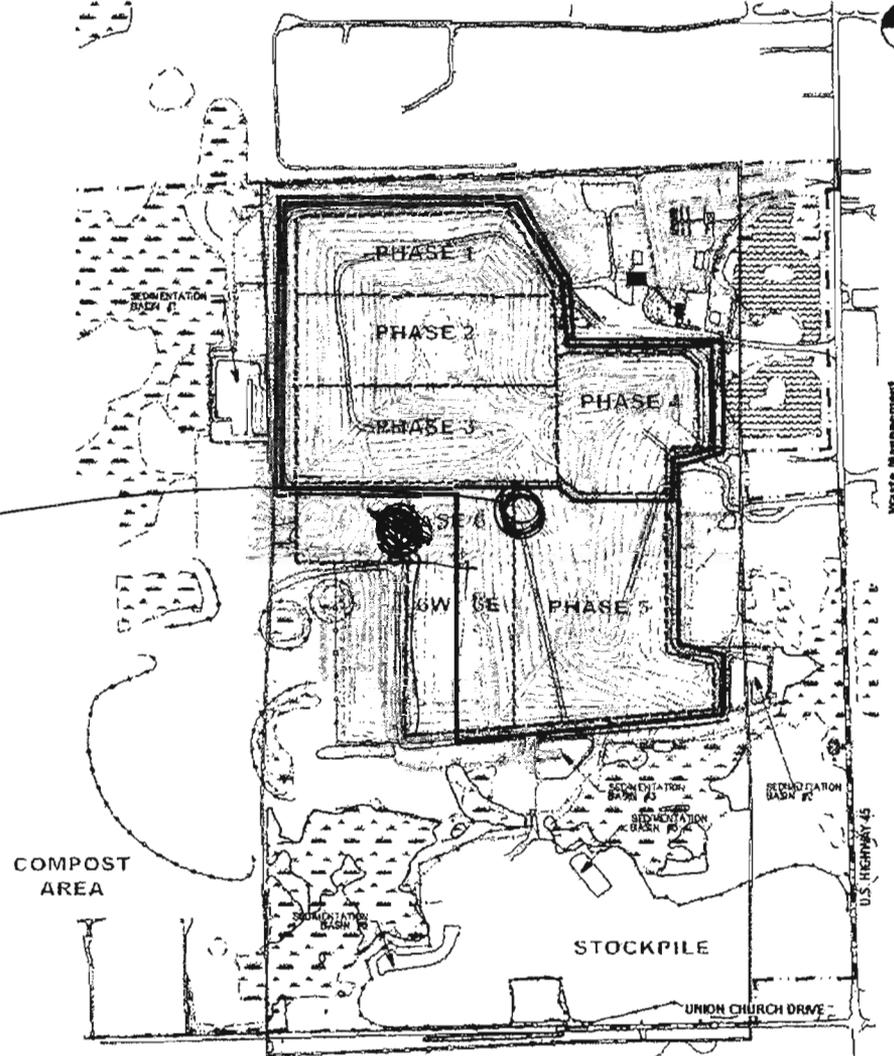
**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030

←  
wind



Active Area



COMPOST AREA

STOCKPILE

- January 2002
- December 2008

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

Classed on a 11 March 2004 617 drawing











May





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 5/7/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of May 3, 2010. The audit was performed at 11:30 am on **May 7, 2010** by Jo Walter Spear Jr. in the presence of Jordan Jacobi.

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

- Working face at Northwest corner, falling in against Phase 3 & 4
  - Cover about Phase 6 West Slope in poor condition
  - Autofluff for cover, numerous stockpiles
  - Autofluff on outboard slope
- Leachate being discharged to MMSD
  - Leachate elevations above 1' in Phase 5
- Flare in operation during audit
  - Flare shutdown from 4/30/10 – 5/1/10 due to power issues
  - 8 hours before being re-lit, vegetation in fair condition
- Some new rills, site erosion control repairs ongoing.
- No odors off site during audit
- Heavy winds this week, onsite litter reduced; 5 pickers active
  - No off site litter
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection performed on 5/4/10 and 5/7/10
- US 45 and 8 Mile Road clean, turn lanes have some debris
- Header slope repairs completed
- Repairs and recovery to south Phase 5 slope ongoing
- Strong odor of gas at Phase 6 Vault, will check next audit.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE MAY 7, 2010  
 Auditor on site at: Open  Close

TIME 11:30

WEATHER RAINING, OVERCAST

WIND N-10-25

TEMP Maximum 47 °F Minimum 39 °F

B.P. 29.78

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
2	Dozer						
1	Excavator						
1	Haul Truck						
	Water Truck						
1	Sweeper		2/1 Per Week				

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	EXCAVATOR		✓				
1	WATER TRUCK		✓				

A. Working-Face Size and Location:

WORKING FACE IN NORTHWEST CORNER, FILLING  
IN AGAINST PHASE 3 & 4.  
COVER ABOUT PHASE 6 WEST SIDE IN  
POOR CONDITION



Cover Material:

AIRFLOW FOR COVER; NUMEROUS STACK PILES  
AIRFLOW ON OUTBOARD SLOPE

B. Leachate Management:

Discharge to MMSP.  
LEACHATE WELL SW OVER 1'

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 7/30 - 8/1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Shutdown due to power issues ~8 hours before being relif

D. Surface Water Management:

Storm Events Since Last	# 1	Est. Volume	Outgoing
-------------------------	-----	-------------	----------

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

Some need rills, site erosion control repairs ongoing

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No OFFSITE ODORS OR ON-SITE ODORS  
See Notes

Special Waste Handling: storage of fingerprint samples and testing procedures

NONE



G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 5

Comments:

Heavy winds this week, Onsite litter reduced.

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

US 45 TURN LANES ADD DEBRIS, REMAINING  
ROADS CLEAN

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
Equipment Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	
Spotter:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	#	

Random Load Inspection Dates:

5/4 & 5/7

Comments:

Two loads per week - 1,500 - 1,700 VPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:

None



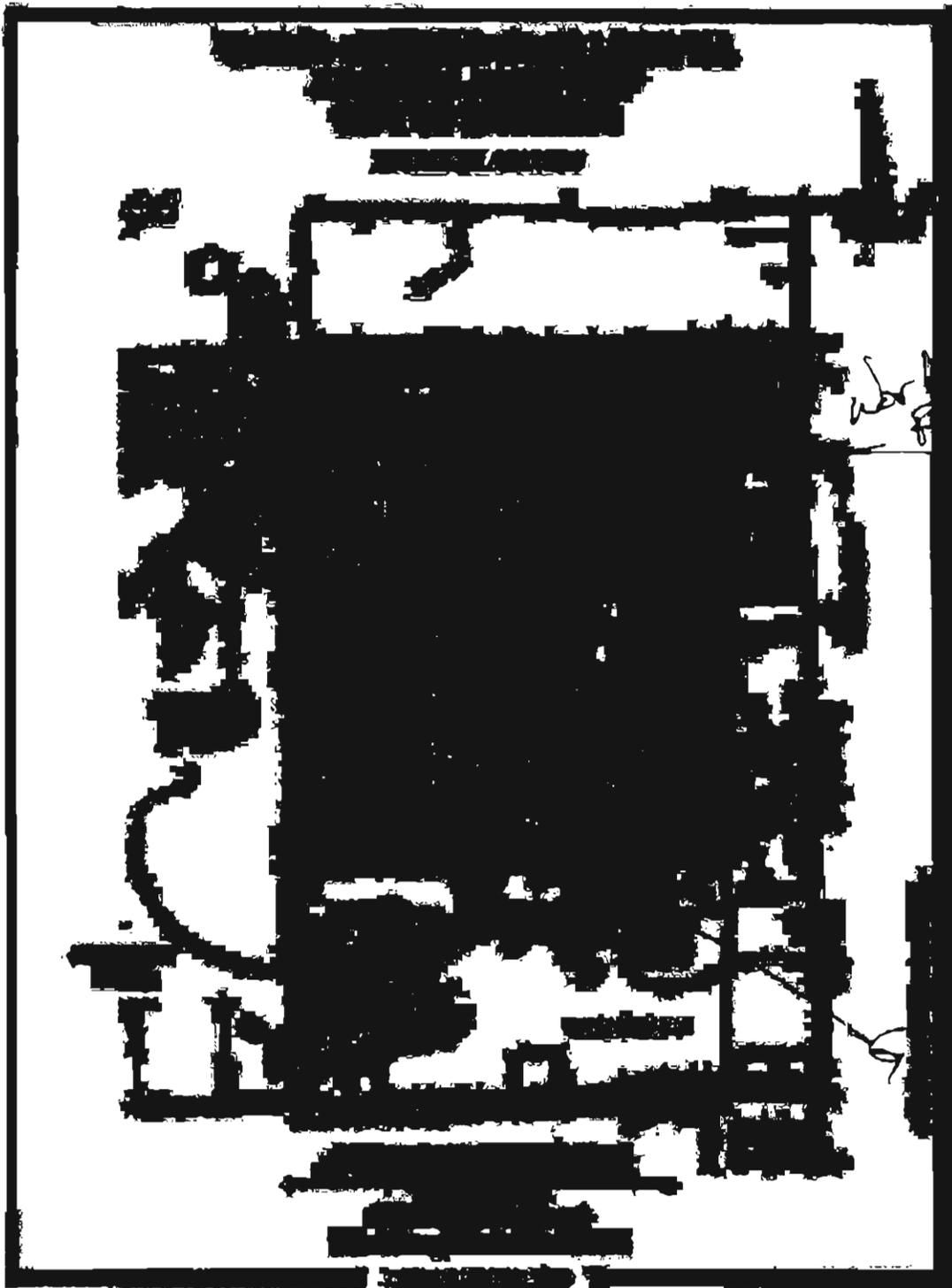
L. Other Comments:

- \* Header slope repairs completed
- \* Repairs & Recovery to South Phase 5 Slope ongoing
- \* Strong odor at Phase 6 Vault  
Will check next Audit.

Auditor's Signature: *J. Walter Spear, Jr.*  
Auditor's Printed Name: J. Walter Spear, Jr.  
Management Signature: *Jordan Jacobi*  
Management Printed Name: Jordan Jacobi  
Management Title: \_\_\_\_\_  
JSA Principal Signature: \_\_\_\_\_

Date: 5/7/10  
Date: 5/7/10  
Date: \_\_\_\_\_





W. 100

G. 100





# VEOLIA EMERALD PARK LANDFILL AUDIT PHOTOS CITY OF MUSKEGO

PROJECT NO. 1012.10030



Area at Phase 3/4 junction where header repair occurred



Slope restored, awaiting seeding.

**JSA** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Areas repaired on Phase 4, East slope



Compactor above waste



Existing outboard slope conditions



Current conditions in active area and clean out



South slope of Phase 5, under repair



Top soil recovered from slope, stock piled to be replaced



South slope of Phase 5/6



West slope of Phase 6, at South end



Poorly covered waste from previous days activities



Poorly covered waste from previous days activities







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 5/13/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of May 10, 2010. The audit was performed at 10:15 am on **May 13, 2010** by Jo Walter Spear Jr. in the presence of Jordan Jacobi.

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

- Working face at East end of Phase 5/6E against Phase 3
  - Working face small, only access for 1 piece of equipment; Autofluff for cover
  - Reserving stockpiles and cover materials for future waste placement to the West
- Leachate being discharged to MMSD
  - 1 well above Maintenance levels
- Flare in operation during audit
  - No shutdowns since last audit
  - Vegetation in good condition
- Ponding on ½ acre working face, site ponding on roads and grass areas; basins full
- No odors off site, some onsite gas odors at active area
- Some little onsite, none off site, 1 picker active
  - Litter heavy in Phase 6W, scheduled additional picker failed to attend work
- US 45 and 8 Mile Road clean, site roads in poor repair
  - Previous repair done with unsuitable fill
- Tipping scale camera and equipment operators inspecting waste; ~1500 tpd
  - Random Load inspection performed on 5/12/10
  - Long distance from working face to site roads
- Poor cover on Southwest corner of Phase 6 E
- Work on West outboard slope of Phase 6E cannot begin until compactor operator is hired by VEPL
- No access to Phase 1-3 until working face and active area extend to new access.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE May 13, 2010

TIME 10:15

Auditor on site at:  Open  Close

WEATHER Light rain, overcast

WIND E-0-5

TEMP Maximum 65 °F Minimum 47 °F

B.P. 29.86

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Excavator</u>	<input checked="" type="checkbox"/>					
<u>1</u>	<u>Water Truck</u>	<input checked="" type="checkbox"/>					

A. Working Face Size and Location:

Working face at East end of Phase 5/6  
Against Phase 3. Working face small, only  
access for one piece of equipment



Cover Material:

Auto Puff

Stack piling and reserving of all cover material for future waste placement to the West

B. Leachate Management:

Leachate pumped to MMSD  
1 We have Maintenance level

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:		#	None	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Flare in good operation

D. Surface Water Management:

Storm Events Since Last	# <u>Many</u>	Est. Volume	<u>~ 2''</u>
-------------------------	---------------	-------------	--------------

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

Ponding ~ 1/4 Acre on Working Face  
Site ponding on roads & Grass areas. Basins full

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

Gas odors about active area

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Litter heavy in Phase low, Pickers would not come to work

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

US 43 & 8 Mile Clean Site roads in poor repair. Previous repair done with unsuitable fill

Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates:	MAY 12, 2010			

Comments:

~ 1,500 TPD. Long distance from working face to site roads

Rejected Loads:

	Date/Time	Reason for Rejection
1.		NONE
2.		
3.		
4.		

Comments:



Other Comments:

- \* Poor cover over Southwest corner of Phase 6~~EE~~
- \* Work on West outboard slope of Phase 6~~EE~~ can not begin until Compactor operator is hired by VEP.
- \* No Access to Phases 1-3 until Working face/Active Area extends to New Access

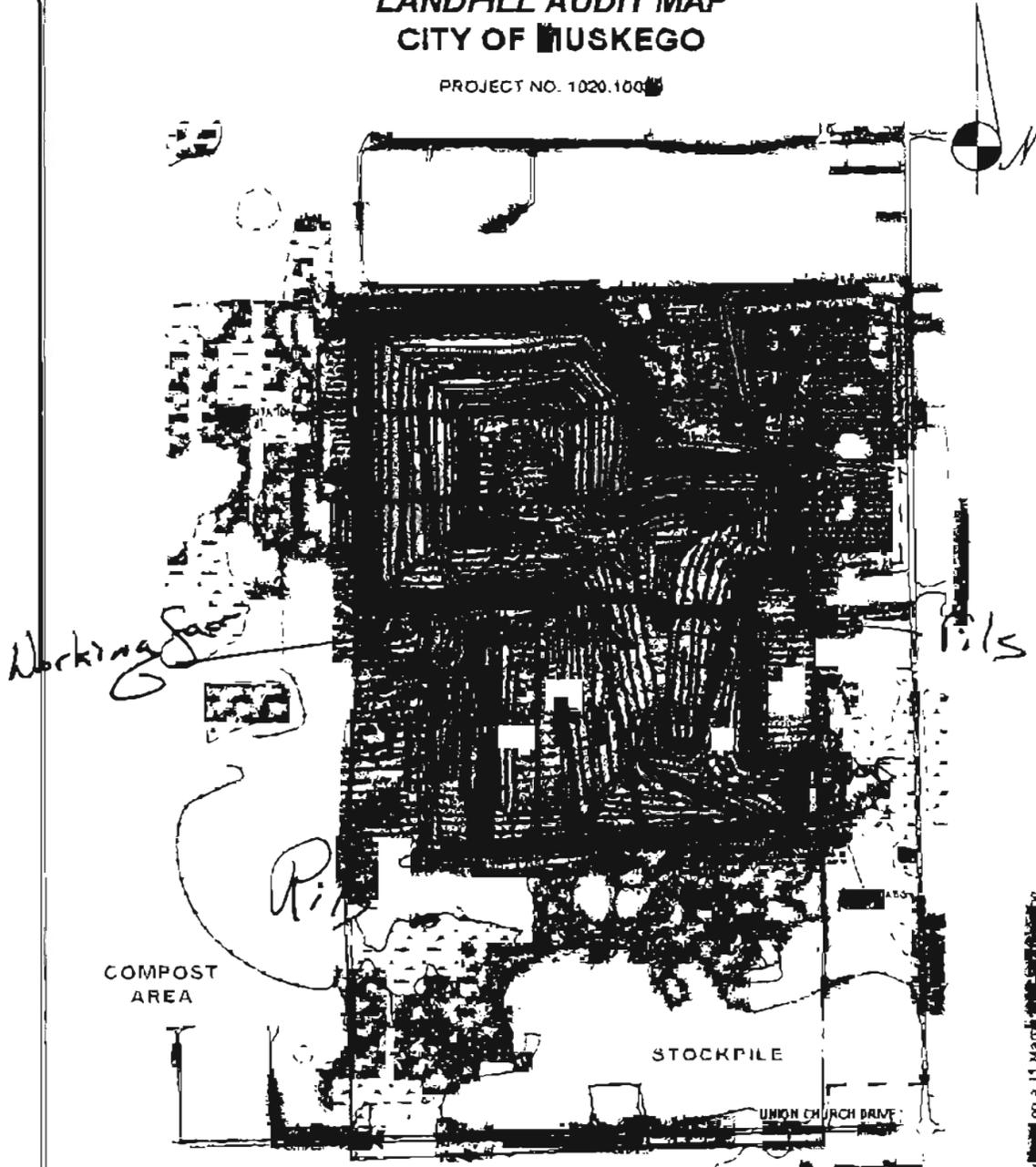
Auditor's Signature: [Signature]  
Auditor's Printed Name: Jo. Walter Speer, Jr  
Management Signature: [Signature]  
Management Printed Name: Jordan Jacobi  
Management Title: Environmental Manager  
JSA Principal Signature: \_\_\_\_\_

Date: 5/13/10  
Date: 5/13/10  
Date: \_\_\_\_\_



VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO

PROJECT NO. 1020.100



**JSPR Associates**

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

**JSPR** ASSOCIATES  
325 WEST VINE STREET  
MILWAUKEE, WI 53212-4001  
**CIVIL ENVIRONMENTAL  
ENGINEERS**



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Working face at Northwest corner of Phase 6E, very small



Clean out area and asbestos area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Older clean out area



Temporary sed basin, over filled



Area of poor cover



Area of poor cover



Heavy litter and some erosion at Phase juncture



Expanded view of litter







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 5/19/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of May 17, 2010. The audit was performed at 11:33 am on **May 19, 2010** by Jo Walter Spear Jr. in the presence of Jordan Jacobi.

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

- Working faces one at North end of Phase 5, near Phase 4 and the other at the junction of Phase 3 and 6 completing the travel connection to Phase 3
  - Bio Soils going to Phase 4 with landfill direct
  - Reserving stockpiles and cover materials for future waste placement to the West
  - Autofluff used in abundance
- Leachate being discharged to MMSD
  - 1 well above Maintenance levels
- Flare in operation during audit
  - No shutdowns since last audit
  - Vegetation in fair condition, header area recovering well
- Some repair areas greening, other areas in rougher shape
- No odors off site, odors present on site
  - some onsite gas odors at active area and on road south of active area
- Some littler onsite, none off site, 4 pickers active, all litter to west of active area
- US 45 and 8 Mile Road clean, site roads rough and dusty
- Tipping scale camera and equipment operators inspecting waste; ~1600 tpd
  - Random Load inspection performed on 5/18/10
- Water truck active during audit to control dust
- Cover conditions improved since last audit
- Basins heavily silted and eroded at limits. Auditor will review storm water agreement with Muskego for possible action item.
- Poor cover on Southwest corner of Phase 6 E

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos



## MEMORANDUM

- Work on West outboard slope of Phase 6E cannot begin until compactor operator is hired by VEPL
- No access to Phase 1-3 until working face and active area extend to new access.

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE May 19, 2010

TIME 11:33

Auditor on site at: Open  Close

WEATHER Clear Sunny

WIND SW-S-10

TEMP Maximum 73 °F Minimum 48 °F

B.P. 30.05

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
	Excavator						
	Haul Truck						
1	Water Truck						
1	Sweeper	<u>expected today</u>					

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1							

A. Working Face Size and Location:

~~There~~ working faces, one at Northend of Phase 5, near Phase 4 & the other at the junction of Phase 3 & 6 completing the travel connection to Phase 3

Bio Soils going to Phase 4 & Land fill direct South of Bio Pile



Cover Material:

Auto fluff being used and in abundance

B. Leachate Management:

Discharge to MMSD, One Phase S well high all others at maintenance

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# None			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Header area reclaiming well

D. Surface Water Management:

Storm Events Since Last	# <del>5</del>	Est. Volume	
-------------------------	----------------	-------------	--

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

Some repaired areas occurring ~~Header Area~~  
Other areas in rougher shape

E. Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input checked="" type="checkbox"/>
---------------------------------	---

Comments:

Big off site odors, Gas odors on Active Area and on Road south of Active Area

F. Special Waste Handling: storage of fingerprint samples and testing procedures

NONE

G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 4

Comments:

Litter all to West of active area

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

us 45 & 8 Mile road clean, site roads very rough & cluttered

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"/>	#	3
Spotter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates:	3/18/2010			

Comments:

~ 6,600

J. Rejected Loads:

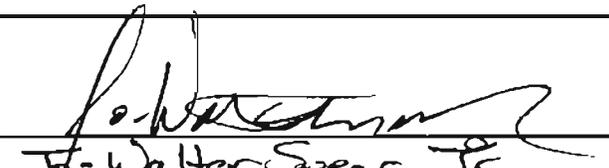
	Date/Time	Reason for Rejection
1.		NONE
2.		
3.		
4.		

Comments:



L. Other Comments:

- \* Water truck active during audit to control dust,
- \* Cover conditions improved since last Audit
- \* Basins heavily silted and eroded at limits Auditor will review storm water agreement with Muskegon for possible action item.

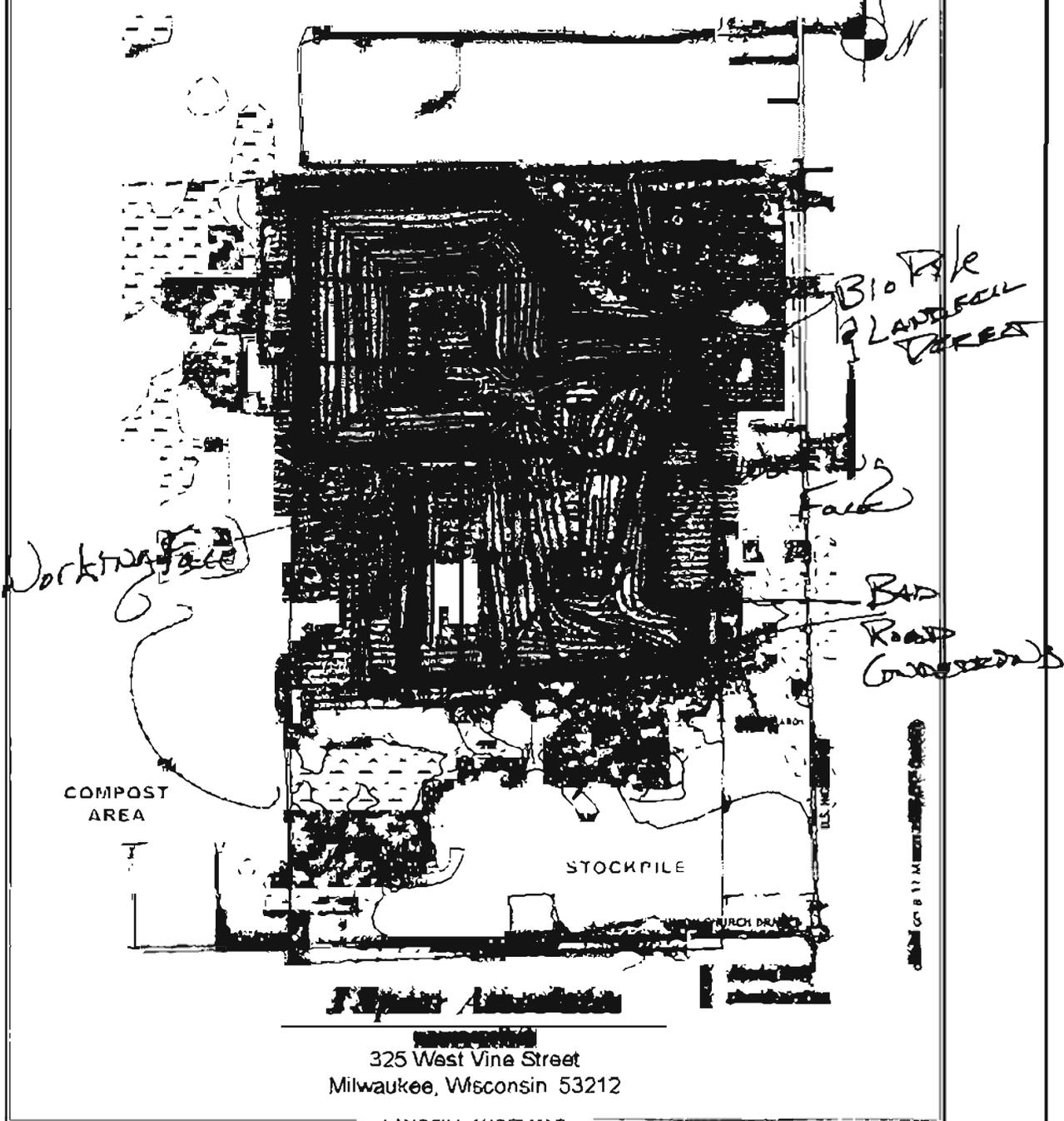
Auditor's Signature:   
Auditor's Printed Name: J. Walter Spear, Jr.  
Management Signature: Gas Manager  
Management Printed Name: Jordan Jacob  
Management Title: GM  
JSA Principal Signature: \_\_\_\_\_

Date: 5/19/2010  
Date: 5/19/10  
Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



**325 West Vine Street**

**Milwaukee, Wisconsin 53212**

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Working face in Phase 5, viewed from office parking lot



Area of header placement growing volunteer grasses

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Areas of erosion on Phase 4, South slope



Areas of air-space recovery, South of Phase 5



Area of heavy litter, West of Phase 6



Previously poor cover repaired at Southwest corner of Phase 6E





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 5/26/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of May 24, 2010. The audit was performed at 11:45 am on **May 26, 2010** by Jo Walter Spear Jr. in the presence of Jordan Jacobi.

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

- Working faces at South end of Phase 6E in south west corner. Working face ¼ acre
  - Phase 1, 2 and 3 connected to Phase 6 by new access
  - Cover on active area greatly improved, autofluff in abundance
- Leachate being discharged to MMSD
  - 1 well in Phase 6 reporting above Maintenance levels, but could be an error
- Flare in operation during audit
  - No shutdowns noted
  - Vegetation in good condition, recovered from header work and winter conditions
- One storm event since last audit ~ 1"
  - Basin outfalls closed, basin sediment will be removed this summer
- No odors off site, minor odors present on site
  - some onsite waste odors at active area
- Some littler onsite, none off site, 3 pickers active, litter on outboard slopes of Phase 6
- US 45 and 8 Mile Road clean, site roads rough and dusty
- Tipping scale camera and equipment operators inspecting waste; ~2000 tpd
  - Random Load inspection performed on 5/21/10 and 5/25/10
- Recovering Phase 5 and 6 slopes on hold until a new operator is selected
- Compost area being cleaned up and food composting begun
- Compost entrance gate secure

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE May 26, 2010  
 Auditor on site at:  Open  Close

TIME 11:45

WEATHER Clear, Sunny, Beautiful

WIND Flux

TEMP Maximum 79 °F Minimum 58 °F

B.P. 30.05

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
2	Dozer						
	Excavator						
	Haul Truck						
1	Water Truck						
1	Sweeper		<u>5/24/10</u>				

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	<del>COMPACTOR</del>		<input checked="" type="checkbox"/>				

208-318-8487

A. Working Face Size and Location:

Working face at South end of Phase 6  
to Santa West corner. Working face ~ 1/4 acre  
Phase 3, 2, & 1 connected to Phase 6 by  
new access. Cover on Active Area  
greatly improved.



Cover Material:

Autofluff in abundance,

B. Leachate Management:

MLSD discharge

Are Well in Phase 6 reporting high levels, but could be a error

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Vegetation recovered from winter. Vegetation recovered from leakage work

D. Surface Water Management:

Storm Events Since Last	# /	Est. Volume	21'
-------------------------	-----	-------------	-----

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

Basins outfalls closed, basins sediment will be removed this summer

E. Odor Control:

Odors Present:

Onsite <input checked="" type="checkbox"/>	Offsite <input type="checkbox"/>
--	----------------------------------

Comments:

No offsite odors, minor waste odors in Active Area

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 3

Comments:

Litter on Outboard slope of Phase 6  
Only

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

USHS = 8 Mile clean  
Site roads rough & dusty

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
Equipment Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	3
Spotter:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	#	

Random Load Inspection Dates:

5/21/10 & 5/25/10

Comments:

~ 2,000

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

- \* Recovering Phase 5 & 6 Slopes on hold until new operator is selected
- \* Compost Area being cleaned up & Food Composting begun
- \* Compost entrance gate secure

Auditor's Signature:

*Walter Spear, Jr*

Date: 5/26/10

Auditor's Printed Name:

Walter Spear, Jr

Management Signature:

*Jordanacobi*

Date: 5/26/10

Management Printed Name:

Jordanacobi

Management Title:

Leachate Manager

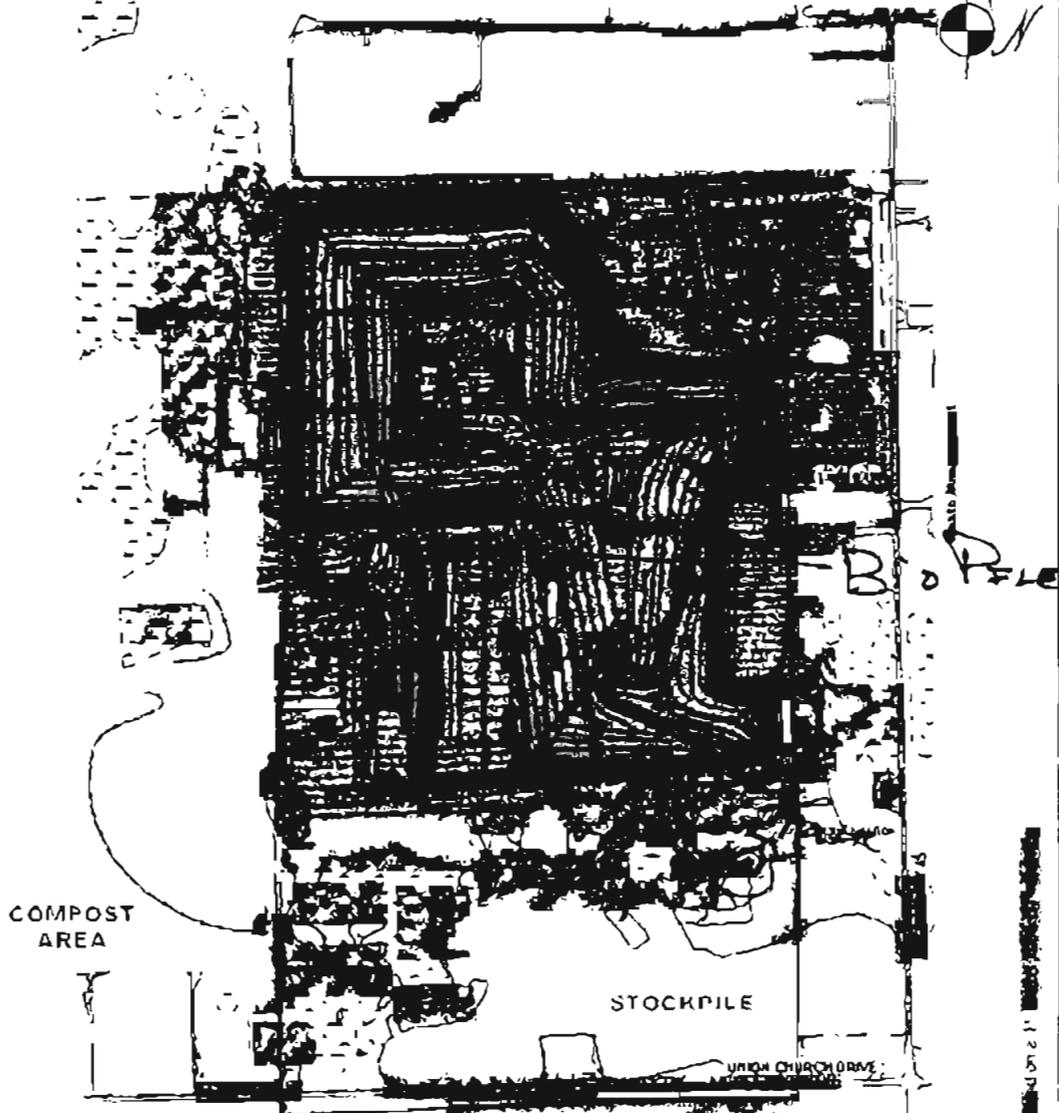
JSA Principal Signature:

Date:



VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO

PROJECT NO 1020.10030



**JSP**

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





# VEOLIA EMERALD PARK LANDFILL AUDIT PHOTOS CITY OF MUSKEGO

PROJECT NO. 1012.10030



Area of working face during previous audit



Bio soil pile undergoing treatment to be used in the future

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Phase 6E outboard (West) slope, prepared for future work



Autofluff on outboard slope, used as cover until airspace recovery can be initiated



Pit excavated to take putrid loads today



Phase 6E, West slope viewed from West



Asbestos Pit



Phase 6/5 South slope, collected top soil to be removed and then restored after filling



Phase 6/5 South slope clay cover only



Working face viewed from the South



Working face viewed from Southwest



Northwest corner of Phase 6E, captured litter on slope.







June





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 06/04/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of May 30, 2010. The audit was performed at 11:45 am on **June 4, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- Two working faces
  - Working face for MSW at South end of Active Area
  - Working face in Phases 2 & 3 for bio-soil and landfill direct
  - Cover in good condition
  - Site soils and Auto-fluff in use as cover
- Leachate being discharged to MMSD all week
  - Slight elevation in Phase 6, all other sumps below maintenance
- Flare in operation during audit
  - vegetation exposed and is in fair condition
- Some standing water in Phases 2 & 3, remainder of site dry
- No odors off site during audit
  - Garbage odor evident during site audit
- Litter on site, controlled
  - No off site litter
  - Zero pickers on site, however three were present on 6/3/2010
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection performed on June 2, 2010
  - Waste loads up to 3,500 TPD
- US 45 and 8 Mile Road clean
  - Sweeper on site May 27 and June 4, 2010
  - Some tracking on access apron.
- Seeding of East slopes scheduled for June

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE June 4 2010  
Auditor on site at: Open  Close

TIME 11:45 am

WEATHER Overcast Rainy

WIND SE 9 mph

TEMP Maximum 80° °F Minimum 59° °F B.P. 29.77"

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
	Water Truck						
<u>5/27/10</u> <u>and 6/9/10</u>	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Soils tipped in phase 2 & 3 ~ 1/2 way through project.

Working face at South end of Active Area.  
~ 100' x 100'

Cover Material:

Cover in good condition, Auto fluff & Site Soils Used.

B. Leachate Management: Slightly elevated to E but all other levels below Maint. Pumping offsite to MM&D

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# <input checked="" type="checkbox"/>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

D. Surface Water Management:

Storm Events Since Last	# 4	Est. Volume	~ 2"
-------------------------	-----	-------------	------

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

Some standing water on Phase 2 & 3, most site relatively dry.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No odors offsite, Garbage odor at Active Area

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# <u>3</u>

Comments:

3 Pickers Active yesterday

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

US 45 @ 8 mile clean. Some tracking at Apron and on Site entrance Road due to wet conditions.

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 type="checkbox"/>	#	
Random Load Inspection Dates:	<u>6/2/10</u>			

Comments: ~ 3500 Tpd

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		<u>None</u>
4.		

Comments:



Other Comments:

Seeding Scheduled for East Slope in  
June.

Sweeper onsite during audit.

Auditor's Signature: \_\_\_\_\_

Auditor's Printed Name: \_\_\_\_\_

Management Signature: \_\_\_\_\_

Management Printed Name: \_\_\_\_\_

Management Title: \_\_\_\_\_

JSA Principal Signature: \_\_\_\_\_

Date: 6/24/10

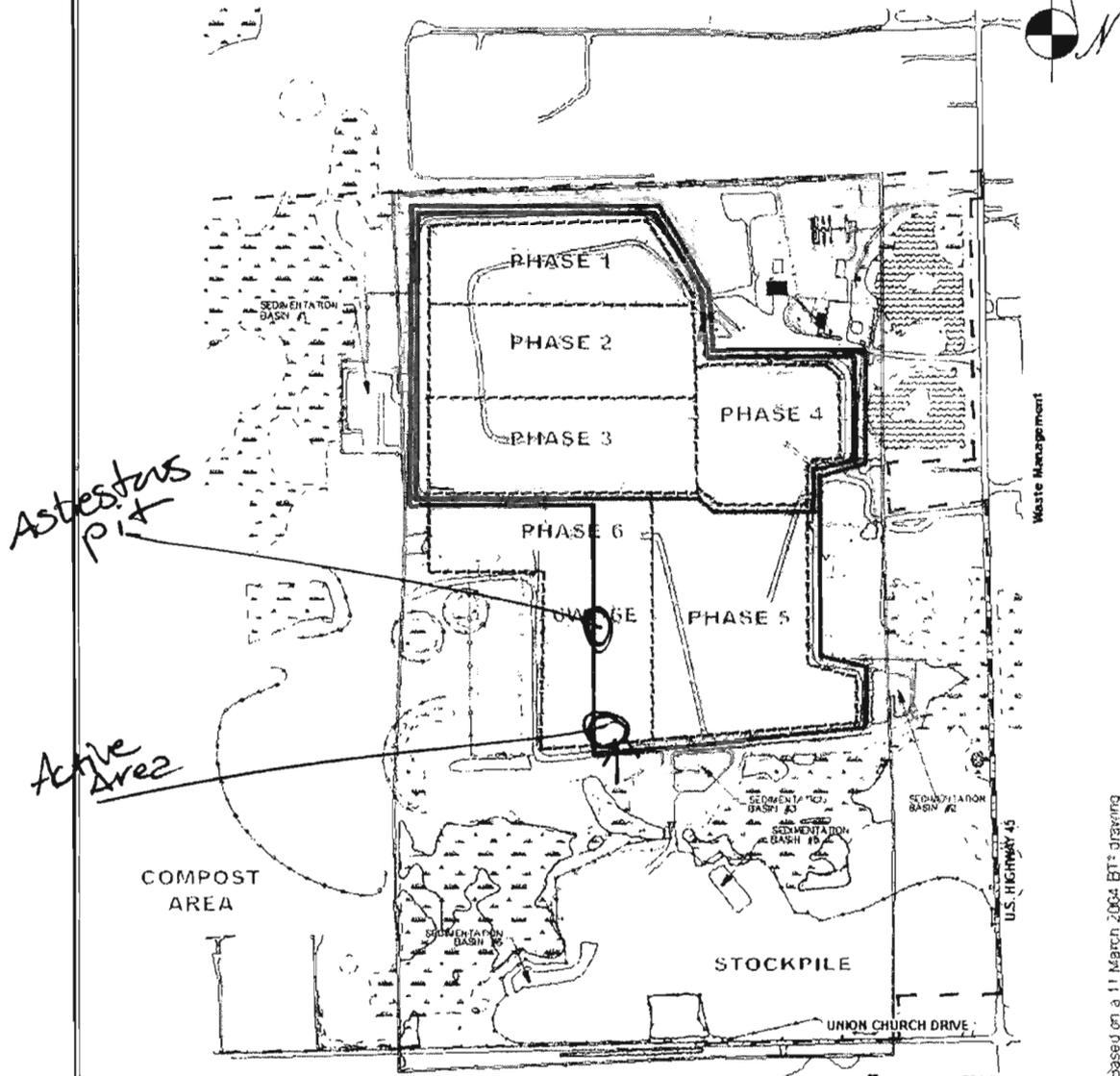
Date: 6/4/10

Date: \_\_\_\_\_



# VEOLIA EMERALD PARK LANDFILL LANDFILL AUDIT MAP CITY OF MUSKEGO

PROJECT NO. 1020.10030



based on a 11 March 2004 BT² drawing

***J Spear Associates***

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Rills in South stockpile on Union Church/ 8 mile Road



New Veolia Signage

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Bio soil pile with some ponding before it



Landfill direct soils on Phase 1



Slope being prepared for recovery



Working face at top of West slope, Phase 6



Compactor in working face



South slope looking up at working face



Covered out board slope



West edge of Active area, Southwest corner.



Southwest corner



Sweeper on site roads









## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 6/11/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of June 7, 2010. The audit was performed at 9:00 am on **June 11, 2010** by Jo Walter Spear Jr. in the presence of Jordan Jacobi.

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

- Working face out on west slope to recover lost airspace
  - Working face 50' and length of slope
  - Numerous flagging locations on outboard slope; Autofluff and soils as cover
  - Some site trenching to drain ponding
  - Cover on active area greatly improved, autofluff in abundance
- Leachate being discharged to MMSD
  - 1 well in Phase 6 reporting above Maintenance levels, but could be an error
- Flare in operation during audit
  - No shutdowns
  - Vegetation in good condition
- Four storm events since last audit ~ 3"
  - Basins have freeboard, temporary sediment basin drained; ditch free board diminishing, cleaning need
- No odors off site,
- Some littler onsite, none off site, no pickers, weather conditions not creating litter
- US 45 and 8 Mile Road clean, site roads rough and dusty
- Tipping scale camera and equipment operators inspecting waste; ~2000 tpd
  - Random Load inspection performed on 6/10/2010
  - Site meeting host agreement requirements
- Action item, Flagging and exposed waste at Southwest corner of active area
- Ditch lines need cleaning, some basin cleaning as well
- Site to return to Saturday operations on 6/19

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.1003C

DATE June 11, 2010  
Auditor on site at: Open  Close

TIME 17:03

WEATHER Overcast / clearing

WIND 5 1-5

TEMP Maximum 79 °F Minimum 67 °F

B.P. 30.01

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>1</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>D6 Dozer</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>1</u>	<u>BACKHOE</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

A. Working Face Size and Location:

Working face out on west slope to recover lost air space. Working face 50' wide and length of slope.

Numerous flagging locations on outboard slope

Some site trenching to drain ponding

Cover Material:

Autofluff, soils on out board slope

B. Leachate Management:

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# <input checked="" type="checkbox"/>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~ 1,900 gpm.

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume
	4	134

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

Basins have free board, stamped basins drained. Ditch free board diminishing cleaning needed

E. Odor Control:

Odors Present: Onsite  Offsite

Comments: No offsite odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	# 0

Comments:

No pickers, weather conditions not creating litter

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

US 45 & 8 Mile Road clean  
 Site roads in poor repair

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
Equipment Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	2
Spotter:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	#	

Random Load Inspection Dates: 6/10/2010

Comments:

Site managing to meet Best Management prgs  
 ~ 2,000 tpd

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:

L. Other Comments:

\* Action Item - Flagging and exposed waste at ~~the~~ Southwest corner of Active Area

\* Ditch lines need cleaning, storm basin cleaning as well.

\* Site to return to Saturday operations on 6/19

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

*[Handwritten Signature]*  
Sp-Dalter-Spear, Jr.  
*[Handwritten Signature]*  
Jordan Jacobi  
Leachate Extraction Manager

Date: 6/11/10

Date: 6/11/10

Date: \_\_\_\_\_





# VEOLIA EMERALD PARK LANDFILL AUDIT PHOTOS CITY OF MUSKEGO

PROJECT NO. 1012.10030



Temp Sed Basin pumped down to its boundaries



Waste grades being recovered after too shallow a slope was developed for Phase 6E, outboard slope (West)

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Cleanout area above working face



Stockpiled autofluff and previous days cover area



Active Area



Area of exposed waste and flagging at Southwest corner of Phase 6E



South slope recovery



West slope of Phase 6E



Working face viewed from Southwest



West edge of Active area, Southwest corner.



Southwest corner



Ditch channels becoming ecluded by silt.







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 6/16/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of June 14, 2010. The audit was performed at 2:20 pm on **June 16, 2010** by Jo Walter Spear Jr. in the presence of Jordan Jacobi.

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

- Working face on outboard slope of Phase 6. Next area for working face stripped south of current face
  - Previous working face cover still exposed
  - Site lacks adequate equipment for covering outboard slope waste
  - Autofluff and soils on outboard slope; active area very wet with depressions
- Leachate being discharged to MMSD
- Flare in operation during audit
  - No shutdowns; some gas odors on active area
  - Vegetation in good condition
- One storm events since last audit ~ ¼"
  - Site has silting storm water systems and rils
- No odors off site, gas odor at active area
- Some litter onsite, none off site, one picker, litter in fences along East edge of phase
- US 45 and 8 Mile Road dusty but clean, site roads in rough shape
- Tipping scale camera and equipment operators inspecting waste; ~2000 tpd
  - Jordan checking on random load inspection date
  - Site meeting host agreement requirements
- Jordan is ending employment with Veolia on July 2<sup>nd</sup>, 2010; no replacement at this time
- Continue action item of exposed waste

**Attachments:**

Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE June 16, 2010  
Auditor on site at: Open  Close

TIME 2:20

WEATHER Clear & Sunny

WIND N-NE 5-10

TEMP Maximum 73 °F Minimum 53 °F

B.P. 29.99

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer	<input checked="" type="checkbox"/>					
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						
<u>1</u>	<u>Mower</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Do Dozer</u>						

A. Working Face Size and Location:

Working face on outboard, west slope of Phase 6. Next area for working face stripped south of current face

Previous Working Face cover still exposed. Site lacks adequate equipment for covering out board slope waste

Cover Material:

Auto Fluff and soils on out board slope  
Active Area very wet w/ depressions

B. Leachate Management:

~~Discharge to MMS Force main~~ Discharge  
to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input type="checkbox"/>	<input checked="" type="checkbox"/> Fair	<input type="checkbox"/> Poor	<input type="checkbox"/> Dead

Comments:

Some gas odors on Active Area

D. Surface Water Management:

Storm Events Since Last	# 1	Est. Volume	~1/4"
-------------------------	-----	-------------	-------

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

Site has silted stormwater systems & vils

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No odors detected off site

F. Special Waste Handling: storage of fingerprint samples and testing procedures

NONE



G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 1

Comments:  
*Litter in fences along East edge of Phase*

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

*US 45 Dusty but clean, 8 Mile road clean. Site roads in rough shape*

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
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:	<i>6/10/2010</i>					

Comments:  
*Order to double check RLI Date*

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		<i>NONE</i>
2.		
3.		
4.		

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



L. Other Comments:

\* Jordan to end employment with Veolia on July 2nd, 2010. No Replacement at this time.

\* Continue Action Team, exposed waste

Auditor's Signature:

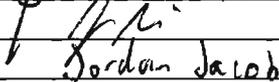


Date: 6/16/10

Auditor's Printed Name:

P. Walter Spear, Jr.

Management Signature:



Date: 6/16/10

Management Printed Name:

Jordan Jacobi

Management Title:

Site manager

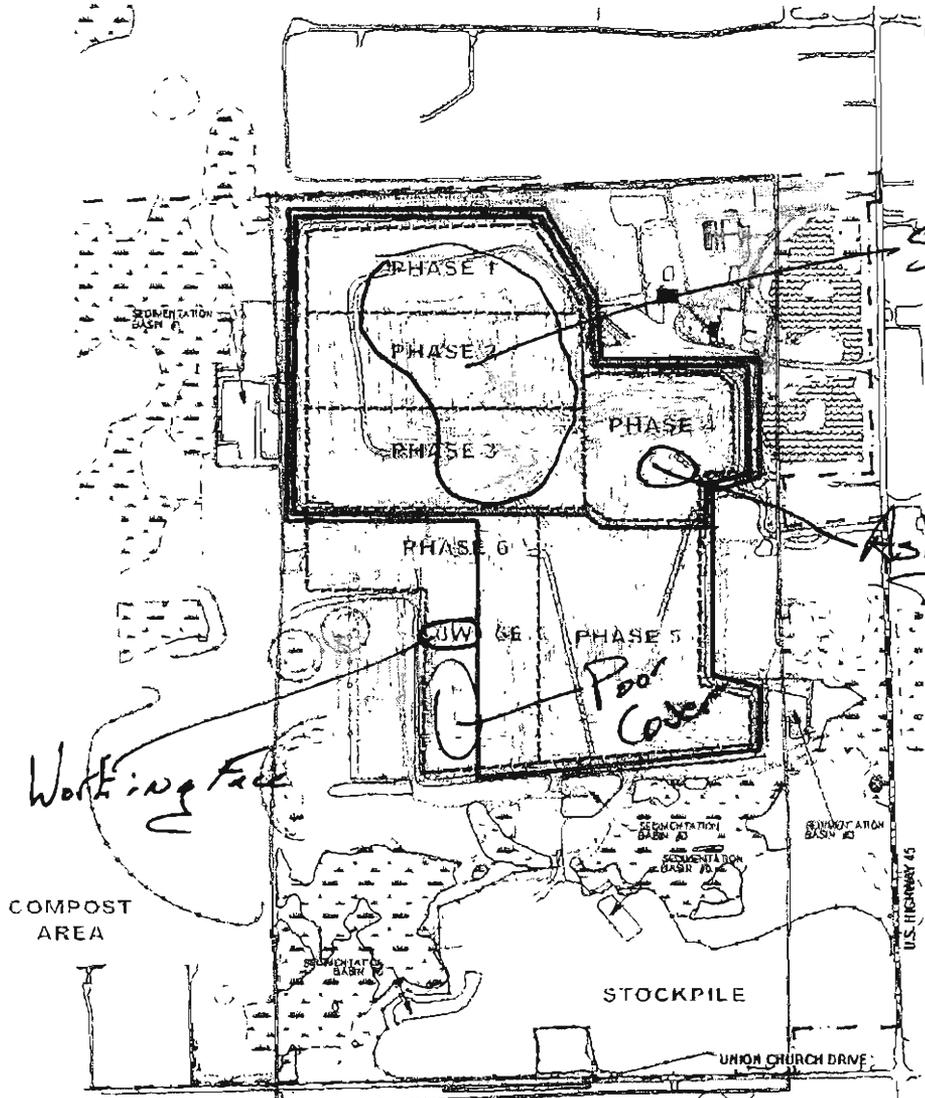
JSA Principal Signature:

Date:



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL AUDIT MAP  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030



Soils Topping

Asbestos Pot.

Pool Cover

Working Face

Waste Management

U.S. HIGHWAY 45

UNION CHURCH DRIVE

Based on a 11 March 2004 EIT drawing

- January 2007
- December 2008

**J Spear Associates**

Environmental Engineers  
 325 West Vine Street  
 Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





# VEOLIA EMERALD PARK LANDFILL AUDIT PHOTOS CITY OF MUSKEGO

PROJECT NO. 1012.10030



New asbestos pit location in Northeast corner of active area



Increased volume of landfill direct soils. Soil placement crude due to use of D8 dozer instead of the D6, which is in the shop

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Bio pile



Active area (West slope of Phase 6). Cut beyond working face is location for next working face



Working face



Phase 6, West Slope, North of working face



Exposed waste outside of working face



West slope of Phase 6, adjacent to cut for next day's working face



Working face viewed from Southwest



D5 Dozer (borrowed) fighting to move clay over working face



Severe rills in the old access road from Phase 6W to Phase 3









## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 06/24/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of June 20, 2010. The audit was performed at 10:35 am on **June 24, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- One working face at facility
  - Working face for MSW moving down West Slope
  - Site soils and Auto-fluff in use as cover
  - Side slopes being dressed, exposed waste still evident from previous audit
- Leachate being discharged to MMSD all week
  - Leachate elevations below maintenance in all phases
- Flare in operation during audit
  - Flare shutdown on Monday night due to power outage at site.
- Site very wet due to several rain storms.
  - Basins have freeboard
  - Some ponding in covered areas
- No odors off site during audit
  - Minor odor along edge of active area
- Litter on site minimal
  - Litter evident on US 45
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was not confirmed
- US 45 and 8 Mile Road clean
- Grading work on East side of Phase 4&5 ongoing.
- Site access gate open in compost area
- Compactor broken down in active area
- Site mowing activities during audit
- Site drainage cleanup activities initiated

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE June 24, 2010  
Auditor on site at:  Open  Close

TIME 10:35 AM

WEATHER Sunny Clear

WIND NW 13 mph

TEMP Maximum 80° °F Minimum 60° °F

B.P. 30.06"

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
2	Dozer	X			DG IDS		
	Excavator						
	Haul Truck						
X	Water Truck						
6/17/10	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	Compactor	X					

A. Working Face Size and Location:

Active area in SE moving down slope.  
~ 150 x 200 large Active Area.



Cover Material:

Cover in good condition in most areas

Exposed waste from last audit still exposed.

B. Leachate Management: Pumping to MMSP, levels all below Maintenance

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Flare shut down on Monday Night, Power outage on site.

D. Surface Water Management: Storm Events Since Last # 3.0 Est. Volume 3 1/2"

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

Lots of water on site Basins high w/ some available freeboard. Some ponding in non-cover areas and in compact areas

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No offsite odors noticed. minor odors along edge of hill

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

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

Comments:

minimal, but visible litter along US 45.

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

US 45 1/2 8 mile 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 type="checkbox"/>	#	
Random Load Inspection Dates:						

Comments: Jordan Checking on RLI Date.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		

Comments:

None



Other Comments:

- \* Gate open in compost yard
- \* Compactor broken on hill.
- \* Mowing Site during audit.
- \* Rills and Silt on hills and site in general. Water Management measures trapping silt and directing water.

Auditor's Signature:

*A. Kravitz*

Auditor's Printed Name:

AYNA KRAVICZ

Management Signature:

*J. Sabi*

Management Printed Name:

Jordan Sabi

Management Title:

Tour Manager

JSA Principal Signature:

Date: 6/24/10

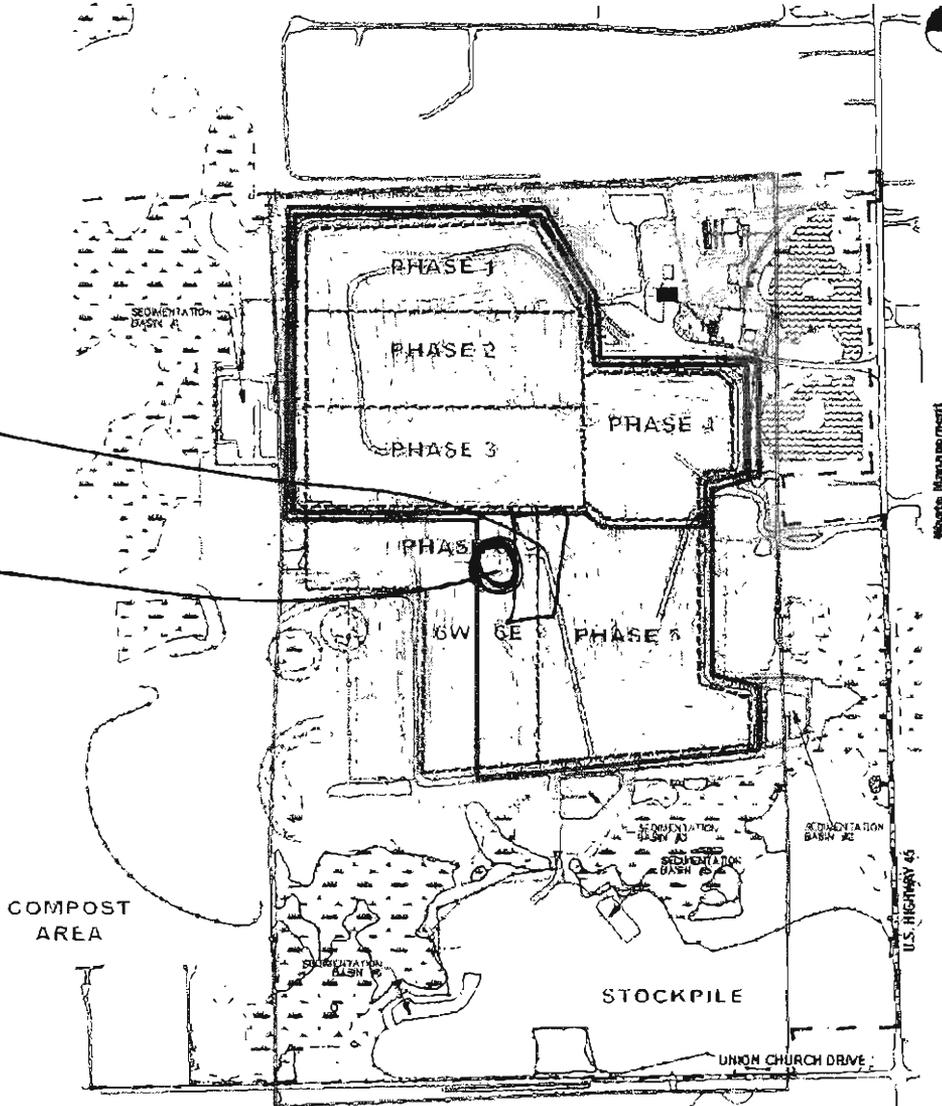
Date: 6/24/10

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



*Active Area  
compactor  
dead on hill.*

Issued on a 11 March 2004 EST drawing

**J Spear Associates**

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

■ January 2002  
■ December 2006



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Compost lot site access



Compost lot site access secured

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Wet conditions in compost lot



Working face far down on West slope of Phase 6. Recovering waste grades



Below working face



Active area, West slope of Phase 6



Phase 5, East slope, some rills



Working face in Phase 6



Silt in road side ditches



Silt in ditches reaching near top of check dams



Top of Phase 5/6 very wet



Landfill direct soils



Bio Soil and Landfill direct



Bio Soils



Wet land areas



Temp Sed Basin



Top of Phase 6 slope, waste being brought to grade







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 06/24/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of June 27, 2010. The audit was performed at 11:30 am on **June 29, 2010** by Anna Krajcik in the presence of Jordan Jacobi.

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

- One working face at facility
  - Working face for MSW on West slope in the middle of Phase 6E
  - Site soils and Auto-fluff in use as cover
  - Side slopes being dressed, exposed waste still evident from previous audit
- Leachate being discharged to MMSD all week
  - Leachate elevations below maintenance in all phases
- Flare in operation during audit
  - Flare shutdown on Saturday, due to storm events
- Site dry, recovered from previous week's storms
  - Basins have freeboard
- No odors off site during audit
  - Strong odors at Active Area
- Litter on site minimal
  - Litter evident on US 45 exposed by mowing crews
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspections complicated by the placement of waste on the side slope of Phase 6E. Scale operator will begin identifying loads for inspection and directing loads away from working face.
- US 45 and 8 Mile Road clean
  - Site roads rough, new road grader at work.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE June 29, 2010  
 Auditor on site at:  Open  Close

TIME 11:30 AM

WEATHER Sunny & dry

WIND NE 7 mph

TEMP Maximum 70 °F Minimum 49 °F

B.P. 30.14

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

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

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	Compactor	X			needs pulley for Fuel pump		
1	Water Truck		X				

A. Working Face Size and Location:

Working face at middle of 6E. Trucks tipping at top and Dozers pushing to ~~the~~ working face.

~ 100' x 100'

Compactor still broken and on hill.

~~is~~ flagging on south end of face

soils tipped in 2 & 3



Cover Material:

Auto-bluff & site soils

B. Leachate Management: Leachate levels under maintenance, Pumping to MMSD.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

1 shut down Saturday during storms

D. Surface Water Management: Storm Events Since Last # 1 Est. Volume 1 1/3"

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

Very little water on site.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

Strong odor on top of hill.

Special Waste Handling: storage of fingerprint samples and testing procedures

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:

Some litter on US 45, exposed by City mowing. Some litter on site.

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

US 45 1/2 mile in clean condition. Site roads rough. Grader on site.

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 type="checkbox"/>	#

Random Load Inspection Dates:

Comments: Random loads Spotty. Equipment operator not able to consistently do the because of hill layout right now. Scale operator will begin during them.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		

Comments:

None

Other Comments:

Lined area for handwritten comments.

Auditor's Signature:

*A. Krasnik*

Date: 6/29/10

Auditor's Printed Name:

ANNA KRASNIK

Management Signature:

*JL*

Date: 6/29/10

Management Printed Name:

Jordan Jacobl

Management Title:

Departing Manager

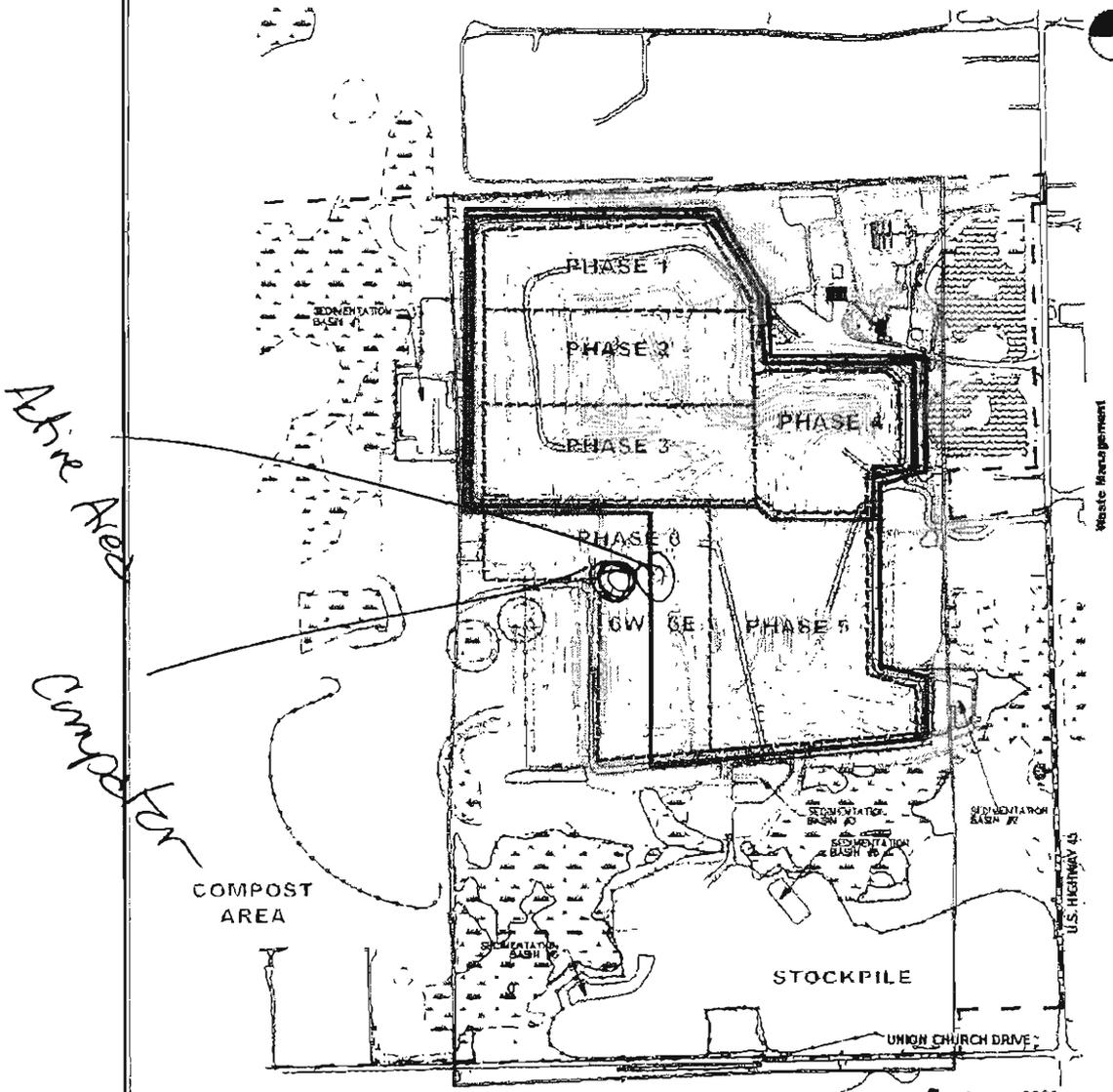
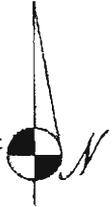
JSA Principal Signature:

Date: \_\_\_\_\_



# VEOLIA EMERALD PARK LANDFILL LANDFILL AUDIT MAP CITY OF MUSKEGO

PROJECT NO. 1020.10030



January 2002  
 December 2006

Based on a 11 March 2006 ET: Drawing

## *J Spear Associates*

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Regrading of Active Area access road



Bio soil pile

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Landfill direct soils



Top of Phase 6 West slope



West slope of Phase 6



Working face



Working at junction of Phase 6 and 4



Compost lot access, secured









July





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 07/09/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of July 4, 2010. The audit was performed at 10:00 am on **July 9, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- Two working faces at facility
  - Working face for MSW along South side of Active Area
  - Soils being tipped in Phases 2 & 3
  - Site soils, sand, and Auto-fluff in use as cover
  - Cover in good condition through out site.
- Leachate being discharged to MMSD all week
  - Leachate elevations below maintenance in all phases
- Flare in operation during audit
  - Flare shutdown on Wednesday due to power outage at site.
- Site very wet due to several rain storms.
  - Basins have freeboard
  - Silt in ditches to be cleaned with road repairs.
- No odors off site during audit
  - Minor odor above active area
- Litter on site minimal
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was July 8, 2010
- US 45 and 8 Mile Road clean
- Grading work on East side of Phase 4&5 ongoing.
- Site roads all regraded.
- Site using Saturdays to get caught up on maintenance and will be open Saturdays until labor day.
- Jordan no longer with Veolia, Jay is the only management on site.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE June 29, 2010  
 Auditor on site at:  Open  Close

TIME 11:30 AM

WEATHER Sunny & dry

WIND NE 7 mph

TEMP Maximum 70 °F Minimum 49 °F

B.P. 30.14

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

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

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	Compactor	X			needs pulley for Fuel pump		
1	Water Truck		X				

A. Working Face Size and Location:

Working face at middle of 6E. Trucks tipping at top and Dozers pushing to ~~the~~ working face.

~ 100' x 100'

Compactor still broken and on hill.

~~is~~ flagging on south end of face

soils tipped in 2 & 3



Cover Material:

Auto-bluff & site soils

B. Leachate Management: Leachate levels under maintenance, Pumping to MMSD.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

1 shut down Saturday during storms

D. Surface Water Management: Storm Events Since Last # 1 Est. Volume 1 1/3"

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

Very little water on site.

E. Odor Control: Odors Present: Onsite  Offsite

Comments: Strong odor on top of hill.

Special Waste Handling: storage of fingerprint samples and testing procedures

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:

Some litter on US 45, exposed by City mowing. Some litter on site.

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

US 45 1/2 mile in clean condition. Site roads rough. Grader on site.

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 type="checkbox"/>	#

Random Load Inspection Dates:

Comments: Random loads Spotty. Equipment operator not able to consistently do the because of hill layout right now. Scale operator will begin during them.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		

Comments:

None

Other Comments:

Lined area for handwritten comments.

Auditor's Signature:

*A. Krasnik*

Date: 6/29/10

Auditor's Printed Name:

ANNA KRASNIK

Management Signature:

*JL*

Date: 6/29/10

Management Printed Name:

Jordan Jacobl

Management Title:

Departing Manager

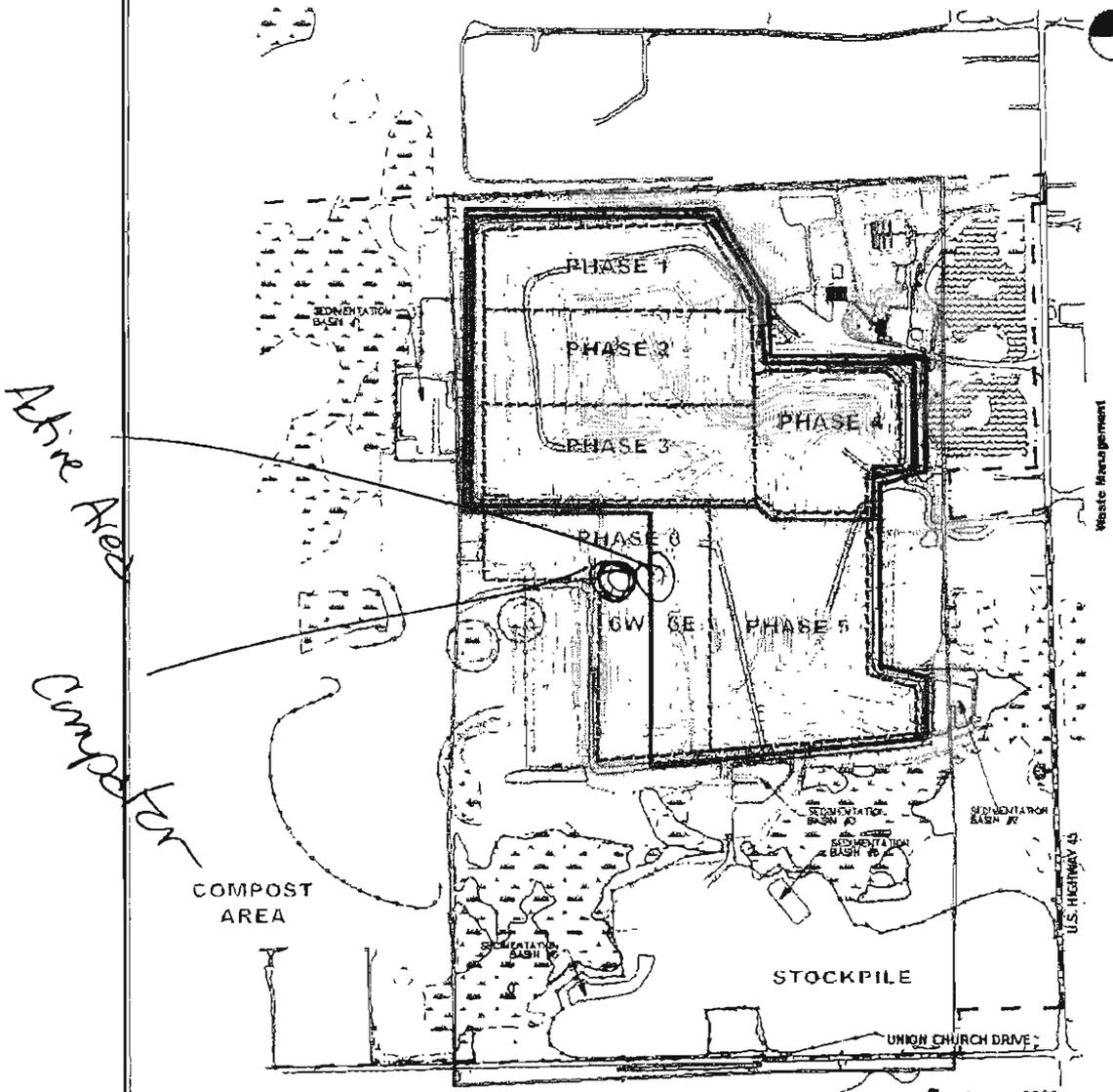
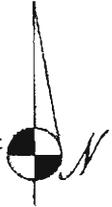
JSA Principal Signature:

Date: \_\_\_\_\_



# VEOLIA EMERALD PARK LANDFILL LANDFILL AUDIT MAP CITY OF MUSKEGO

PROJECT NO. 1020.10030



January 2002  
 December 2006

Based on a 11 March 2006 ET: Drawing

## *J Spear Associates*

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Regrading of Active Area access road



Bio soil pile

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Landfill direct soils



Top of Phase 6 West slope



West slope of Phase 6



Working face



Working at junction of Phase 6 and 4



Compost lot access, secured









## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 07/16/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of July 12, 2010. The audit was performed on **July 16, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- Working face on West Slope of Phase 6W recovering slopes
  - Intermediate cover and daily cover in excellent shape
  - Autofluff and site soils used for cover
- Leachate being discharged to MMSD.
  - Leachate elevations below maintenance in all phases
- Flare in operation during audit
  - One shutdown on 7/14 due to storm relit immediately, vegetation in good condition
- Site very wet due to several storms, 2 events since last audit ~4.5"
  - No new rills, ditches cleaned, basins scheduled for fall
- No odors on or off site during audit
- Litter on site minimal, 1 picker active
- Liquid load received on 7/16/10
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 7/14/10
- US 45 and 8 Mile Road clean
- Loomis and US 45 roadside ditches being mowed and staked for MMSD LFG Pipeline pipe welding on US 45 north of emerald park
- Site purchased road grader, operated by contractor
- Slope recovery continues
- One operator position open, filled by Horicon and special services
- New gas wells proposed after slope recovery

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos

VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE July 16, 2010  
 Auditor on site at: Open  Close

TIME 7:16 AM

WEATHER Cloudless & Sunny

WIND S-SW 10-25

TEMP Maximum 84 °F Minimum 72 °F

B.P. 29.84

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

NO.	DESCRIPTION	Rented	Contracted	NO.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor	<u>#</u>					
<u>2</u>	Dozer	<u>#</u>					
	Excavator						
	Haul Truck						
<u>1</u>	Water Truck						
	Sweeper						
<u>1</u>	<u>Roll Grader</u>	<u>1</u>					

MAJOR EQUIPMENT BONEYARD

NO.	DESCRIPTION	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>DB</u>		<u>X</u>				

A. Working Face Size and Location:

Working face on West Slope of Phase 6W  
Recovering slopes.  
Intermediate cover & Daily cover in excellent  
shape.



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE July 16, 2010  
 Auditor on site at: Open  Close

TIME 7:16 AM

WEATHER Cloudless & Sunny

WIND S-SW 10-25

TEMP Maximum 84 °F Minimum 72 °F

B.P. 29.8"

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor	<u>#</u>					
	Dozer	<u>#</u>					
	Excavator						
	Haul Truck						
<u>1</u>	Water Truck						
	Sweeper						
<u>1</u>	<u>Road Grader</u>	<u>1</u>					

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>DS</u>		<u>x</u>				

A Working Face Size and Location:

Working face on West Slope of Phase 1a  
Recovering slopes.  
Intermediate cover & Daily cover in excellent  
shape.



Cover Material:

Autofluff & Site Soils

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Flare shutdowns 7/1# due to storm, relit immediately

D. Surface Water Management:

Storm Events Since Last	# 2	Est. Volume	24.5
-------------------------	-----	-------------	------

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

No new rills, ditches cleaned, Basins scheduled for Fall.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No offsite odors  
No onsite odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures

Liquid load on 7/16, Am



Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Low Litter Conditions

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

US 45 & 8 Mile road clean

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: 7/14/2010 Last Date

Comments:

Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* Louis & US45 Roadside ditches being mowed & Staked for MMUSD - LFG Pipeline Pipe welding on US45 North of Emerald Park

\* Site purchased road grader, operated by contractor

\* Slope recovery continues.

\* One operator possession open, filled by Horizon & Special Services

\* New gas wells proposed after slope recovery

Auditor's Signature:

Date: 7/16/10

Auditor's Printed Name:

J. Walter Sperry Jr.

Management Signature:

Date: 7/16/10

Management Printed Name:

JAY WAZANSKI

Management Title:

SENIOR PROJECT ENGINEER

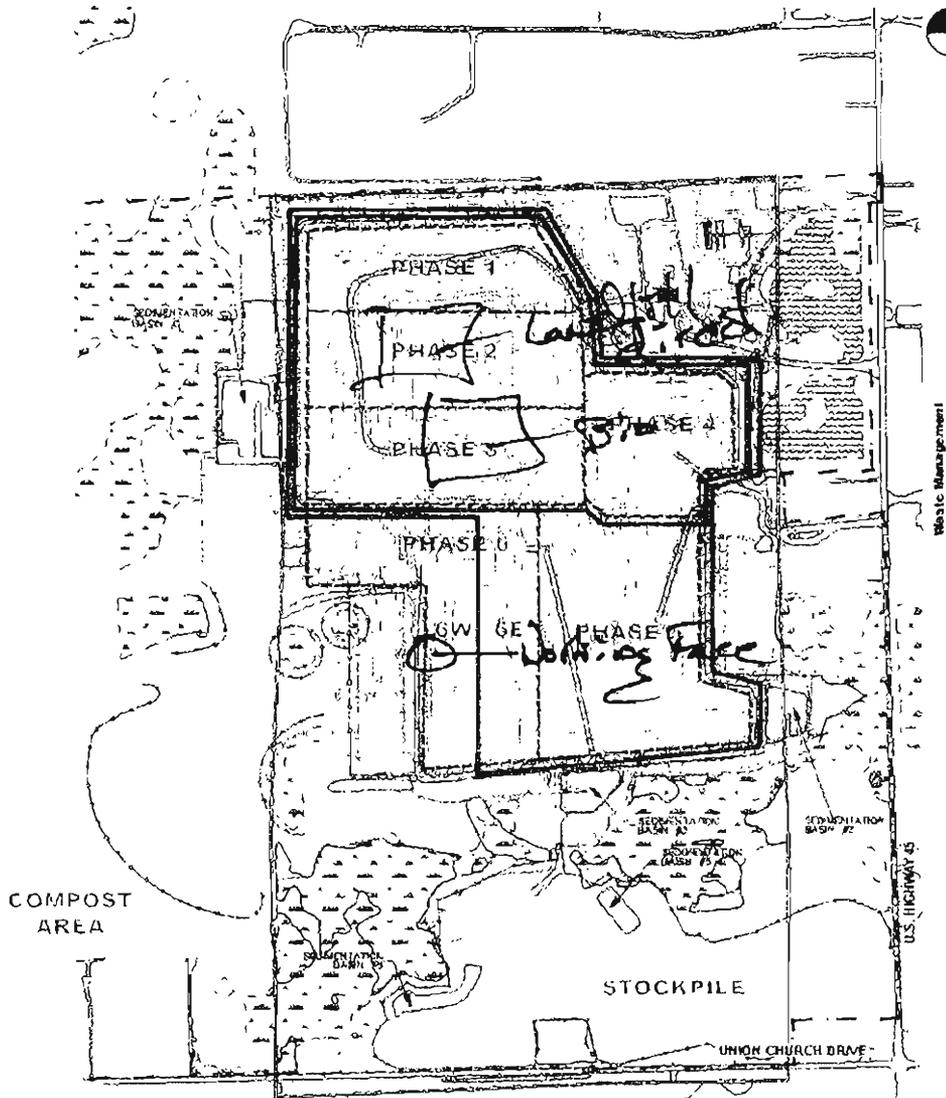
JSA Principal Signature:

Date:



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



based on a 11 March 2004 ETI drawing

- January 2002
- December 2006

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Slope about flare area



Slope about flare area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Landfill direct soils on Phase 2 & 3



Bio Soils over Phase 2



Working face, deep in Phase 6E's Western slope recovering air space



Top of Phase 5 & 6



Temporary sed basin, overflowing due to rain events



West slope of Phase 6



Working face viewed from Southwest



Areas of newly placed intermediate cover

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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 11/16/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of July 18, 2010. The audit was performed at 10:30 am on **July 23, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- Working face at South end of Phase 6W
  - Tipped waste being pushed down West slope for compaction
  - Cover conditions very wet, crushed concrete and debris to be used to make stable tipping area
  - Treated Bio Soils and Auto-fluff being used for daily cover
- Leachate being discharged to MMSD all week
  - Leachate elevations high in Phase 6, pumping during audit
- Flare in operation during audit
  - Flare shutdown on 07/22/2010 due to power outage at site.
- Site very wet due to several rain storms.
  - Basins have freeboard
  - Silt in ditches to be cleaned with road repairs.
- No odors off site during audit
  - Minor odor above active area
- No site litter, nor off site
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was July 21, 2010
  - Random Load inspection planned for July 23, 2010
- US 45 and 8 Mile Road clean
- Catch dams cleaned prior to storm events.
- Site operating late on Saturday.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE July 23, 2010  
 Auditor on site at:  Open  Close

TIME 10:30AM

WEATHER Raining, Overcast

WIND W 12 MPH

TEMP Maximum 88° °F Minimum 73° °F

B.P. 29.86

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	<u>Compactor</u>						
<u>2</u>	<u>Dozer</u>						
<u>1</u>	<u>Excavator</u>						
<u>1</u>	<u>Haul Truck</u>						
	<u>Water Truck</u>						
<u>7/19/21</u>	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face at South end of Phase 6W.  
Tipping moving down the side of the ~~East~~  
West Slope.

Top of Phase Saturated, Vehicles getting  
stuck.

Concrete and crushed Stone to be used to  
Create a stable Staging area for tipping



Cover Material: Bio Soils, Auto Huff for Cover.  
Bio Soils placed on west side of Phase 6 to enhance cover, Cover in good shape.

B. Leachate Management: at Maintenance, Elevated West Phase 6 pumping.

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:  
Storm over night caused flow shutdown. Relit once overnight and was out again in the morning. Ditches collecting water.

D. Surface Water Management: Storm Events Since Last # 3 Est. Volume ~100"

EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  
lots of water on site. additional cover added to working face to help.

E. Odor Control:  
Odors Present: Onsite  Offsite

Comments:  
Some minor odors at working face.

F. Special Waste Handling: storage of fingerprint samples and testing procedures  
None



G. Litter Control:

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

Comments:

Pickers active on Monday and Tuesday  
no litter on or offsite.

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

Ramp gritty. US 45 & 8 Mile Road 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 type="checkbox"/>	#
Random Load Inspection Dates:	7/21/10		

Comments: One Expected Today as well.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		None
4.		

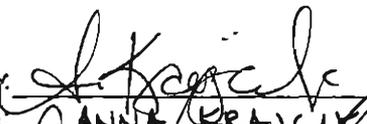
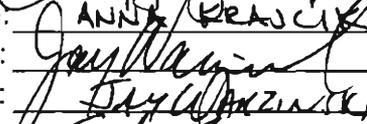
Comments:



L. Other Comments:

\* Jay wants to stay open late on Friday and on Sunday until 1pm to facilitate clean up.

\* ~~Storm~~ Catch ditches were cleaned out prior to storm, Banners to be replaced.

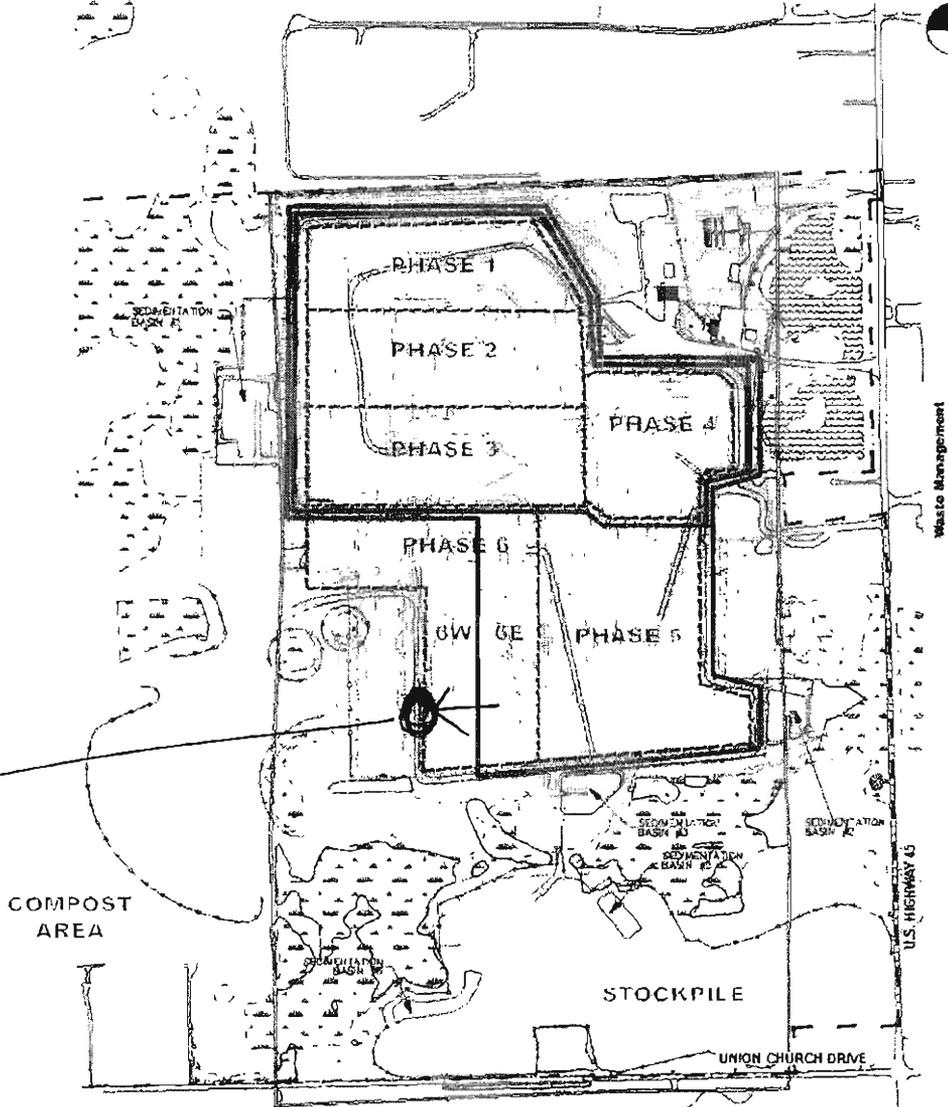
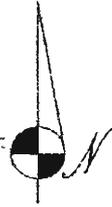
Auditor's Signature:   
Auditor's Printed Name: ANNA KRAVICK  
Management Signature:   
Management Printed Name: Day Mazurki  
Management Title: Sr. Accountant  
JSA Principal Signature: \_\_\_\_\_

Date: 7/23/10  
Date: 7/23/10  
Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020.10030



*Active Area*

Waste Management

U.S. HIGHWAY 45

UNION CHURCH DRIVE

COMPOST AREA

STOCKPILE

- January 2002
- December 2006

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

dated on a 11 March 2004 EST drawing





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Tipping in active area



Tipping in active area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Active area



Catch basin



Working face



Summa Canister doing air sampling





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 07/09/10

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of July 26, 2010. The audit was performed at 12:10 pm on **July 29, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- Working face on west slope of Phase 6,
  - Slope restoration on west slope nearly complete
  - Soils being tipped in Phases 2 & 3
  - Autofluff and completed bio soils for cover
- Leachate being discharged to MMSD
  - Repairs made to the forcemain last week
- Flare in operation during audit
  - Flare had some shutdowns due to weather conditions last week; Relit right away
- High water levels on site due to storms last week
  - Basins have freeboard; new erosion minimal
- No odors off site during audit
  - Minor gas odor at vault in Phase 6
- Liquid load was received during audit
- No litter offsite; Pipe activities on US 45 policing litter
- US45 and 8 Mile Road clean; Loomis and US45 intersection clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was July 24 and 27, 2010
- Loomis and US 45 having LFG Piping installed
- New Rex Compactor, White
- Residential drop off open all week for storm damage; extended hours requested for Saturday
- Slope recovery on Phase 2 above flare
- 400yards of backhaul last week, roads clean.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



211346  
211345  
43

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020 10030

DATE July 29, 2010 TIME 12:10  
Auditor on site at  Open  Close

WEATHER CLEAR, SUNNY WIND N.I

TEMP Maximum 81 °F Minimum 64 °F B.P. 30.14

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

NO.	DESCRIPTION	Rented	Contracted	NO.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
<u>1</u>	Matu Truck						
<u>1</u>	Water Truck						
<u>1</u>	Sweeper		<u>7/24</u>				

MAJOR EQUIPMENT BONEYARD

NO.	DESCRIPTION	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>D6-R</u>		<u>X</u>				

A Working Face Size and Location:

Working Face on West Slope of Phase 6, Slope  
restoration on west Slope nearly complete.  
Phase 2 & 3 receiving Soils

Cover Material:

Autofluff & Completed bin-soils

B Leachate Management:

Discharge to MMSD.  
Repair to force main last week

C Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#3 7/22 & 7/23			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments

Flare out due to weather conditions  
Flare relit flare in timely manner

D Surface Water Management:

Storm Events Since Last	#	Est. Volume
-------------------------	---	-------------

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

High water levels from last week, Basins have freeboard, new erosion minimal

E. Odor Control:

Odors Present:

Onsite <input checked="" type="checkbox"/>	Offsite <input type="checkbox"/>
--	----------------------------------

Comments:

No Odors off site  
Minor gas odor at Vault Phase 6

F Special Waste Handling: storage of fingerprint samples and testing procedures

Liquid lead during audit.

G. Litter Control:

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

Comments:

Pipe activities on US46 Picking Litter

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

US46 & 8 Mile Road (Clean)

US46 & Louis Road intersection (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: 7/24 & 29

Comments:

Large Soil Projects & Storm Drainage

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

- \* Linnis & USHS Wasteway LFG Piping Installed
- \* New Rex Compressor, White
- \* Res. - drop off open allures for storm damage
- \* Extended hours requested for Saturday
- \* Slope recovery on Phase II about 50%
- \* 100 GPD Backhaul last week, Roads Clean

Auditor's Signature:

*[Handwritten Signature]*

Date: 7/29/2010

Auditor's Printed Name:

Dr. Walter J. Lee, Jr

Management Signature:

*[Handwritten Signature]*

Date: 7/29/2010

Management Printed Name:

Jay Wenzel

Management Title:

Site Manager

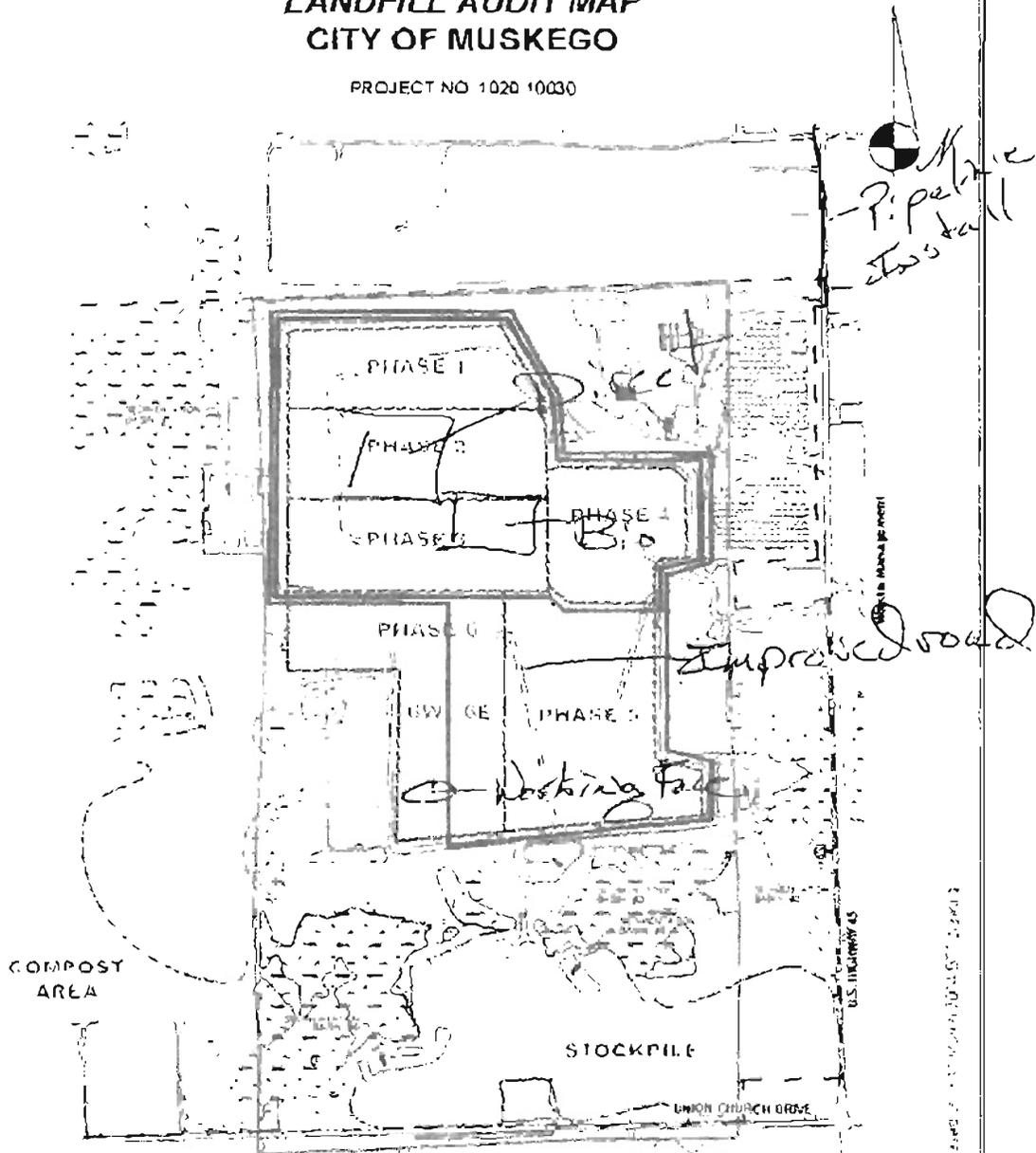
JSA Principal Signature:

Date:



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020 10030



**J Spear Associates**

325 West Vine Street  
Milwaukee Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



New compactor for Site



Bio soil stock piled on Phase 1 & 2

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Asbestos receiving in Phase 3



Active area viewed from the Northeast



Working face



Side slope regraded after waste placement



Temp Sed basin pumped down some since previous Audit



Slope cover now soil instead of auto fluff



South slope of Phase 5, awaiting silt fence



South slope of Phase 6



Working Face viewed from the West



West Slope of Phase 6







September





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/05/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of August 30, 2010. The audit was performed at 3:05 pm on **September 2, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- Working face on south slope of Phase 6.
  - Recovery of slopes ongoing.
  - Cover recovered with autofluff since last week, autofluff in abundance
- Leachate being discharged to MMSD; recirculation less than 20,000 gal
- Flare in operation during audit, no shutdowns
  - – 2000 CFM
- Stormy during audit, ~ 1”
  - Wet surfaces
- Minor odors down wind of active area
- Some litter on out bound slope, 1 picker active
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 9/02/10
- Site closed on 9/4/10 for holiday
- All cleanup and cover repair completed
- Seeding in 45 – 60 days

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020 10030

DATE September 2, 2010  
 Auditor on site at: Open  Close

TIME 3:05

WEATHER \_\_\_\_\_

WIND \_\_\_\_\_

TEMP Maximum 79 °F Minimum 59 °F

B.P. 29.82

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>3</u>	Dozer		<u>1</u>				
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper	<u>Scheduled 9/5</u>					

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Haul Truck</u>		<u>X</u>				

A. Working Face Size and Location:

Working Face on South slope of Phase 6  
Recovery of slopes ongoing. Cover  
recovered with Auto-Fluff, since  
last week



Cover Material:

Auto fluff in Abundance

B. Leachate Management:

Leachate line jetting started

Discharged to WMSD, some repairs to pipe & maintenance

C. Gas Monitoring and Management. Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments

~ 2000 cfm no shutdowns

D. Surface Water Management:

Storm Events Since Last	# /	Est. Volume	~1"
-------------------------	-----	-------------	-----

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

Storm today, wet surfaces

F. Odor Control:

Odors Present:

Onsite  Offsite

Comments:

Minor odor downwind of Active Area

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 1

Comments

Some litter on out bank slope

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

US 43 & B site clear

I. Inspection of Incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
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: \_\_\_\_\_

9/2/2010

Comments:

~ 2,000 TPD

J. Rejected Loads:

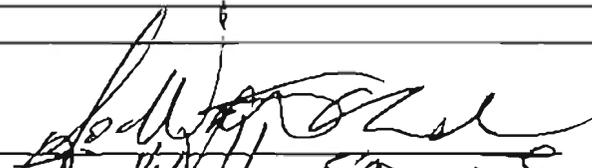
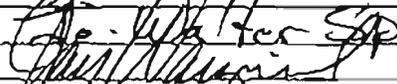
	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



I. Other Comments.

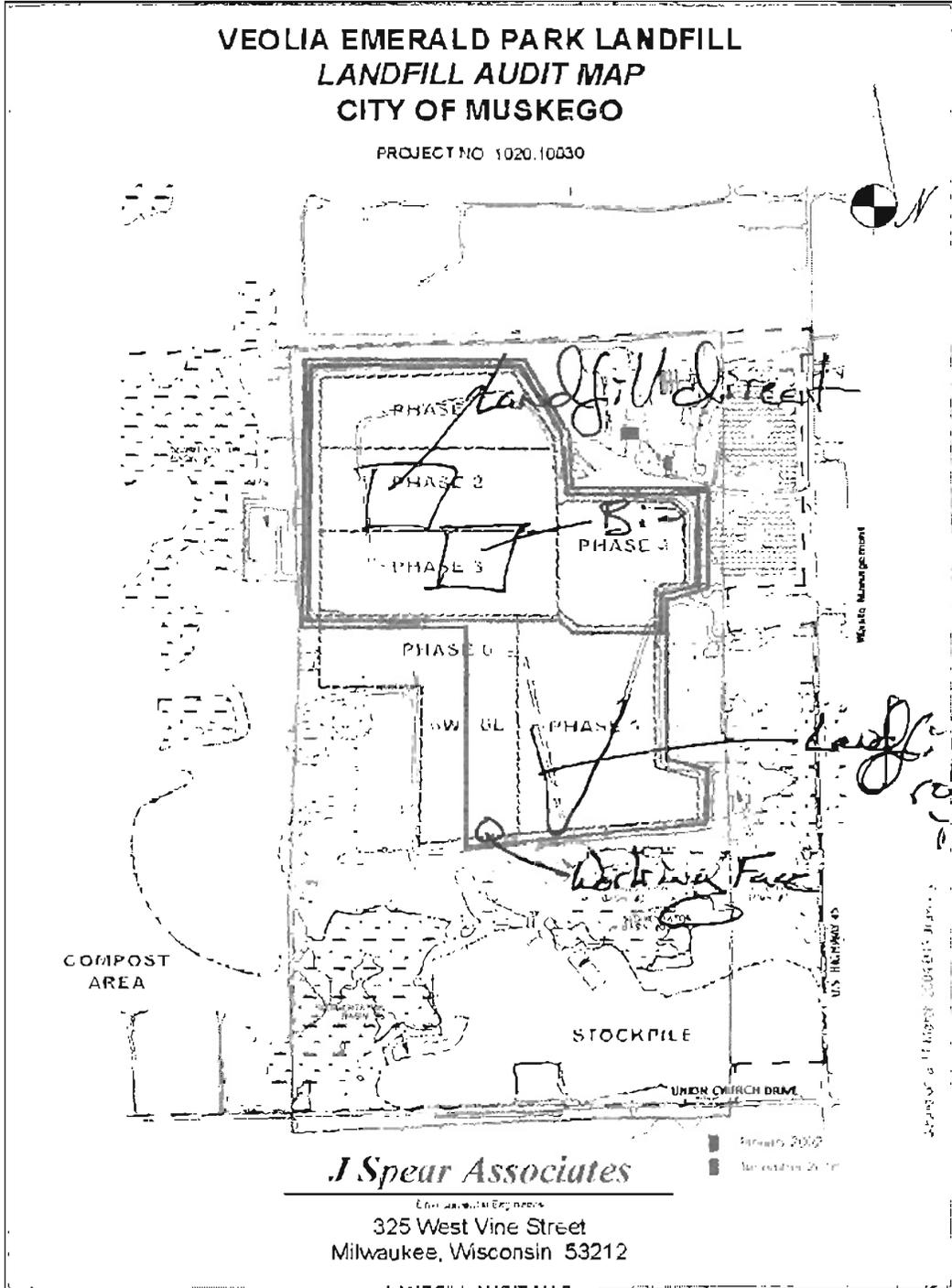
\* Closed 9/4 for holiday  
\* All cleanup and cover repair completed  
from spill  
\* Seeding is \$ 45 to 60 days

Auditor's Signature:  Date: 9/2/2010  
Auditor's Printed Name: John A. Spear Sr.  
Management Signature:  Date: 9/2/2010  
Management Printed Name: John A. Spear Sr.  
Management Title: Site Supervisor Engineer  
JSA Principal Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020.10030



**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Covered asbestos pit



West slope of Phase 6, after slope reclamation completed

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Active Area



Autofluff stockpiled and being used on top of active area only, soils on slopes



Piping prepared to extend wells on slopes



South slope undergoing filling



Working face on South slope



West slope of Phase 6







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/12/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of September 6, 2010. The audit was performed at 6:40am on **September 10, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- Working face at south end of Phase 6 refilling to proper grades
  - Autofluff added to top cover
  - Soils from pipeline project being spread on west slope of Phase 6
  - Autofluff and site soils used for cover
- Leachate being discharged to MMSD; all levels at maintenance
- Flare in operation during audit, 2 shutdowns, 9/2 and 9/8
  - Shutdowns for well head extension, shutdown for infrastructure improvements
- 1 storm event since last audit, ~2"
  - Basins have freeboard and some silt
- No odors on or off site
- Some litter in ditches and fences, 3 picker active
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 9/10/10
  - ~ 1800 TPD
- 3 Veolia trucks on apron prior to 6:45am.
- Auditor on site at 6:40 am and then returned at 8:40 am to complete audit.
- Recapturing airspace on south slope ongoing.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE September 10, 2010 TIME 6:39  
 Auditor on site at: Open  Close

WEATHER Some Clouds, Sunny WIND Still

TEMP Maximum 67 °F Minimum 59 °F B.P. 30.06

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<del>3</del> 1	Compactor						
2	Dozer						
	Excavator						
	Haul Truck						
1	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
	<del>Haul Truck</del>						

A. Working Face Size and Location:

Working Face at Southeast of Phase 6  
refilling to proper grades.  
Autofluff added to top cover  
Soils from pipeline project being  
spread on West Slope of Phase 6



Cover Material:

Auto stuff & Site Soils

B. Leachate Management:

Discharge to MMSD  
All levels at maintenance

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 9/8		9/2	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Shutdowns for well head extension  
Shutdowns for infrastructure improvements

D. Surface Water Management.

Storm Events Since Last	# 1	Est. Volume	22"
-------------------------	-----	-------------	-----

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

Basins have free board & some silt

E. Odor Control:

Odors Present: Onsite  Offsite

Comments: No odors on or off site

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 3

Comments:

Some litter in ditches and fences

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

US 45 & 8 Mile Road clean

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
Equipment Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	3
Spotter:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	#	

Random Load Inspection Dates:

9/10/2010

Comments:

~ 1,200 YPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* 3 Trucks, Veolia Owned, on Apron prior to 6:45 AM

\* Auditor onsite at 6:39 & Again for Audit at 8:40

\* Recapturing of airspace on South slope ongoing

Auditor's Signature:

*[Handwritten Signature]*

Date: 7/10/2010

Auditor's Printed Name:

*[Handwritten Name]*

Management Signature:

*[Handwritten Signature]*

Date: 7/10/2010

Management Printed Name:

*[Handwritten Name]*

Management Title:

*[Handwritten Title]*

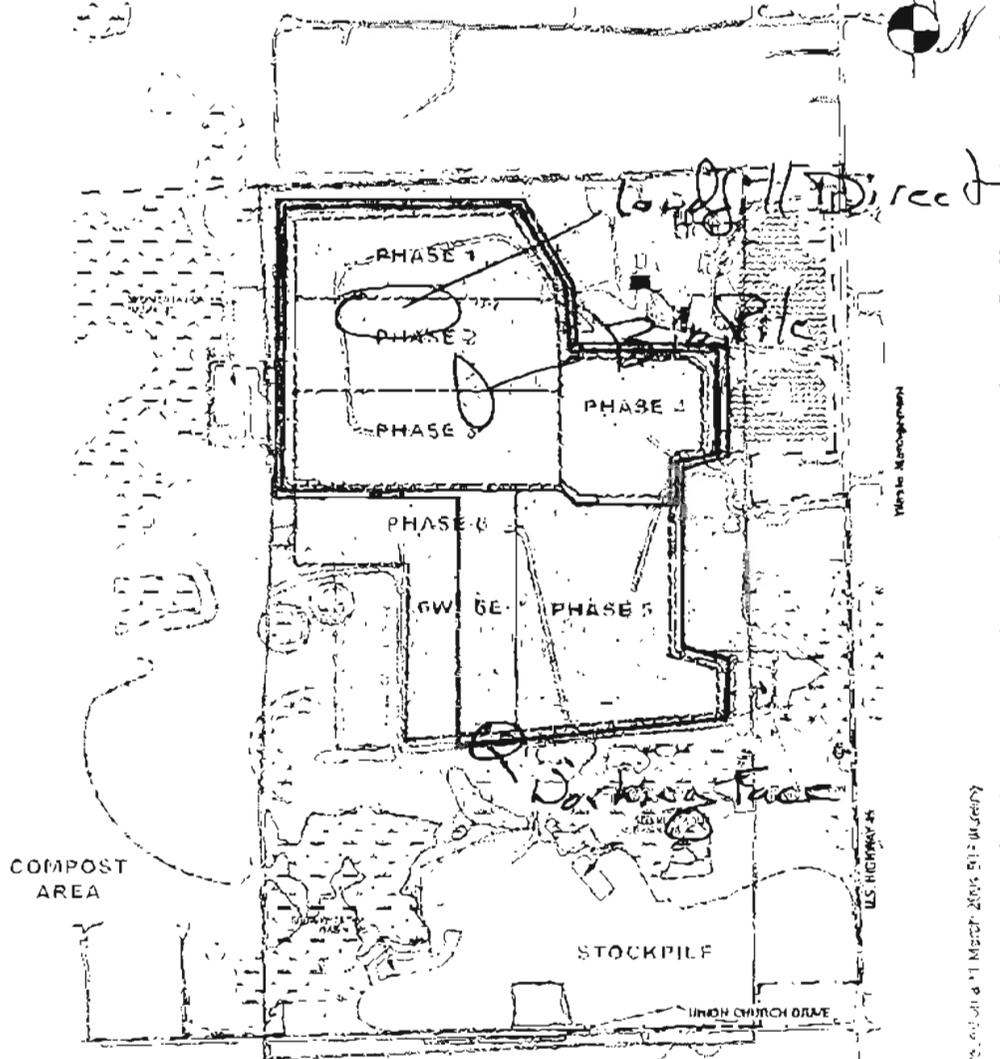
JSA Principal Signature:

Date:



VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO

PROJECT NO. 1020.10030



COMPOST  
AREA

STOCKPILE

**J Speur Associates**

Environmental Consultants  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

■ April - May 2002  
■ December 2002



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



West slope of Phase 6



West slope of Phase 6, after slope reclamation completed

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Active Area, more than adequate stockpiles of auto fluff



Temporary Sed Basin



Compost area



South slope undergoing filling



Dozer recovering intermediate cover for higher on slope



South slope of Phase 6



West slope of Phase 6



Southwest corner of Phase 6





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/14/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of September 13, 2010. The audit was performed at 8:00 am on **September 17, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- MSW being tipped in Phase 5/6 at south end of slope
  - Biosoils and landfill direct tipped, liquid load dumped in biosoils, no issue
  - Liquid waste and asbestos in Phase 4
  - Autofluff and site soils in use as cover
- Leachate being discharged to MMSD; maintenance levels in all Phases
- Flare in operation during audit, Intentional shutdowns on 9/12 and 9/13 for infrastructure work.
  - – 2000 CFM
- 1 storm event during audit; <1”
  - Basins have freeboard, Materials prepared for seeding
- Strong sludge odor at entrance
- No offsite litter, no winds to promote litter conditions, 3 pickers active
- US45 and 8 Mile Road clean, site roads rough but clear
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 9/16/10
- Clay haul next week ~ 3 days
- Gas well extensions on south slope of Phase 5/6

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE September 17, 2010  
Auditor on site at: Open  Close

TIME 8:05

WEATHER Low Cloud Cover w/ Sun

WIND Nil

TEMP Maximum 71 °F Minimum 57 °F

B.P. 30.11

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Dozer</u>		<u>1</u>				

A. Working Face Size and Location:

Bio soil & landfill direct being tipped  
liquid load dumped in Bio Soil, no issue  
MSW Being tipped in Phase 5/6 At  
South End Super.  
Liquid wastes & Asbestos on Phase 4



Cover Material:

Autofluff used site soils used for cover

B. Leachate Management:

Discharge to WMSD

Maintainance levels in Au Phases

C. Gas Monitoring and Management: Check appropriate box.

Flores in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# <del>7/16/2009</del> 9/23/2010			
Vegetation Condition:	Good <input type="checkbox"/>	<input checked="" type="checkbox"/> Fair	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Intentional shutdowns to extend infrastructure

D. Surface Water Management:

Storm Events Since Last	# 1	Est. Volume	< 1"
-------------------------	-----	-------------	------

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

Basins have freeboard. Materials prepared for seeding

E. Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input checked="" type="checkbox"/>
---------------------------------	---

Comments:

Strong sludge odor at entrance

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 3

Comments:

Ab off site litter, no wind to promote litter conditions

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

US 43 + 8 Mile clear, site roads rough but clear

I. Inspection of incoming Waste:

Scale Camera Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Spalter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	

Random Load Inspection Dates:

9/16/2010

Comments:

~ 1,200 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L Other Comments:

\* CLAY Haul Next week ~ 3 days  
\* Gas well extensions on South Slope  
of Phase 3/6

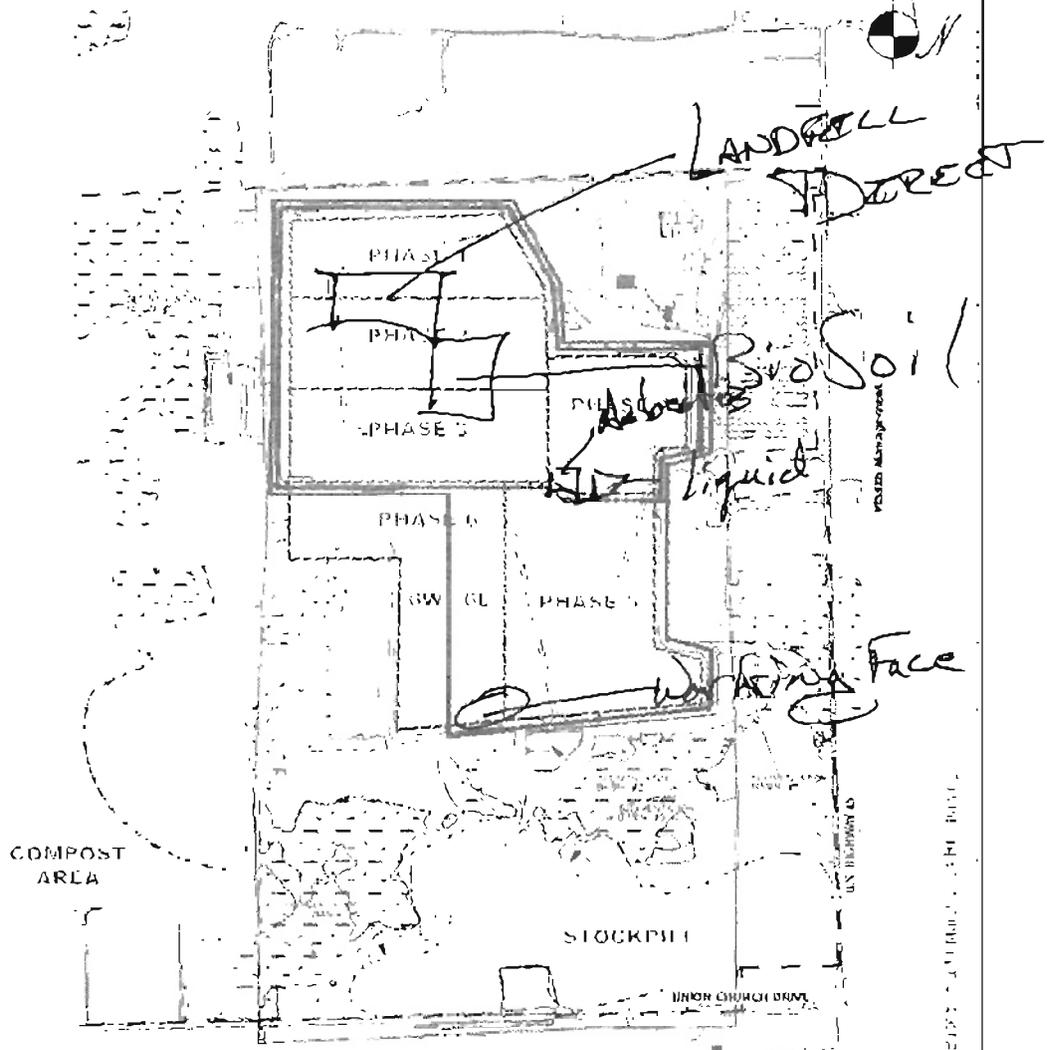
Auditor's Signature: *[Signature]*  
Auditor's Printed Name: *[Signature]*  
Management Signature: *[Signature]*  
Management Printed Name: *[Signature]*  
Management Title: *[Signature]*  
JSA Principal Signature: *[Signature]*

Date: 9/17/2010  
Date: 9/17/2010  
Date: \_\_\_\_\_



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL AUDIT MAP  
 CITY OF MUSKEGO

PROJECT NO 10-10-0030



*J Spear Associates*

Environmental Engineers  
 325 West Vine Street  
 Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



West slope of Phase 6



West Slope of Phase 6, additional soils from MMSD pipeline project

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Temp sed basin



Working face at West slope edge



Phase 5 looking towards Phase 6



South slope undergoing filling



Slope recovery activities



South slope of Phase 6



Compactor working on top of slope



Dozer preparing cover



West slope of Phase 6



West slope of Phase 6







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/14/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of September 20, 2010. The audit was performed at 1:50pm on **September 24, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- MSW being tipped in Phase 5/6 at south end of slope
  - Biosoils and landfill direct tipped, liquid load dumped in biosoils, no issue
  - Liquid waste and asbestos in Phase 4
  - Autofluff and site soils in use as cover
- Leachate being discharged to MMSD; maintenance levels in all Phases
- Flare in operation during audit, Intentional shutdowns on 9/12 and 9/13 for infrastructure work.
  - – 2000 CFM
- 1 storm event during audit; <1”
  - Basins have freeboard, Materials prepared for seeding
- Strong sludge odor at entrance
- No offsite litter, no winds to promote litter conditions, 3 pickers active
- US45 and 8 Mile Road clean, site roads rough but clear
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 9/16/10
- Clay haul next week ~ 3 days
- Gas well extensions on south slope of Phase 5/6

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE September 24, 2010  
 Auditor on site at:  Open  Close

TIME 1:50

WEATHER Cloudy & Sunny

WIND \_\_\_\_\_

TEMP Maximum 64 °F Minimum 46 °F

B.P. 29.80

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
<u>1</u>	Sweeper		<u>9/22/24</u>				

MAJOR EQUIPMENT BONEYARD

No	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Dozer</u>	<u>1</u>					

A Working Face Size and Location:

Phase 2 & 3 recycling soils. Bio soil being  
relocated for treatment.  
USW being tipped at South end of  
Phase 6, Side Slope restoration



Cover Material:

Site Soils on out board slope, Autofluff  
on top of Phase

B Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#	9/21		
Vegetation Condition:	Good <input type="checkbox"/>	<input checked="" type="checkbox"/> Fair	<input type="checkbox"/> Poor	<input type="checkbox"/> Dead

Comments:

Shutdown for well head repair

D. Surface Water Management:

Storm Events Since Last	#	1	Est. Volume	41
-------------------------	---	---	-------------	----

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

Top soil & Seeding to be done after  
slope recovery

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No odors

F Special Waste Handling: storage of fingerprint samples and testing procedures

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"/>	# 4

Comments:

No litter in Highway. Very Very high level

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

USHS of 8 mile clean

I. Inspection of incoming Waste.

Scale Camera Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	4
Spotter	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	

Random Load Inspection Dates:

9/23 & 9/24

Comments:

2, 700 TPD

J. Rejected Loads

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* Side slope recovery continues  
\* 4 Pickers will be used for the next couple of days

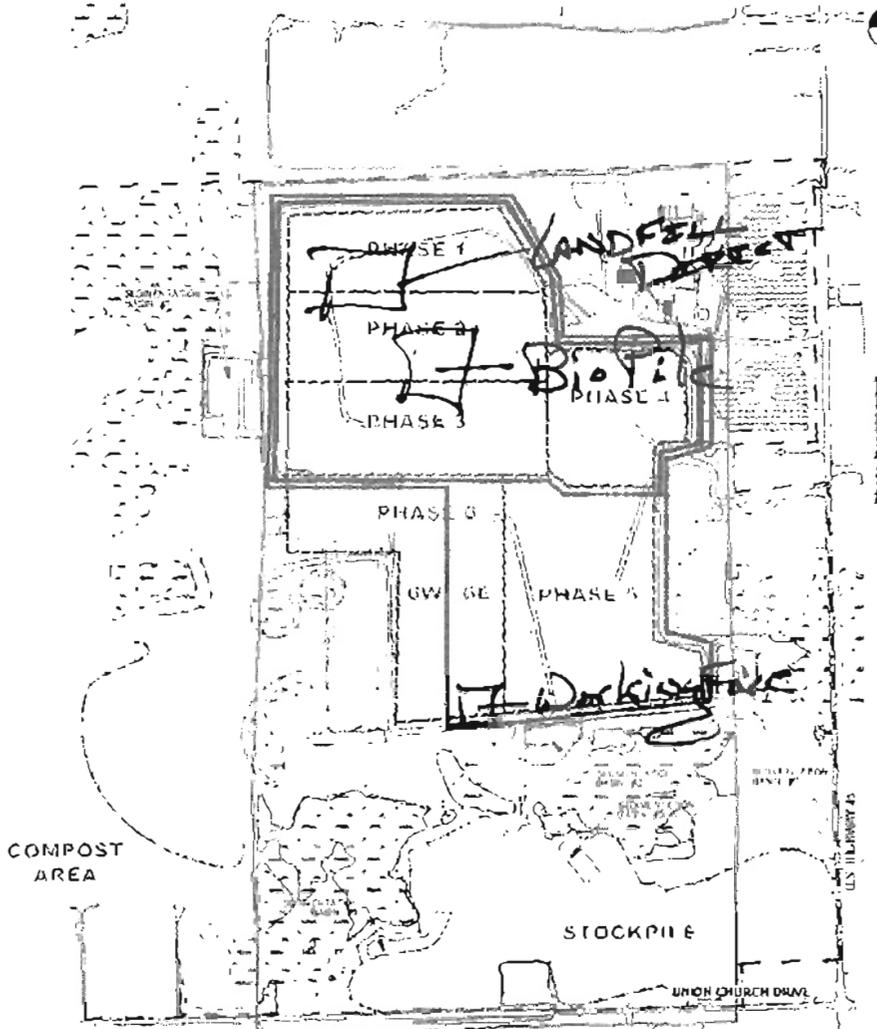
Auditor's Signature: [Signature]  
Auditor's Printed Name: Joe Walter Speed, Jr  
Management Signature: [Signature]  
Management Printed Name: Joe Walter Speed, Jr  
Management Title: ESB. Regional Engineer  
JSA Principal Signature: [Signature]

Date: 9/23/2010  
Date: 9/23/2010  
Date: \_\_\_\_\_



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL AUDIT MAP  
 CITY OF MUSKEGO

PROJECT NO. 1023.10030



**J Speur Associates**

Professional Engineers  
 325 West Vine Street  
 Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



West slope of Phase 6



Temp Sed Basin

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Active Area, more than adequate stockpiles of auto fluff



Waste being placed on South Slope of Phase 5



Waste being placed on South Slope of Phase 5



West slope of Phase 6





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/05/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of September 27, 2010. The audit was performed at 3:20 pm on **September 28, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- Working face on south slope of active area, recovering slope grades.
  - Very little soil expected for this week
  - Site soils being used on outboard slope
  - Autofluff on top, level area of Phase 6
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdowns
  - – 2000 CFM
- Stormy during audit, ~ 1", less than 1 inch
  - Pump in temporary sediment basin needs to be repaired
- Minor gas odors due to gas system shutdown at south end for repairs
- Some litter on sites and in trees, 3 pickers active
- US45 and 8 Mile Road clean
  - Water truck controlling dust during the audit
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 9/24/10, ~1700 tpd
- Slope recovery ongoing
- Biosoils pile being excavated for use as cover

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO 1020.10030

DATE September 28, 2010  
Auditor on site at:  Open  Close

TIME 3:20

WEATHER Clear, Sunny

WIND E 5-15

TEMP Maximum 66 °F Minimum 49 °F

B P 29.78

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	<u>Compactor</u>						
<u>1</u>	<u>Dozer</u>						
	<u>Excavator</u>						
	<u>Haul Truck</u>						
	<u>Water Truck</u>						
	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Excavator</u>						
<u>1</u>	<u>Water Truck</u>						
<u>1</u>	<u>DB Dozer</u>						

A. Working Face Size and Location:

Working face on South Slope of Active  
excavation slope grades. Very little  
soil expected for this week.

Cover Material:

Site Soils being used on outboard slope. Auto fluff on top, level area, of Phase 1

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~ 2000 lbs destroyed.

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume
	1	1

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

Pump in Temp Sed Basin needs to be repaired

E. Odor Control:

Odors Present:

Onsite <input checked="" type="checkbox"/>	Offsite <input type="checkbox"/>
--	----------------------------------

Comments:

Gas system shut down at South End for repairs. Minor gas odor

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 3

Comments:

Some litter on site in trees

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

US 45 3/8 Mile Clean  
Water truck controlling dust during Audit

I. Inspection of incoming Waste:

Scale Camera Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates	9/24/2010			

Comments:

21,700 TONS

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



Other Comments:

\* Slope recovery ongoing  
\* BioPile soils being excavated for use  
as cover

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

Date:

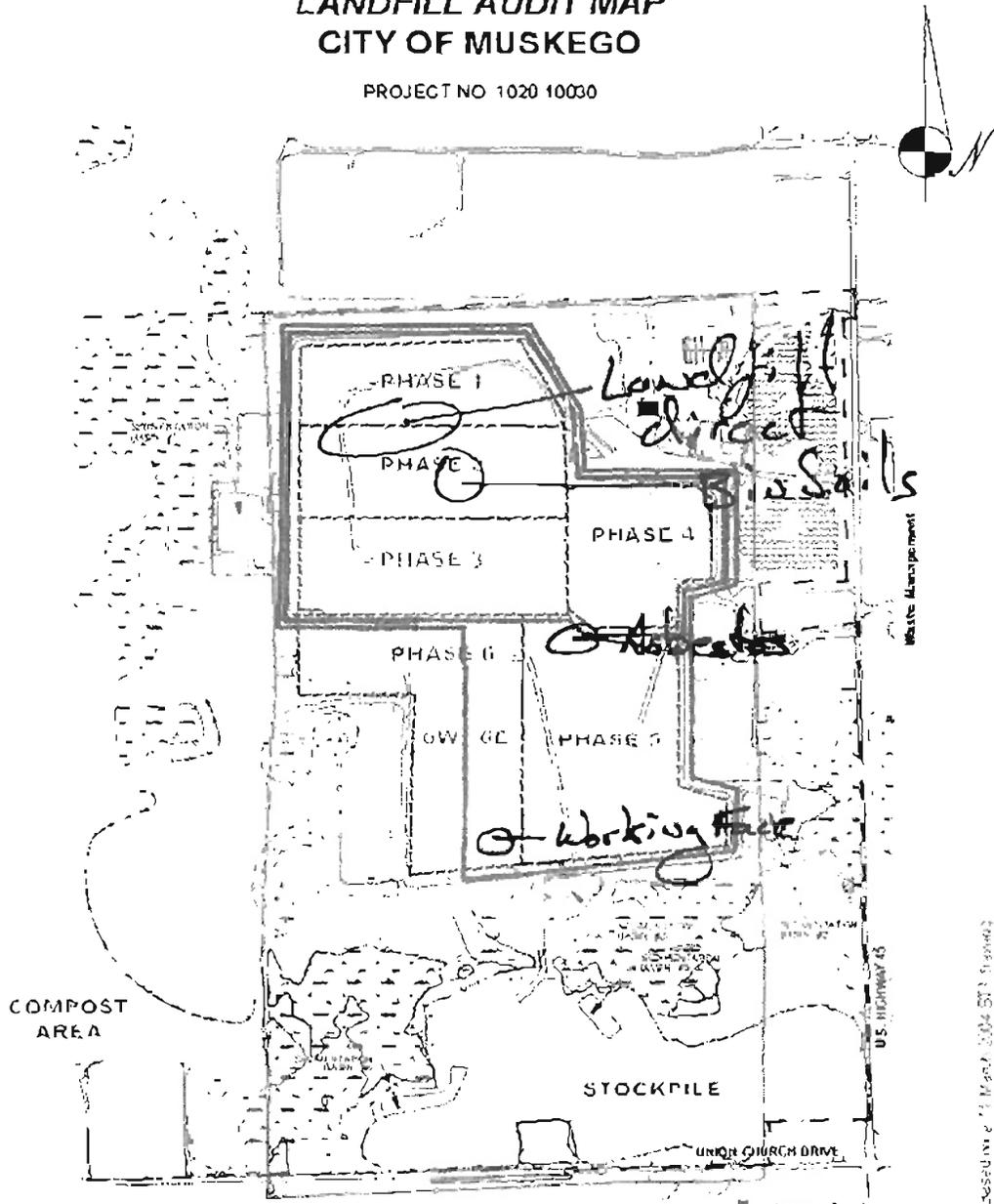
Date:

Date:



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL AUDIT MAP  
 CITY OF MUSKEGO

PROJECT NO 1020 10030



**J Spear Associates**

Environmental Engineers  
 325 West Vine Street  
 Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Excavation of cured bio-soil



Excavation of cured bio-soil

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Active area



Active area



West slope of Phase 6



Dozer spreading soils for cover



Waste placement in South Slope



South slope of Phase 6



Very minor seep on West slope of Phase 6





August





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 08/04/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of August 2, 2010. The audit was performed at 10:01 am on **August 4, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- Working face for MSW in Phase 6E at south end, reclaiming slope
  - Bio soils and landfill direct being tipped in Phase 2 and 3
  - Autofluff in good supply
- Leachate being discharged to MMSD
- Flare in operation during audit
  - Erosion repairs done at header line
  - Site dry, no storm events
- No odors on site during audit
  - Minor odors on US45 between landfills
- No litter on or off site, 1 picker active. Litter offsite controlled by construction crews
- US45 and 8 Mile Road clean; site roads improved
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was July 29, 2010
- Slope recovery ongoing
- Minor seeps in Phase 6E, west slope

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE August 4, 2010  
Auditor on site at:  Open  Close

TIME 10:01

WEATHER Cloudy, High Humidity

WIND 0

TEMP Maximum 87 °F Minimum 66 °F

BP 29.89

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>3</u>	Compactor						
<u>2</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	Excavator		<u>X</u>				

A. Working Face Size and Location:

Biocell & Landfill being tipped on  
Phase 2 & 3.  
Working face for MSW in Phase 65 at  
Southern end, reclaiming slope

Cover Material:

Autojiff in ample supply

B Leachate Management:

Discharge to MMSD

C Gas Monitoring and Management: Check appropriate box

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments

Erosion repairs about header line

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume
	0	

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

Site conditions dry

E Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input checked="" type="checkbox"/>
---------------------------------	---

Comments:

Minor odor can USWS between landfills

F Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Off-site litter controlled by construction crews

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

4545 E. Mile clean, site roads improved

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	

Random Load Inspection Dates: July 27, 2010

Comments:

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L Other Comments:

\* Slope recovery margins

\* Minor seeps in Phase CE, West Slope

\*

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

Date:

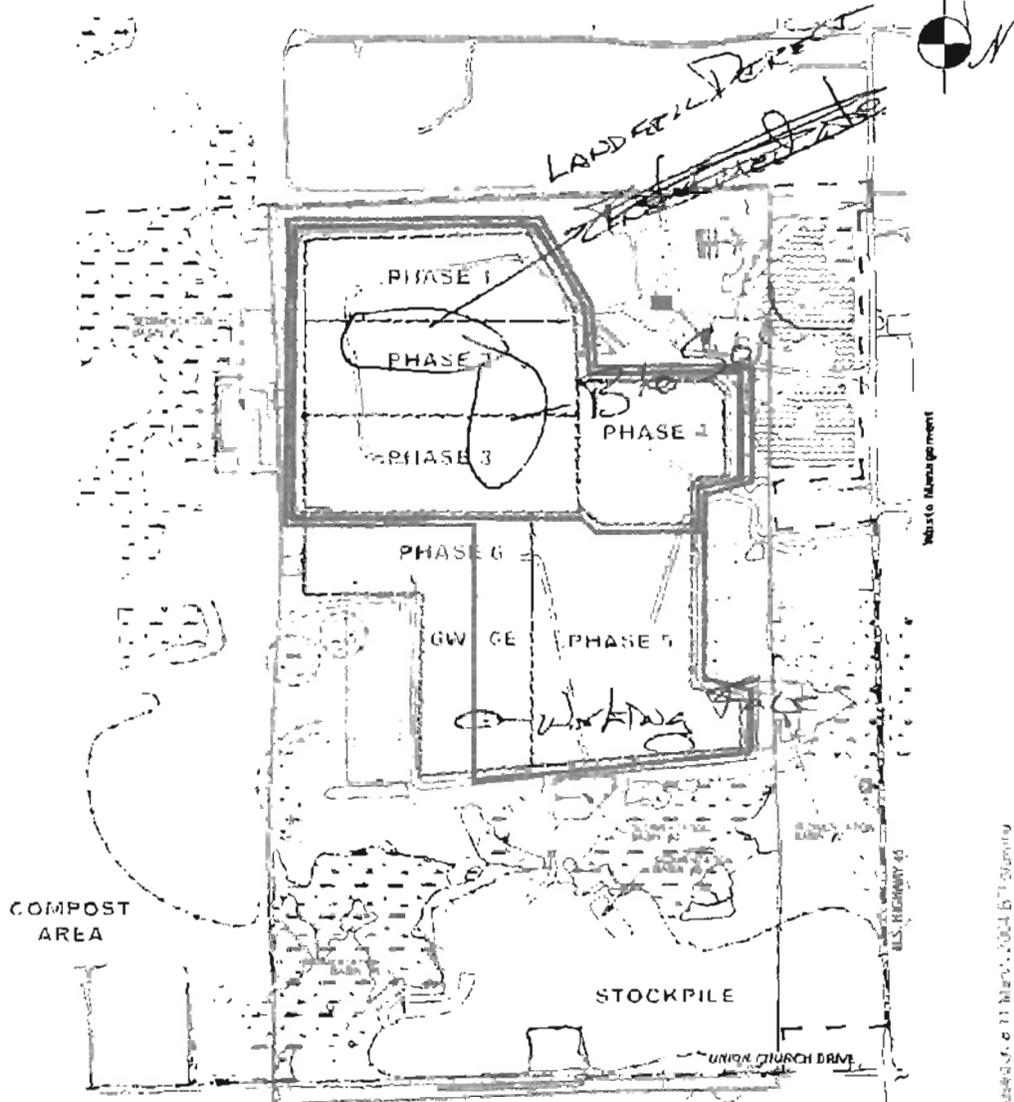
Date:

Date:



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020 10030



Map of 11 Mills, 2004 B71 Slurry

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Bio Soil regraded for future relocation



Soil stockpiles

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Working Face



Minor Seeps in Phase 6, West slope







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 08/11/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of August 9, 2010. The audit was performed at 1:40 pm on **August 11, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- Working face in Phase 6 on west slope recovering airspace
  - Bio soils and landfill direct soils in Phase 2 and 3
  - Autofluff, site soils and some clear fill from MMSD line for cover
- Leachate being discharged to MMSD, minor elevated levels in Phase 6
- Flare in operation during audit, no shutdowns
  - 1990 – 2000 CFM
- One storm event since last audit, ~ 1”
  - Ditch cleaning ongoing, basins low
- No odors off site during audit
  - Minor odors on site
- Some litter onsite, no off site, 1 picker active, winds increasing
- US45 and 8 Mile Road clean; site conditions dusty
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was Aug 7, 2010
  - ~2400 tpd
- Site cleaning up carbon liquids spill from 8/10/10.
  - Load spilled into temp basin, no release to stormwater system
- Pipeline work ongoing on US 45 and Loomis road
- Bio soils in Phase 5 nearing completion

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEDDHA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE August 11, 2010 TIME 1:40  
Auditor on site at. Open  Close

WEATHER Clear Sunny Humid WIND EAST 5-10

TEMP Maximum 86 °F Minimum 72 °F B.P. 29.86

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
3	Dozer						
1	Excavator						
1	Haul Truck						
1	Water Truck						
1	Sweeper	<u>8/10/10</u>	<u>✓</u>				

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	Compactor		<u>✓</u>				

A Working Face Size and Location:

Working Face in Phase 2 & 3 For Bio Soils  
& Landfill direct soils  
Working face in Phase 6 on West  
Slope covering air space

Cover Material:

Autohuff and site soils. Some clear fill from MMSD pipeline

B. Leachate Management:

MMSD, minor raised elevation in phase 6

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:			#	0
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~ 1,990 - 2,000 fpm

D. Surface Water Management:

Storm Events Since Last	# /	Est. Volume	ac /"
-------------------------	-----	-------------	-------

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

Ditch cleaning ongoing, Basins low

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No offsite odors, Minor on site odor

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Wind picked up today,

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

US 45 1/2 mile road clean

Site conditions dusty

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
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:	8/7/10			

Comments:

~ 2,700

Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

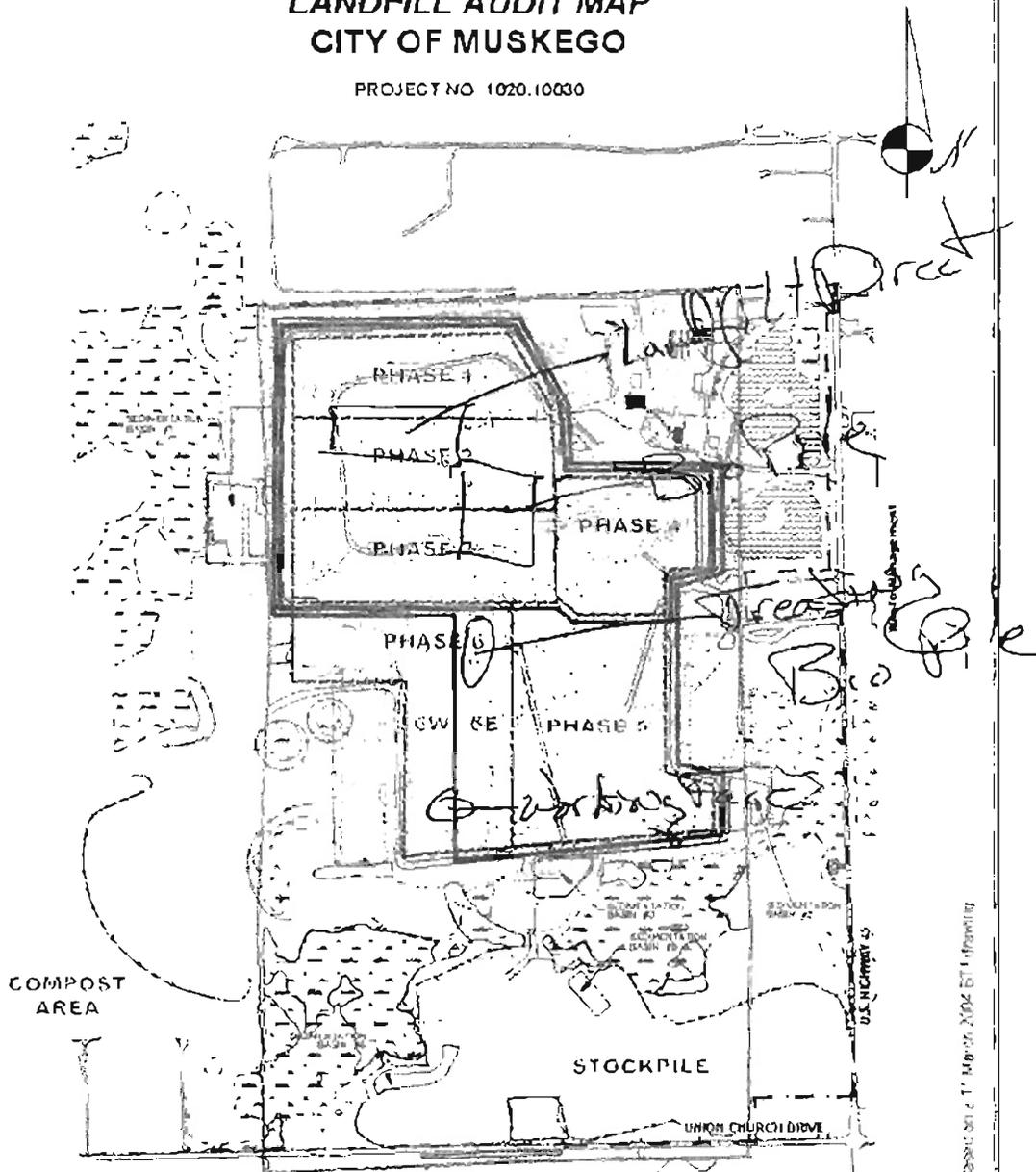
- \* Site cleaning up carbon liquid spill from 8/10/10. Spill into temporary basin no release to stormwater system
- \* Pipeline work ongoing, on US 315 & Lewis Rd.
- \* Bio Soil in Phase 3 nearing completion

Auditor's Signature: [Signature] Date: 8/11/10  
Auditor's Printed Name: John A. McCaffrey, Jr.  
Management Signature: [Signature] Date: 8/11/10  
Management Printed Name: John A. McCaffrey, Jr.  
Management Title: Site Manager  
JSA Principal Signature: [Signature] Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

January 2007  
December 2006



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Working face at South end of Phase 6 West Slope



Excavator removing material from activated charcoal spill in temp sed basin

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Area of traffic for cleaning up spill



Seeps in Phase 6 West Slope smaller



MMSD Pipeline soils to be used for cover



Working Face nearly at Southwest corner of Phase 6



Active Area



Trucks tipping above working face



Excavator filling Haul Truck



Dozer moving waste to compactors in working face





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 08/18/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of August 16, 2010. The audit was performed at 3:00 pm on **August 18, 2010** by Anna Krajcik in the presence of Jay Warzinski.

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

- One working face at facility
  - Working face for MSW at Southwest Corner Active Area
  - Site soils and Auto-fluff in use as cover
  - Cover in good condition through out site.
- Leachate being discharged to MMSD all week
  - Leachate elevations below maintenance in all phases
- Flare in operation during audit
  - Flare shutdown due to unknown cause, but was relit
- Site very wet due to several rain storms.
  - Basins have freeboard
- Waste odors along US 45
  - Minor odor above active area
- Litter on site minimal
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was August 14, 2010
- US 45 and 8 Mile Road clean
- Grading work on East side of Phase 4&5 ongoing.
- Site roads in the process of being regraded.
- Backhaul to Glacier Ridge, being conducted by Miller Excavating.
- West slope recovery nearly complete
- Small seeps covered in Northwest corner of Active Area

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE August 18, 2017  
 Auditor on site at: Open  Close

TIME 3:00pm

WEATHER Sunny Clear

WIND W 8 MPH

TEMP Maximum 81 °F Minimum 65 °F

B.P. 30.96

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	<u>Compactor</u>						
<u>3</u>	<u>Dozer</u>						
<u>1</u>	<u>Excavator</u>						
<u>1</u>	<u>Haul Truck</u>						
<u>1</u>	<u>Water Truck</u>						
	<u>Sweeper</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Active Area at Southern West corner  
of 6W

Jay in Mond, Tues & Friday  
 morning



Cover Material: Clay and auto fluff for cover  
Cover in good condition

B. Leachate Management: @ Maintenance, Pumping out  
to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	# <u>1</u>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments: Unknown Cause, Jay Restarted  
- 2000 cfm

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 drying

E. Odor Control:

Odors Present: Onsite  Offsite

Comments: Waste odors on US 45 and on Face

F. Special Waste Handling: storage of fingerprint samples and testing procedures

Some liquid waste



G. Litter Control:

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

Comments:

Litter Volumes Low.

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

US 45 & 8 MILE 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 type="checkbox"/>	#	
Random Load Inspection Dates:	<u>8/14/10</u>			

Comments:

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		<u>None</u>

Comments:



L. Other Comments:

Clay hauling out to Glacier by Miller excavating.

Oaks Regraded the Road on Monday.

Decommissioning Well on South Slope. Excavator clipped line during audit.

Small Seeps Covered on N W corner

Road Completed on top of Hill.

West Slope Nearly complete, 6" of Clay to be placed this week.

Wells on South Slope being addressed.

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

Date: 8/18/10

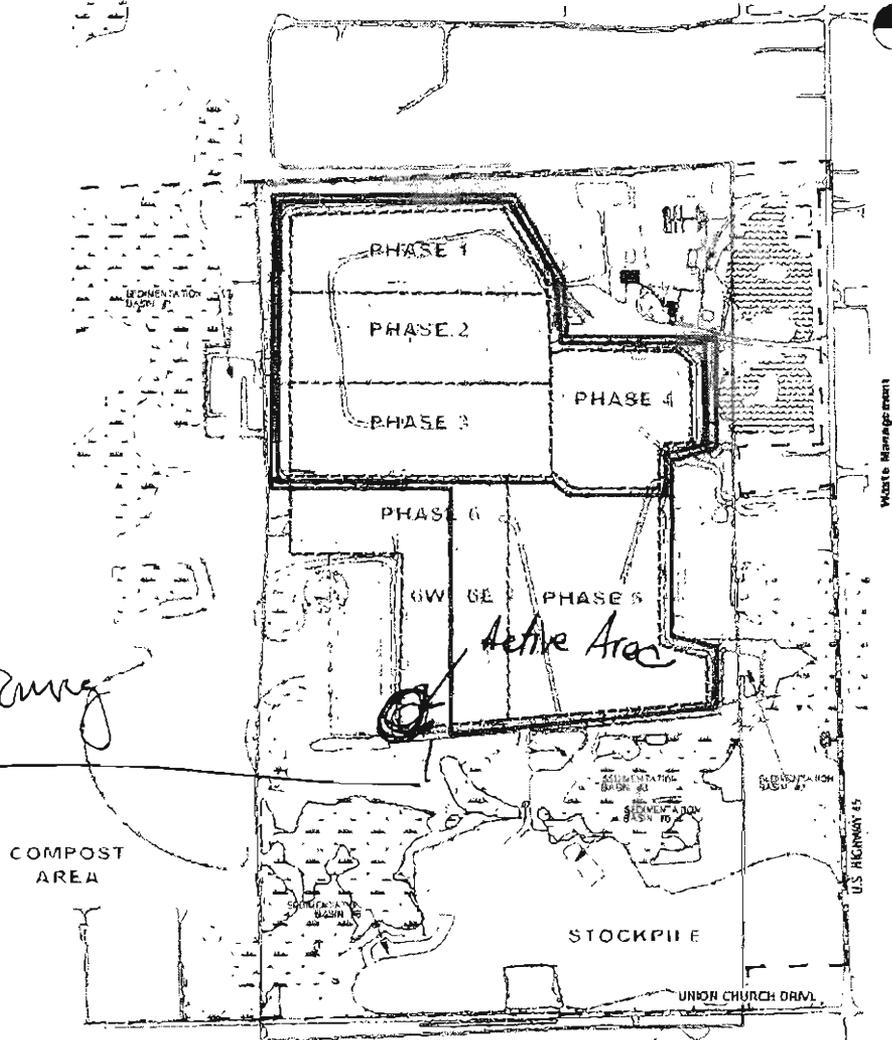
Date: 8/18/10

Date:



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL AUDIT MAP  
 CITY OF MUSKEGO

PROJECT NO 1020 10030



*deanna's storm well*

*Active Area*

COMPOST AREA

STOCKPILE

January 2005  
 December 2008

**J Spear Associates**

Environmental Engineers  
 325 West Vine Street  
 Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



# VEOLIA EMERALD PARK LANDFILL AUDIT PHOTOS CITY OF MUSKEGO

PROJECT NO. 1012.10030



Excavator pulling back clays and top soil



Working face.

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Working face viewed from below



Working face at Southwest Corner of active area



Current asbestos pit



Temp sed basin



Bio Soils



Landfill direct



West Slope of Phase 6, additional soils placed from MMSD pipeline project



West slope of Phase 6







October





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/05/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of October 4, 2010. The audit was performed at 2:35 pm on **October 8, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- Bio and landfill direct soils to Phase 1, 2 and 3
  - MSW being tipped in phase 5 & 6, finishing south slope recovery
  - Autofluff and site soils being used in
- Discharge to MMSD, liquid loads being tipped adjacent to asbestos pit
- Flare in operation during audit, no shutdowns
  - – 2000 CFM
- 1 storm event since last audit, ~ 1”
  - Basins with freeboard, ditch cleaning ongoing
  - Temporary basin pump repaired
- Minor autofluff odors offsite, autofluff and sludge odors offsite.
- Some litter onsite, 1 picker active
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 10/07/10
- Contractor expected 10/18 or 10/25 to repair/replace roadway
- Well work needed on south slope of site after slope recovery

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.1003C

DATE October 8, 2010  
 Auditor on site at: Open  Close

TIME 2:35

WEATHER Clear Sunny & Dry

WIND South 5-10

TEMP Maximum 78 °F Minimum 55 °F

B.P. 30.06

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

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

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Bio & landfill direct soils to Phases  
1, 2, & 3.  
MSW Being tipped to Phase 5 & 6, finishing  
South slope recovery



Cover Material:

Autofluff and site soils being used for cover

B Leachate Management:

Discharge to MMSD, Liquid loads being tipped adjacent to Asbestos Pit

C Gas Monitoring and Management: Check appropriate box

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

No Shut Downs

~2,000 CFM

D Surface Water Management

Storm Events Since Last # 1

Est. Volume

21"

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

Basins with freeboard

Ditch leading outgoing, Temp basin

Pump repair needed

E. Odor Control:

Odors Present

Onsite

Offsite

Comments

Minor auto fluff odor off site. Autofluff & Sludge odor onsite

F Special Waste Handling: storage of fingerprint samples and testing procedures

None



G Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

Litter onsite minor

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

US 45 1/2 mile road 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"/>	#	3
Spotter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	

Random Load Inspection Dates:

10/7/10

Comments:

~ 1,700 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* Contractor expected 10/13 or 25 to repair/replace road way.

\* Well work needed on South slope of site after slope recovery.

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

*[Handwritten signatures and names]*  
Specialist, Spec, SE  
JSA  
S. L. ...

Date: 10/8/2010

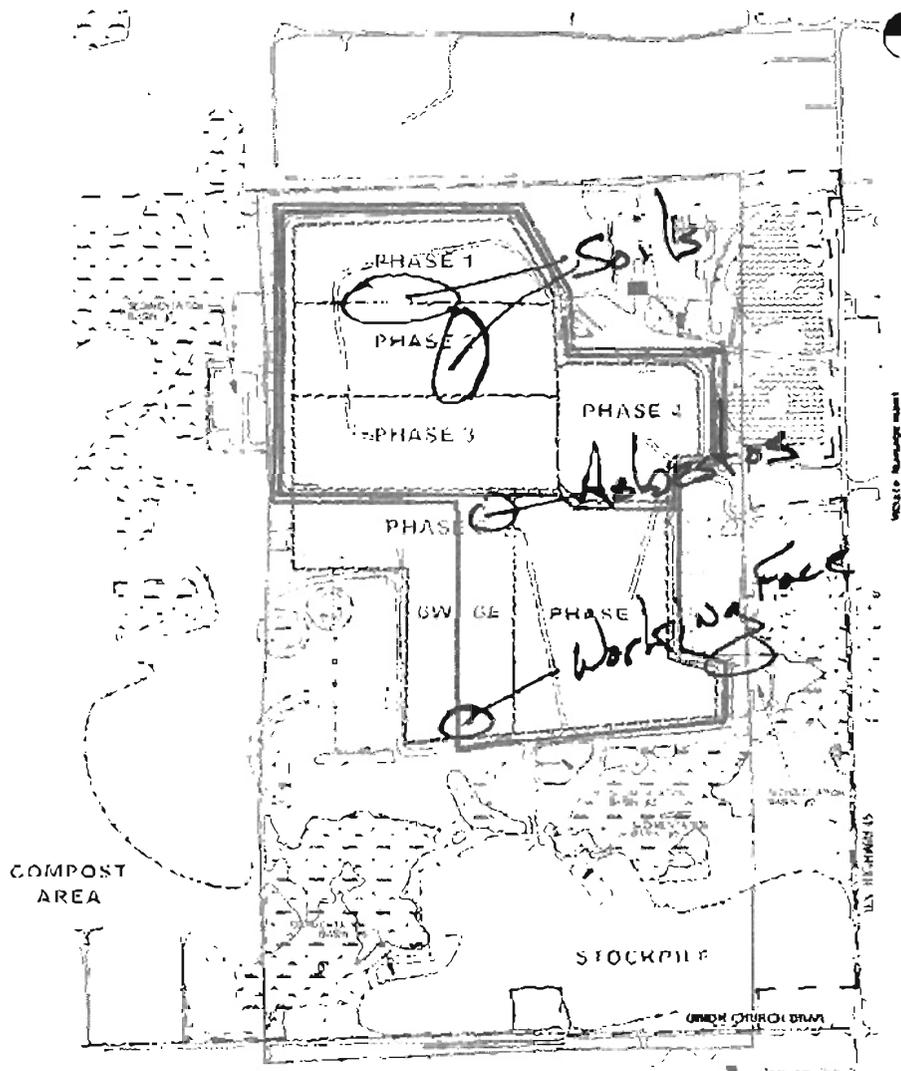
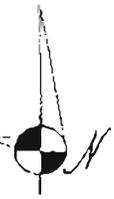
Date: 10/8/2010

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Temp Sed. basin



West slope of Phase 6

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



West slope of Phase 6



Excavation area, topsoil stockpile and wetland



Covering waste along access road to Phase 5



Phase 5 & 6, South Slope



Cover placement and waste at top of Southwest corner of Phase 6



Southwest Corner of Phase 6



West slope of Phase 6





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/21/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of October 11, 2010. The audit was performed at 2:20 pm on **October 15, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- New biosoils mixed with fertilizer, new lift started across Phase 6 from the south
  - Cover supplemented across top of active area with autofluff
  - Autofluff and site soil used for cover
- Leachate being discharged to MMSD, all levels at maintenance levels
- Flare in operation during audit, no shutdowns
  - ~ 1950 CFM
- No storm events since last audit
  - Basins nearly dry
- No offsite odors, minor odors onsite
- Litter well under control, 1 picker active
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 9/02/10
- Contractor for access roads expected thru to Thanksgiving, including road to compost
- Bio pile construction ongoing
- Numerous seeding projects to be done

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE October 15, 2010 TIME 2:20  
Auditor on site at:  Open  Close

WEATHER Clear Sunny, Puffy Clouds WIND N 0-5  
TEMP Maximum 60 °F Minimum 42 °F BP 30.09

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No	DESCRIPTION	Rented	Contracted	No	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
	Excavator						
	Haul Truck						
<u>1</u>	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A Working Face Size and Location:

New Bio Soil Site mixed up ~~with~~ Fertilizer  
New Lift started across Phase 6 from the South  
Cover supplemented across top of Active Area  
with Autofluff



Cover Material:

Auto fluff and site soils

B Leachate Management:

Discharge to MMSD - All Levels at Maintenance Levels

C Gas Monitoring and Management: Check appropriate box

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments

~ 1950 gpm

D. Surface Water Management.

Storm Events Since Last	#	Est. Volume
-------------------------	---	-------------

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

Basins nearly dry

E. Odor Control:

Odors Present:

Onsite <input checked="" type="checkbox"/>	Offsite <input type="checkbox"/>
--	----------------------------------

Comments:

No offsite odors - ~~at~~ minor odors onsite

F Special Waste Handling: storage of fingerprint samples and testing procedures

None

G Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 1

Comments:

*Litter well under control*

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

*US 45 1/2 Mile Clean*

I Inspection of incoming Waste:

Scale Camera Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	

Random Load Inspection Dates *October 13, 2010*

Comments:

*~ 1,500 TPD*

J Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		<i>None</i>

Comments:



Other Comments:

- \* Contractor for access roads expected thru  
to Yaw's yard  
including road to Camp
- \* Bio pile construction ongoing
- \* Numerous seeding projects to be done

Auditor's Signature:

*[Handwritten Signature]*

Date: 10/15/2010

Auditor's Printed Name:

*[Handwritten Name]*

Management Signature:

*[Handwritten Signature]*

Date: 10/15/2010

Management Printed Name:

*[Handwritten Name]*

Management Title:

*[Handwritten Title]*

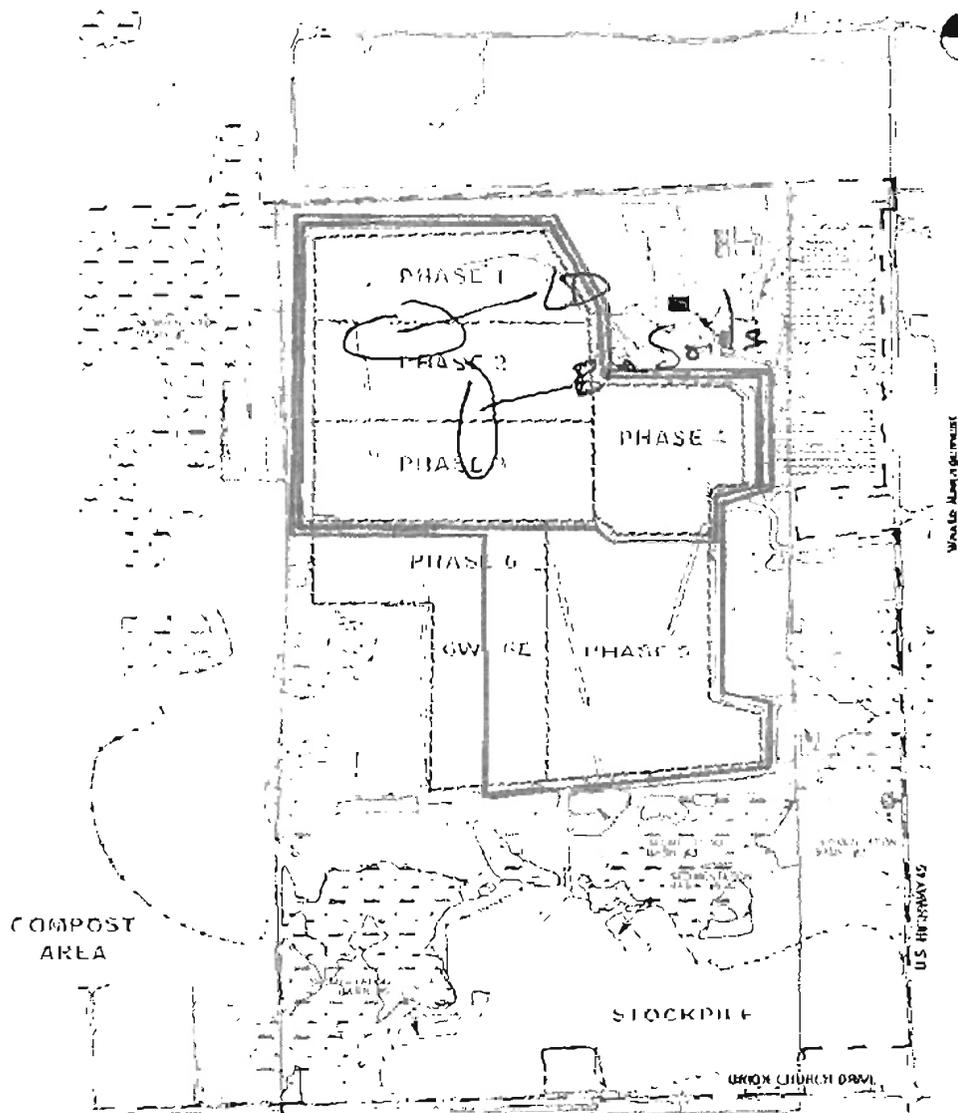
JSA Principal Signature:

Date: \_\_\_\_\_



# VEOLIA EMERALD PARK LANDFILL LANDFILL AUDIT MAP CITY OF MUSKEGO

PROJECT NO. 1020 10000



Veolia Management

Collection Management Dept. 7/20/10

**J Spear Associates**

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Bio soil pile



Active Area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



New lift starting at South end of Phase 6



Working face



South slope awaiting clay, topsoil, and seeding



South Slope





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., PE

**COPIES:** File

**DATE:** 10/05/2010

**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of October 18, 2010. The audit was performed at 12:15 pm on **October 22, 2010** by Jo Spear Sr in the presence of Brett Coogan. There were no photos taken at this audit.

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

- Working face reasonable for volume ~ 250' x 100' and end of active area
  - Daily cover is autofluff, previous night's cover shows little to no tracking
  - Some erosion rills on interior slope
- Leachate being discharged to MMSD; no sign of seeps
- Flare in operation during audit, no shutdowns
  - – 2000 CFM
- No storms since last audit
  - Erosion control structures show no impact from lack of rain; retention ponds were very low or dry
- No noticeable odors
- Some litter on out bound slope
- No vehicle impacts noted
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date not noted
- Main access road to dace to be resurfaced with ~5" of new asphalt with in the next two weeks.
- Asbestos pit that has been used is now closed and asbestos dispersal moved to new location. New asbestos disposal area is 25 to 30 feet west of prior location.
- Phase 6 west constructions tied to schedule for road resurfacing, contract to begin in mid November.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE 10/22/10  
Auditor on site at:  Open  Close

TIME 12:15 PM

WEATHER \_\_\_\_\_

WIND SW 8MPH

TEMP Maximum 62 °F Minimum 48 °F

B.P. 30.15

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
	Excavator <u>D8</u>						
	Haul Truck						
1	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working Face Reasonable for Volume  $\approx 750 \times 100'$   
AT END of Working area,



Cover Material: - daily cover Auto fluff - LAST NIGHTS daily  
cover showed little to no tracking

Some erosion rills on interior slopes -

B. Leachate Management:

No signs of Seeps -

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# <u>None</u>			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

At the time of this Audit (=12/20) the DOZER WAS NOT  
operating - Assumed operator at lunch

D. Surface Water Management:

Storm Events Since Last	# <u>3 weeks</u>	Est. Volume	<u>MINOR</u>
-------------------------	------------------	-------------	--------------

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

Erosion control structures show ~~no~~ impact from  
Drought - Did not see potential stormwater/waste contact  
opportunities & Retention ponds were very low or dry

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No Noticeable odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures

NA



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	<i>Minimal on interior slopes</i>
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#

Comments:

---



---



---

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

*N/A*

---



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---

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 type="checkbox"/>	#	

Random Load Inspection Dates:

Comments:

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J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		<i>N/A</i>
4.		

Comments:

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L. Other Comments:

- MAIN ACCESS ROAD TO FACE TO BE RE SURFACED w/ 2 1/2" NEW ASPHALT w/in NEXT 2 WEEKS
- Asbestos P.T that has been used is now closed AND Asbestos Disposal moved to NEW location - Request Engineer Best has inquire of location (proposed) for New Asbestos Disposal areas 25-30 ft West of prior location.
- West Construction is being tied to schedule for Road Resurfacing - Cost to begin mid-November.

Auditor's Signature: \_\_\_\_\_  
Auditor's Printed Name: \_\_\_\_\_  
Management Signature: \_\_\_\_\_  
Management Printed Name: \_\_\_\_\_  
Management Title: \_\_\_\_\_  
JSA Principal Signature: \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_





VEOLIA EMERALD PARK LANDFILL  
 LANDFILL CONTRACTORS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE 10/22/10

TIME 12:15 pm

MAJOR EQUIPMENT USED IN CONSTRUCTION OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
	Compactor						
	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

N/A

A. Work Accomplished Today (Scheduled & Completed):

*No Construction activities on site*



B. Excavations / Soil Management:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
*NA*  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. Off Site Hauling

	Weight Ticket Number	Weight of Load in Pounds
1		
2		
3		
4		
5	<i>N/A</i>	
6		
7		
8		
9		
10		

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Auditor's Signature: *J. M. Spear Sr.*  
Auditor's Printed Name: \_\_\_\_\_  
Management Signature: *Brett Coogan*  
Management Printed Name: BRETT COOGAN  
Management Title: REGIONAL ENGINEER

Date: 10/22/10  
Date: 10/22/10











## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 10/05/2010  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of October 25, 2010. The audit was performed at 10:50 am on **October 28, 2010** by Jo Spear Jr in the presence of Jay Warzinski.

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

- Working face in southeast corner of active area
  - Working face small due to winds
  - Bio soil and landfill direct tipped in Phase 2 and 3
  - Site soils, autofluff and Sands for cover
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdowns
  - Gas wells being extended on Phase 5 south slope
- One storm event since last audit, < 1”
  - Basins have plenty of storage
- No odors during audit
- Litter onsite, 13 pickers active
  - Several days of picking expected due to high winds
- US45 and 8 Mile Road clean, site roads clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 10/28/10 ~ 1400 tpd
- High winds causing litter, waste loads diverted during high winds
- Gas work ongoing
- Reduced active area to control litter

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.1003C

DATE October 28, 2010  
Auditor on site at: Open  Close

TIME 10:50

WEATHER Overcast, Windy

WIND N 15-20

TEMP Maximum 47 °F Minimum 28 °F

B.P. 29.99

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
1	Excavator						
1	Haul Truck						
	Water Truck						
1	Sweeper	<u>10/24</u>					

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	<u>D6 Dozer</u>	<u>Out</u>	<u>2 Weeks</u>				

A. Working Face Size and Location:

Working face in Southeast corner of Active Area. Working face small due to winds. Bio Soil & Landfill direct tipped in Phase 2 & 3



Cover Material:

Site Soil, Autocluff & Sands

B. Leachate Management:

MMSD Discharge

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	#	None		
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Gas wells being extended on Phase 3 South Slope

D. Surface Water Management:

Storm Events Since Last	#	/	Est. Volume	< 1"
-------------------------	---	---	-------------	------

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

Basins have plenty of storage,

E. Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input type="checkbox"/>
---------------------------------	----------------------------------

Comments:

No odors during audit

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 13

Comments:

Several days of picking expected due to high winds

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

US 45 & 8 Mile Road Clean  
Site roads clean.

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Random Load Inspection Dates:		10/28/10		

Comments:

~ 1,400 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

- \* High winds causing litter, Waste loads diverted during high winds
- \* Gas work ongoing.
- \* Reduced Active Area to control litter

Auditor's Signature:

*[Handwritten Signature]*

Date: 10/29/10

Auditor's Printed Name:

*Tommy H. Spear, Jr.*

Management Signature:

*[Handwritten Signature]*

Date: 10/29/2010

Management Printed Name:

*Dr. William J. ...*

Management Title:

*SR. REGIONAL ENGINEER*

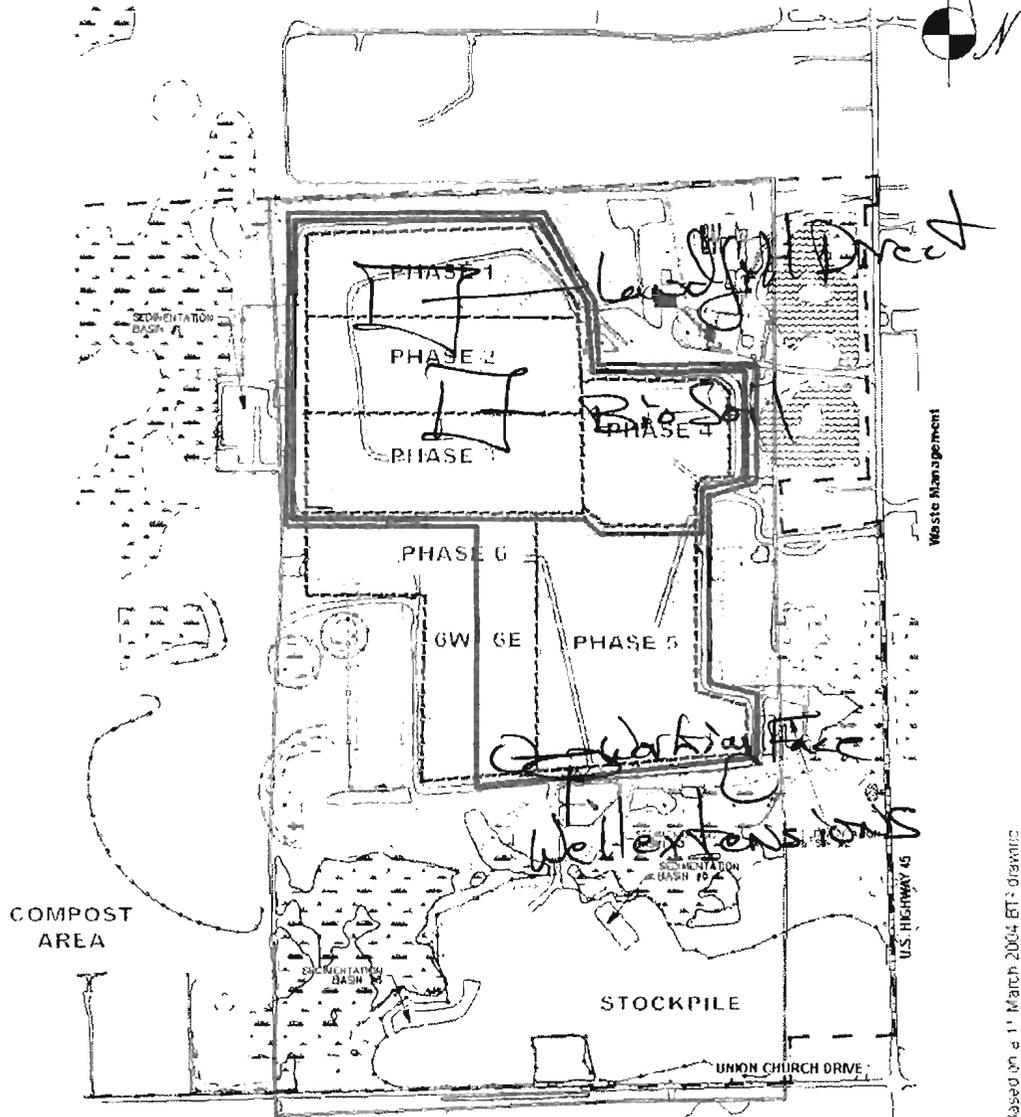
JSA Principal Signature:

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



based on a 1" March 2004 ET: drawing

***J Spear Associates***

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

January 2002  
December 2006

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Temp Sed. Basin



Working Face

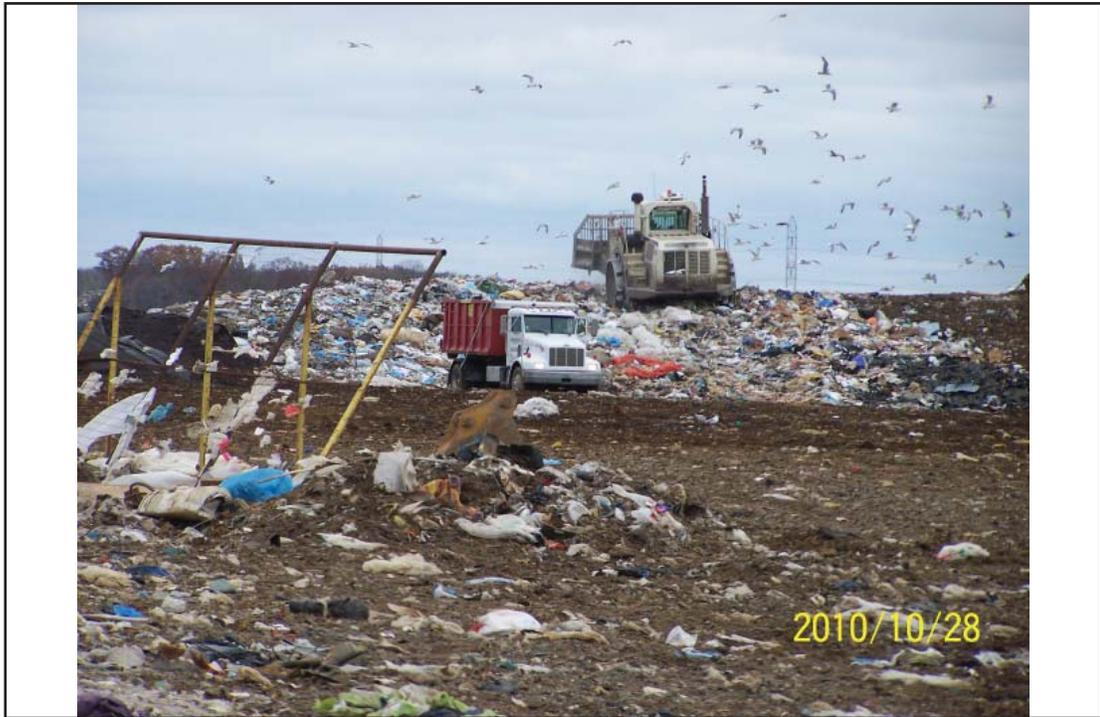
***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



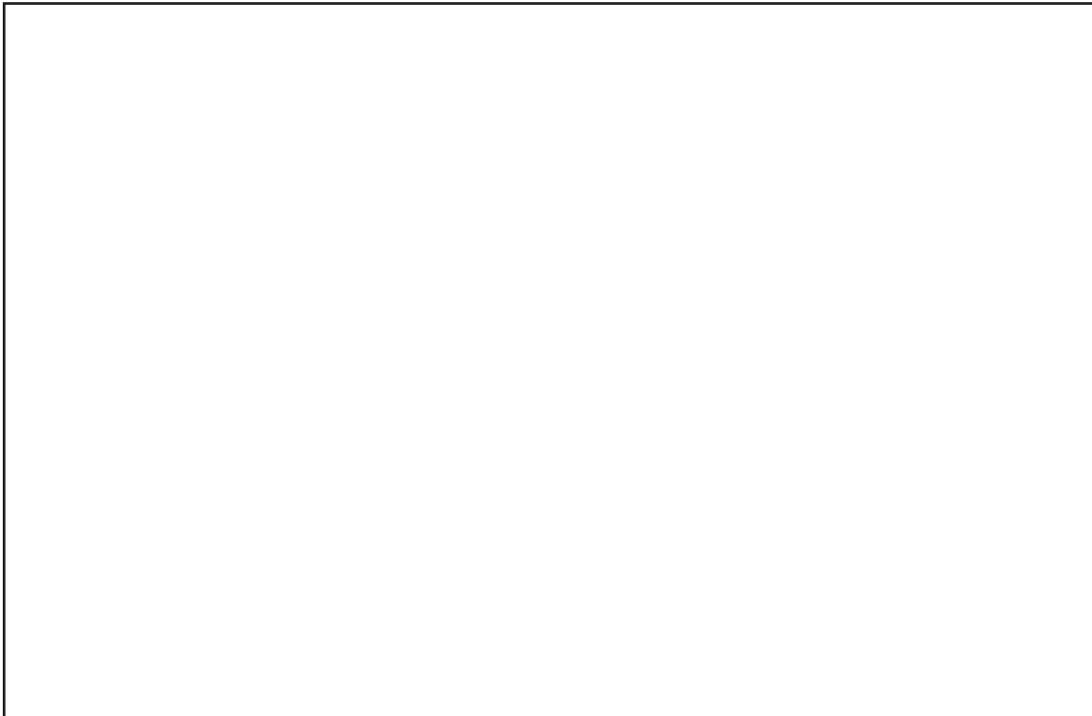
Active Area



Working face



Wind blown litter below working face







November





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 11/30/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of November 1, 2010. The audit was performed at 9:10 am on **November 3, 2010** by Jo Spear Jr. in the presence of Jay Warzinski.

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

- Working face at south end of Phase 6
  - Asbestos pit at north end and soils being tipped in Phase 2 & 3
  - Intermediate cover on Phase 6W, west slope back dragged since last audit
  - Autofluff for daily cover
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdowns
  - – 2000 CFM
- No storm events since last audit, possible rain event today
  - system has more than enough free board
- Minor waste odor in parking lot and on US 45
- Asbestos tipping at asbestos pit only, liquid load on 11/03/10
- Litter in fences and front ponds, 13 pickers active throughout site.
- US45 and 8 Mile Road clean, some muddy slicks, nothing dangerous
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 11/03/10, ~1500tpd
- Litter picking ongoing from last weeks heavy winds. Additional pickers in use for extended time.
- South gas system extended
- Clay from pipeline project being spread on west slope of Phase 6
- Erosion repairs begun
- Oaks crushing concrete in compost area
- Oaks grading roads on site.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE November 3, 2010 TIME 9:10  
Auditor on site at: Open  Close

WEATHER Overcast, on & off rain WIND S 10-15

TEMP Maximum 58 °F Minimum 39 °F B.P. 30.05

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>2</u>	Dozer	<u>1</u>					
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONFYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Backhoe</u>	<input checked="" type="checkbox"/>					
<u>1</u>	<u>DG</u>	<input checked="" type="checkbox"/>					

A. Working Face Size and Location:

Working face at South end of Phase 6  
Asbestos Pit at North end and soils  
being tipped in Phases 2 & 3.  
Intermediate cover on Phase 6W, West Slope  
backdragged since last Audit.



Cover Material:

Autoglass

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Shutdowns Since Last Audit:	#		0	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~ 2,000 g/m

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume
-------------------------	---	-------------

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

Possible rain event today, system has more than enough free board.

E. Odor Control:

Odors Present:

Onsite <input checked="" type="checkbox"/>	Offsite <input checked="" type="checkbox"/>
--	---

Comments:

Minor waste odors in parking lot & on US 45

F. Special Waste Handling: storage of fingerprint samples and testing procedures

Asbestos tipping at Asbestos Pit Only, Liquid Leads Today



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# 13

Comments:

Litter in fences & front ponds. Litter pickers active throughout site

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

US 45 1/2 Mile Clean, some muddy slicks, nothing dangerous

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	

Random Load Inspection Dates: 11/3/2010

Comments:

~ 1,500 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		None

Comments:



L. Other Comments:

\* Litter picking ongoing from last weeks heavy winds. Additional pickers in use for extended time.

\* South gas system extended

\* Clay from pipeline project being spread on West Slope of Phase 6

\* Erosion repairs begun

\* Oaks crushing concrete in compost area

\* Oaks grading roads on site

Auditor's Signature: *J. W. Spear, Jr.*

Auditor's Printed Name: *J. W. Spear, Jr.*

Management Signature: *Jay W. ...*

Management Printed Name: *Jay W. ...*

Management Title: *Site Manager*

JSA Principal Signature: \_\_\_\_\_

Date: *11/3/10*

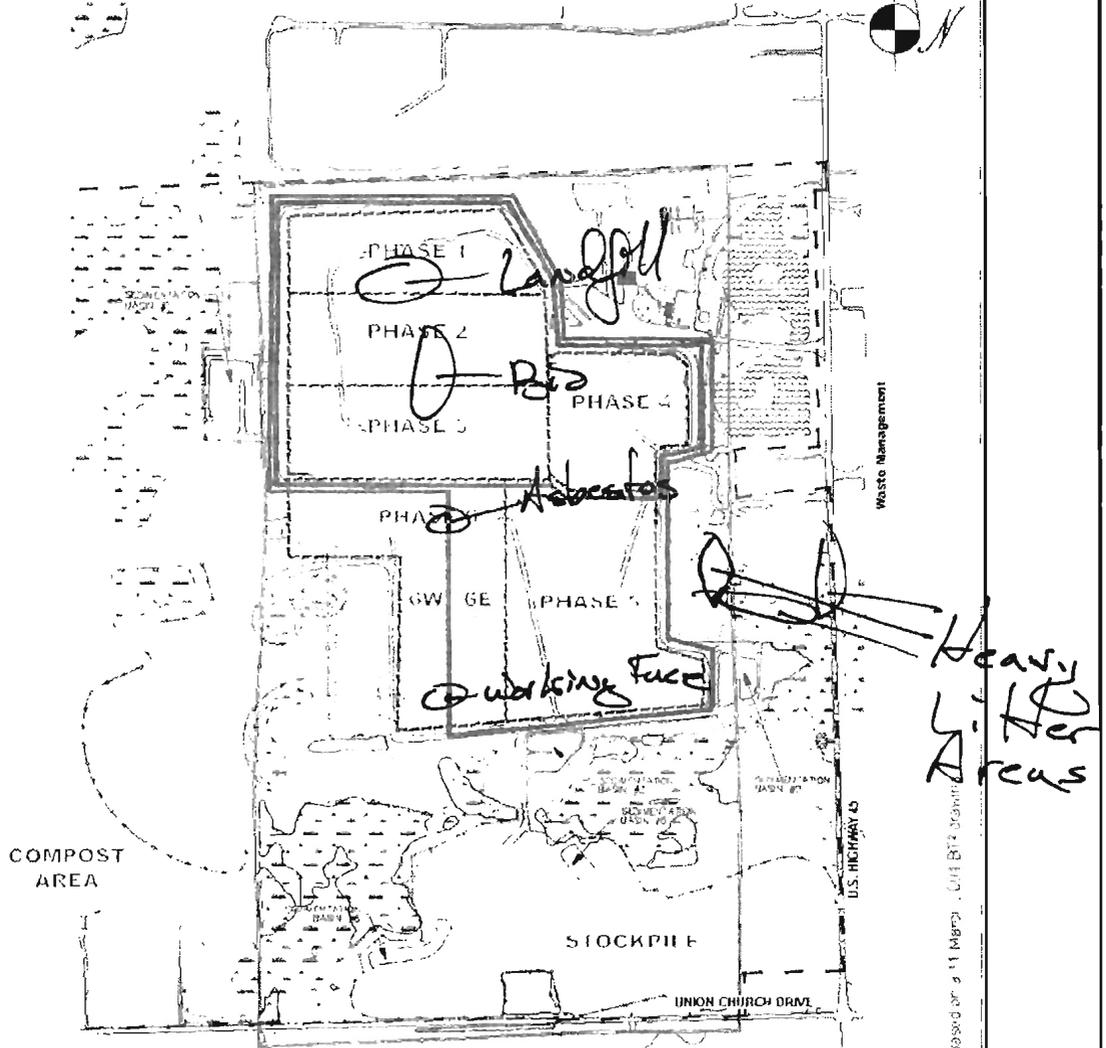
Date: *11/3/2010*

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP





**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



West slope of Phase 6, backdragged and being improved with soils from pipeline project



Active Area

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Working face at South end of Active area



Working face



New equipment access road and repaired rils on South Slope of Phase 3



Equipment access road on South slope of Phase 3



Raised gas collection well in Phase 6



West Slope of Phase 6







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 11/30/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of November 8, 2010. The audit was performed at 1:05 pm on **November 9, 2010** by Jo Spear Jr. in the presence of Melissa Evans.

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

- Working face at south end of active area, very tight on top of slope
  - ~ 1/4<sup>th</sup> acre in size, cover in good condition
  - Autofluff for cover
  - Cover recovered with autofluff since last week, autofluff in abundance
- Leachate being discharged to MMSD
- Flare in operation during audit, one shutdown
  - Flare shutdown due to blower shutdown on November 5, restored by November 6, 2010
- No storm events since last audit
  - Site very dry, dusty access roads
- No offsite or onsite odors
  - Site dramatically improved since last audit after heavy winds
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 11/09/10
- Site cleaned up after heavy winds last week.
- Road repairs begin tomorrow, construction will be in use
- Oaks clearing brush around construction entrance

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL OPERATIONS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE November 9, 2010  
 Auditor on site at:  Open  Close

TIME 1:05 PM

WEATHER Clear Sunny

WIND NE 5-10

TEMP Maximum 63 °F Minimum 44 °F

BP 29.97

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	NO	DESCRIPTION	Rented	Contracted
4	Compactor						
	Dozer						
	Excavator						
	Haul Truck						
1	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenance
1	Backhoe	✓					
1	Dozer	✓					

A Working Face Size and Location:

Working Face at South end of Active Area, very slight on top of slope  
2 1/4 Acre in size  
Active Area color in good condition



Cover Material:

Auto Sluff

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 1			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Flare shutdowns due to blower shutdown on Nov 5, Restored by Nov 6, 2010

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, dusty access roads

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

No offsite odors, also onsite odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

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

Comments:

Site dramatically improved since last Audit after Heavy Winds

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

US 45 @ 3 Mile Road Clean

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
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: November 9, 2010

Comments:

2,800 TPD, High of the week 2,400 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		
4.		None

Comments:



L. Other Comments:

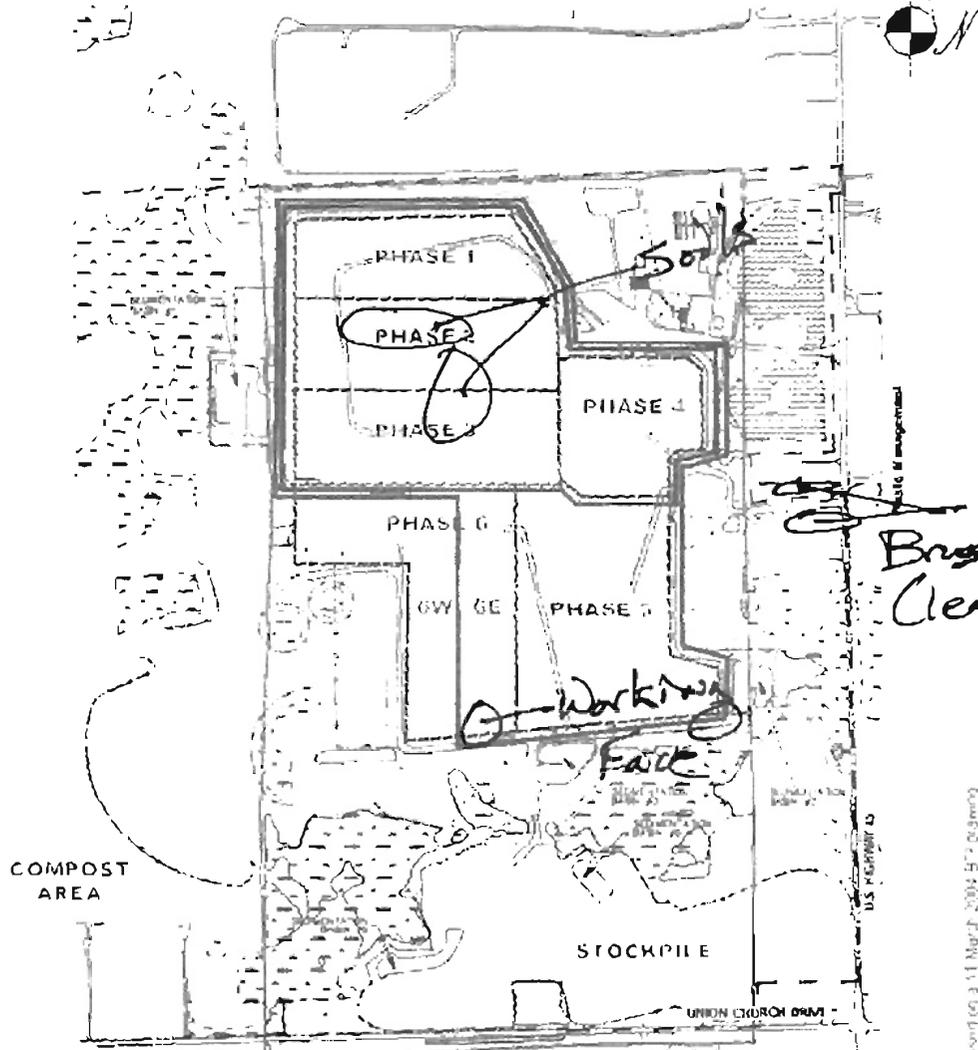
- \* Site cleaned up after heavy winds last week
- \* Road repairs begin tomorrow (construction)  
Entrance will be in use
- \* Oaks clearing brush around (construction)  
Entrance

Auditor's Signature: [Signature] Date: 11/9/10  
Auditor's Printed Name: Jo-Walter Spear, Jr  
Management Signature: [Signature] Date: 11/9/10  
Management Printed Name: FRANK KNEISS  
Management Title: Site Management  
JSA Principal Signature: \_\_\_\_\_ Date: \_\_\_\_\_



VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO

PROJECT NO 1020 10030



**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area at grade, facing South



Foundry sands and autofluff stock piled for daily cover

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Active area and autofluff stockpile



South Slope of Phases 5 & 6



West slope of Phase 6



Working face viewed from West



Waste tipping







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 12/1/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of November 15, 2010. The audit was performed at 1:30 pm on **November 19, 2010** by Jo Spear Jr. in the presence of Jay Warzinski.

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

- Working face at south end of Phase 6, cover in good condition
  - Biosoil pile treatment area has new layer of piping for blower connection in Phase 5
  - Autofluff and site clays for cover
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdown
  - No shutdowns since blower was replaced
- One storm events since last audit;
  - Slope repairs ongoing, seeding to come
- Odors noticed on and offsite, weather promoting odors
- Minimal litter onsite with winds, 1 picker active
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 11/16/10 ~1700 tpd
- Access roads being prepared for paving throughout site by contractor Wolf Paving. Paving project to be completed on 11/24/10. During project, truck traffic will be routed though the construction entrance. Paving will meet previous extents.

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



626  
728

VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE November 19, 2010  
Auditor on site at: Open  Close

TIME 1:30

WEATHER Overcast, falling temps

WIND SOUTH S-10

TEMP Maximum 46 °F Minimum 30 °F

B.P. 29.77

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>1</u>	Dozer	<input checked="" type="checkbox"/>					
	Excavator						
	Haul Truck						
	Water Truck						
<u>1</u>	Sweeper		<u>11/19</u>				

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>Dozer D6</u>						
	<u>D6 Dozer</u>						

A. Working Face Size and Location:

Bio soil pile treatment area has new layer of piping  
for blower connections in Phase 3  
Working face at South end of Phase 6. ~~Some~~  
Cover in excellent condition.



Cover Material:

Autohuff & Site Clays

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	01
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

No shutdowns since blower was replaced

D. Surface Water Management:

Storm Events Since Last

#

1

Est. Volume

~1"

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

Slope repairs ongoing, seeding to come

E. Odor Control:

Odors Present:

Onsite

Offsite

Comments:

Weather conditions prompting odors

Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>		
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>		
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1

Comments:

Minimal onsite litter with winds

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

US 43 & 8 Mile Road clean

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
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: ~~None~~ 4/16

Comments:

~ 1,700 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* Access Roads being prepared for paving  
throughout site. Half Paving is the contractor  
Paving Project to be completed 11/24  
During project truck traffic will be routed  
through construction entrance at times,  
Paving will meet previous extents

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

Date: 11/19/10

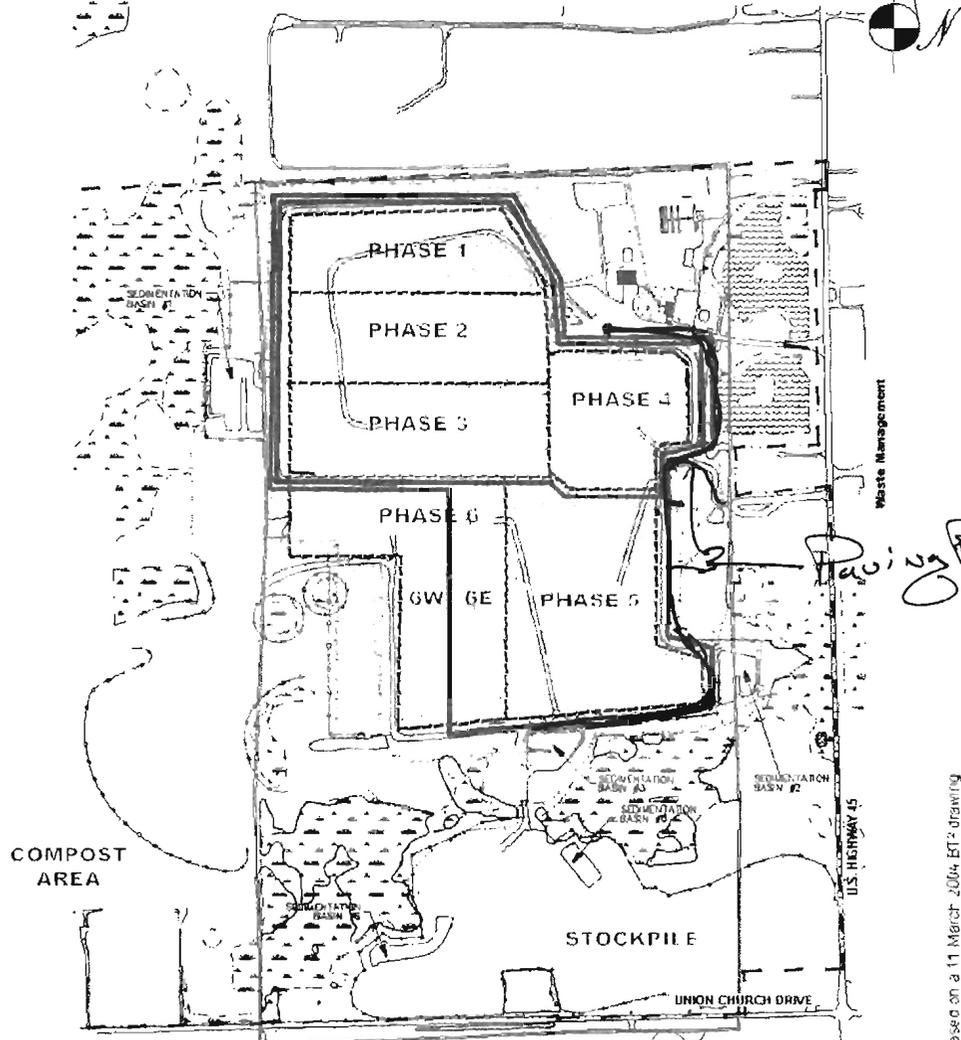
Date: 11/19/2010

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



***J Spear Associates***

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



West slope of Phase 6W, no flowing seeps



Close up of seeps

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



West slope of Phase 6 viewed from the North



Working face



Working face at South end of Phase 6



Active Area





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 11/30/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of November 22, 2010. The audit was performed at 11:31 am on **November 22, 2010** by Jo Spear Jr. in the presence of Brett Coogan.

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

- Working face at south end of active area moving north with current lift
  - Daily and intermediate cover in excellent condition, no soil loads today
  - Numerous autofluff piles
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdowns
  - ~2000 cfm destructed
- One storm event since last audit; ~ 1"
  - Rain during audit, ditches and basins prepared for volume
- Minor gas odors at active area
- No litter on or off site
  - Weather conditions preventing litter
- US45 north bound lane muddy and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Receiving ~ 1400 tpd
- Asphalt paving held off due to the weather

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE November 22, 2010 TIME 11:31  
Auditor on site at: Open  Close

WEATHER Raining overcast WIND S-SE 5-10

TEMP Maximum 61 °F Minimum 25 °F B.P. 29.78

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>1</u>	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>D6 Dozer</u>						

Working Face Size and Location:

Working face at South end of Active Area  
moving North with current lift.  
Daily and informal mediate cover in excellent  
condition.  
No soil loads today



Cover Material:

Numerous Autocluff stock piles

Leachate Management:

Discharge to MMSD

Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	# 0			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~ 2,000 CFM destructed

D. Surface Water Management:

Storm Events Since Last	# /	Est. Volume	c / <sup>100</sup>
-------------------------	-----	-------------	--------------------

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

Rain during audit, Ditches & Basins Prepared

E. Odor Control:

Odors Present:

Onsite <input checked="" type="checkbox"/>	Offsite <input type="checkbox"/>
--	----------------------------------

Comments:

Minor gas odors at Active Area

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 2

Comments:

Weather conditions preventing litter

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

US 75 - North Bound lane muddy  
 8 Mile - 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:

Comments:

~ 1,400 TPD

Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* Asphalt paving held off due to weather

Auditor's Signature:

*Jo-Walter Spear Jr*

Date: 11/22/10

Auditor's Printed Name:

Jo-Walter Spear Jr

Management Signature:

*Robert Cowan*

Date: 11/22/10

Management Printed Name:

Robert Cowan

Management Title:

Region ENGINEER

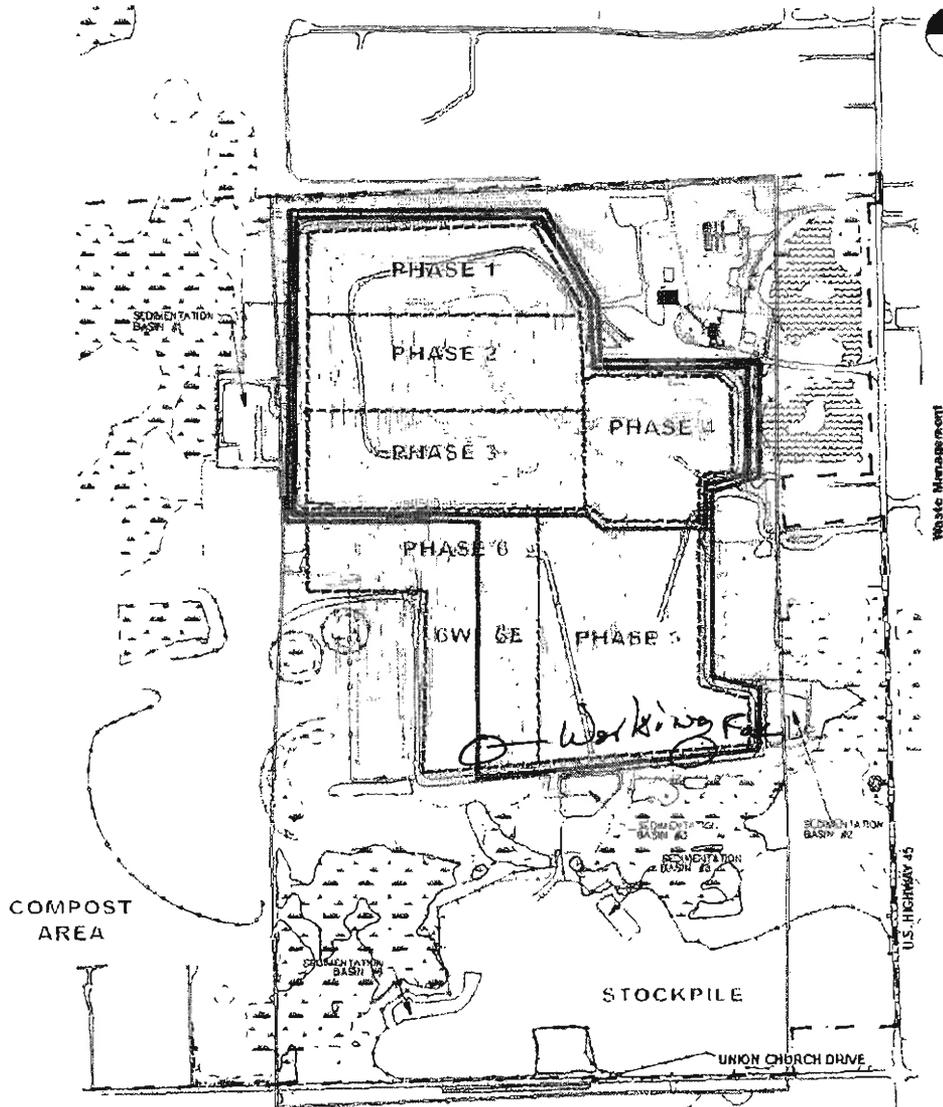
JSA Principal Signature:

Date:



# VEOLIA EMERALD PARK LANDFILL LANDFILL AUDIT MAP CITY OF MUSKEGO

PROJECT NO. 1020.10030



Waste Management

Revised on 11 March 2004 BT2 drawing

■ January 2002  
■ December 2006

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active area at grade



Working face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



West slope of Phase 6



West slope of Phase 6







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 11/30/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of November 29, 2010. The audit was performed at 2:33 pm on **November 29, 2010** by Jo Spear Jr. in the presence of Melissa Evans.

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

- Working face at south end of active area along west slope; cover in good shape
  - Landfill direct soils being tipped in Phase 3; biopile 14 completed and will be used in future projects, slope reclamation
  - Autofluff in use for daily cover
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdowns
  - Flare in good operation
- One storm events since last audit
  - Basins have free board, ditches cleaned
- No offsite or onsite odors
- Litter onsite, none offsite; litter on outboard slopes, 4 pickers active during audit
- US45 and 8 Mile Road clean; new site roads clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 11/27/10, ~ 1500 tpd
- Road paving complete, trucks using main entrance only, shoulder work still needed
- Clay hauling, two loads tomorrow

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE November 29, 2010  
Auditor on site at:  Open  Close

TIME 2:33

WEATHER Overcast, temperatures dropping

WIND South

TEMP Maximum 47 °F Minimum 40 °F

B.P. 29.97

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</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>1</u>	<u>Sweeper</u>		<u>11/23/10</u>				

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>1</u>	<u>D8 Dozer</u>						
<u>1</u>	<u>D6 Dozer</u>						

A. Working Face, Size and Location:

Working face at South end of Active Area  
along west slope. Covering good shape  
Landfill direct soils being tipped in Phase 3  
Bio Pile 14, completed and will be used  
in future projects, slope reclamation

Cover Material:

Auto pluff in use for daily cover

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
Turbines in Operation:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	#	NA
Engines in Operation:	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:			#			
Vegetation Condition:	Good	<input type="checkbox"/>	Fair	<input checked="" type="checkbox"/>	Poor	<input type="checkbox"/>
					Dead	<input type="checkbox"/>

Comments:

Flare in good operation

D. Surface Water Management:

Storm Events Since Last	# /	Est. Volume	~ / "
-------------------------	-----	-------------	-------

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

Basins have freeboard, ditches cleaned

E. Odor Control:

Odors Present:

Onsite	<input type="checkbox"/>	Offsite	<input type="checkbox"/>
--------	--------------------------	---------	--------------------------

Comments:

No offsite odors, No onsite odors

Special Waste Handling: storage of fingerprint samples and testing procedures

None



G Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	# 4

Comments:

Litter on east board slopes. Pickers active during audit

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

US 43 & B Mile road clean. New 5th roads clean

I. Inspection of incoming Waste:

Scale Camera Operator	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	3
Spotter.	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates: 11/22/2010				

Comments:

1,500 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		
2.		
3.		None
4.		

Comments:

L Other Comments.

\* Road paving complete, trucks using main  
entrance on site. Shoulder work still  
needed

\* Clay hauling, + 10 loads tomorrow

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

*[Handwritten Signature]*  
Bob Weister Spier, Jr.  
*[Handwritten Signature]*  
Jay Wenzel  
SU Regional Engineer

Date: 11/29/10

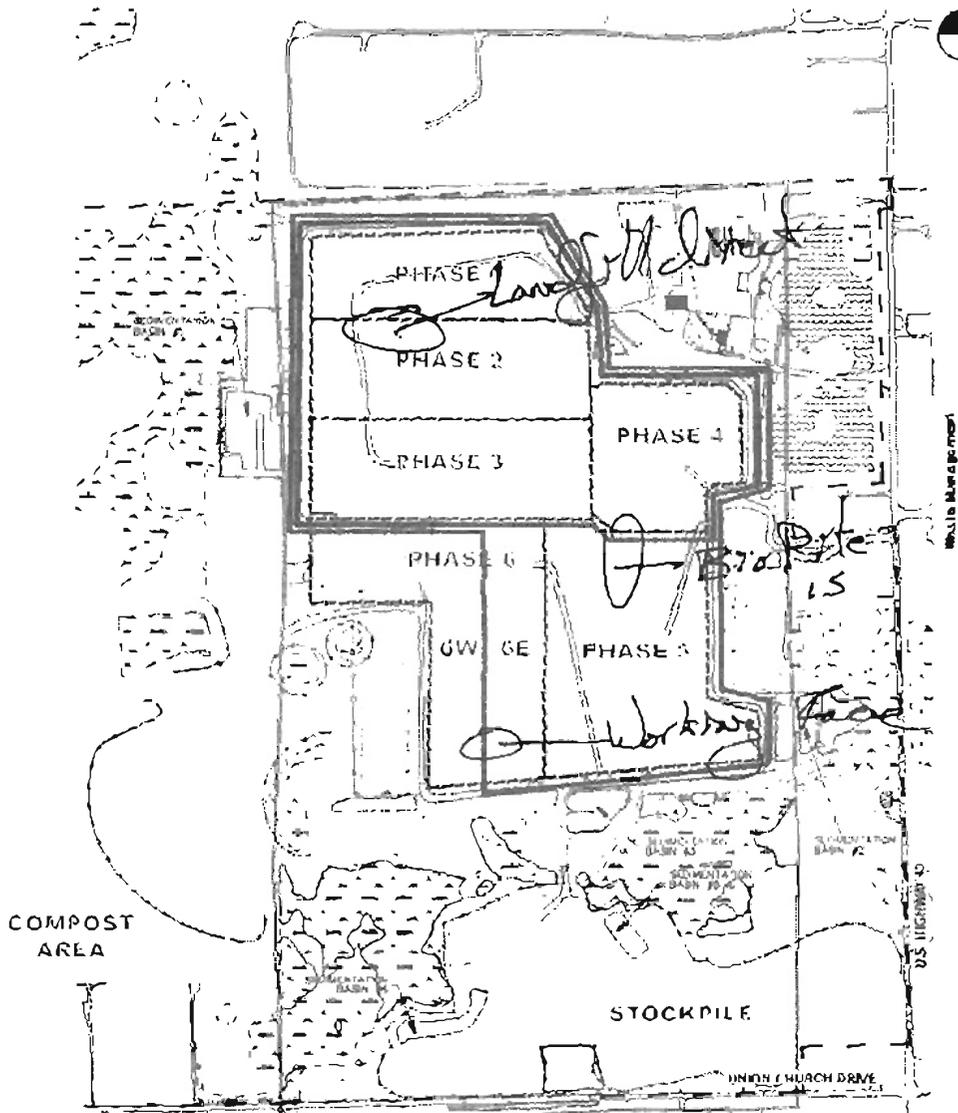
Date: 11/29/2010

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO 1020.10050



Consolidated March 2004 B70 Piles

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

January 2002  
December 2000

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08					
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



West slope of Phase 6, no seeps evident



West slope of Phase 6 at Southwest corner

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Working face at edge of West slope, Phase 6



Active area



Working face



Trucks queuing for clean out





December





## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**TO:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Jo-Walter Spear, Jr., PE  
**COPIES:** File  
**DATE:** 12/22/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of December 6, 2010. The audit was performed at 6:45am on **December 8, 2010** by Jo Spear Jr. in the presence of Jay Warzinski.

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

- Phase 5 receiving biosoils, being mixed with fertilizer to promote treatment
  - Working face at south end of active area at top of slope; side slopes snowy
  - Autofluff stockpiled for use
- Leachate being discharged to MMSD, all levels at maintenance
- Flare in operation during audit, no shutdowns
  - Snow cover prevents reviewing vegetation conditions
- One storm event since last audit
  - Snow event, minimal accumulation, no flow onsite.
  - Basin cleaning of 2 & 3 to be done in future
- No onsite odors, gas odor on US 45 and 8 Mile Road
- No litter on or off site
  - Weather conditions preventing litter along with fences and pickers
- US45 and 8 Mile Road clean
  - Sweep All to be onsite today for clay haul
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 12/07/10; ~ 1500tpd
- No trucks on apron prior to 6:45 am. Dump trucks waiting on construction entrance awaiting site opening, back hauling clay.
- New General Manager Matt Kingsley also GM of Horicon and Mallard Ridge.
- Miller excavating onsite for road construction to compost area, biopile use, lateral placement, west access road ~1.5 months of effort
- Compost area entrance open and unmanned

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE December 8, 2010 TIME 6:45  
Auditor on site at: Open  Close

WEATHER Clear Crisp & Dry WIND \_\_\_\_\_  
TEMP Maximum 23 °F Minimum 13 °F B.P. 30.15

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
	<u>July PM Work</u>						
	<u>Reidy Done</u>						

A. Working Face Size and Location:

Phase 5 receiving BioSoils, being mixed with fertilizer to promote treatment.  
Working face at South end of Active area at top of slope. Daily cover in good condition. Side slopes now covered.



Cover Material:

Autocluff stock piled for use

B. Leachate Management:

Discharge to MMSD all levels of maintenance

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#		0	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Snow cover prevents reviewing vegetation condition

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume	<1
-------------------------	---	-------------	----

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

Snow event, minimal accumulation, no flow onsite  
Basic clearing of 293 ~~to~~ to be done in future

E. Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input checked="" type="checkbox"/>
---------------------------------	---

Comments:

Gas odor on US 45 & 8th Rd

Special Waste Handling: storage of fingerprint samples and testing procedures

None



G Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	# 3

Comments:

Weather conditions preventing litter abatement with  
 services of Pickers

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

US 45 & 8 Mile Road Clean  
 Sweep All will be at site today for Clay Haul

I Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
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: 12/8/2010

Comments:

2,500 TPD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* No trucks on apron prior to 6:45

Dump trucks queued on Construction Entrance awaiting site opening, Backhauling Clay

\* New General Manager (GM) Matt Kingless also GM of Horicon & Mallard Ridge

\* Miller excavating on site for road construction to Compost Area, Bio Pile Use, Lateral Placement West Access Road. ~ 1.5 Months of effort.

\* Compost Area entrance open & unmaneuvered

Auditor's Signature:

Auditor's Printed Name:

Management Signature:

Management Printed Name:

Management Title:

JSA Principal Signature:

Date: 12/08/2010

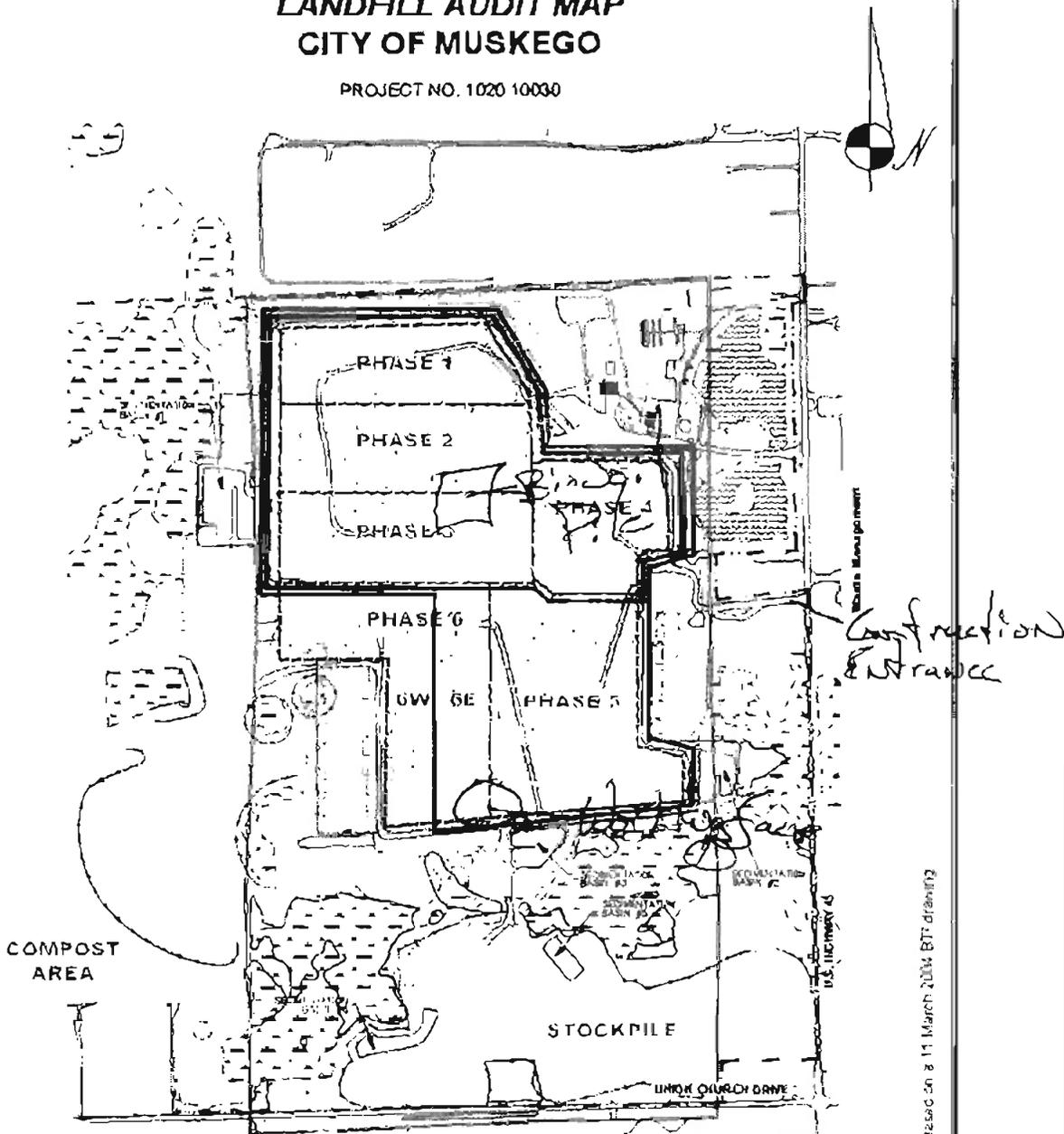
Date: 12/08/2010

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020 10030



**J Spear Associates**

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP

January 2002

December 2000

dated on 11 March 2004 BTT drawing



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Frozen load being dug out by excavator



Working face

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



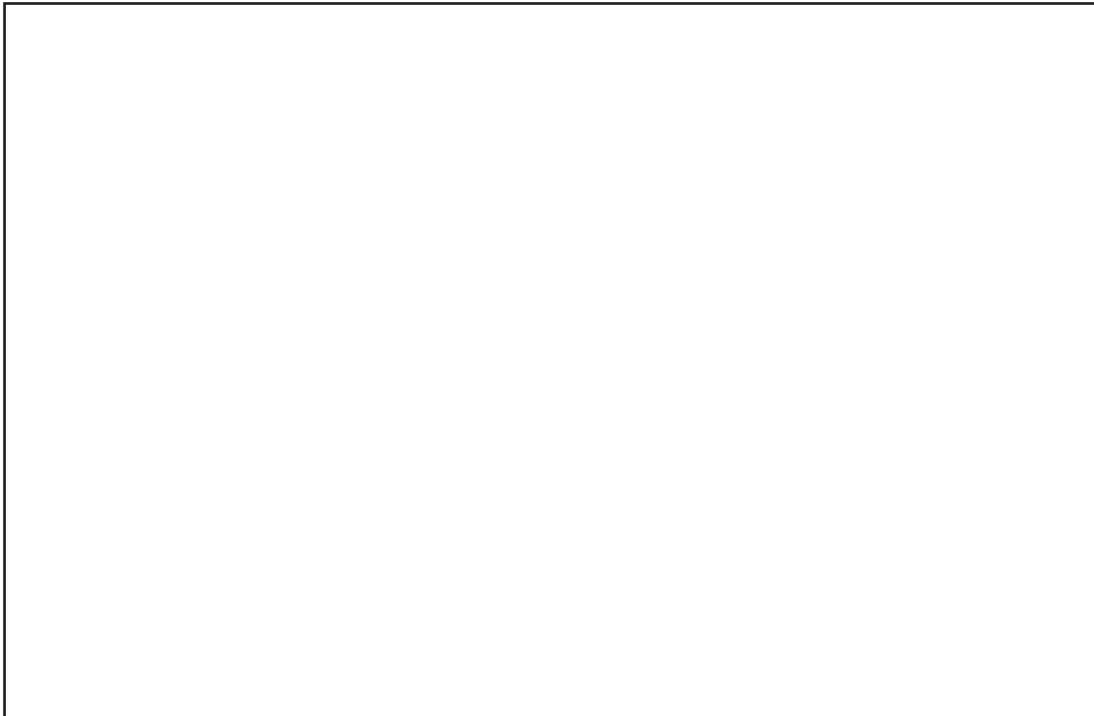
previous daily cover



West slope at South most end



West sope, no seeps







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 12/27/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of December 13, 2010. The audit was performed at 2:55 pm on **December 15, 2010** by Jo Spear Jr. in the presence of Matt Kingsley.

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

- Working face at south end of Phase 6, ~1/4 acre
  - Soils being delivered to Phase 2 & 3
  - Fertilizer being mixed with biosoils
  - Autofluff and site soils for daily cover
- Leachate being discharged to MMSD
- Flare in operation during audit, no shutdown
  - Snow conditions covering the vegetation
- No storm events since last audit
  - Frozen conditions
- No offsite or onsite odors
- No litter onsite, some litter offsite
  - 3 pickers active during the audit
- US45 and 8 Mile Road clean
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 12/15/10 ~1200tpd
- Scales being serviced

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE December 15, 2010  
Auditor on site at: Open  Close

TIME 2:55

WEATHER Clear Sunny

WIND S 5-10

TEMP Maximum 23 °F Minimum 14 °F

B.P. 30.02

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

NO.	DESCRIPTION	Rented	Contracted	NO.	DESCRIPTION	Rented	Contracted
<u>1</u>	Compactor						
<u>2</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

NO.	DESCRIPTION	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Soils being delivered to Phases 2 & 3.  
Fertilizer being mixed in with BioSoils  
Working face at South end of Phase 6 - 1/4 Acre



Cover Material:

Autohuff & Site Soils

B. Leachate Management:

Discharge to MMSD

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#		0	
Vegetation Condition:	Good <input checked="" type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

Good conditions covering vegetation

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume	
-------------------------	---	-------------	--

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

Frozen conditions

E. Odor Control:

Odors Present:

Onsite <input type="checkbox"/>	Offsite <input type="checkbox"/>
---------------------------------	----------------------------------

Comments:

No odors

F. Special Waste Handling: storage of fingerprint samples and testing procedures



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" 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 pickers Active during Audit.*

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

*US 45 & 8 Mile Road (Clean)*

I. Inspection of incoming Waste:

Scale Camera Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	<i>1</i>
Equipment Operator:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	<i>3</i>
Spotter:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	<i>0</i>
Random Load Inspection Dates:		<i>12/15/2010</i>		

Comments:

*~ 1,200*

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		<i>None</i>
2.		
3.		
4.		

Comments:



L. Other Comments:

*\* Scales being serviced.*

Auditor's Signature:

*[Handwritten Signature]*

Date: *12/15/2020*

Auditor's Printed Name:

*Joseph Spear Sr*

Management Signature:

*[Handwritten Signature]*

Date: *12/16/2020*

Management Printed Name:

*Matt Kingsley*

Management Title:

*Area Manager*

JSA Principal Signature:

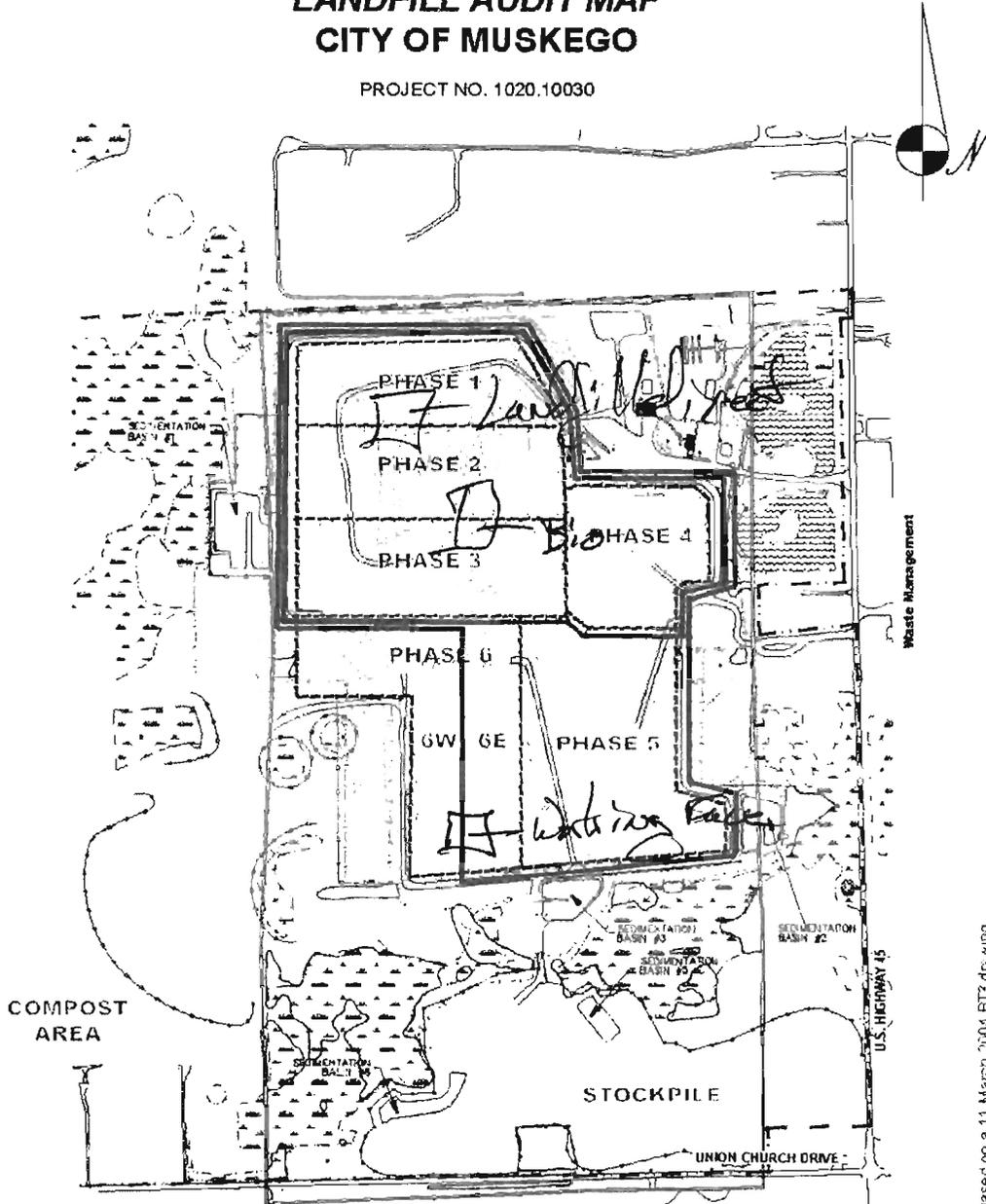
\_\_\_\_\_

Date: \_\_\_\_\_



**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



based on a 11 March 2004 BTP drawing

**J Spear Associates**

Environmental Engineers  
325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP











## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 12/27/10  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of December 20, 2010. The audit was performed at 11:55 am on **December 21, 2010** by Jo Spear Sr. in the presence of Matt Kingsley.

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

- Working face ~ 75' x 150', reasonable size for volume
  - Autofluff stockpiles, soils to be placed at end of day
- No recirculation at this time
- Site snow covered
- No offsite odors, minor odors noticed onsite near working face
- No litter noticed on or off site, site snow covered
- US45 and 8 Mile Road with some mud, but not excessive, will sweep if needed
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 12/20/10
- Site cleaned up after heavy winds last week.
- Road repairs begin tomorrow, construction will be in use
- Oaks clearing brush around construction entrance

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE 12-21-10

TIME 11:55 AM

Auditor on site at: Open  Close

WEATHER Overcast 35°F Light Snow

WIND 5-10

TEMP Maximum 36 °F Minimum 32 °F

B.P. \_\_\_\_\_

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>2</u>	Compactor						
<u>1</u>	Dozer						
<u>1</u>	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
<u>4</u>	<u>390 Compactor</u>	<u>✓</u>	<u>for parts</u>				

A. Working Face Size and Location:

75' x 150' size (width) reasonable for volume  
length due to working on wide bank



Cover Material:

Fluff stock piled Soil To be Brought out END of DAY

B. Leachate Management:

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Turbines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Engines in Operation:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	#	
Shutdowns Since Last Audit:	#			
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input type="checkbox"/>	Dead <input type="checkbox"/>

Comments:

~~REPIRE DAY 1/23/13~~ Recirculation still on Hold

D. Surface Water Management:

Storm Events Since Last	#	Est. Volume	
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EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

SNOW CUR.

E. Odor Control:

Odors Present: Onsite  Offsite

Comments:

MINOR odors NOTICED NEAR WORKING FACE

F. Special Waste Handling: storage of fingerprint samples and testing procedures



G. Litter Control:

Litter Present Onsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	# N/A.

Comments:

SNOW COVER

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

Mud present but not EXCESSIVE  
MGR will sweep if needed

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 type="checkbox"/>	#	
Random Load Inspection Dates:	12/20/10			

Comments:

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		N/A
2.		
3.		
4.		

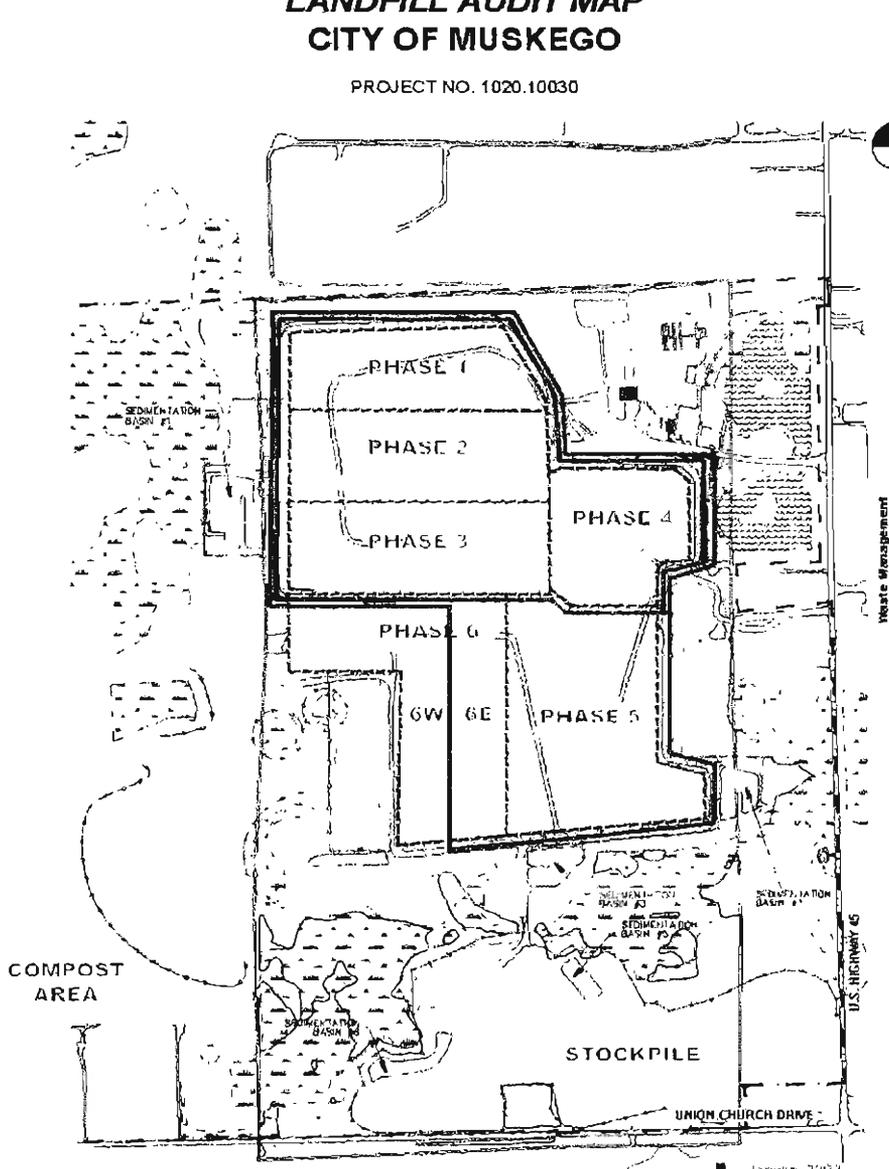
Comments:





**VEOLIA EMERALD PARK LANDFILL  
LANDFILL AUDIT MAP  
CITY OF MUSKEGO**

PROJECT NO. 1020.10030



January 2007  
December 2006

Based on a 1:1 Match 2/04 DTG Drawing

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL CONTRACTORS AUDIT FORM  
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE \_\_\_\_\_ TIME \_\_\_\_\_

MAJOR EQUIPMENT USED IN CONSTRUCTION OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
	Compactor						
	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Sweeper						

A. Work Accomplished Today (Scheduled & Completed):

*N/A.*

*No Construction.*



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

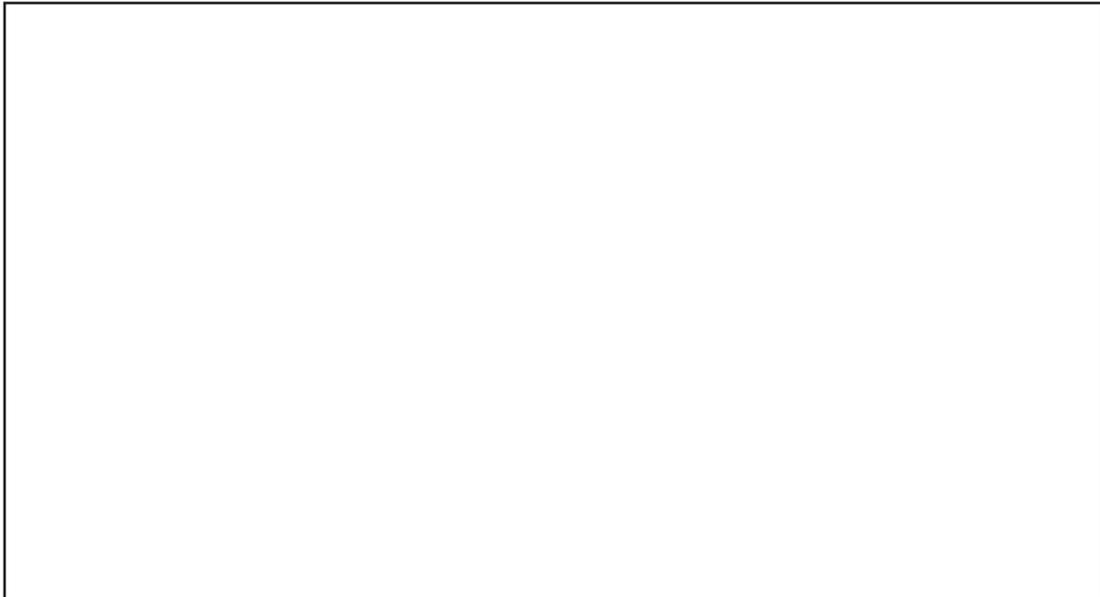
325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Active Area



***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212







## MEMORANDUM

# VEOLIA Emerald Park Landfill Audit Summary

**To:** Veolia Emerald Park Landfill Standing Committee, City of Muskego  
**FROM:** Anna Krajcik  
**COPIES:** File  
**DATE:** 01/03/11  
**PROJECT NUMBER:** 1012.10030

---

Attached is the audit report for activities at the Veolia Emerald Park Landfill for the week of December 27, 2010. The audit was performed at 11:40 am on **December 30, 2010** by Jo Spear Jr. in the presence of Brett Coogan.

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

- Working face at south end of active area, no other working faces on site
  - Outboard slope cover a bit rough, but competent
  - Autofluff used for cover
- Leachate being discharged to MMSD
- Flare in operation during audit, one shutdown
  - Vegetation around flare effected by weather
- One storm event since last audit <1”
  - Site thawing, basins have plenty of storage
- Some onsite odors
- Some litter on site, none off site; site conditions and weather reducing litter
- US45 and 8 Mile Road mucky
- Tipping scale camera and equipment operators inspecting waste
  - Random Load inspection date was 12/23/10
- Clay and topsoil placed on south slopes, seeding to be done when complete

Attachments:  
Action Items List / Landfill Operations Audit Form  
Audit Photos



VEOLIA EMERALD PARK LANDFILL  
LANDFILL OPERATIONS AUDIT FORM  
CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE December 30, 2010  
Auditor on site at: Open  Close

TIME 19:40

WEATHER Rainy, Foggy

WIND S 5-10

TEMP Maximum 43 °F Minimum 42 °F

B.P. 29.73

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

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

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A Working Face Size and Location:

Working face at South end of Active area  
No other working faces on site  
Out board slope cover a bit rough, but  
competent.

Cover Material:

Auto fluff being used

B Leachate Management:

Discharge to HMTS

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Turbines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Engines in Operation:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	NA
Shutdowns Since Last Audit:	#		0	
Vegetation Condition:	Good <input type="checkbox"/>	Fair <input type="checkbox"/>	Poor <input checked="" type="checkbox"/>	Dead <input type="checkbox"/>

Comments

Vegetation around flare affected by weather

D. Surface Water Management:

Storm Events Since Last	#	1	Est. Volume	27M
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EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

Site showing basins with plenty of storage

E Odor Control:

Odors Present:

Onsite  Offsite

Comments:

F. Special Waste Handling: storage of fingerprint samples and testing procedures

None

G. Litter Control:

Litter Present Onsite:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Litter Present Offsite:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Pickers Active:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	# 0

Comments:

Site conditions & weather reducing litter

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

US 43 & 1/2 Mile Road mucky

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"/>	#	2
Spotter	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	#	
Random Load Inspection Dates:	12/23/2010			

Comments:

~ 2,300 YRD

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		
3.		
4.		

Comments:



L. Other Comments:

\* Clay and top soil placed on South Slopes, Seeding to be done when complete.

Auditor's Signature:

*[Handwritten Signature]*

Date: 12/30/2010

Auditor's Printed Name:

J. Walter Spear Jr

Management Signature:

*[Handwritten Signature]*

Date: 12/30/2010

Management Printed Name:

BRETT Cochran

Management Title:

Engineer

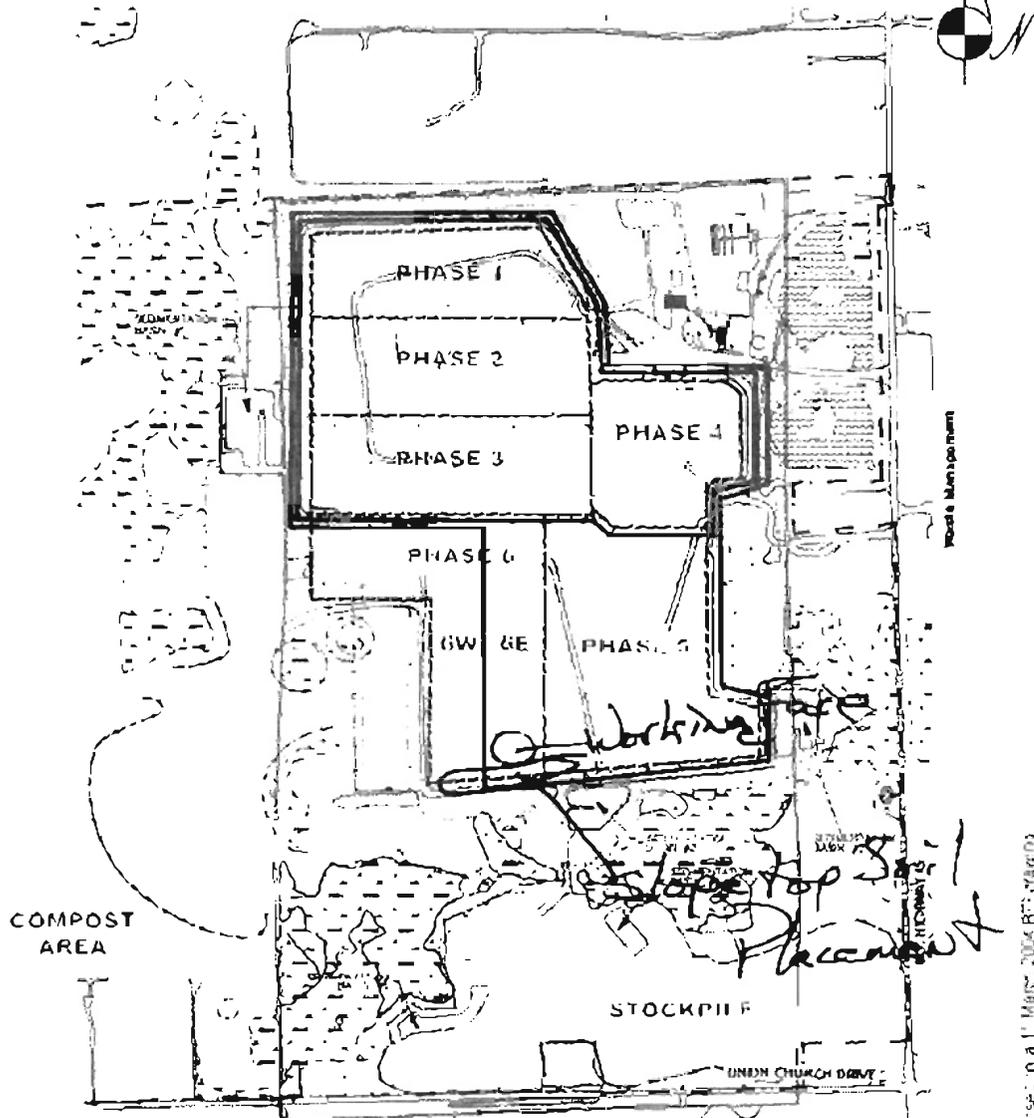
JSA Principal Signature:

Date: \_\_\_\_\_



VEOLIA EMERALD PARK LANDFILL  
 LANDFILL AUDIT MAP  
 CITY OF MUSKEGO

PROJECT NO. 1020 10030



**J Spear Associates**

Environmental Engineers  
 325 West Vine Street  
 Milwaukee, Wisconsin 53212

LANDFILL AUDIT MAP



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

Opened:		Updated: 01/04/08						
Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes	
1	6/11/2010	Exposed and Flagging Waste outside of current Active Area	POO & NR 506.5 and 506.6	ASAP	7/09/2010		Outboard slopes being covered with autofluff awaiting additional work to meet grade. Cover not enough.	

***J Spear Associates***

Environmental Engineers

325 West Vine Street  
 Milwaukee, Wisconsin 53212

**VEOLIA EMERALD PARK LANDFILL  
AUDIT PHOTOS  
CITY OF MUSKEGO**

PROJECT NO. 1012.10030



Working face



Compactor and dozer working face of waste

***JSA*** *Civil Environmental Engineers*

Environmental Engineers

325 West Vine Street  
Milwaukee, Wisconsin 53212



Stockpile of autofluff



Additional autofluff stockpile



Topsoil, spread over clay on South slope of Phase 5/6



Extents of Top soil placement to date.



New access road for future waste placement in Phase 6W



Reach of new access road.



Poor soil cover placement on West slope. Flagging waste visible.

